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

DATA PACKAGE

METALS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P5316

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for P5316

1) METALS DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 9

7) Chronicle 10

8) Hit Summary 11

9) Sample Data 12

- 9.1) TT-304-IDWSO-20241217-1 13

10) METALS CALIBRATION DATA 14

- 10.1) Initial and Continuing Calibration Verification 15
- 10.2) CRDL Standard For AA & ICP 28
- 10.3) Initial and Continuing Calibration Blank Summary 29
- 10.4) Preparation Blank Summary 38
- 10.5) Interference Check Sample 40

11) METALS QC DATA 42

- 11.1) Matrix Spike Summary 43
- 11.2) Post Digest Spike Summary 47
- 11.3) Duplicate Sample Summary 48
- 11.4) Laboratory Control Sample Summary 52
- 11.5) ICP Serial Dilutions 54

12) METALS PREPARATION & INSTRUMENT DATA 56

- 12.1) ICP Interelement Correction Factors 57

13) PREPARATION & ANALYTICAL SUMMARY 62

- 13.1) Sample Preparation Summary 63
- 13.2) Analysis Run Log 65

14) METALS RAW DATA 68

- 14.1) METALS RAW DATA - ANALYTICAL 69
- 14.2) LB134054 69
- 14.3) LB134066 311
- 14.4) LB134050 473
- 14.5) METALS RAW DATA - PREP 475
  - 14.5.1) PB165786 475
  - 14.5.2) PB165798 478

15) Percent Solid 481
16) Analytical Runlogs 485
17) Standard Prep Logs 498
18) Shipping Document 649
18.1) Chain Of Custody 650
18.2) Lab Certificate 651
18.3) Internal COC 652

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Cover Page

Order ID : P5316

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P5316-01	TT-304-IDWSO-20241217-1
P5316-02	TT-304-IDWSO-20241217-2
P5316-03	TT-304-IDWSO-20241217-3
P5316-04	TT-304-IDWSO-20241217-4

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

Signature : _____ Date: 12/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager : Ernie Wu
Chemtech Project # P5316
Test Name: Metals ICP-Group1,Mercury

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 12/17/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group2 and VOCMS Group4. This data package contains results for Metals ICP-Group1,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-Group1 was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

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 (RBR251688MS) analysis met criteria for all samples except for Arsenic, Beryllium, Chromium, Selenium, and Silver due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (RBR251688MSD) analysis met criteria for all samples except for Arsenic, Beryllium, Chromium, Copper, Selenium and Silver due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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_____

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

QA Control # A3040961

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: P5316 MATRIX: Solid

METHOD: 6010D,7471B

		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.			
	The Matrix Spike (RBR251688MS) analysis met criteria for all samples except for Arsenic, Beryllium, Chromium, Selenium, and Silver due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (RBR251688MSD) analysis met criteria for all samples except for Arsenic, Beryllium, Chromium, Copper, Selenium and Silver due to Chemical Interference during Digestion Process.			
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:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5316

	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: SOHIL JODHANI **Date:** 12/31/2024

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LAB CHRONICLE

OrderID:	P5316	**OrderDate:**	12/17/2024 3:44:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5316-01	**TT-304-IDWSO-20241217-1**	**SOIL**			**12/17/24**			**12/17/24**
			Mercury	7471B		12/20/24	12/20/24	
			Metals ICP-Group1	6010D		12/20/24	12/20/24	

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Hit Summary Sheet
SW-846

SDG No.: P5316 **Order ID:** P5316

Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**TT-304-IDWSO-20241217-1**								
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Arsenic	1.62		0.38	1.04	1.30	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Barium	8.67		0.83	1.63	6.51	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Beryllium	0.11	J	0.016	0.098	0.39	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Chromium	2.82		0.070	0.16	0.65	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Copper	5.10		0.61	1.04	1.30	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Lead	2.58		0.20	0.63	0.78	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Manganese	41.7		0.092	0.33	1.30	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Nickel	2.36	J	0.12	0.65	2.60	mg/Kg
P5316-01	TT-304-IDWSO-20241217-1	SOIL	Zinc	7.94		0.14	0.65	2.60	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/17/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	TT-304-IDWSO-20241217-1	SDG No.:	P5316
Lab Sample ID:	P5316-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	68.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.62	N	1	0.38	1.04	1.30	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-39-3	Barium	8.67		1	0.83	1.63	6.51	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-41-7	Beryllium	0.11	JN	1	0.016	0.098	0.39	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-43-9	Cadmium	0.098	U	1	0.021	0.098	0.39	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-47-3	Chromium	2.82	N	1	0.070	0.16	0.65	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-50-8	Copper	5.10	N	1	0.61	1.04	1.30	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7439-92-1	Lead	2.58		1	0.20	0.63	0.78	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7439-96-5	Manganese	41.7		1	0.092	0.33	1.30	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7439-97-6	Mercury	0.014	U	1	0.0080	0.014	0.017	mg/Kg	12/20/24 10:15	12/20/24 14:34	SW7471B	
7440-02-0	Nickel	2.36	J	1	0.12	0.65	2.60	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7782-49-2	Selenium	1.04	UN	1	0.43	1.04	1.30	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-22-4	Silver	0.33	UN	1	0.068	0.33	0.65	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050
7440-66-6	Zinc	7.94		1	0.14	0.65	2.60	mg/Kg	12/20/24 10:45	12/20/24 17:04	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group1				

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: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
ICV28	Mercury	4.01	4.0	100	90 - 110	CV	12/20/2024	14:13	LB134050

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV57	Mercury	5.05	5.0	101	90 - 110	CV	12/20/2024	14:17	LB134050
CCV58	Mercury	4.92	5.0	98	90 - 110	CV	12/20/2024	14:43	LB134050
CCV59	Mercury	4.90	5.0	98	90 - 110	CV	12/20/2024	15:01	LB134050

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	12/20/2024	16:07	LB134054
	Barium	471	520	91	90 - 110	P	12/20/2024	16:07	LB134054
	Beryllium	486	510	95	90 - 110	P	12/20/2024	16:07	LB134054
	Cadmium	502	510	98	90 - 110	P	12/20/2024	16:07	LB134054
	Chromium	534	520	103	90 - 110	P	12/20/2024	16:07	LB134054
	Copper	522	510	102	90 - 110	P	12/20/2024	16:07	LB134054
	Lead	1000	1000	100	90 - 110	P	12/20/2024	16:07	LB134054
	Manganese	494	520	95	90 - 110	P	12/20/2024	16:07	LB134054
	Nickel	510	530	96	90 - 110	P	12/20/2024	16:07	LB134054
	Selenium	1020	1000	102	90 - 110	P	12/20/2024	16:07	LB134054
	Silver	251	250	100	90 - 110	P	12/20/2024	16:07	LB134054
	Zinc	1010	1000	101	90 - 110	P	12/20/2024	16:07	LB134054

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	19.0	20.0	95	80 - 120	P	12/20/2024	16:11	LB134054
	Barium	87.9	100	88	80 - 120	P	12/20/2024	16:11	LB134054
	Beryllium	5.75	6.0	96	80 - 120	P	12/20/2024	16:11	LB134054
	Cadmium	5.80	6.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Chromium	9.98	10.0	100	80 - 120	P	12/20/2024	16:11	LB134054
	Copper	21.8	20.0	109	80 - 120	P	12/20/2024	16:11	LB134054
	Lead	12.1	12.0	101	80 - 120	P	12/20/2024	16:11	LB134054
	Manganese	19.3	20.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Nickel	38.9	40.0	97	80 - 120	P	12/20/2024	16:11	LB134054
	Selenium	19.7	20.0	98	80 - 120	P	12/20/2024	16:11	LB134054
	Silver	10.3	10.0	103	80 - 120	P	12/20/2024	16:11	LB134054
	Zinc	38.9	40.0	97	80 - 120	P	12/20/2024	16:11	LB134054

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	4800	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Barium	9130	10000	91	90 - 110	P	12/20/2024	16:47	LB134054
	Beryllium	237	250	95	90 - 110	P	12/20/2024	16:47	LB134054
	Cadmium	2420	2500	97	90 - 110	P	12/20/2024	16:47	LB134054
	Chromium	1000	1000	100	90 - 110	P	12/20/2024	16:47	LB134054
	Copper	1220	1250	97	90 - 110	P	12/20/2024	16:47	LB134054
	Lead	4830	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Manganese	2410	2500	96	90 - 110	P	12/20/2024	16:47	LB134054
	Nickel	2410	2500	96	90 - 110	P	12/20/2024	16:47	LB134054
	Selenium	4790	5000	96	90 - 110	P	12/20/2024	16:47	LB134054
	Silver	1220	1250	98	90 - 110	P	12/20/2024	16:47	LB134054
	Zinc	2440	2500	98	90 - 110	P	12/20/2024	16:47	LB134054
CCV02	Arsenic	5010	5000	100	90 - 110	P	12/20/2024	17:29	LB134054
	Barium	9240	10000	92	90 - 110	P	12/20/2024	17:29	LB134054
	Beryllium	242	250	97	90 - 110	P	12/20/2024	17:29	LB134054
	Cadmium	2490	2500	100	90 - 110	P	12/20/2024	17:29	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	17:29	LB134054
	Copper	1260	1250	101	90 - 110	P	12/20/2024	17:29	LB134054
	Lead	4970	5000	99	90 - 110	P	12/20/2024	17:29	LB134054
	Manganese	2460	2500	99	90 - 110	P	12/20/2024	17:29	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	17:29	LB134054
	Selenium	5020	5000	100	90 - 110	P	12/20/2024	17:29	LB134054
	Silver	1250	1250	100	90 - 110	P	12/20/2024	17:29	LB134054
	Zinc	2500	2500	100	90 - 110	P	12/20/2024	17:29	LB134054
CCV03	Arsenic	4960	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Barium	9430	10000	94	90 - 110	P	12/20/2024	18:12	LB134054
	Beryllium	244	250	98	90 - 110	P	12/20/2024	18:12	LB134054
	Cadmium	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	18:12	LB134054
	Copper	1250	1250	100	90 - 110	P	12/20/2024	18:12	LB134054
	Lead	4950	5000	99	90 - 110	P	12/20/2024	18:12	LB134054
	Manganese	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	18:12	LB134054
	Selenium	4960	5000	99	90 - 110	P	12/20/2024	18:12	LB134054

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV03	Silver	1250	1250	100	90 - 110	P	12/20/2024	18:12	LB134054
	Zinc	2500	2500	100	90 - 110	P	12/20/2024	18:12	LB134054
CCV04	Arsenic	4910	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Barium	9150	10000	92	90 - 110	P	12/20/2024	19:02	LB134054
	Beryllium	240	250	96	90 - 110	P	12/20/2024	19:02	LB134054
	Cadmium	2440	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Chromium	1010	1000	101	90 - 110	P	12/20/2024	19:02	LB134054
	Copper	1240	1250	99	90 - 110	P	12/20/2024	19:02	LB134054
	Lead	4890	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Manganese	2450	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Nickel	2440	2500	98	90 - 110	P	12/20/2024	19:02	LB134054
	Selenium	4920	5000	98	90 - 110	P	12/20/2024	19:02	LB134054
	Silver	1240	1250	99	90 - 110	P	12/20/2024	19:02	LB134054
	Zinc	2470	2500	99	90 - 110	P	12/20/2024	19:02	LB134054
CCV05	Arsenic	5060	5000	101	90 - 110	P	12/20/2024	19:57	LB134054
	Barium	9370	10000	94	90 - 110	P	12/20/2024	19:57	LB134054
	Beryllium	242	250	97	90 - 110	P	12/20/2024	19:57	LB134054
	Cadmium	2510	2500	100	90 - 110	P	12/20/2024	19:57	LB134054
	Chromium	1030	1000	103	90 - 110	P	12/20/2024	19:57	LB134054
	Copper	1270	1250	102	90 - 110	P	12/20/2024	19:57	LB134054
	Lead	5020	5000	100	90 - 110	P	12/20/2024	19:57	LB134054
	Manganese	2490	2500	99	90 - 110	P	12/20/2024	19:57	LB134054
	Nickel	2510	2500	100	90 - 110	P	12/20/2024	19:57	LB134054
	Selenium	5070	5000	102	90 - 110	P	12/20/2024	19:57	LB134054
	Silver	1260	1250	101	90 - 110	P	12/20/2024	19:57	LB134054
	Zinc	2520	2500	101	90 - 110	P	12/20/2024	19:57	LB134054
CCV06	Arsenic	4830	5000	96	90 - 110	P	12/20/2024	20:47	LB134054
	Barium	9020	10000	90	90 - 110	P	12/20/2024	20:47	LB134054
	Beryllium	237	250	95	90 - 110	P	12/20/2024	20:47	LB134054
	Cadmium	2410	2500	96	90 - 110	P	12/20/2024	20:47	LB134054
	Chromium	995	1000	100	90 - 110	P	12/20/2024	20:47	LB134054
	Copper	1220	1250	98	90 - 110	P	12/20/2024	20:47	LB134054
	Lead	4800	5000	96	90 - 110	P	12/20/2024	20:47	LB134054
	Manganese	2420	2500	97	90 - 110	P	12/20/2024	20:47	LB134054

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV06	Nickel	2400	2500	96	90 - 110	P	12/20/2024	20:47	LB134054
	Selenium	4830	5000	97	90 - 110	P	12/20/2024	20:47	LB134054
	Silver	1210	1250	97	90 - 110	P	12/20/2024	20:47	LB134054
	Zinc	2420	2500	97	90 - 110	P	12/20/2024	20:47	LB134054
CCV07	Arsenic	4880	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Barium	9110	10000	91	90 - 110	P	12/20/2024	21:37	LB134054
	Beryllium	242	250	97	90 - 110	P	12/20/2024	21:37	LB134054
	Cadmium	2430	2500	97	90 - 110	P	12/20/2024	21:37	LB134054
	Chromium	1010	1000	101	90 - 110	P	12/20/2024	21:37	LB134054
	Copper	1230	1250	99	90 - 110	P	12/20/2024	21:37	LB134054
	Lead	4860	5000	97	90 - 110	P	12/20/2024	21:37	LB134054
	Manganese	2460	2500	98	90 - 110	P	12/20/2024	21:37	LB134054
	Nickel	2430	2500	97	90 - 110	P	12/20/2024	21:37	LB134054
	Selenium	4890	5000	98	90 - 110	P	12/20/2024	21:37	LB134054
	Silver	1230	1250	99	90 - 110	P	12/20/2024	21:37	LB134054
	Zinc	2460	2500	98	90 - 110	P	12/20/2024	21:37	LB134054
CCV08	Arsenic	5020	5000	100	90 - 110	P	12/20/2024	23:01	LB134054
	Barium	9290	10000	93	90 - 110	P	12/20/2024	23:01	LB134054
	Beryllium	238	250	95	90 - 110	P	12/20/2024	23:01	LB134054
	Cadmium	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	23:01	LB134054
	Copper	1260	1250	101	90 - 110	P	12/20/2024	23:01	LB134054
	Lead	4960	5000	99	90 - 110	P	12/20/2024	23:01	LB134054
	Manganese	2450	2500	98	90 - 110	P	12/20/2024	23:01	LB134054
	Nickel	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
	Selenium	5050	5000	101	90 - 110	P	12/20/2024	23:01	LB134054
	Silver	1250	1250	100	90 - 110	P	12/20/2024	23:01	LB134054
	Zinc	2480	2500	99	90 - 110	P	12/20/2024	23:01	LB134054
CCV09	Arsenic	4940	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Barium	9220	10000	92	90 - 110	P	12/20/2024	23:55	LB134054
	Beryllium	239	250	96	90 - 110	P	12/20/2024	23:55	LB134054
	Cadmium	2450	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Chromium	1020	1000	102	90 - 110	P	12/20/2024	23:55	LB134054
	Copper	1250	1250	100	90 - 110	P	12/20/2024	23:55	LB134054

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV09	Lead	4900	5000	98	90 - 110	P	12/20/2024	23:55	LB134054
	Manganese	2460	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Nickel	2450	2500	98	90 - 110	P	12/20/2024	23:55	LB134054
	Selenium	4950	5000	99	90 - 110	P	12/20/2024	23:55	LB134054
	Silver	1240	1250	99	90 - 110	P	12/20/2024	23:55	LB134054
	Zinc	2460	2500	98	90 - 110	P	12/20/2024	23:55	LB134054

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	1050	1000	105	90 - 110	P	12/23/2024	11:17	LB134066
	Barium	484	520	93	90 - 110	P	12/23/2024	11:17	LB134066
	Beryllium	472	510	93	90 - 110	P	12/23/2024	11:17	LB134066
	Cadmium	508	510	100	90 - 110	P	12/23/2024	11:17	LB134066
	Chromium	532	520	102	90 - 110	P	12/23/2024	11:17	LB134066
	Copper	530	510	104	90 - 110	P	12/23/2024	11:17	LB134066
	Lead	1020	1000	102	90 - 110	P	12/23/2024	11:17	LB134066
	Manganese	490	520	94	90 - 110	P	12/23/2024	11:17	LB134066
	Nickel	519	530	98	90 - 110	P	12/23/2024	11:17	LB134066
	Selenium	1050	1000	105	90 - 110	P	12/23/2024	11:17	LB134066
	Silver	260	250	104	90 - 110	P	12/23/2024	11:17	LB134066
	Zinc	1030	1000	103	90 - 110	P	12/23/2024	11:17	LB134066

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	20.6	20.0	103	80 - 120	P	12/23/2024	11:37	LB134066
	Barium	90.4	100	90	80 - 120	P	12/23/2024	11:37	LB134066
	Beryllium	5.75	6.0	96	80 - 120	P	12/23/2024	11:37	LB134066
	Cadmium	5.89	6.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Chromium	9.87	10.0	99	80 - 120	P	12/23/2024	11:37	LB134066
	Copper	21.8	20.0	109	80 - 120	P	12/23/2024	11:37	LB134066
	Lead	12.0	12.0	100	80 - 120	P	12/23/2024	11:37	LB134066
	Manganese	19.5	20.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Nickel	39.3	40.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Selenium	19.0	20.0	95	80 - 120	P	12/23/2024	11:37	LB134066
	Silver	10.8	10.0	108	80 - 120	P	12/23/2024	11:37	LB134066
	Zinc	45.7	40.0	114	80 - 120	P	12/23/2024	11:37	LB134066

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	5110	5000	102	90 - 110	P	12/23/2024	12:31	LB134066
	Barium	9710	10000	97	90 - 110	P	12/23/2024	12:31	LB134066
	Beryllium	232	250	93	90 - 110	P	12/23/2024	12:31	LB134066
	Cadmium	2450	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
	Chromium	998	1000	100	90 - 110	P	12/23/2024	12:31	LB134066
	Copper	1280	1250	102	90 - 110	P	12/23/2024	12:31	LB134066
	Lead	4890	5000	98	90 - 110	P	12/23/2024	12:31	LB134066
	Manganese	2380	2500	95	90 - 110	P	12/23/2024	12:31	LB134066
	Nickel	2470	2500	99	90 - 110	P	12/23/2024	12:31	LB134066
	Selenium	5190	5000	104	90 - 110	P	12/23/2024	12:31	LB134066
	Silver	1250	1250	100	90 - 110	P	12/23/2024	12:31	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
CCV02	Arsenic	5360	5000	107	90 - 110	P	12/23/2024	13:43	LB134066
	Barium	10100	10000	101	90 - 110	P	12/23/2024	13:43	LB134066
	Beryllium	230	250	92	90 - 110	P	12/23/2024	13:43	LB134066
	Cadmium	2500	2500	100	90 - 110	P	12/23/2024	13:43	LB134066
	Chromium	1000	1000	100	90 - 110	P	12/23/2024	13:43	LB134066
	Copper	1340	1250	107	90 - 110	P	12/23/2024	13:43	LB134066
	Lead	4990	5000	100	90 - 110	P	12/23/2024	13:43	LB134066
	Manganese	2410	2500	96	90 - 110	P	12/23/2024	13:43	LB134066
	Nickel	2530	2500	101	90 - 110	P	12/23/2024	13:43	LB134066
	Selenium	5480	5000	110	90 - 110	P	12/23/2024	13:43	LB134066
	Silver	1270	1250	102	90 - 110	P	12/23/2024	13:43	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	13:43	LB134066
CCV03	Arsenic	5340	5000	107	90 - 110	P	12/23/2024	14:07	LB134066
	Barium	10200	10000	102	90 - 110	P	12/23/2024	14:07	LB134066
	Beryllium	230	250	92	90 - 110	P	12/23/2024	14:07	LB134066
	Cadmium	2470	2500	99	90 - 110	P	12/23/2024	14:07	LB134066
	Chromium	1000	1000	100	90 - 110	P	12/23/2024	14:07	LB134066
	Copper	1340	1250	107	90 - 110	P	12/23/2024	14:07	LB134066
	Lead	4940	5000	99	90 - 110	P	12/23/2024	14:07	LB134066
	Manganese	2400	2500	96	90 - 110	P	12/23/2024	14:07	LB134066
	Nickel	2510	2500	100	90 - 110	P	12/23/2024	14:07	LB134066
	Selenium	5480	5000	110	90 - 110	P	12/23/2024	14:07	LB134066

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV03	Silver	1270	1250	102	90 - 110	P	12/23/2024	14:07	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	14:07	LB134066
CCV04	Arsenic	5210	5000	104	90 - 110	P	12/23/2024	15:06	LB134066
	Barium	9720	10000	97	90 - 110	P	12/23/2024	15:06	LB134066
	Beryllium	226	250	90	90 - 110	P	12/23/2024	15:06	LB134066
	Cadmium	2450	2500	98	90 - 110	P	12/23/2024	15:06	LB134066
	Chromium	998	1000	100	90 - 110	P	12/23/2024	15:06	LB134066
	Copper	1300	1250	104	90 - 110	P	12/23/2024	15:06	LB134066
	Lead	4870	5000	97	90 - 110	P	12/23/2024	15:06	LB134066
	Manganese	2330	2500	93	90 - 110	P	12/23/2024	15:06	LB134066
	Nickel	2480	2500	99	90 - 110	P	12/23/2024	15:06	LB134066
	Selenium	5340	5000	107	90 - 110	P	12/23/2024	15:06	LB134066
	Silver	1250	1250	100	90 - 110	P	12/23/2024	15:06	LB134066
	Zinc	2350	2500	94	90 - 110	P	12/23/2024	15:06	LB134066
CCV05	Arsenic	5380	5000	108	90 - 110	P	12/23/2024	16:06	LB134066
	Barium	9910	10000	99	90 - 110	P	12/23/2024	16:06	LB134066
	Beryllium	227	250	91	90 - 110	P	12/23/2024	16:06	LB134066
	Cadmium	2470	2500	99	90 - 110	P	12/23/2024	16:06	LB134066
	Chromium	1010	1000	101	90 - 110	P	12/23/2024	16:06	LB134066
	Copper	1340	1250	108	90 - 110	P	12/23/2024	16:06	LB134066
	Lead	4920	5000	98	90 - 110	P	12/23/2024	16:06	LB134066
	Manganese	2360	2500	94	90 - 110	P	12/23/2024	16:06	LB134066
	Nickel	2510	2500	100	90 - 110	P	12/23/2024	16:06	LB134066
	Selenium	5500	5000	110	90 - 110	P	12/23/2024	16:06	LB134066
	Silver	1270	1250	102	90 - 110	P	12/23/2024	16:06	LB134066
	Zinc	2350	2500	94	90 - 110	P	12/23/2024	16:06	LB134066
CCV06	Arsenic	5350	5000	107	90 - 110	P	12/23/2024	16:54	LB134066
	Barium	10100	10000	101	90 - 110	P	12/23/2024	16:54	LB134066
	Beryllium	243	250	97	90 - 110	P	12/23/2024	16:54	LB134066
	Cadmium	2540	2500	102	90 - 110	P	12/23/2024	16:54	LB134066
	Chromium	1040	1000	104	90 - 110	P	12/23/2024	16:54	LB134066
	Copper	1350	1250	108	90 - 110	P	12/23/2024	16:54	LB134066
	Lead	5030	5000	100	90 - 110	P	12/23/2024	16:54	LB134066
	Manganese	2430	2500	97	90 - 110	P	12/23/2024	16:54	LB134066

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CCV06	Nickel	2560	2500	102	90 - 110	P	12/23/2024	16:54	LB134066
	Selenium	5460	5000	109	90 - 110	P	12/23/2024	16:54	LB134066
	Silver	1280	1250	103	90 - 110	P	12/23/2024	16:54	LB134066
	Zinc	2340	2500	94	90 - 110	P	12/23/2024	16:54	LB134066

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
CRA	Mercury	0.19	0.2	97	40 - 160	CV	12/20/2024	14:22	LB134050
CRI01	Arsenic	21.1	20.0	106	40 - 160	P	12/20/2024	16:26	LB134054
	Barium	87.8	100	88	40 - 160	P	12/20/2024	16:26	LB134054
	Beryllium	5.71	6.0	95	40 - 160	P	12/20/2024	16:26	LB134054
	Cadmium	5.88	6.0	98	40 - 160	P	12/20/2024	16:26	LB134054
	Chromium	10.2	10.0	102	40 - 160	P	12/20/2024	16:26	LB134054
	Copper	21.8	20.0	109	40 - 160	P	12/20/2024	16:26	LB134054
	Lead	11.1	12.0	93	40 - 160	P	12/20/2024	16:26	LB134054
	Manganese	18.9	20.0	95	40 - 160	P	12/20/2024	16:26	LB134054
	Nickel	39.0	40.0	98	40 - 160	P	12/20/2024	16:26	LB134054
	Selenium	18.3	20.0	92	40 - 160	P	12/20/2024	16:26	LB134054
	Silver	10.3	10.0	103	40 - 160	P	12/20/2024	16:26	LB134054
	Zinc	38.8	40.0	97	40 - 160	P	12/20/2024	16:26	LB134054
CRI01	Arsenic	19.2	20.0	96	40 - 160	P	12/23/2024	11:51	LB134066
	Barium	92.0	100	92	40 - 160	P	12/23/2024	11:51	LB134066
	Beryllium	5.71	6.0	95	40 - 160	P	12/23/2024	11:51	LB134066
	Cadmium	5.81	6.0	97	40 - 160	P	12/23/2024	11:51	LB134066
	Chromium	9.74	10.0	97	40 - 160	P	12/23/2024	11:51	LB134066
	Copper	21.9	20.0	110	40 - 160	P	12/23/2024	11:51	LB134066
	Lead	11.0	12.0	92	40 - 160	P	12/23/2024	11:51	LB134066
	Manganese	19.6	20.0	98	40 - 160	P	12/23/2024	11:51	LB134066
	Nickel	39.3	40.0	98	40 - 160	P	12/23/2024	11:51	LB134066
	Selenium	17.1	20.0	86	40 - 160	P	12/23/2024	11:51	LB134066
	Silver	11.0	10.0	110	40 - 160	P	12/23/2024	11:51	LB134066
	Zinc	41.4	40.0	104	40 - 160	P	12/23/2024	11:51	LB134066

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:15	LB134050

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB57	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:20	LB134050
CCB58	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:45	LB134050
CCB59	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	15:03	LB134050

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	12/20/2024	16:21	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	16:21	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	16:21	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	16:21	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	16:21	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	16:21	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	16:21	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	16:21	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	16:21	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	16:21	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	16:21	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	16:21	LB134054

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	12/20/2024	16:51	LB134054
	Barium	14.0	+/-100	J	25.0	100	P	12/20/2024	16:51	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	16:51	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	16:51	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	16:51	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	16:51	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	16:51	LB134054
	Manganese	5.60	+/-20.0	J	5.00	20.0	P	12/20/2024	16:51	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	16:51	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	16:51	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	16:51	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	16:51	LB134054
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	17:34	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	17:34	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	17:34	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	17:34	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	17:34	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	17:34	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	17:34	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	17:34	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	17:34	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	17:34	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	17:34	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	17:34	LB134054
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	18:16	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	18:16	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	18:16	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	18:16	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	18:16	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	18:16	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	18:16	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	18:16	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	18:16	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	18:16	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	18:16	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	18:16	LB134054
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	19:11	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	19:11	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	19:11	LB134054

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	19:11	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	19:11	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	19:11	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	19:11	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	19:11	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	19:11	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	19:11	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	19:11	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	19:11	LB134054
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:01	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	20:01	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	20:01	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	20:01	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	20:01	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:01	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	20:01	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	20:01	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	20:01	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:01	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	20:01	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	20:01	LB134054
CCB06	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:51	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	20:51	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	20:51	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	20:51	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	20:51	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:51	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	20:51	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	20:51	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	20:51	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	20:51	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	20:51	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	20:51	LB134054
CCB07	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	22:04	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	22:04	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	22:04	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	22:04	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	22:04	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	22:04	LB134054

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	22:04	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	22:04	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	22:04	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	22:04	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	22:04	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	22:04	LB134054
CCB08	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	23:12	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/20/2024	23:12	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	23:12	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/20/2024	23:12	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	23:12	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	23:12	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/20/2024	23:12	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/20/2024	23:12	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	23:12	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/20/2024	23:12	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/20/2024	23:12	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/20/2024	23:12	LB134054
CCB09	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/21/2024	00:05	LB134054
	Barium	100	+/-100	U	25.0	100	P	12/21/2024	00:05	LB134054
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/21/2024	00:05	LB134054
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/21/2024	00:05	LB134054
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/21/2024	00:05	LB134054
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/21/2024	00:05	LB134054
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/21/2024	00:05	LB134054
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/21/2024	00:05	LB134054
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/21/2024	00:05	LB134054
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/21/2024	00:05	LB134054
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/21/2024	00:05	LB134054
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/21/2024	00:05	LB134054

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	12/23/2024	11:44	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	11:44	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	11:44	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	11:44	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	11:44	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	11:44	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	11:44	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	11:44	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	11:44	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	11:44	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	11:44	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	11:44	LB134066

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	12/23/2024	12:35	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	12:35	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	12:35	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	12:35	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	12:35	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	12:35	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	12:35	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	12:35	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	12:35	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	12:35	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	12:35	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	12:35	LB134066
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	13:47	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	13:47	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	13:47	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	13:47	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	13:47	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	13:47	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	13:47	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	13:47	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	13:47	LB134066
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	14:11	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	14:11	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	14:11	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	14:11	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	14:11	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	14:11	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	14:11	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	14:11	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	14:11	LB134066
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	15:10	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	15:10	LB134066

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	15:10	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	15:10	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	15:10	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	15:10	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	15:10	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	15:10	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	15:10	LB134066
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	16:10	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:10	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:10	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	16:10	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	16:10	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	16:10	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:10	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Silver	1.18	+/-10.0	J	5.00	10.0	P	12/23/2024	16:10	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:10	LB134066
CCB06	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	16:58	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:58	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:58	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	16:58	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	16:58	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	16:58	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:58	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	16:58	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:58	LB134066

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165798BL		**SOLID**		**Batch Number:**		**PB165798**		**Prep Date:**	**12/20/2024**	
	Mercury	0.013	<0.013	U	0.010	0.013	CV	12/20/2024	14:29	LB134050

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165786BL		**SOLID**		**Batch Number:**		**PB165786**		**Prep Date:**	**12/20/2024**	
	Arsenic	0.89	<0.89	U	0.71	0.89	P	12/20/2024	22:46	LB134054
	Barium	4.42	<4.42	U	1.11	4.42	P	12/20/2024	22:46	LB134054
	Beryllium	0.27	<0.27	U	0.066	0.27	P	12/20/2024	22:46	LB134054
	Cadmium	0.27	<0.27	U	0.066	0.27	P	12/20/2024	22:46	LB134054
	Chromium	0.44	<0.44	U	0.11	0.44	P	12/20/2024	22:46	LB134054
	Copper	0.89	<0.89	U	0.71	0.89	P	12/20/2024	22:46	LB134054
	Lead	0.53	<0.53	U	0.43	0.53	P	12/20/2024	22:46	LB134054
	Manganese	0.89	<0.89	U	0.22	0.89	P	12/20/2024	22:46	LB134054
	Nickel	1.77	<1.77	U	0.44	1.77	P	12/20/2024	22:46	LB134054
	Selenium	0.89	<0.89	U	0.71	0.89	P	12/20/2024	22:46	LB134054
	Silver	0.44	<0.44	U	0.22	0.44	P	12/20/2024	22:46	LB134054
	Zinc	1.77	<1.77	U	0.44	1.77	P	12/20/2024	22:46	LB134054

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	-1.51			-20	20	12/20/2024	16:30	LB134054
	Barium	2.79	6.0	46	-94	106	12/20/2024	16:30	LB134054
	Beryllium	1.43			-6	6	12/20/2024	16:30	LB134054
	Cadmium	-0.99	1.0	99	-5	7	12/20/2024	16:30	LB134054
	Chromium	60.0	52.0	115	42	62	12/20/2024	16:30	LB134054
	Copper	16.4	2.0	820	-18	22	12/20/2024	16:30	LB134054
	Lead	6.97			-12	12	12/20/2024	16:30	LB134054
	Manganese	4.79	7.0	68	-13	27	12/20/2024	16:30	LB134054
	Nickel	2.13	2.0	106	-38	42	12/20/2024	16:30	LB134054
	Selenium	-16.6			-20	20	12/20/2024	16:30	LB134054
	Silver	-3.17			-10	10	12/20/2024	16:30	LB134054
	Zinc	0.10			-40	40	12/20/2024	16:30	LB134054
ICSAB01	Arsenic	113	104	109	88.4	120	12/20/2024	16:34	LB134054
	Barium	460	537	86	437	637	12/20/2024	16:34	LB134054
	Beryllium	492	495	99	420	570	12/20/2024	16:34	LB134054
	Cadmium	1040	972	107	826	1120	12/20/2024	16:34	LB134054
	Chromium	604	542	111	460	624	12/20/2024	16:34	LB134054
	Copper	520	511	102	434	588	12/20/2024	16:34	LB134054
	Lead	56.2	49.0	115	37	61	12/20/2024	16:34	LB134054
	Manganese	487	507	96	430	584	12/20/2024	16:34	LB134054
	Nickel	1040	954	109	810	1100	12/20/2024	16:34	LB134054
	Selenium	34.2	46.0	74	26	66	12/20/2024	16:34	LB134054
	Silver	201	201	100	170	232	12/20/2024	16:34	LB134054
	Zinc	1080	952	113	809	1095	12/20/2024	16:34	LB134054
ICSA01	Arsenic	-0.83			-20	20	12/23/2024	11:55	LB134066
	Barium	2.71	6.0	45	-94	106	12/23/2024	11:55	LB134066
	Beryllium	1.22			-6	6	12/23/2024	11:55	LB134066
	Cadmium	5.83	1.0	583	-5	7	12/23/2024	11:55	LB134066
	Chromium	58.0	52.0	112	42	62	12/23/2024	11:55	LB134066
	Copper	16.1	2.0	805	-18	22	12/23/2024	11:55	LB134066
	Lead	7.19			-12	12	12/23/2024	11:55	LB134066
	Manganese	4.79	7.0	68	-13	27	12/23/2024	11:55	LB134066
	Nickel	2.98	2.0	149	-38	42	12/23/2024	11:55	LB134066
	Selenium	-12.8			-20	20	12/23/2024	11:55	LB134066
	Silver	3.28			-10	10	12/23/2024	11:55	LB134066
	Zinc	7.82			-40	40	12/23/2024	11:55	LB134066
ICSAB01	Arsenic	116	104	112	88.4	120	12/23/2024	12:06	LB134066
	Barium	486	537	90	437	637	12/23/2024	12:06	LB134066
	Beryllium	477	495	96	420	570	12/23/2024	12:06	LB134066
	Cadmium	1040	972	107	826	1120	12/23/2024	12:06	LB134066
	Chromium	581	542	107	460	624	12/23/2024	12:06	LB134066
	Copper	565	511	111	434	588	12/23/2024	12:06	LB134066

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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	Lead	55.4	49.0	113	37	61	12/23/2024	12:06	LB134066
	Manganese	478	507	94	430	584	12/23/2024	12:06	LB134066
	Nickel	1040	954	109	810	1100	12/23/2024	12:06	LB134066
	Selenium	37.4	46.0	81	26	66	12/23/2024	12:06	LB134066
	Silver	203	201	101	170	232	12/23/2024	12:06	LB134066
	Zinc	1070	952	112	809	1095	12/23/2024	12:06	LB134066

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316

contract: TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316

matrix: Solid **sample id:** P5355-01 **client id:** RBR251688MS

Percent Solids for Sample: 81.7 **Spiked ID:** P5355-01MS **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	82 - 111	40.3		4.65		45.1	79	N	P
Barium	mg/Kg	83 - 113	351		332		11.3	170		P
Beryllium	mg/Kg	83 - 113	7.89		0.99		11.3	61	N	P
Cadmium	mg/Kg	82 - 113	14.6		3.59		11.3	97		P
Chromium	mg/Kg	85 - 113	36.4		19.6		22.6	74	N	P
Copper	mg/Kg	81 - 117	51.2		37.2		16.9	83		P
Lead	mg/Kg	81 - 112	151		95.0		56.4	99		P
Manganese	mg/Kg	84 - 114	2320		2230		11.3	816		P
Nickel	mg/Kg	83 - 113	82.2		52.2		28.2	106		P
Selenium	mg/Kg	78 - 111	81.0		1.08	U	110	74	N	P
Silver	mg/Kg	82 - 112	4.31		0.99		4.2	79	N	P
Zinc	mg/Kg	82 - 113	137		127		11.3	85		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316

contract: TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316

matrix: Solid **sample id:** P5355-01 **client id:** RBR251688MSD

Percent Solids for Sample: 81.7 **Spiked ID:** P5355-01MSD **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	82 - 111	37.5		4.65		42.6	77	N	P
Barium	mg/Kg	83 - 113	333		332		10.6	8		P
Beryllium	mg/Kg	83 - 113	7.46		0.99		10.6	61	N	P
Cadmium	mg/Kg	82 - 113	13.7		3.59		10.6	95		P
Chromium	mg/Kg	85 - 113	34.3		19.6		21.3	69	N	P
Copper	mg/Kg	81 - 117	47.9		37.2		16.0	67	N	P
Lead	mg/Kg	81 - 112	141		95.0		53.2	87		P
Manganese	mg/Kg	84 - 114	2200		2230		10.6	-321		P
Nickel	mg/Kg	83 - 113	77.0		52.2		26.6	93		P
Selenium	mg/Kg	78 - 111	75.6		1.08	U	110	69	N	P
Silver	mg/Kg	82 - 112	4.06		0.99		4.0	77	N	P
Zinc	mg/Kg	82 - 113	128		127		10.6	5		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316

contract: TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316

matrix: Solid **sample id:** P5365-01 **client id:** TAPFTA-SB01I-4.5-121924-00-T1MS

Percent Solids for Sample: 90.1 **Spiked ID:** P5365-01MS **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.29		0.0080	J	0.29	99		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5316

contract: TETR06 **lab code:** CHEM **case no.:** P5316 **sas no.:** P5316

matrix: Solid **sample id:** P5365-01 **client id:** TAPFTA-SB01I-4.5-121924-00-T1MSD

Percent Solids for Sample: 90.1 **Spiked ID:** P5365-01MSD **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.30		0.0080	J	0.28	106		CV

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Matrix: Solid **Level:** LOW **Client ID:** RBR251688A

Sample ID: P5355-01 **Spiked ID:** P5355-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	82 - 111	39.6		4.65		43.1	81		P
Beryllium	mg/Kg	83 - 113	7.82		0.99		10.8	63		P
Chromium	mg/Kg	85 - 113	35.7		19.6		21.6	74		P
Copper	mg/Kg	81 - 117	49.2		37.2		16.2	74		P
Selenium	mg/Kg	78 - 111	80.1		1.08	U	110	73		P
Silver	mg/Kg	82 - 112	4.29		0.99		4.00	82		P

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Matrix: Solid **Sample ID:** P5355-01 **Client ID:** RBR251688DUP

Percent Solids for Sample: 81.7 **Duplicate ID** P5355-01DUP **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	4.65		4.32		7		P
Barium	mg/Kg	20	332		308		8		P
Beryllium	mg/Kg	20	0.99		0.94		5		P
Cadmium	mg/Kg	20	3.59		3.46		4		P
Chromium	mg/Kg	20	19.6		18.6		5		P
Copper	mg/Kg	20	37.2		35.0		6		P
Lead	mg/Kg	20	95.0		89.7		6		P
Manganese	mg/Kg	20	2230		2080		7		P
Nickel	mg/Kg	20	52.2		49.5		5		P
Selenium	mg/Kg	20	1.08	U	1.01	U			P
Silver	mg/Kg	20	0.99		1.00		1		P
Zinc	mg/Kg	20	127		117		8		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Matrix: Solid **Sample ID:** P5355-01MS **Client ID:** RBR251688MSD

Percent Solids for Sample: 81.7 **Duplicate ID** P5355-01MSD **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	40.3		37.5		7		P
Barium	mg/Kg	20	351		333		5		P
Beryllium	mg/Kg	20	7.89		7.46		6		P
Cadmium	mg/Kg	20	14.6		13.7		6		P
Chromium	mg/Kg	20	36.4		34.3		6		P
Copper	mg/Kg	20	51.2		47.9		7		P
Lead	mg/Kg	20	151		141		7		P
Manganese	mg/Kg	20	2320		2200		5		P
Nickel	mg/Kg	20	82.2		77.0		7		P
Selenium	mg/Kg	20	81.0		75.6		7		P
Silver	mg/Kg	20	4.31		4.06		6		P
Zinc	mg/Kg	20	137		128		7		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Matrix: Solid **Sample ID:** P5365-01 **Client ID:** TAPFTA-SB01I-4.5-121924-00-T1DUP

Percent Solids for Sample: 90.1 **Duplicate ID** P5365-01DUP **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.0080	J	0.0080	J	0		CV

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Matrix: Solid **Sample ID:** P5365-01MS **Client ID:** TAPFTA-SB01I-4.5-121924-00-T1MSD

Percent Solids for Sample: 90.1 **Duplicate ID** P5365-01MSD **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.29		0.30		3		CV

"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: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165786BS							
Arsenic	mg/Kg	35.4	35.9		101	82 - 111	P
Barium	mg/Kg	8.8	7.76		88	83 - 113	P
Beryllium	mg/Kg	8.8	8.43		96	83 - 113	P
Cadmium	mg/Kg	8.8	8.61		98	82 - 113	P
Chromium	mg/Kg	17.7	18.2		103	85 - 113	P
Copper	mg/Kg	13.3	13.7		103	81 - 117	P
Lead	mg/Kg	44.2	43.1		98	81 - 112	P
Manganese	mg/Kg	8.8	8.70		99	84 - 114	P
Nickel	mg/Kg	22.1	21.9		99	83 - 113	P
Selenium	mg/Kg	88.5	88.4		100	78 - 111	P
Silver	mg/Kg	3.3	3.35		102	82 - 112	P
Zinc	mg/Kg	8.8	8.90		101	82 - 113	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165798BS							
Mercury	mg/Kg	0.25	0.26		106	80 - 124	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

RBR251688L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb134066 **Lab Sample ID :** P5355-01L **SDG No.:** P5316

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	4.65		5.15	J	11		P
Barium	332		432		30		P
Beryllium	0.99		1.39	J	40		P
Cadmium	3.59		2.45		32		P
Chromium	19.6		27.2		38		P
Copper	37.2		53.8		45		P
Lead	95.0		105		11		P
Manganese	2230		3150		41		P
Nickel	52.2		56.7		9		P
Selenium	1.08	U	5.39	U			P
Silver	0.99		1.78	J	79		P
Zinc	127		170		34		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TAPFTA-SB01I-4.5-121924-00-T1L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb134050 **Lab Sample ID :** P5365-01L **SDG No.:** P5316

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.0080	J	0.066	U	100.0		CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
Beryllium	234.861	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
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	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
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5316 **SAS No.:** P5316

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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: P5316 **SAS No.:** P5316

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165786**						
P5316-01	TT-304-IDWSO-20241217-1	SAM	SOLID	12/20/2024	2.24	100.0	68.60
P5355-01DUP	RBR251688DUP	DUP	SOLID	12/20/2024	2.43	100.0	81.70
P5355-01MS	RBR251688MS	MS	SOLID	12/20/2024	2.17	100.0	81.70
P5355-01MSD	RBR251688MSD	MSD	SOLID	12/20/2024	2.30	100.0	81.70
PB165786BL	PB165786BL	MB	SOLID	12/20/2024	2.26	100.0	100.00
PB165786BS	PB165786BS	LCS	SOLID	12/20/2024	2.26	100.0	100.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5316

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: P5316 **SAS No.:** P5316

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165798**						
P5316-01	TT-304-IDWSO-20241217-1	SAM	SOLID	12/20/2024	0.59	35.0	68.60
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-T1DUP	DUP	SOLID	12/20/2024	0.58	35.0	90.10
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-T1MS	MS	SOLID	12/20/2024	0.54	35.0	90.10
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-T1MSD	MSD	SOLID	12/20/2024	0.56	35.0	90.10
PB165798BL	PB165798BL	MB	SOLID	12/20/2024	0.54	35.0	100.00
PB165798BS	PB165798BS	LCS	SOLID	12/20/2024	0.57	35.0	100.00

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** P5316 **Sas no.:** P5316 **Sdg no.:** P5316

Instrument id number: **Method:** **Run number:** LB134050

Start date: 12/20/2024 **End date:** 12/20/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1358	HG
S0.2	S0.2	1	1400	HG
S2.5	S2.5	1	1403	HG
S5	S5	1	1405	HG
S7.5	S7.5	1	1407	HG
S10	S10	1	1410	HG
ICV28	ICV28	1	1413	HG
ICB28	ICB28	1	1415	HG
CCV57	CCV57	1	1417	HG
CCB57	CCB57	1	1420	HG
CRA	CRA	1	1422	HG
PB165798BL	PB165798BL	1	1429	HG
PB165798BS	PB165798BS	1	1431	HG
P5316-01	TT-304-IDWSO-20241217-1	1	1434	HG
CCV58	CCV58	1	1443	HG
CCB58	CCB58	1	1445	HG
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-'	1	1450	HG
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-'	1	1452	HG
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-'	1	1454	HG
P5365-01L	TAPFTA-SB01I-4.5-121924-00-'	5	1456	HG
CCV59	CCV59	1	1501	HG
CCB59	CCB59	1	1503	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** P5316 **Sas no.:** P5316 **Sdg no.:** P5316

Instrument id number: **Method:** **Run number:** LB134054

Start date: 12/20/2024 **End date:** 12/21/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1541	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1546	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1550	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1554	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1558	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1603	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1607	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLICV01	LLICV01	1	1611	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1621	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1626	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1630	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1634	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1647	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1651	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5316-01	TT-304-IDWSO-20241217-1	1	1704	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1729	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1734	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1812	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1816	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1902	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1911	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV05	CCV05	1	1957	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	2001	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	2047	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	2051	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV07	CCV07	1	2137	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB07	CCB07	1	2204	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB165786BL	PB165786BL	1	2246	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV08	CCV08	1	2301	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB08	CCB08	1	2312	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
PB165786BS	PB165786BS	1	2317	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV09	CCV09	1	2355	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB09	CCB09	1	0005	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

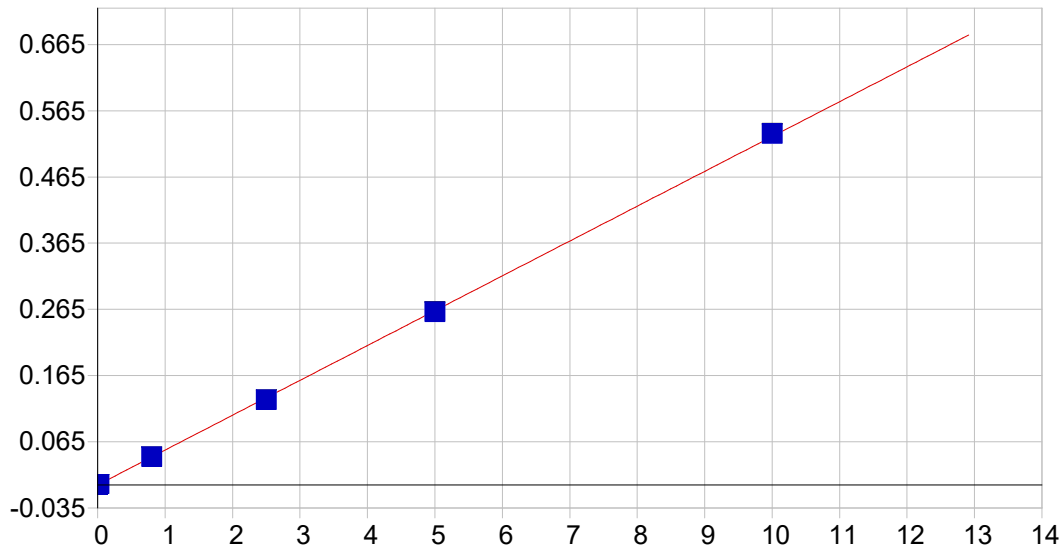
Lab code: CHEM **Case no.:** P5316 **Sas no.:** P5316 **Sdg no.:** P5316

Instrument id number: **Method:** **Run number:** LB134066

Start date: 12/23/2024 **End date:** 12/23/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1051	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S1	S1	1	1056	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S2	S2	1	1100	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S3	S3	1	1104	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S4	S4	1	1109	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
S5	S5	1	1113	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1117	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
LLICV01	LLICV01	1	1137	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1144	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1151	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1155	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1206	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1231	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1235	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1343	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1347	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1407	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1411	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1506	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1510	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5355-01DUP	RBR251688DUP	1	1522	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5355-01L	RBR251688L	5	1527	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5355-01MS	RBR251688MS	1	1531	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5355-01MSD	RBR251688MSD	1	1536	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
P5355-01A	RBR251688A	1	1540	Ag,As,Be,Cr,Cu,Se
CCV05	CCV05	1	1606	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1610	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1654	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1658	Ag,As,Ba,Be,Cd,Cr,Cu,Mn,Ni,Pb,Se,Zn

METAL
RAW DATA

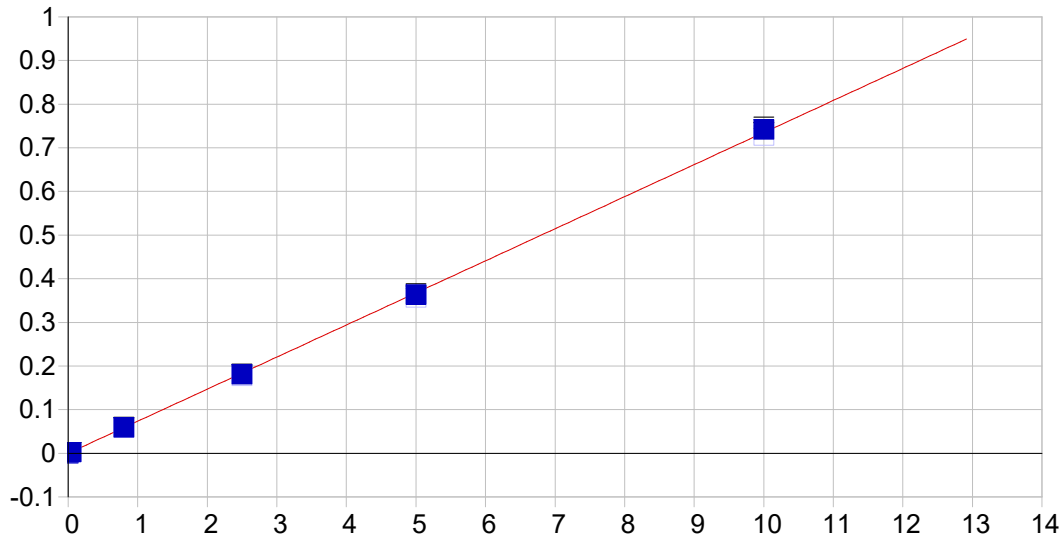


As 189.042 {479}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	0.052620	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003363		
Predicted MQL:	0.011211		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.02129	.001	6.46	.00101	.000	1
S3	2.5000	2.4453	-.055	-2.19	.12842	.000	1
S4	5.0000	4.9645	-.035	-.709	.26084	.001	1
S5	10.000	10.085	.085	.848	.52998	.000	1
S2	.80000	.80414	.004	.517	.04216	.000	1

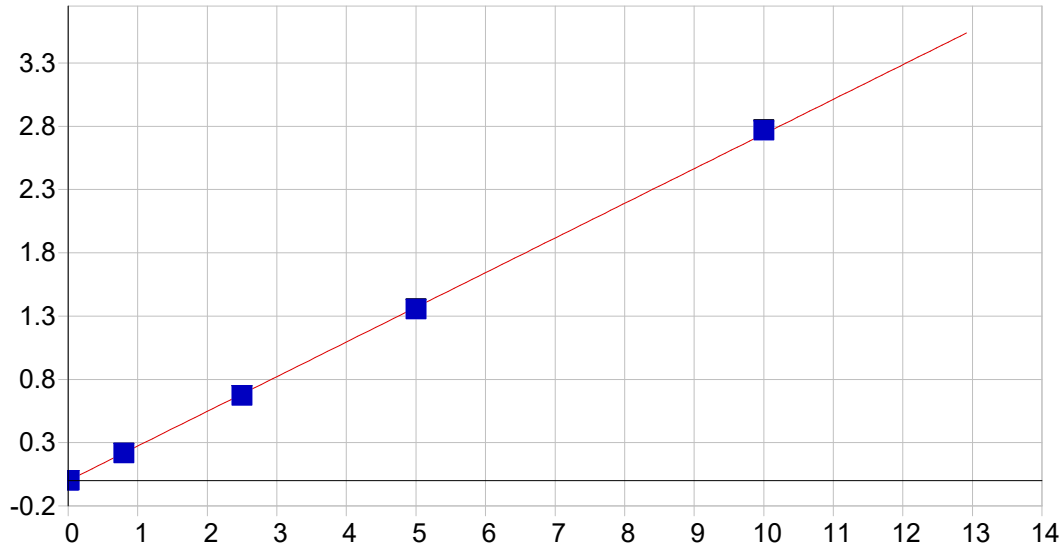


Tl 190.856 {477}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.073501	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002239		
Predicted MQL:	0.007462		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.04000	.03825	-.002	-4.39	.00263	.000	1
S3	2.5000	2.4586	-.041	-1.66	.17733	.001	1
S4	5.0000	4.9460	-.054	-1.08	.35678	.002	1
S5	10.000	10.088	.088	.883	.72797	.006	1
S2	.80000	.80881	.009	1.10	.05837	.001	1

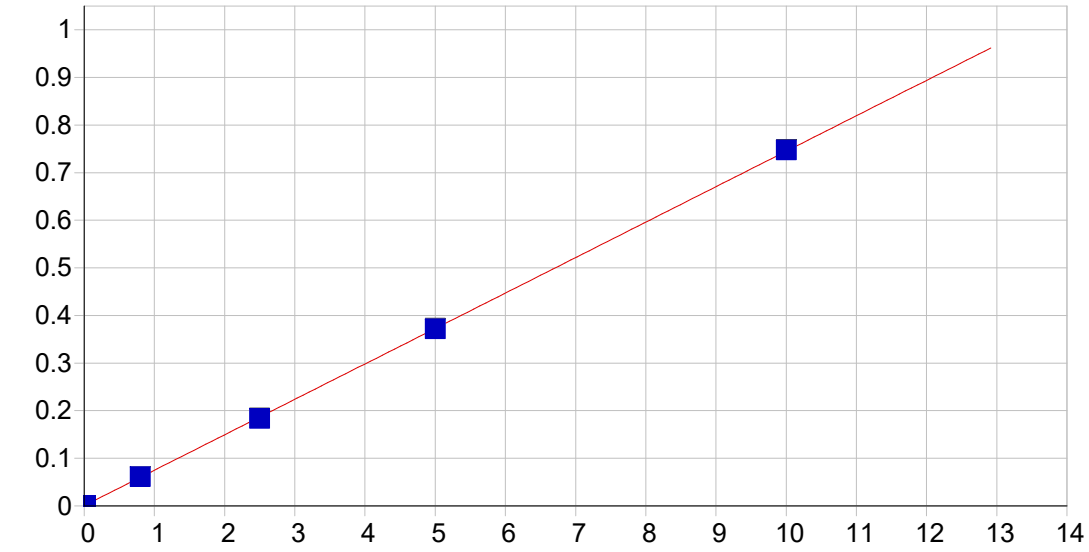


Pb 220.353 {453}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000390	Re-Slope:	1.000000
A1 (Gain):	0.273909	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.001332		
Predicted MQL:	0.004438		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00039	.000	1
S1	.01200	.01125	-.001	-6.26	.00263	.000	1
S3	2.5000	2.4521	-.048	-1.91	.67052	.001	1
S4	5.0000	4.9460	-.054	-1.08	1.3529	.002	1
S5	10.000	10.110	.110	1.10	2.7660	.004	1
S2	.80000	.79211	-.008	-.986	.21634	.001	1

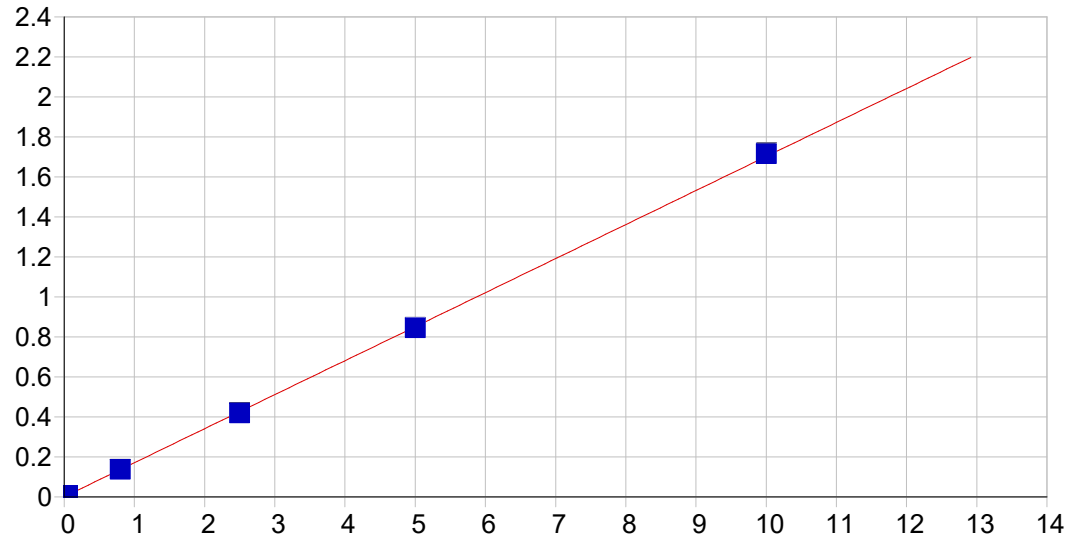


Se 196.090 {472}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000482	Re-Slope:	1.000000
A1 (Gain):	0.074451	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.003224		
Predicted MQL:	0.010746		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00048	.000	1
S1	.02000	.01826	-.002	-8.71	.00184	.000	1
S3	2.5000	2.4604	-.040	-1.58	.18361	.001	1
S4	5.0000	4.9884	-.012	-.232	.37178	.001	1
S5	10.000	10.036	.036	.362	.74749	.001	1
S2	.80000	.81667	.017	2.08	.06127	.000	1

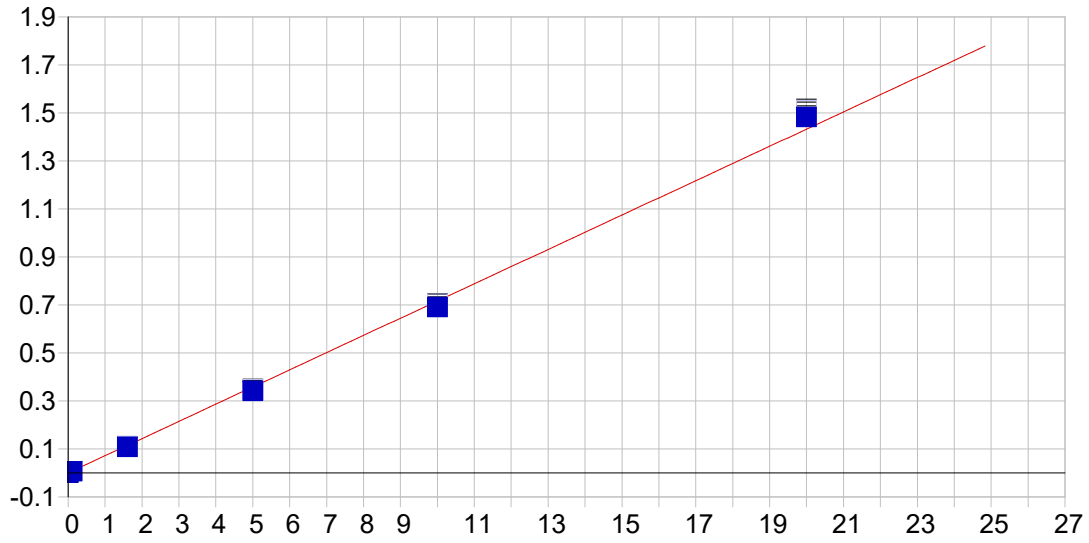


Sb 206.833 {463}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000696	Re-Slope:	1.000000
A1 (Gain):	0.170115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.001772		
Predicted MQL:	0.005907		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00070	.000	1
S1	.05000	.04978	-.000	-.441	.00918	.000	1
S3	2.5000	2.4563	-.044	-1.75	.41970	.001	1
S4	5.0000	4.9643	-.036	-.715	.84750	.000	1
S5	10.000	10.079	.079	.790	1.7199	.002	1
S2	.80000	.80066	.001	.083	.13727	.000	1

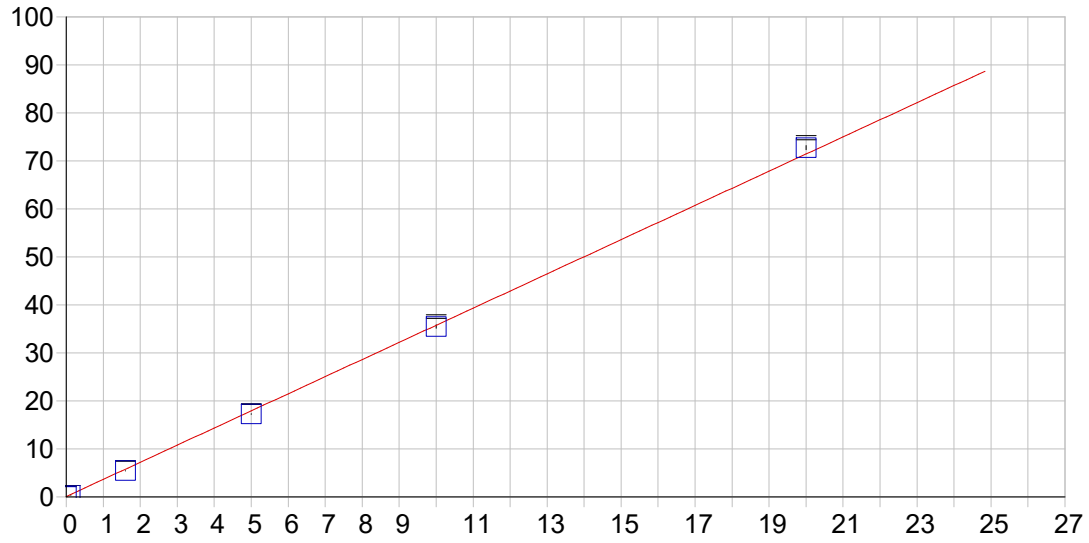


Al 396.152 { 85}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000033	Re-Slope:	1.000000
A1 (Gain):	0.071625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999289	Status:	OK.
Std Error of Est:	0.000204		
Predicted MDL:	0.012075		
Predicted MQL:	0.040249		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.001	1
S1	.10000	.09942	-.001	-.576	.00764	.000	1
S3	5.0000	4.7615	-.238	-4.77	.34796	.001	1
S4	10.000	9.6378	-.362	-3.62	.70417	.002	1
S5	20.000	20.696	.696	3.48	1.5101	.006	1
S2	1.6000	1.5055	-.094	-5.90	.11003	.001	1

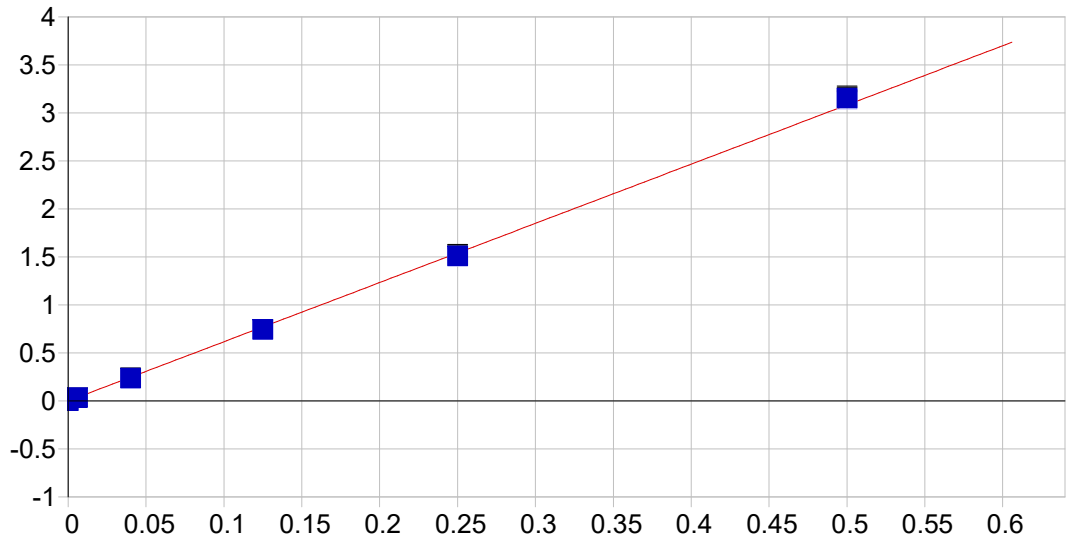


Ba 493.409 { 68}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.081823	Re-Slope:	1.000000
A1 (Gain):	3.567617	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999714	Status:	OK.
Std Error of Est:	0.006328		
Predicted MDL:	0.000739		
Predicted MQL:	0.002463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.08188	.004	1
S1	.10000	.09299	-.007	-7.01	.41357	.001	1
S3	5.0000	4.8140	-.186	-3.72	17.256	.053	1
S4	10.000	9.9235	-.077	-.765	35.485	.373	1
S5	20.000	20.369	.369	1.85	72.751	.420	1
S2	1.6000	1.5005	-.100	-6.22	5.4349	.010	1

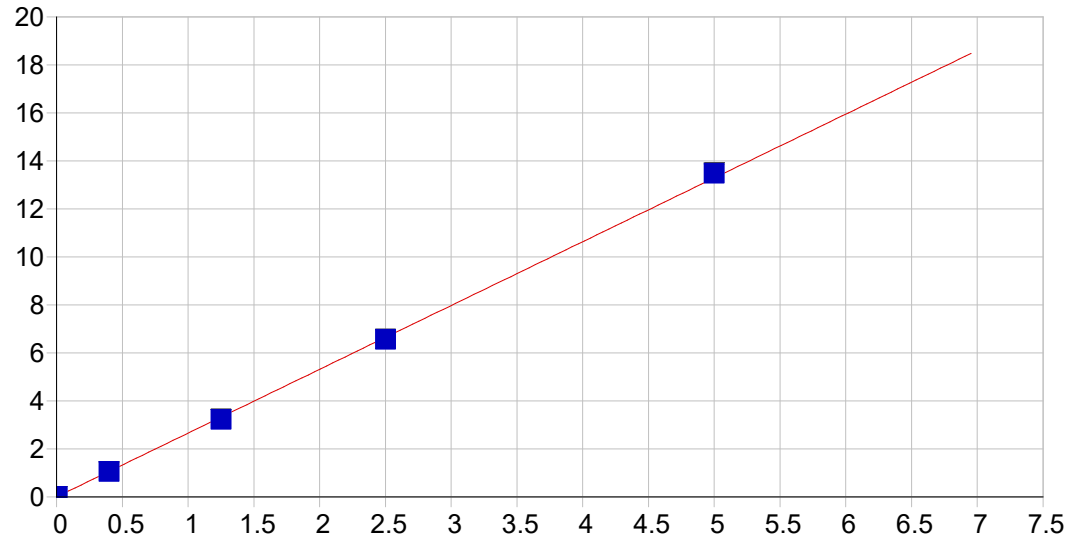


Be 234.861 {144}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000245	Re-Slope:	1.000000
A1 (Gain):	6.165726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999661	Status:	OK.
Std Error of Est:	0.000460		
Predicted MDL:	0.000066		
Predicted MQL:	0.000221		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00024	.000	1
S1	.00600	.00571	-.000	-4.86	.03467	.000	1
S3	.12500	.12042	-.005	-3.66	.73879	.003	1
S4	.25000	.24500	-.005	-2.00	1.5035	.017	1
S5	.50000	.51154	.012	2.31	3.1400	.022	1
S2	.04000	.03833	-.002	-4.18	.23496	.001	1

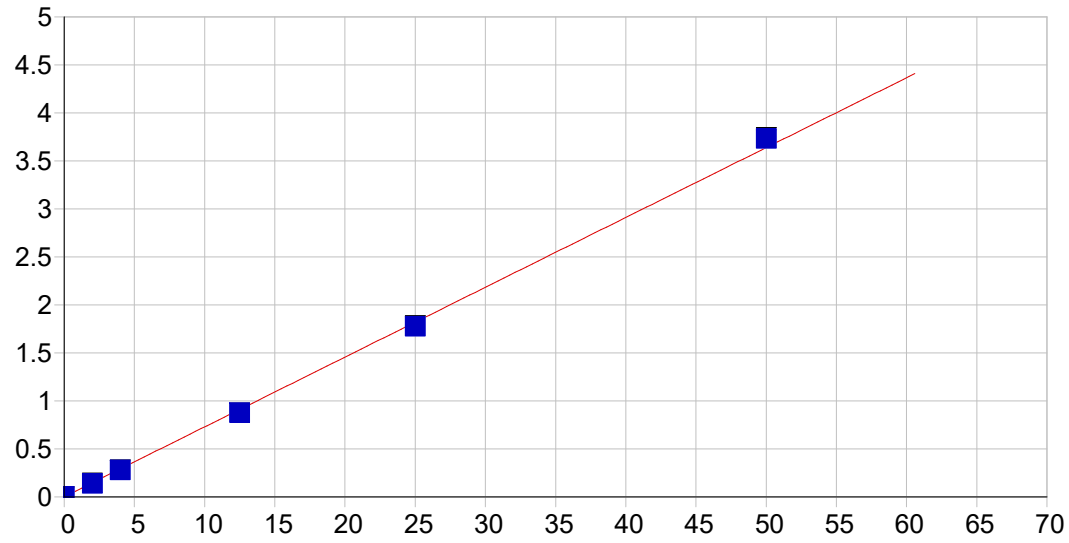


Cd 226.502 {449}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000497	Re-Slope:	1.000000
A1 (Gain):	2.658089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000404		
Predicted MDL:	0.000104		
Predicted MQL:	0.000348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.00600	.00575	-.000	-4.23	.01584	.000	1
S3	1.2500	1.2146	-.035	-2.83	3.2316	.005	1
S4	2.5000	2.4689	-.031	-1.24	6.5683	.008	1
S5	5.0000	5.0731	.073	1.46	13.496	.028	1
S2	.40000	.39361	-.006	-1.60	1.0476	.002	1

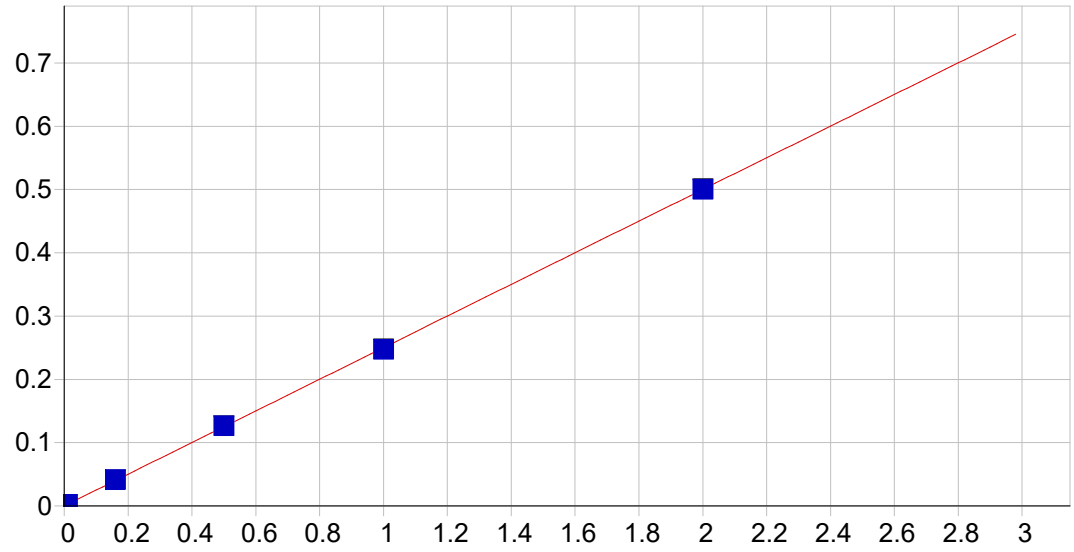


Ca 373.690 { 90}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001875	Re-Slope:	1.000000
A1 (Gain):	0.072729	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999603	Status:	OK.
Std Error of Est:	0.001084		
Predicted MDL:	0.012154		
Predicted MQL:	0.040512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00024	.000	.000	.00189	.001	1
S2	4.0000	3.8270	-.173	-4.33	.28021	.001	1
S3	12.500	12.050	-.450	-3.60	.87827	.002	1
S4	25.000	24.415	-.585	-2.34	1.7775	.004	1
S5	50.000	51.292	1.29	2.58	3.7322	.011	1
S1	2.0000	1.9165	-.084	-4.18	.14126	.001	1

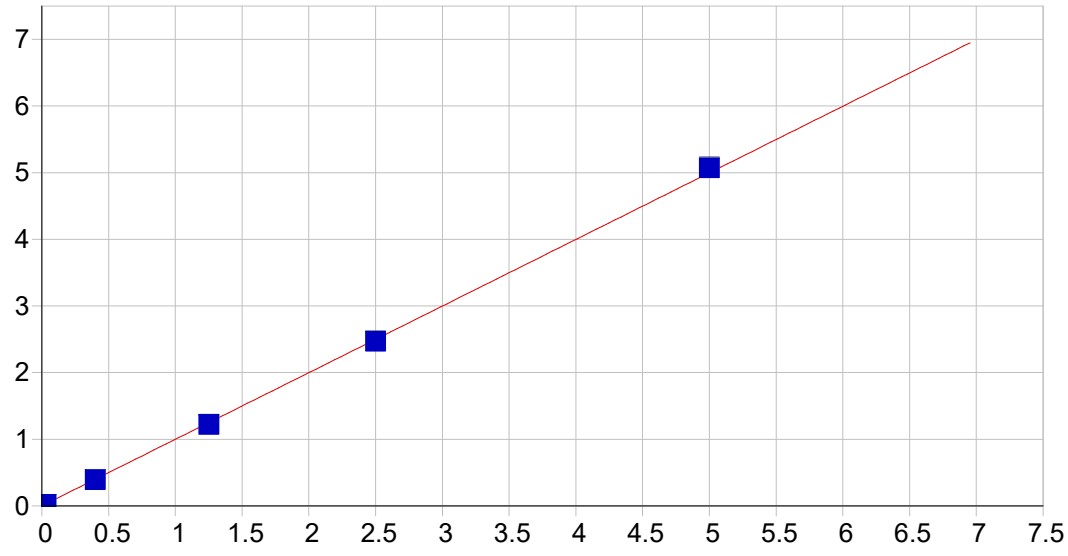


Cr 267.716 {126}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000070	Re-Slope:	1.000000
A1 (Gain):	0.250075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.000464		
Predicted MQL:	0.001545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.01000	.01043	.000	4.27	.00268	.000	1
S3	.50000	.50514	.005	1.03	.12643	.000	1
S4	1.0000	.98828	-.012	-1.17	.24729	.001	1
S5	2.0000	2.0009	.001	.043	.50059	.001	1
S2	.16000	.16528	.005	3.30	.04141	.000	1

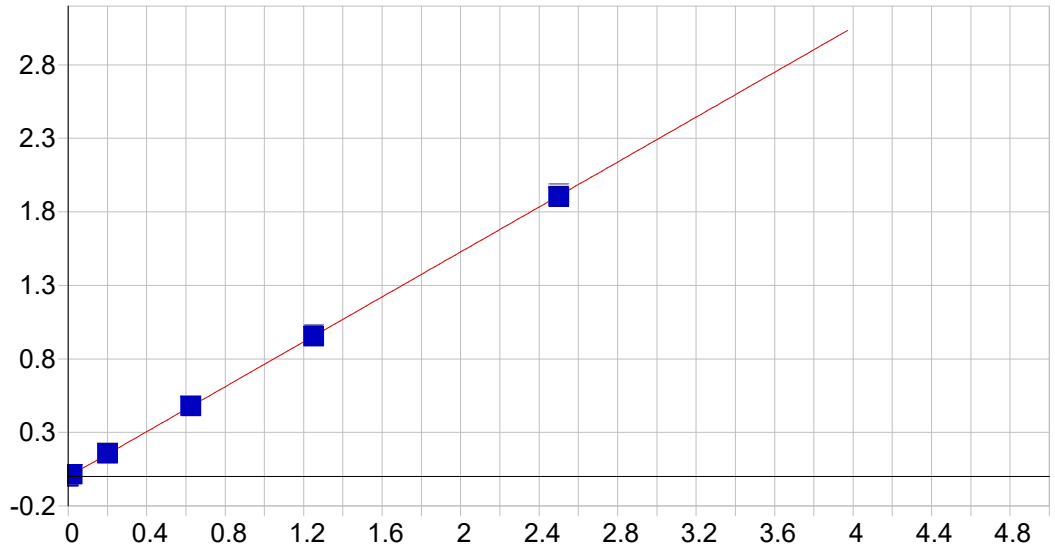


Co 228.616 {448}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000171	Re-Slope:	1.000000
A1 (Gain):	0.999486	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000323		
Predicted MDL:	0.000247		
Predicted MQL:	0.000825		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00017	.000	1
S1	.03000	.02901	-.001	-3.29	.02904	.000	1
S3	1.2500	1.2185	-.031	-2.52	1.2202	.002	1
S4	2.5000	2.4683	-.032	-1.27	2.4715	.003	1
S5	5.0000	5.0705	.070	1.41	5.0765	.009	1
S2	.40000	.39367	-.006	-1.58	.39432	.000	1

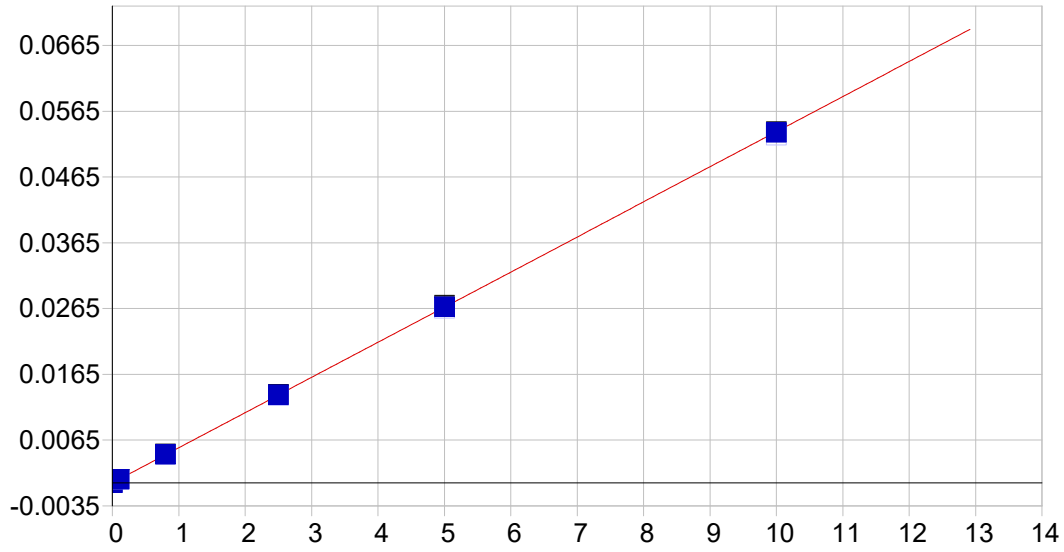


Cu 224.700 {450}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000582	Re-Slope:	1.000000
A1 (Gain):	0.764075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.000519		
Predicted MQL:	0.001732		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00058	.000	1
S1	.02000	.02168	.002	8.39	.01618	.000	1
S3	.62500	.62731	.002	.370	.48328	.001	1
S4	1.2500	1.2500	-.000	-.001	.96360	.002	1
S5	2.5000	2.4898	-.010	-.407	1.9200	.002	1
S2	.20000	.20620	.006	3.10	.15843	.000	1

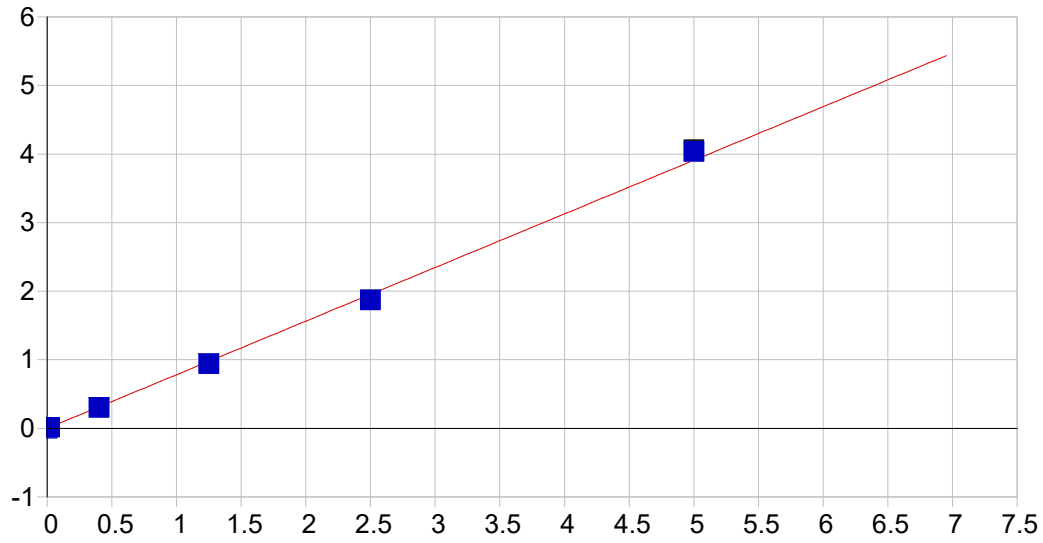


Fe 240.488 {140}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.005339	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.006857		
Predicted MQL:	0.022857		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.10000	.09785	-.002	-2.15	.00053	.000	1
S3	2.5000	2.5019	.002	.075	.01326	.000	1
S4	5.0000	5.0099	.010	.199	.02653	.000	1
S5	10.000	9.9792	-.021	-.208	.05284	.000	1
S2	.80000	.81109	.011	1.39	.00431	.000	1

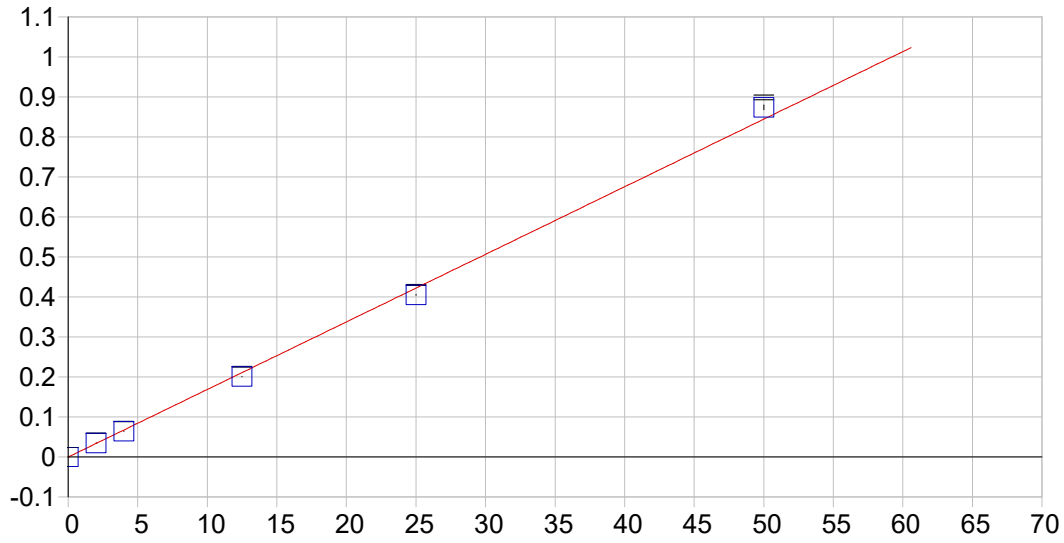


Mn 257.610 {131}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000141	Re-Slope:	1.000000
A1 (Gain):	0.781743	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999358	Status:	OK.
Std Error of Est:	0.000465		
Predicted MDL:	0.000432		
Predicted MQL:	0.001441		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00014	.000	1
S1	.02000	.01905	-.001	-4.76	.01504	.000	1
S3	1.2500	1.2066	-.043	-3.48	.94356	.003	1
S4	2.5000	2.3948	-.105	-4.21	1.8726	.004	1
S5	5.0000	5.1634	.163	3.27	4.0374	.022	1
S2	.40000	.38621	-.014	-3.45	.30212	.000	1

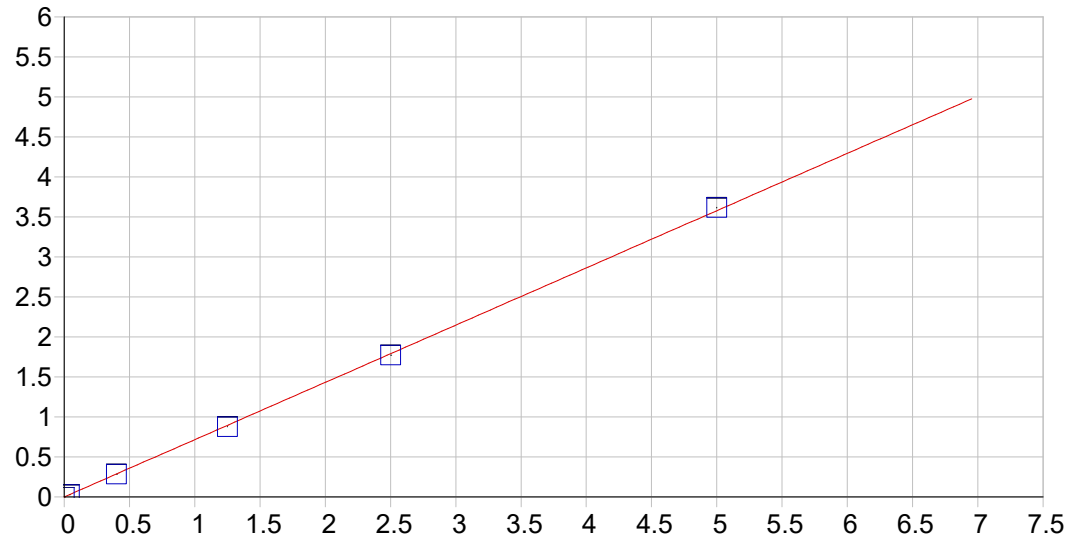


Mg 279.079 {121}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000323	Re-Slope:	1.000000
A1 (Gain):	0.016893	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999250	Status:	OK.
Std Error of Est:	0.000346		
Predicted MDL:	0.022561		
Predicted MQL:	0.075204		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00015	.000	.000	-.00032	.000	1
S2	4.0000	3.7951	-.205	-5.12	.06379	.000	1
S3	12.500	11.917	-.583	-4.67	.20098	.001	1
S4	25.000	23.993	-1.01	-4.03	.40499	.001	1
S5	50.000	51.737	1.74	3.47	.87365	.006	1
S1	2.0000	2.0575	.057	2.87	.03443	.000	1

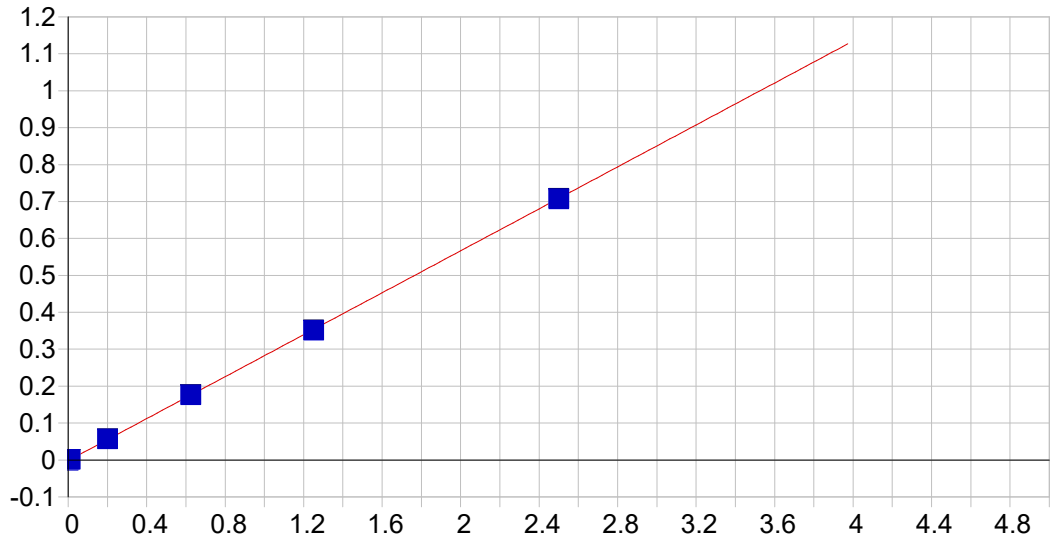


Ni 231.604 {446}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000129	Re-Slope:	1.000000
A1 (Gain):	0.715666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000196		
Predicted MDL:	0.000385		
Predicted MQL:	0.001284		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.04000	.03895	-.001	-2.62	.02801	.000	1
S3	1.2500	1.2259	-.024	-1.93	.87746	.001	1
S4	2.5000	2.4761	-.024	-.955	1.7722	.001	1
S5	5.0000	5.0511	.051	1.02	3.6150	.004	1
S2	.40000	.39796	-.002	-.510	.28494	.000	1

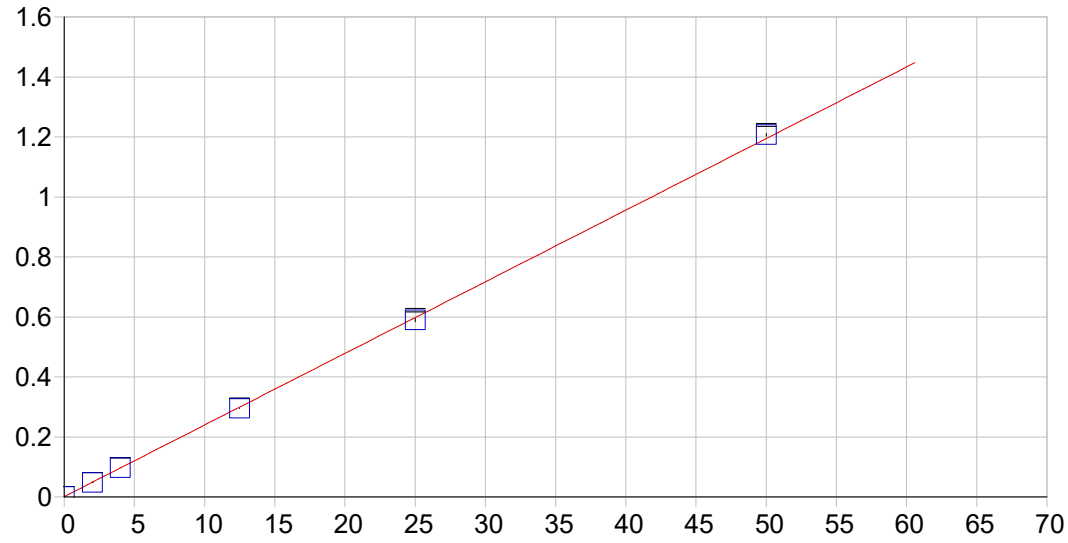


Ag 328.068 {103}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001604	Re-Slope:	1.000000
A1 (Gain):	0.284065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.000543		
Predicted MQL:	0.001811		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00160	.000	1
S1	.01000	.01031	.000	3.08	.00130	.000	1
S3	.62500	.62780	.003	.448	.17603	.000	1
S4	1.2500	1.2430	-.007	-.561	.35007	.000	1
S5	2.5000	2.4977	-.002	-.092	.70508	.001	1
S2	.20000	.20622	.006	3.11	.05675	.000	1

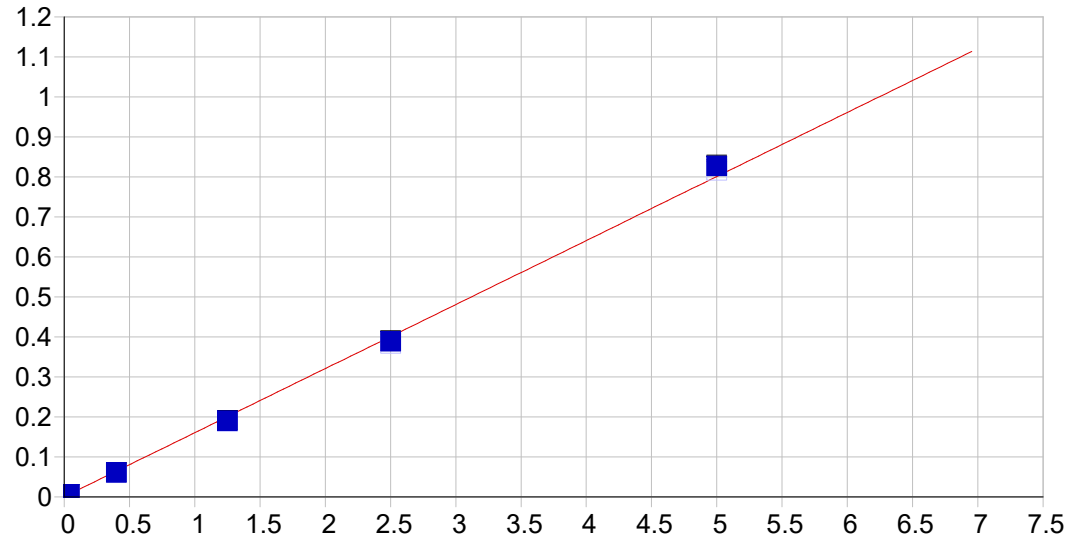


Na 589.592 { 57}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001155	Re-Slope:	1.000000
A1 (Gain):	0.023865	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000156		
Predicted MDL:	0.011051		
Predicted MQL:	0.036837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00116	.000	1
S2	4.0000	4.0303	.030	.757	.09734	.000	1
S3	12.500	12.340	-.160	-1.28	.29564	.001	1
S4	25.000	24.647	-.353	-1.41	.58936	.005	1
S5	50.000	50.534	.534	1.07	1.2072	.005	1
S1	2.0000	1.9487	-.051	-2.56	.04766	.000	1

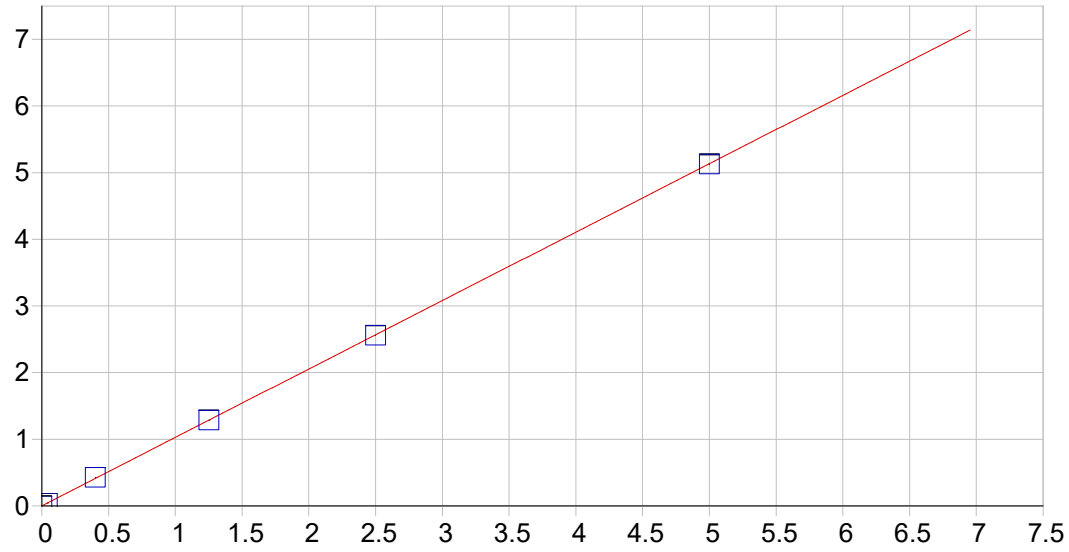


V 292.402 {115}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000553	Re-Slope:	1.000000
A1 (Gain):	0.160087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999283	Status:	OK.
Std Error of Est:	0.000140		
Predicted MDL:	0.002471		
Predicted MQL:	0.008238		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00055	.000	1
S1	.04000	.03458	-.005	-13.6	.00585	.000	1
S3	1.2500	1.1884	-.062	-4.93	.18788	.000	1
S4	2.5000	2.4267	-.073	-2.93	.38320	.001	1
S5	5.0000	5.1645	.164	3.29	.81565	.002	1
S2	.40000	.37572	-.024	-6.07	.05977	.000	1

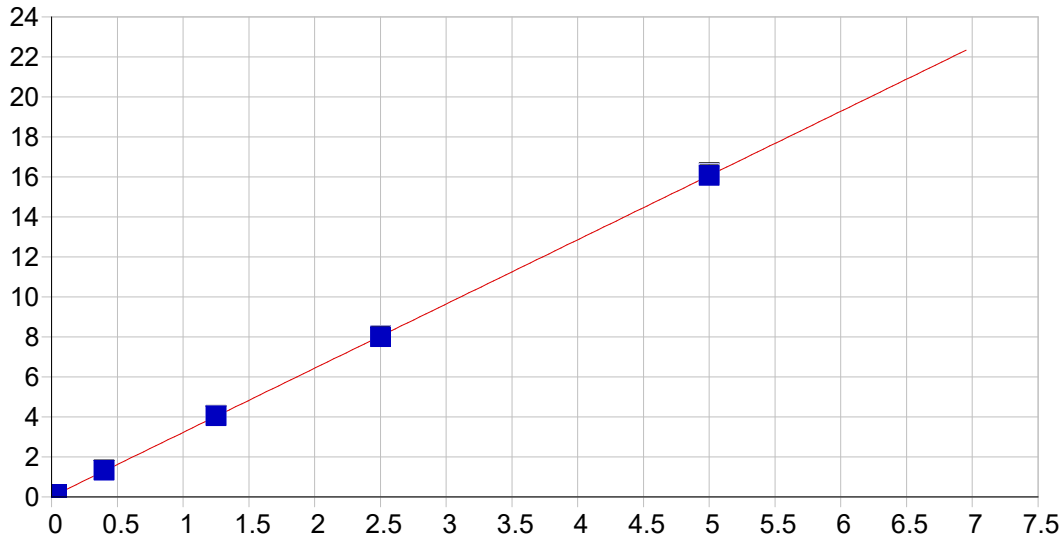


Zn 206.200 {464}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001904	Re-Slope:	1.000000
A1 (Gain):	1.026375	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000186		
Predicted MDL:	0.000232		
Predicted MQL:	0.000774		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00190	.001	1
S1	.04000	.04070	.001	1.76	.04368	.000	1
S3	1.2500	1.2516	.002	.128	1.2865	.000	1
S4	2.5000	2.4900	-.010	-.398	2.5576	.003	1
S5	5.0000	4.9937	-.006	-.126	5.1273	.007	1
S2	.40000	.41394	.014	3.48	.42676	.001	1

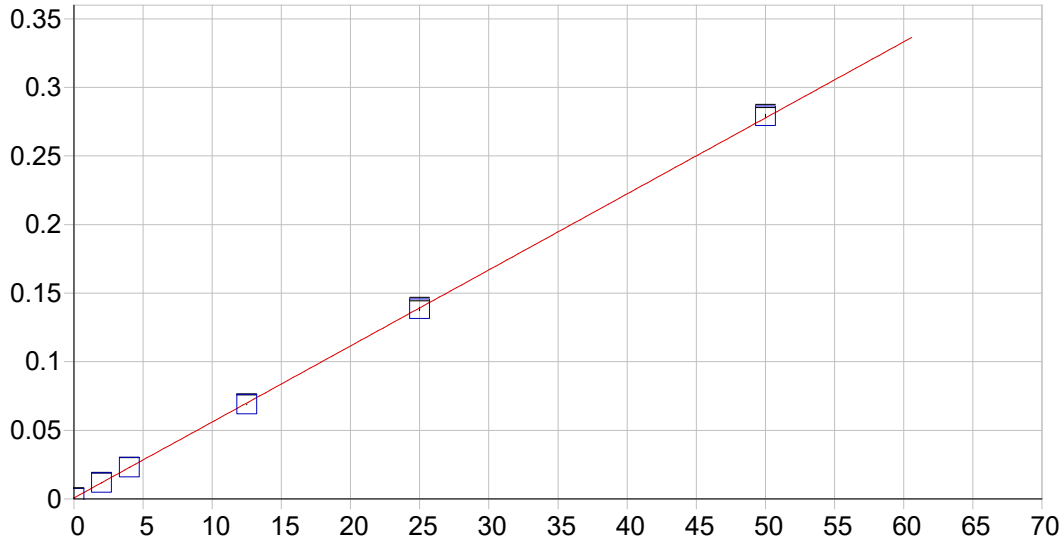


Zn 213.856 {158}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012205	Re-Slope:	1.000000
A1 (Gain):	3.211260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	0.000296		
Predicted MQL:	0.000988		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01221	.003	1
S1	.04000	.03872	-.001	-3.20	.13744	.001	1
S3	1.2500	1.2543	.004	.343	4.0680	.016	1
S4	2.5000	2.4879	-.012	-.484	8.0573	.013	1
S5	5.0000	4.9999	-.000	-.003	16.180	.022	1
S2	.40000	.40922	.009	2.31	1.3353	.006	1

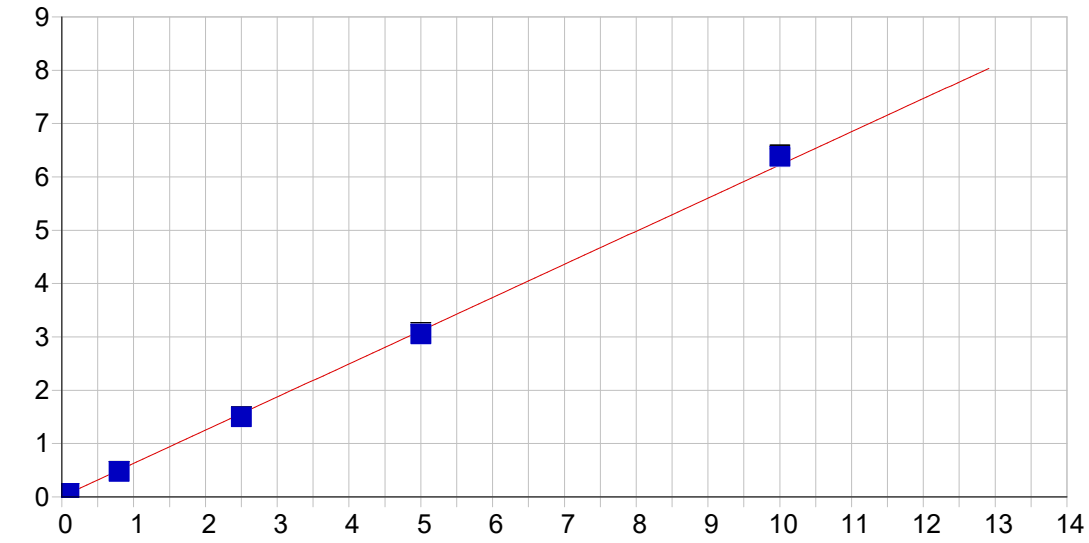


K 766.490 { 44}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000692	Re-Slope:	1.000000
A1 (Gain):	0.005542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.052225		
Predicted MQL:	0.174083		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00069	.000	1
S2	4.0000	4.0269	.027	.672	.02301	.000	1
S3	12.500	12.326	-.174	-1.39	.06900	.000	1
S4	25.000	24.865	-.135	-.538	.13849	.001	1
S5	50.000	50.270	.270	.541	.27928	.001	1
S1	2.0000	2.0114	.011	.570	.01184	.000	1

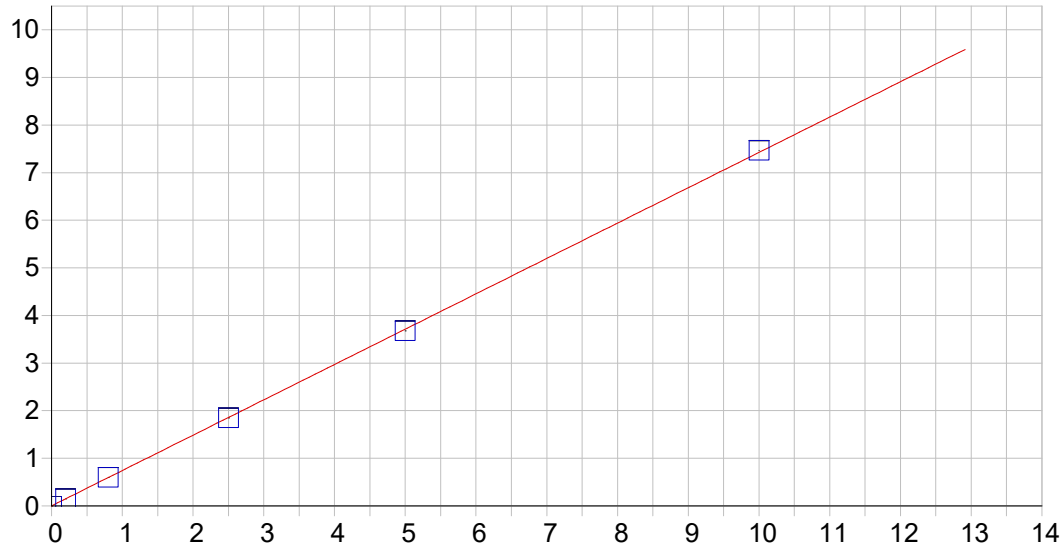


B 249.678 {135}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007820	Re-Slope:	1.000000
A1 (Gain):	0.621714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999571	Status:	OK.
Std Error of Est:	0.000954		
Predicted MDL:	0.000831		
Predicted MQL:	0.002769		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00783	.000	1
S1	.10000	.09359	-.006	-6.41	.06574	.000	1
S3	2.5000	2.3988	-.101	-4.05	1.4961	.009	1
S4	5.0000	4.8987	-.101	-2.03	3.0474	.031	1
S5	10.000	10.255	.255	2.55	6.3714	.033	1
S2	.80000	.75384	-.046	-5.77	.47552	.001	1

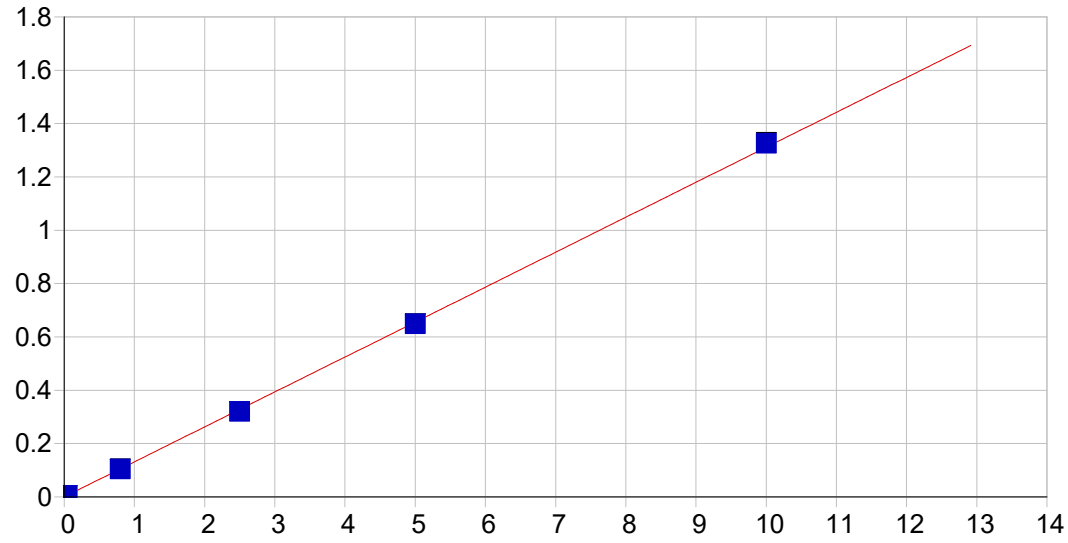


Mo 202.030 {467}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000491	Re-Slope:	1.000000
A1 (Gain):	0.742532	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000376		
Predicted MDL:	0.000336		
Predicted MQL:	0.001121		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.000	1
S1	.20000	.20054	.001	.268	.14940	.000	1
S3	2.5000	2.4878	-.012	-.490	1.8477	.001	1
S4	5.0000	4.9519	-.048	-.962	3.6774	.002	1
S5	10.000	10.055	.055	.552	7.4668	.005	1
S2	.80000	.80464	.005	.580	.59796	.002	1

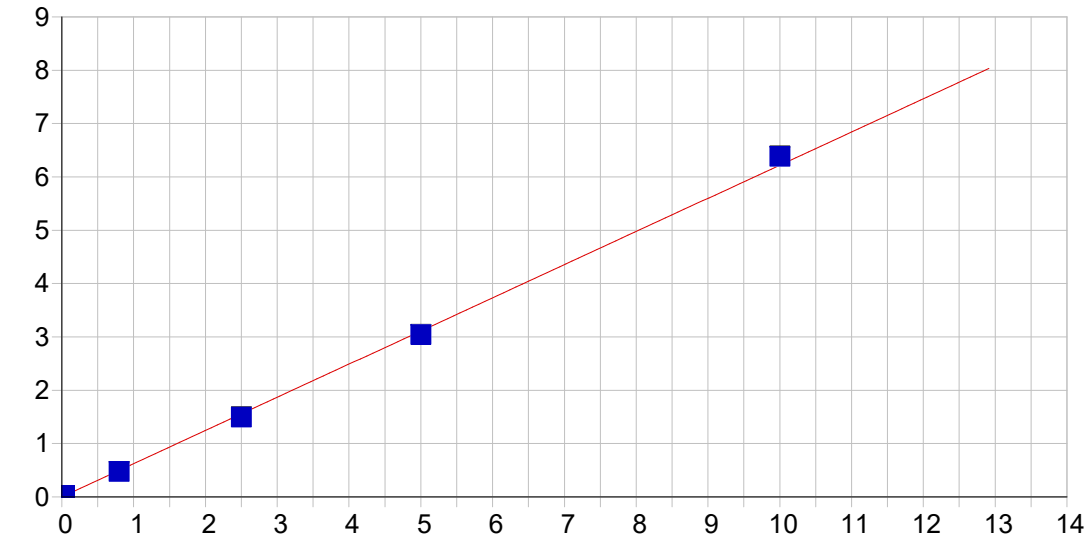


Sn 189.989 {478}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000267	Re-Slope:	1.000000
A1 (Gain):	0.131059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.000949		
Predicted MQL:	0.003165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.04000	.03762	-.002	-5.95	.00519	.000	1
S3	2.5000	2.4387	-.061	-2.45	.31954	.000	1
S4	5.0000	4.9484	-.052	-1.03	.64813	.000	1
S5	10.000	10.120	.120	1.20	1.3253	.003	1
S2	.80000	.79524	-.005	-.595	.10438	.000	1

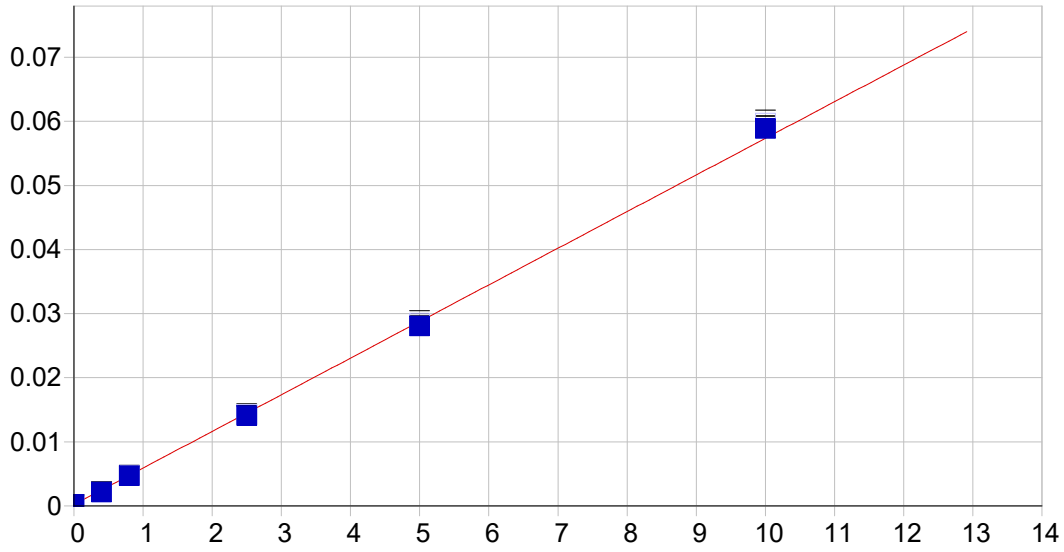


Ti 336.121 {100}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002131	Re-Slope:	1.000000
A1 (Gain):	0.621839	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999566	Status:	OK.
Std Error of Est:	0.000607		
Predicted MDL:	0.000956		
Predicted MQL:	0.003187		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00214	.000	1
S1	.04000	.03725	-.003	-6.87	.02528	.001	1
S3	2.5000	2.3978	-.102	-4.09	1.4926	.005	1
S4	5.0000	4.8874	-.113	-2.25	3.0402	.007	1
S5	10.000	10.260	.260	2.60	6.3799	.008	1
S2	.80000	.75759	-.042	-5.30	.47305	.002	1

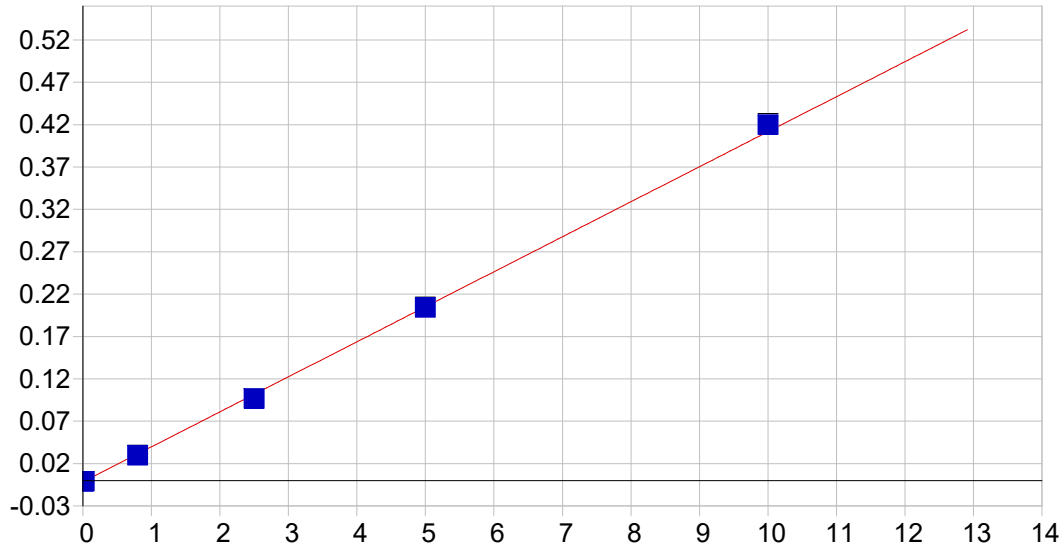


Si 288.158 {117}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000199	Re-Slope:	1.000000
A1 (Gain):	0.005716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999468	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.011558		
Predicted MQL:	0.038526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00020	.000	1
S1	.40000	.34290	-.057	-14.3	.00216	.000	1
S3	2.5000	2.4278	-.072	-2.89	.01429	.000	1
S4	5.0000	4.8760	-.124	-2.48	.02850	.000	1
S5	10.000	10.264	.264	2.64	.05973	.000	1
S2	.80000	.78811	-.012	-1.49	.00477	.000	1

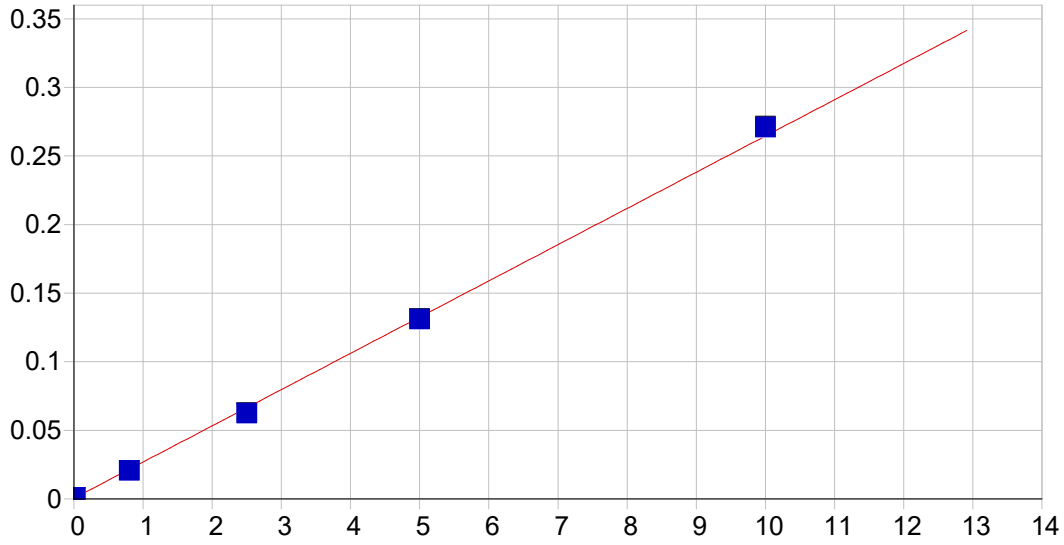


P 177.495 {490}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001596	Re-Slope:	1.000000
A1 (Gain):	0.041327	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002841		
Predicted MQL:	0.009469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00160	.000	1
S1	.02000	.01581	-.004	-20.9	-.00094	.000	1
S3	2.5000	2.3724	-.128	-5.10	.09643	.000	1
S4	5.0000	4.9750	-.025	-.500	.20398	.001	1
S5	10.000	10.202	.202	2.02	.41994	.001	1
S2	.80000	.75520	-.045	-5.60	.02961	.000	1

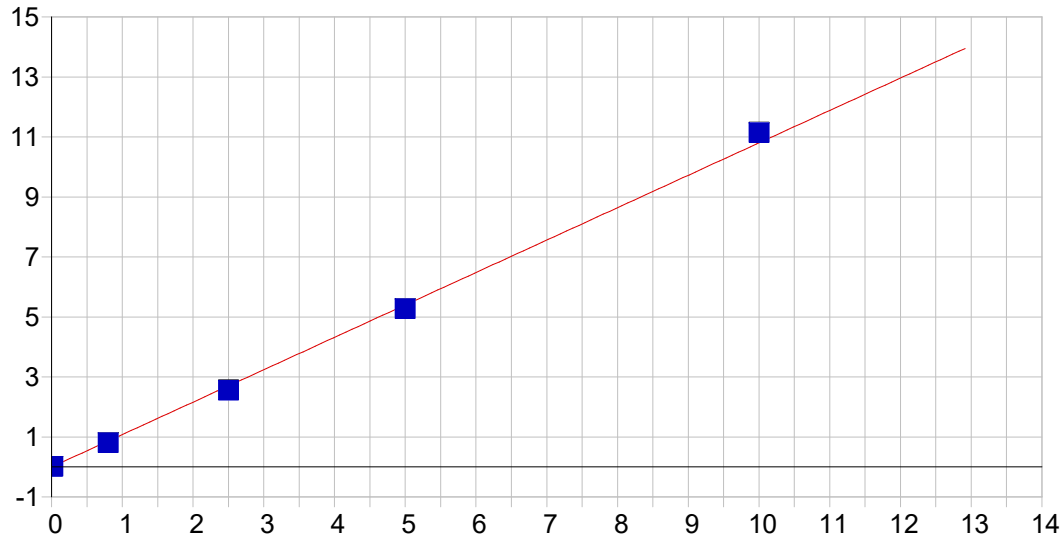


S 182.034 {485}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000476	Re-Slope:	1.000000
A1 (Gain):	0.026411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999513	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.004327		
Predicted MQL:	0.014422		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00048	.000	1
S1	.02000	.01713	-.003	-14.4	.00091	.000	1
S3	2.5000	2.3476	-.152	-6.09	.06231	.000	1
S4	5.0000	4.9485	-.051	-1.03	.13083	.000	1
S5	10.000	10.243	.243	2.43	.27031	.001	1
S2	.80000	.76389	-.036	-4.51	.02060	.000	1

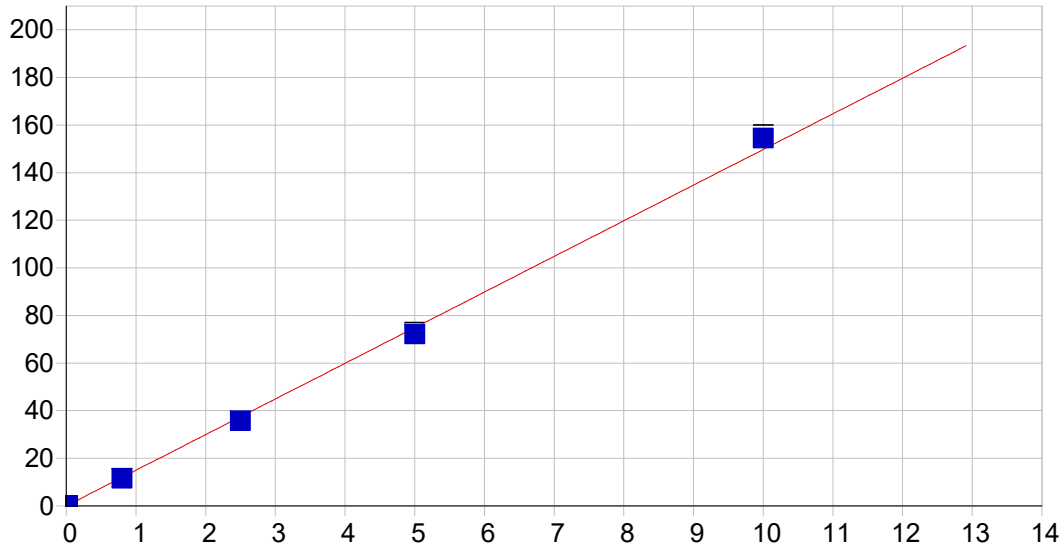


Li 670.784 { 50}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002472	Re-Slope:	1.000000
A1 (Gain):	1.080328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999357	Status:	OK.
Std Error of Est:	0.000909		
Predicted MDL:	0.001527		
Predicted MQL:	0.005091		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00247	.002	1
S5	10.000	10.310	.310	3.10	11.146	.011	1
S4	5.0000	4.8775	-.123	-2.45	5.2717	.014	1
S3	2.5000	2.3664	-.134	-5.34	2.5564	.009	1
S1	.02000	.01647	-.004	-17.6	.01571	.001	1
S2	.80000	.74932	-.051	-6.34	.80782	.002	1

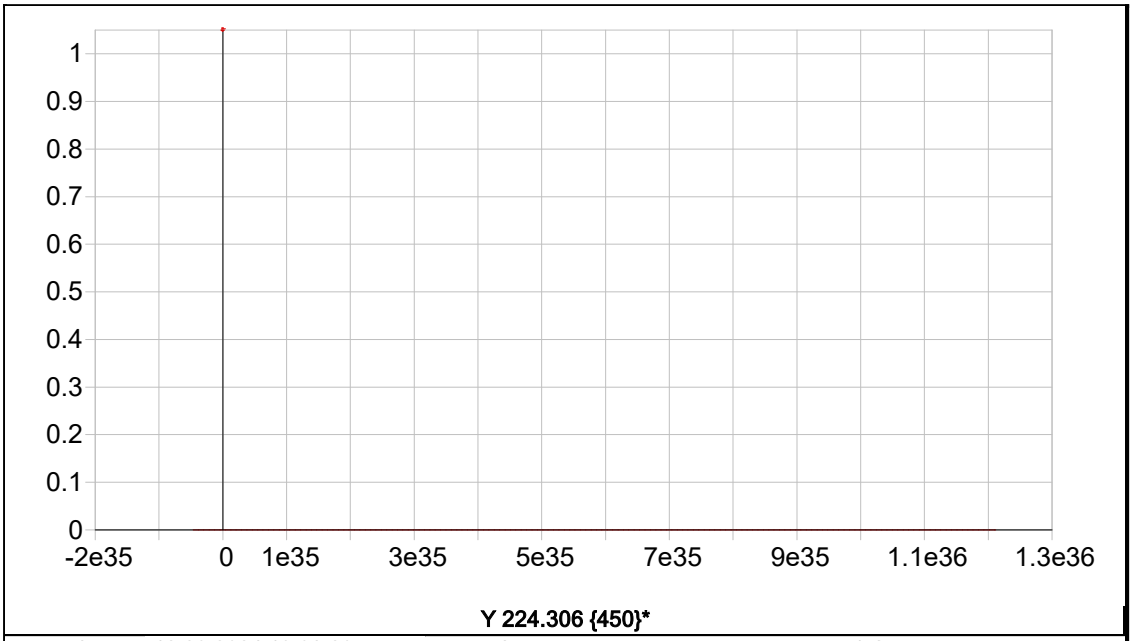


Sr 407.771 { 83}

Date of Fit:	12/20/2024 19:08:20	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003694	Re-Slope:	1.000000
A1 (Gain):	14.973721	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999381	Status:	OK.
Std Error of Est:	0.012365		
Predicted MDL:	0.000068		
Predicted MQL:	0.000226		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00374	.001	1
S1	.02000	.01839	-.002	-8.03	.28061	.001	1
S3	2.5000	2.3904	-.110	-4.38	35.834	.063	1
S4	5.0000	4.8200	-.180	-3.60	72.252	.752	1
S5	10.000	10.320	.320	3.20	154.69	1.33	1
S2	.80000	.77071	-.029	-3.66	11.556	.018	1

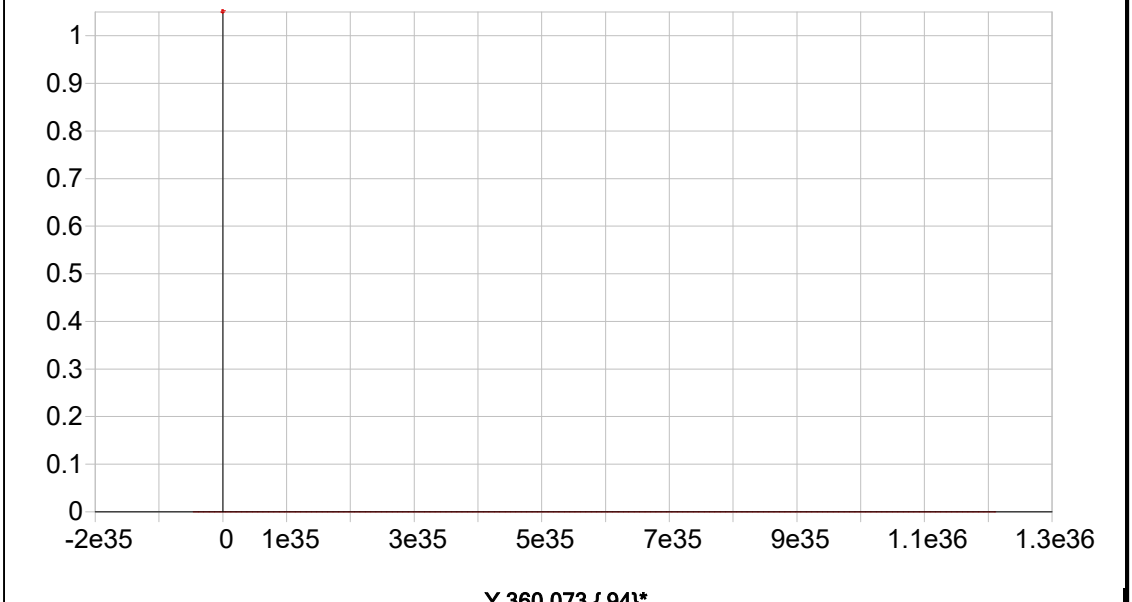


Y 224.306 {450}*

Date of Fit:	12/20/2024 19:08:20	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



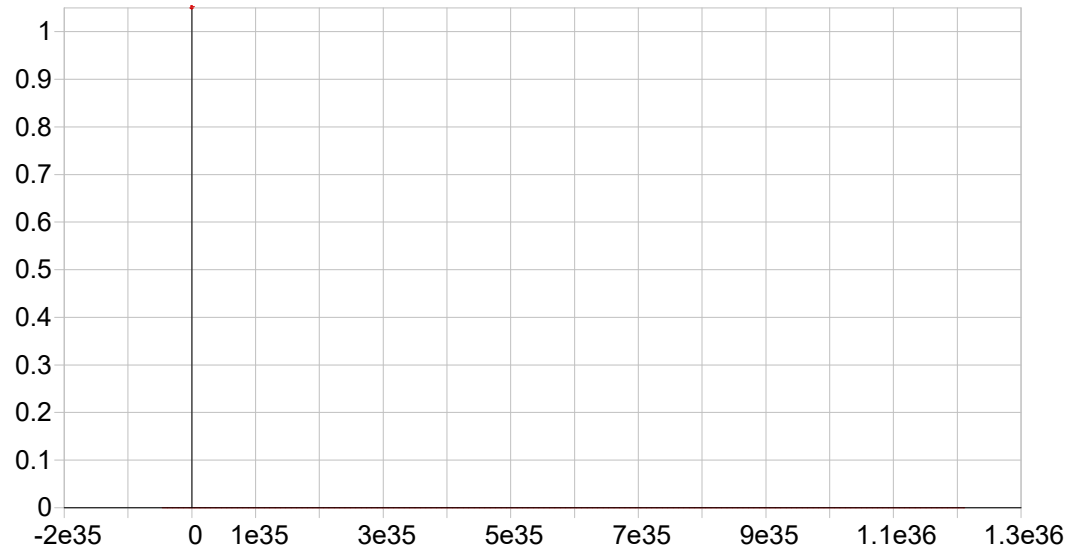
Y 360.073 { 94}*

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

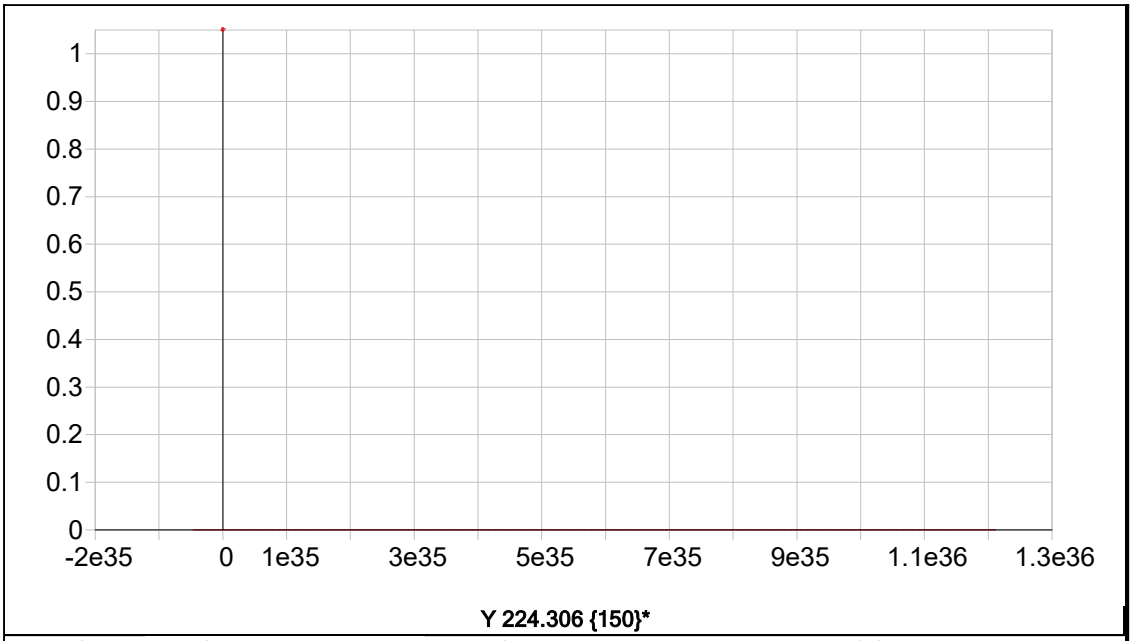


Y 371.030 { 91}*

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

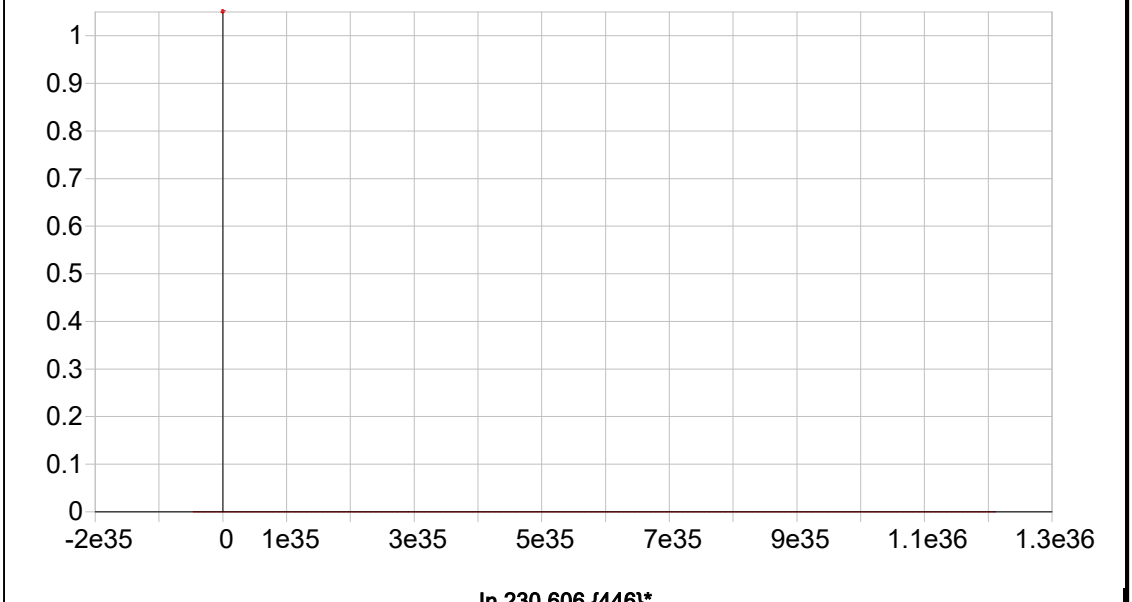


Y 224.306 {150}*

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:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S0 Acquired: 12/20/2024 15:41:38 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.00001	-.00039	.00048	.00070	-.00003	.08188	-.00024
Stddev	.00011	.00010	.00015	.00020	.00017	.00057	.00378	.00018
%RSD	104.03	1515.8	37.478	41.083	25.001	1805.1	4.6202	75.810
#1	-.00022	-.00010	-.00023	.00035	.00082	-.00033	.08409	-.00026
#2	-.00009	.00010	-.00041	.00071	.00077	-.00039	.07751	-.00041
#3	-.00001	.00002	-.00052	.00038	.00050	.00063	.08404	-.00005

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00050	.00189	.00007	.00017	-.00058	.00002	.00014	-.00032
Stddev	.00041	.00058	.00007	.00014	.00048	.00004	.00032	.00045
%RSD	82.438	30.501	99.788	79.556	81.361	285.45	225.65	140.28
#1	.00097	.00125	.00012	.00033	-.00085	-.00001	.00019	.00005
#2	.00032	.00208	-.00001	.00010	-.00004	-.00001	.00044	-.00082
#3	.00020	.00236	.00009	.00009	-.00087	.00007	-.00020	-.00019

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00013	-.00160	.00116	.00055	.01221	.00069	.00783	.00049
Stddev	.00008	.00011	.00005	.00044	.00251	.00021	.00012	.00018
%RSD	64.905	6.6024	4.3118	78.826	20.592	29.877	1.5155	35.723
#1	.00015	-.00148	.00115	.00082	.00941	.00078	.00773	.00036
#2	.00020	-.00166	.00111	.00005	.01292	.00046	.00780	.00043
#3	.00004	-.00167	.00121	.00079	.01429	.00084	.00796	.00069

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	.00214	.00020	-.00160	.00048	-.00247	.00374
Stddev	.00010	.00012	.00005	.00011	.00013	.00170	.00089
%RSD	36.433	5.8416	25.972	6.8370	27.458	68.854	23.900
#1	.00034	.00224	.00025	-.00157	.00061	-.00084	.00424
#2	.00016	.00200	.00020	-.00172	.00046	-.00422	.00271
#3	.00030	.00217	.00015	-.00150	.00035	-.00234	.00427

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S0 Acquired: 12/20/2024 15:41:38 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2355.9	45991.	6927.7	1914.2	3486.7
Stddev	3.9	48.	29.2	3.9	7.2
%RSD	.16473	.10461	.42097	.20338	.20661
#1	2351.5	46041.	6895.7	1909.7	3479.7
#2	2358.3	45986.	6952.7	1916.9	3486.4
#3	2358.0	45946.	6934.8	1916.0	3494.1

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S1 Acquired: 12/20/2024 15:46:02 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.00101	.00263	.00263	.00184	.00918	.00764	.41357	.03467
Stddev	.00016	.00013	.00007	.00017	.00019	.00047	.00071	.00007
%RSD	15.638	4.8284	2.7224	9.1786	2.0639	6.1437	.17088	.19317
#1	.00083	.00256	.00256	.00165	.00897	.00819	.41438	.03475
#2	.00114	.00255	.00262	.00195	.00925	.00737	.41307	.03462
#3	.00106	.00277	.00270	.00193	.00933	.00738	.41325	.03466

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	.01584	.14126	.00268	.02904	.01618	.00053	.01504	.03443
Stddev	.00027	.00070	.00008	.00008	.00004	.00004	.00017	.00036
%RSD	1.7093	.49225	2.8802	.27170	.26415	8.1765	1.1422	1.0375
#1	.01570	.14045	.00265	.02913	.01618	.00049	.01485	.03470
#2	.01615	.14165	.00262	.02900	.01621	.00053	.01508	.03456
#3	.01567	.14166	.00277	.02900	.01613	.00057	.01518	.03403

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	.02801	.00130	.04766	.00585	.13744	.01184	.06574	.14940
Stddev	.00006	.00006	.00006	.00029	.00104	.00019	.00050	.00024
%RSD	.22392	4.8627	.13380	4.8952	.75732	1.6166	.75462	.15793
#1	.02801	.00137	.04773	.00612	.13819	.01205	.06523	.14915
#2	.02794	.00125	.04763	.00588	.13625	.01179	.06578	.14943
#3	.02807	.00129	.04762	.00555	.13788	.01168	.06622	.14962

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	.00519	.02528	.00216	-.00094	.00091	.01571	.28061
Stddev	.00022	.00051	.00002	.00004	.00004	.00141	.00080
%RSD	4.2610	2.0276	.73648	4.3785	4.9109	8.9588	.28659
#1	.00494	.02489	.00217	-.00097	.00086	.01627	.28133
#2	.00536	.02509	.00217	-.00096	.00090	.01411	.28075
#3	.00527	.02586	.00214	-.00089	.00095	.01675	.27974

Sample Name: S1 Acquired: 12/20/2024 15:46:02 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2337.0	45805.	7167.6	1945.5	3386.2
Stddev	2.3	163.	.4	10.7	6.2
%RSD	.10011	.35536	.00579	.55033	.18180
#1	2335.6	45685.	7168.0	1934.6	3381.1
#2	2339.7	45990.	7167.2	1956.0	3393.0
#3	2335.6	45739.	7167.5	1945.9	3384.5

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S2 Acquired: 12/20/2024 15:50:26 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.04216	.05837	.21634	.06127	.13727	.11003	5.4349	.23496
Stddev	.00008	.00053	.00069	.00005	.00027	.00081	.0097	.00083
%RSD	.18454	.90497	.32096	.08542	.19554	.73643	.17869	.35498
#1	.04225	.05888	.21655	.06124	.13740	.10995	5.4426	.23546
#2	.04211	.05841	.21689	.06133	.13696	.11087	5.4381	.23543
#3	.04213	.05783	.21556	.06124	.13745	.10926	5.4240	.23400

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	1.0476	.28021	.04141	.39432	.15843	.00431	.30212	.06379
Stddev	.0015	.00120	.00015	.00035	.00042	.00001	.00031	.00034
%RSD	.14370	.42794	.36019	.08888	.26607	.30439	.10181	.52952
#1	1.0485	.27882	.04124	.39445	.15891	.00429	.30247	.06347
#2	1.0484	.28093	.04150	.39458	.15821	.00432	.30201	.06374
#3	1.0458	.28087	.04150	.39392	.15815	.00431	.30189	.06414

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	.28494	.05675	.09734	.05977	1.3353	.02301	.47552	.59796
Stddev	.00024	.00004	.00044	.00017	.0058	.00020	.00066	.00176
%RSD	.08494	.07232	.44907	.28652	.43612	.85246	.13954	.29492
#1	.28522	.05675	.09688	.05965	1.3366	.02298	.47612	.59947
#2	.28481	.05679	.09776	.05969	1.3403	.02283	.47565	.59840
#3	.28479	.05671	.09738	.05996	1.3289	.02322	.47481	.59602

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	.10438	.47305	.00477	.02961	.02060	.80782	11.556
Stddev	.00017	.00223	.00004	.00003	.00006	.00240	.018
%RSD	.15817	.47150	.81187	.09468	.31181	.29707	.15700
#1	.10457	.47050	.00474	.02961	.02057	.80854	11.537
#2	.10433	.47401	.00477	.02963	.02067	.80977	11.573
#3	.10425	.47464	.00481	.02958	.02055	.80514	11.558

Sample Name: S2 Acquired: 12/20/2024 15:50:26 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2322.8	45010.	7205.5	1933.3	3302.9
Stddev	4.0	76.	12.6	7.1	5.3
%RSD	.17138	.16870	.17443	.36736	.15995
#1	2320.3	44938.	7191.2	1925.5	3299.5
#2	2320.7	45089.	7210.1	1935.2	3300.3
#3	2327.4	45004.	7215.1	1939.3	3309.0

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S3 Acquired: 12/20/2024 15:54:37 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.12842	.17733	.67052	.18361	.41970	.34796	17.256	.73879
Stddev	.00023	.00068	.00127	.00067	.00054	.00112	.053	.00262
%RSD	.18275	.38585	.18927	.36354	.12928	.32231	.30542	.35458
#1	.12818	.17659	.66983	.18342	.42023	.34911	17.217	.74023
#2	.12844	.17746	.67198	.18436	.41915	.34686	17.236	.73577
#3	.12865	.17794	.66974	.18306	.41971	.34790	17.316	.74038

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	3.2316	.87827	.12643	1.2202	.48328	.01326	.94356	.20098
Stddev	.0046	.00177	.00033	.0019	.00127	.00008	.00267	.00085
%RSD	.14119	.20183	.26445	.15800	.26340	.59630	.28328	.42174
#1	3.2364	.87863	.12605	1.2212	.48254	.01322	.94080	.20176
#2	3.2310	.87634	.12660	1.2214	.48255	.01321	.94613	.20110
#3	3.2273	.87983	.12665	1.2179	.48475	.01335	.94374	.20008

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	.87746	.17603	.29564	.18788	4.0680	.06900	1.4961	1.8477
Stddev	.00098	.00020	.00123	.00042	.0158	.00032	.0086	.0009
%RSD	.11207	.11151	.41757	.22304	.38827	.46641	.57386	.04979
#1	.87860	.17625	.29422	.18765	4.0860	.06908	1.5058	1.8467
#2	.87682	.17589	.29639	.18763	4.0614	.06865	1.4893	1.8486
#3	.87697	.17593	.29632	.18836	4.0565	.06928	1.4934	1.8479

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	.31954	1.4926	.01429	.09643	.06231	2.5564	35.834
Stddev	.00031	.0053	.00007	.00005	.00020	.0091	.063
%RSD	.09754	.35421	.49629	.04776	.31809	.35586	.17522
#1	.31948	1.4884	.01425	.09648	.06213	2.5517	35.797
#2	.31988	1.4909	.01437	.09643	.06252	2.5506	35.799
#3	.31926	1.4986	.01425	.09639	.06227	2.5669	35.907

Sample Name: S3 Acquired: 12/20/2024 15:54:37 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2305.5	44874.	6979.2	1890.4	3244.1
Stddev	2.6	64.	8.5	8.7	4.0
%RSD	.11148	.14308	.12130	.45985	.12237
#1	2306.0	44944.	6970.9	1880.9	3240.9
#2	2302.7	44818.	6987.8	1892.3	3242.9
#3	2307.8	44860.	6978.9	1898.0	3248.6

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S4 Acquired: 12/20/2024 15:58:48 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.26084	.35678	1.3529	.37178	.84750	.70417	35.485	1.5035
Stddev	.00065	.00197	.0022	.00123	.00043	.00178	.373	.0166
%RSD	.24738	.55207	.15941	.33203	.05034	.25258	1.0507	1.1063
#1	.26119	.35853	1.3516	.37161	.84718	.70615	35.583	1.5217
#2	.26010	.35465	1.3516	.37063	.84734	.70364	35.799	1.4995
#3	.26125	.35715	1.3554	.37309	.84799	.70271	35.073	1.4891

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	6.5683	1.7775	.24729	2.4715	.96360	.02653	1.8726	.40499
Stddev	.0081	.0042	.00055	.0032	.00230	.00024	.0036	.00105
%RSD	.12336	.23385	.22289	.12964	.23910	.90131	.19440	.25882
#1	6.5652	1.7809	.24761	2.4692	.96100	.02637	1.8720	.40553
#2	6.5621	1.7788	.24665	2.4701	.96440	.02642	1.8766	.40565
#3	6.5775	1.7729	.24760	2.4752	.96540	.02681	1.8694	.40378

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	1.7722	.35007	.58936	.38320	8.0573	.13849	3.0474	3.6774
Stddev	.0014	.00021	.00544	.00106	.0126	.00120	.0312	.0017
%RSD	.07885	.06104	.92320	.27738	.15649	.86665	1.0228	.04641
#1	1.7727	.35003	.58481	.38404	8.0622	.13761	3.0792	3.6763
#2	1.7706	.34989	.58789	.38356	8.0668	.13801	3.0460	3.6765
#3	1.7733	.35031	.59538	.38200	8.0430	.13986	3.0169	3.6794

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	.64813	3.0402	.02850	.20398	.13083	5.2717	72.252
Stddev	.00049	.0070	.00040	.00074	.00023	.0142	.752
%RSD	.07561	.22949	1.3904	.36442	.17493	.26991	1.0402
#1	.64800	3.0479	.02806	.20396	.13068	5.2880	72.940
#2	.64772	3.0382	.02861	.20324	.13071	5.2621	72.367
#3	.64868	3.0344	.02883	.20473	.13109	5.2649	71.450

Sample Name: S4 Acquired: 12/20/2024 15:58:48 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2257.8	44643.	6809.3	1858.3	3103.8
Stddev	2.2	120.	65.9	11.6	1.8
%RSD	.09792	.26878	.96713	.62300	.05653
#1	2255.9	44776.	6756.4	1861.0	3101.8
#2	2257.3	44542.	6788.4	1845.5	3104.6
#3	2260.2	44611.	6883.0	1868.2	3105.0

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: S5 Acquired: 12/20/2024 16:03:07 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	.52998	.72797	2.7660	.74749	1.7199	1.5101	72.751	3.1400
Stddev	.00030	.00632	.0041	.00114	.0024	.0059	.420	.0220
%RSD	.05670	.86843	.14924	.15235	.14129	.38895	.57712	.70019
#1	.52967	.72761	2.7612	.74618	1.7174	1.5036	72.268	3.1162
#2	.53001	.73446	2.7688	.74804	1.7201	1.5114	72.955	3.1441
#3	.53027	.72183	2.7678	.74825	1.7222	1.5152	73.029	3.1596

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	13.496	3.7322	.50059	5.0765	1.9200	.05284	4.0374	.87365
Stddev	.028	.0109	.00069	.0087	.0021	.00010	.0215	.00602
%RSD	.20805	.29134	.13758	.17123	.10780	.18187	.53256	.68871
#1	13.463	3.7229	.49979	5.0665	1.9205	.05289	4.0169	.86760
#2	13.510	3.7296	.50099	5.0826	1.9178	.05272	4.0354	.87373
#3	13.514	3.7442	.50097	5.0804	1.9218	.05289	4.0598	.87963

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	3.6150	.70508	1.2072	.81565	16.180	.27928	6.3714	7.4668
Stddev	.0043	.00073	.0047	.00208	.022	.00106	.0327	.0047
%RSD	.11964	.10295	.38861	.25554	.13722	.38116	.51359	.06253
#1	3.6100	.70503	1.2123	.81385	16.172	.28031	6.3352	7.4618
#2	3.6178	.70438	1.2061	.81516	16.205	.27935	6.3800	7.4711
#3	3.6172	.70583	1.2031	.81793	16.162	.27818	6.3989	7.4675

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	1.3253	6.3799	.05973	.41994	.27031	11.146	154.69
Stddev	.0028	.0083	.00047	.00139	.00079	.011	1.33
%RSD	.21155	.13005	.78945	.33005	.29133	.09974	.86019
#1	1.3223	6.3749	.05919	.41917	.26982	11.159	153.31
#2	1.3278	6.3754	.05998	.42154	.27122	11.141	154.79
#3	1.3257	6.3895	.06003	.41912	.26989	11.138	155.97

Sample Name: S5 Acquired: 12/20/2024 16:03:07 Type: Cal
Method: NON EPA-6010-200.7(v2482) 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	2217.6	43967.	6442.7	1831.2	2982.3
Stddev	2.2	66.	38.0	3.6	4.6
%RSD	.09918	.14965	.59004	.19643	.15461
#1	2218.8	44038.	6482.2	1827.1	2987.5
#2	2219.0	43956.	6439.5	1832.9	2978.9
#3	2215.1	43908.	6406.4	1833.7	2980.4

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICV01 Acquired: 12/20/2024 16:07:24 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024539	1.011815	1.003079	1.023323	.9848426	2.438467
Stddev	.005718	.006662	.001169	.009842	.0032809	.010021
%RSD	.5581532	.6584132	.1165636	.9617531	.3331352	.4109414
#1	1.030436	1.010729	1.001804	1.034020	.9883222	2.429091
#2	1.019017	1.005763	1.004101	1.014651	.9818054	2.437281
#3	1.024164	1.018954	1.003332	1.021298	.9844002	2.449027

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4710229	.4862133	.5020247	9.510779	.5340039	.5076061
Stddev	.0019396	.0025449	.0007037	.024571	.0005841	.0009304
%RSD	.4117897	.5234194	.1401642	.2583441	.1093830	.1832947
#1	.4691303	.4891460	.5016981	9.497130	.5333361	.5075428
#2	.4730064	.4849081	.5015437	9.539143	.5342557	.5067090
#3	.4709319	.4845858	.5028323	9.496062	.5344199	.5085666

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5224499	10.08436	F .4938228	F 5.686037	.5100906	.2512927
Stddev	.0012157	.09590	.0011703	.026577	.0004033	.0004784
%RSD	.2326889	.9509318	.2369985	.4674123	.0790540	.1903711
#1	.5238162	9.97412	.4924943	5.710334	.5101986	.2517853
#2	.5220459	10.13045	.4942721	5.690123	.5096444	.2508300
#3	.5214877	10.14852	.4947019	5.657653	.5104290	.2512628

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.882330	F .4646394	1.013553	9.867877	2.421094	2.594802
Stddev	.079355	.0009137	.003137	.090696	.013633	.005505
%RSD	.8029986	.1966546	.3094693	.9191032	.5630935	.2121435
#1	9.791291	.4636887	1.017121	9.770750	2.436830	2.599575
#2	9.936857	.4647184	1.011232	9.950359	2.412844	2.588780
#3	9.918841	.4655111	1.012305	9.882523	2.413608	2.596051

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICV01 Acquired: 12/20/2024 16:07:24 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	2.517117	2.413996	F 2.135544	F .0067015	F -.015020	F -.004416
Stddev	.005749	.003378	.017552	.0022311	.003022	.000856
%RSD	.2284090	.1399166	.8218750	33.29288	20.11880	19.39125
#1	2.517350	2.410096	2.115285	.0092773	-.018183	-.003428
#2	2.511254	2.415884	2.146146	.0053740	-.012163	-.004948
#3	2.522746	2.416007	2.145201	.0054531	-.014714	-.004873

Elem	Sr4077
Units	ppm
Avg	F -.008849
Stddev	.000162
%RSD	1.831092
#1	-.008672
#2	-.008886
#3	-.008990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2338.467	45189.46	7223.078	1942.038	3329.971
Stddev	4.399	44.53	55.579	4.963	2.542
%RSD	.1881257	.0985307	.7694655	.2555416	.0763426
#1	2333.432	45205.15	7159.847	1936.408	3332.442
#2	2340.398	45139.21	7245.181	1943.927	3330.106
#3	2341.570	45224.01	7264.204	1945.778	3327.363

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LLICV01 Acquired: 12/20/2024 16:11:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0189567	.0387111	.0121149	.0197087	.0500996	.0984463
Stddev	.0040828	.0008324	.0011014	.0027236	.0002635	.0111264
%RSD	21.53750	2.150162	9.090844	13.81917	.5260566	11.30201
#1	.0226303	.0392115	.0133183	.0172660	.0498739	.0901641
#2	.0145610	.0391716	.0118696	.0192145	.0500356	.1110933
#3	.0196789	.0377503	.0111570	.0226455	.0503892	.0940814

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0879170	.0057499	.0058010	1.865130	.0099789	.0291347
Stddev	.0005896	.0000809	.0000198	.007514	.0002839	.0000512
%RSD	.6706112	1.406287	.3416207	.4028638	2.844800	.1757016
#1	.0873600	.0057140	.0058055	1.859493	.0102854	.0291638
#2	.0885345	.0058425	.0057793	1.873661	.0097249	.0290756
#3	.0878565	.0056932	.0058181	1.862237	.0099265	.0291647

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217691	.0941937	.0193426	2.053565	.0388834	.0103148
Stddev	.0000816	.0009352	.0001401	.032842	.0000990	.0003300
%RSD	.3749193	.9927916	.7241813	1.599243	.2544979	3.199376
#1	.0217441	.0931516	.0192958	2.024593	.0389914	.0103214
#2	.0218603	.0949598	.0195001	2.046862	.0388617	.0106415
#3	.0217029	.0944696	.0192319	2.089242	.0387971	.0099816

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.935493	.0352325	.0389012	2.017900	.1100992	.1995942
Stddev	.015143	.0011722	.0002715	.037226	.0004675	.0003809
%RSD	.7823757	3.327156	.6978459	1.844800	.4246128	.1908138
#1	1.949196	.0365783	.0392079	2.033817	.1099672	.1998829
#2	1.919236	.0346853	.0386920	2.044521	.1106186	.1991625
#3	1.938048	.0344339	.0388035	1.975361	.1097120	.1997371

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LLICV01 Acquired: 12/20/2024 16:11:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0373062	.0377879	.3444738	.0167098	F .0113601	.0161717
Stddev	.0011843	.0009390	.0074534	.0032133	.0029409	.0007318
%RSD	3.174493	2.485004	2.163698	19.23028	25.88760	4.525290
#1	.0359860	.0384267	.3524459	.0200612	.0138529	.0163029
#2	.0382752	.0367098	.3432963	.0136551	.0081167	.0153831
#3	.0376573	.0382274	.3376793	.0164131	.0121107	.0168290

Elem	Sr4077
Units	ppm
Avg	.0185274
Stddev	.0000967
%RSD	.5217722
#1	.0184286
#2	.0185316
#3	.0186218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.365	45501.31	7252.937	1971.225	3385.632
Stddev	3.528	111.93	9.754	3.353	2.495
%RSD	.1500542	.2459883	.1344778	.1701223	.0736848
#1	2347.426	45379.29	7263.548	1974.292	3382.770
#2	2352.431	45599.22	7250.900	1971.739	3387.342
#3	2354.237	45525.41	7244.362	1967.644	3386.785

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICB01 Acquired: 12/20/2024 16:21:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000026	.0008503	.0006180	.0023788	-.000252	.0016142	-.003587
Stddev	.004090	.0012150	.0003023	.0013223	.000588	.0023448	.000729
%RSD	16041.21	142.8814	48.92232	55.58523	233.1389	145.2649	20.32086
#1	-.003963	.0022283	.0005349	.0018240	.000184	.0042685	-.002807
#2	-.000316	-.000067	.0009532	.0014243	-.000920	-.000176	-.003702
#3	.004202	.000390	.0003659	.0038881	-.000020	.000750	-.004251

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000436	-.000040	-.015957	-.000177	.0000072	-.000124	-.000675
Stddev	.0000592	.000083	.007982	.000208	.0001950	.000330	.003042
%RSD	135.9221	206.3363	50.02221	117.3280	2721.898	265.2930	450.5997
#1	.0001118	-.000108	-.021834	-.000064	-.000039	-.000459	.002726
#2	.0000136	-.000066	-.006870	-.000051	.000221	.000201	-.001614
#3	.0000054	.000053	-.019167	-.000417	-.000161	-.000115	-.003137

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000448	.0071424	-.000337	-.000245	-.032816	-.002105	-.002955
Stddev	.000261	.0090002	.000468	.000438	.013380	.001153	.000187
%RSD	58.28443	126.0109	138.6765	178.8625	40.77393	54.77676	6.339936
#1	-.000287	.0119623	.000168	-.000698	-.029683	-.003392	-.002746
#2	-.000307	-.003241	-.000426	.000176	-.047485	-.001759	-.003108
#3	-.000749	.012706	-.000755	-.000213	-.021280	-.001165	-.003009

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0868928	-.002321	-.000306	.0000847	.0008961	-.005293	-.001559
Stddev	.0425899	.001376	.000124	.0008810	.0006530	.011789	.000813
%RSD	49.01432	59.28800	40.52010	1039.900	72.86846	222.7439	52.12246
#1	.0498445	-.001308	-.000221	-.000830	.0016394	.002152	-.000730
#2	.1334253	-.001767	-.000448	.000156	.0004148	-.018885	-.001594
#3	.0774086	-.003887	-.000248	.000928	.0006342	.000855	-.002354

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICB01 Acquired: 12/20/2024 16:21:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.009126	-.002574	-.000289
Stddev	.004777	.000918	.000052
%RSD	52.33917	35.66693	18.00286
#1	-.008160	-.002655	-.000229
#2	-.014312	-.001618	-.000316
#3	-.004907	-.003449	-.000322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2370.491	46154.61	7119.693	1952.396	3509.292
Stddev	4.506	19.25	41.543	4.090	3.181
%RSD	.1900926	.0417183	.5834920	.2094996	.0906319
#1	2369.278	46176.82	7114.979	1952.618	3505.894
#2	2366.716	46142.54	7163.392	1956.371	3509.784
#3	2375.479	46144.47	7080.709	1948.200	3512.197

Sample Name: CRI01 Acquired: 12/20/2024 16:26:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211102	.0384761	.0111180	.0183146	.0493330	.1021704
Stddev	.0024489	.0012178	.0010604	.0026854	.0002557	.0103199
%RSD	11.60059	3.164942	9.537269	14.66239	.5182052	10.10067
#1	.0216293	.0391252	.0099161	.0160617	.0490452	.0965254
#2	.0184433	.0392317	.0119215	.0212861	.0494196	.0959045
#3	.0232579	.0370713	.0115162	.0175959	.0495340	.1140814

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877552	.0057089	.0058750	1.877548	.0101825	.0289925
Stddev	.0005399	.0000914	.0000774	.005007	.0002182	.0003125
%RSD	.6152032	1.601241	1.317946	.2666806	2.142912	1.077916
#1	.0871388	.0058132	.0059524	1.883329	.0099770	.0286433
#2	.0879825	.0056705	.0058749	1.874575	.0104115	.0290885
#3	.0881442	.0056429	.0057976	1.874740	.0101590	.0292458

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218486	.0966476	.0189454	2.052652	.0389971	.0102943
Stddev	.0001641	.0074444	.0002240	.017930	.0002677	.0003336
%RSD	.7509377	7.702583	1.182100	.8735133	.6864864	3.240255
#1	.0216668	.0952088	.0187773	2.059050	.0386887	.0102779
#2	.0218933	.0900277	.0188594	2.032401	.0391705	.0099692
#3	.0219857	.1047063	.0191997	2.066507	.0391320	.0106357

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.945608	.0332813	.0387900	2.095492	.0910728	.1987071
Stddev	.022479	.0010437	.0003098	.027795	.0003352	.0005768
%RSD	1.155352	3.136030	.7987122	1.326409	.3680934	.2903039
#1	1.920106	.0320932	.0389730	2.127504	.0913618	.1980521
#2	1.954171	.0340506	.0389647	2.077496	.0911513	.1989299
#3	1.962546	.0337001	.0384323	2.081474	.0907052	.1991393

Sample Name: CRI01 Acquired: 12/20/2024 16:26:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0381567	.0367040	.3515745	.0140579	F .0104576	.0143797
Stddev	.0002733	.0010029	.0061806	.0029766	.0014371	.0012349
%RSD	.7161590	2.732513	1.757972	21.17360	13.74245	8.587870
#1	.0378862	.0378256	.3463372	.0119406	.0107727	.0157057
#2	.0384326	.0358935	.3499945	.0127717	.0117110	.0132624
#3	.0381512	.0363928	.3583917	.0174613	.0088891	.0141710

Elem	Sr4077
Units	ppm
Avg	.0182990
Stddev	.0001029
%RSD	.5624069
#1	.0181802
#2	.0183582
#3	.0183587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2326.121	44836.49	7181.399	1946.510	3340.921
Stddev	4.776	72.68	50.991	4.138	4.895
%RSD	.2053202	.1620972	.7100486	.2125755	.1465288
#1	2331.628	44916.40	7136.628	1941.845	3342.329
#2	2323.620	44774.34	7170.666	1947.950	3335.475
#3	2323.115	44818.72	7236.903	1949.736	3344.957

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSA01 Acquired: 12/20/2024 16:30:24 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001505	.0111480	.0069655	-.016571	.0001468	239.3880
Stddev	.003462	.0011573	.0013731	.003649	.0016375	.8895
%RSD	230.0146	10.38119	19.71286	22.02019	1115.119	.3715830
#1	-.003151	.0098884	.0084939	-.017241	.0010833	238.9105
#2	-.003837	.0113913	.0065665	-.019839	-.001744	238.8392
#3	.002473	.0121643	.0058361	-.012634	.001101	240.4143

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027906	.0014273	-.000991	225.3898	.0599731	.0014607
Stddev	.0004004	.0000131	.000169	1.0033	.0004451	.0003908
%RSD	14.34954	.9179505	17.04656	.4451292	.7421081	26.75485
#1	.0032381	.0014123	-.001159	224.8698	.0604160	.0011464
#2	.0026678	.0014362	-.000992	224.7532	.0595259	.0013374
#3	.0024660	.0014335	-.000821	226.5463	.0599773	.0018983

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163540	103.4622	.0047878	246.9655	.0021283	-.003173
Stddev	.0003316	.5993	.0008232	1.4046	.0001594	.001073
%RSD	2.027566	.5792565	17.19455	.5687581	7.487852	33.81295
#1	.0160065	102.8215	.0051916	245.8913	.0019733	-.004408
#2	.0163887	103.5563	.0038406	246.4502	.0022917	-.002642
#3	.0166670	104.0090	.0053311	248.5550	.0021199	-.002469

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059761	.0049725	.0001029	.1359696	.0478522	-.000586
Stddev	.0115311	.0016902	.0004705	.0518338	.0010427	.000381
%RSD	192.9547	33.99123	457.0893	38.12160	2.179032	64.97959
#1	.0117918	.0056043	.0006265	.1403183	.0468903	-.001025
#2	.0134412	.0030574	-.000033	.1854920	.0477060	-.000347
#3	-.007305	.0062559	-.000284	.0820984	.0489603	-.000385

Sample Name: ICSA01 Acquired: 12/20/2024 16:30:24 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0083200	-.000643	.0237046	-.000346	-.012115	F -.039654
Stddev	.0015934	.000811	.0041880	.001250	.001407	.000427
%RSD	19.15137	126.1420	17.66730	361.2531	11.61329	1.077330
#1	.0077441	.000259	.0260861	-.000585	-.010770	-.040114
#2	.0101212	-.001312	.0188689	-.001460	-.011999	-.039269
#3	.0070946	-.000876	.0261587	.001006	-.013577	-.039579

Elem	Sr4077
Units	ppm
Avg	-.008208
Stddev	.000559
%RSD	6.815079
#1	-.007587
#2	-.008364
#3	-.008673

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2127.016	39883.90	7082.244	1780.113	2788.879
Stddev	1.443	27.65	28.313	1.389	1.537
%RSD	.0678270	.0693213	.3997678	.0780266	.0551199
#1	2125.457	39852.01	7055.420	1781.708	2787.430
#2	2127.290	39901.11	7111.841	1779.468	2790.491
#3	2128.303	39898.59	7079.473	1779.164	2788.717

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSAB01 Acquired: 12/20/2024 16:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.1130680	.0955172	.0562133	.0341906	.6318774	236.1432
Stddev	.0014838	.0012462	.0008959	.0031520	.0017590	.4462
%RSD	1.312302	1.304688	1.593658	9.218814	.2783738	.1889477
#1	.1143310	.0948775	.0567487	.0349360	.6333741	235.8915
#2	.1134391	.0947208	.0567121	.0369030	.6299400	235.8798
#3	.1114339	.0969533	.0551791	.0307327	.6323180	236.6584

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4595376	.4920464	1.036612	221.5017	.6039591	.5230820
Stddev	.0019751	.0044429	.001773	.8072	.0008704	.0014331
%RSD	.4297936	.9029485	.1710056	.3644133	.1441118	.2739656
#1	.4597154	.4924507	1.038479	221.5869	.6031830	.5245631
#2	.4574797	.4874151	1.034951	220.6554	.6037942	.5229807
#3	.4614178	.4962734	1.036407	222.2630	.6049002	.5217023

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5195771	101.3325	.4866260	243.8749	1.039393	.2007071
Stddev	.0010362	.3717	.0013580	.8853	.001632	.0004748
%RSD	.1994332	.3668454	.2790556	.3630273	.1570556	.2365612
#1	.5205599	101.3181	.4852163	243.3708	1.040892	.2007686
#2	.5184947	101.7113	.4867363	243.3567	1.037654	.2011481
#3	.5196767	100.9682	.4879254	244.8972	1.039634	.2002045

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057015	.4738006	1.077003	.1625186	F .0448575	F -.000459
Stddev	.0093317	.0019583	.003091	.0158386	.0009150	.000814
%RSD	163.6714	.4133163	.2870268	9.745724	2.039869	177.2284
#1	-.004126	.4716923	1.079116	.1548399	.0455606	-.000847
#2	.006788	.4741468	1.073455	.1519829	.0451891	-.001006
#3	.014442	.4755628	1.078437	.1807329	.0438229	.000476

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSAB01 Acquired: 12/20/2024 16:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	F .0069665	F -.001936	F -.006379	F .0111862	F -.022322	F -.039582
Stddev	.0004037	.000596	.007602	.0014538	.000847	.000431
%RSD	5.795602	30.79572	119.1824	12.99638	3.794137	1.089281
#1	.0073666	-.002315	-.008089	.0097620	-.021993	-.039709
#2	.0065591	-.002244	.001933	.0126679	-.021689	-.039935
#3	.0069738	-.001249	-.012981	.0111287	-.023284	-.039102

Elem	Sr4077
Units	ppm
Avg	F -.006393
Stddev	.000528
%RSD	8.258081
#1	-.006639
#2	-.006754
#3	-.005787

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2126.052	40062.49	7102.946	1781.720	2800.216
Stddev	2.274	79.70	44.785	3.819	4.408
%RSD	.1069396	.1989416	.6305166	.2143268	.1574284
#1	2125.513	40093.78	7093.694	1778.822	2797.544
#2	2124.096	39971.90	7151.634	1780.292	2797.800
#3	2128.546	40121.81	7063.509	1786.047	2805.304

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSADLX20 Acquired: 12/20/2024 16:38:50 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001448	-.000128	-.000074	-.000336	-.001198	11.39359	-.001447
Stddev	.004411	.003158	.001791	.004919	.001873	.34251	.000564
%RSD	304.6305	2462.845	2431.616	1464.232	156.4155	3.006128	38.97328
#1	.000325	.001087	-.001159	.004896	-.000686	11.15530	-.000890
#2	.001800	-.003713	.001993	-.001038	-.003274	11.23937	-.002018
#3	-.006469	.002242	-.001055	-.004866	.000367	11.78609	-.001433

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001985	-.000111	11.22096	.0028864	.0001810	.0009249	4.666310
Stddev	.0000677	.000009	.34769	.0002188	.0001706	.0003875	.024649
%RSD	34.12587	8.474231	3.098593	7.580245	94.28694	41.89727	.5282342
#1	.0001461	-.000102	10.96447	.0029313	.0001159	.0013563	4.662326
#2	.0002749	-.000121	11.08173	.0030793	.0000524	.0006064	4.643896
#3	.0001744	-.000111	11.61670	.0026486	.0003746	.0008120	4.692708

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000151	11.90868	-.000022	-.000181	-.034574	-.003141	-.002588
Stddev	.000115	.31244	.000350	.000268	.014509	.001495	.000294
%RSD	75.75849	2.623651	1620.341	147.5232	41.96559	47.59101	11.36440
#1	-.000242	11.64376	.000337	-.000114	-.051277	-.004305	-.002614
#2	-.000190	11.82904	-.000040	.000046	-.027364	-.003662	-.002282
#3	-.000022	12.25323	-.000362	-.000476	-.025083	-.001455	-.002869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0671752	-.006039	-.000174	-.001899	.0004319	.0100005	-.000124
Stddev	.0790575	.000258	.000445	.000535	.0003641	.0010471	.001141
%RSD	117.6884	4.263953	255.5322	28.15749	84.30612	10.47030	919.2152
#1	-.022023	-.006293	-.000323	-.001702	.0000529	.0088705	.001193
#2	.128594	-.005778	.000326	-.002504	.0004637	.0101929	-.000783
#3	.094954	-.006046	-.000526	-.001491	.0007791	.0109380	-.000783

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSADLX20 Acquired: 12/20/2024 16:38:50 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006986	-.004931	-.000264
Stddev	.003128	.002332	.000117
%RSD	44.77591	47.29879	44.30779
#1	-.005121	-.002352	-.000343
#2	-.010597	-.006892	-.000319
#3	-.005240	-.005548	-.000129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.573	45381.55	7153.020	1981.495	3391.653
Stddev	12.904	127.43	198.695	3.154	8.529
%RSD	.5445803	.2807861	2.777783	.1591505	.2514764
#1	2372.286	45252.65	7309.614	1982.745	3392.087
#2	2355.527	45507.45	7219.941	1977.908	3382.915
#3	2380.904	45384.55	6929.504	1983.832	3399.956

Sample Name: ICSABDLX20 Acquired: 12/20/2024 16:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0070001	.0046538	.0029942	.0034312	.0312207	11.59617	.0225533
Stddev	.0042837	.0003204	.0019161	.0033193	.0007695	.04451	.0007853
%RSD	61.19444	6.885479	63.99331	96.74110	2.464692	.3838092	3.482191
#1	.0119076	.0050237	.0051453	.0023999	.0315013	11.55413	.0232691
#2	.0040103	.0044780	.0014705	.0071437	.0318104	11.64279	.0226776
#3	.0050825	.0044597	.0023667	.0007499	.0303502	11.59159	.0217132

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258860	.0526256	11.40271	.0308194	.0261385	.0280512	4.929994
Stddev	.0001758	.0002240	.05383	.0001875	.0002371	.0004544	.028407
%RSD	.6789905	.4256449	.4721164	.6085207	.9071719	1.619945	.5762081
#1	.0257372	.0528225	11.34071	.0308170	.0263710	.0275532	4.957264
#2	.0258408	.0526724	11.43767	.0306330	.0261473	.0281570	4.900572
#3	.0260799	.0523819	11.42973	.0310081	.0258970	.0284433	4.932145

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258313	12.05903	.0528153	.0095358	-.034279	.0232309	.0520948
Stddev	.0000658	.07334	.0004503	.0003032	.003894	.0031840	.0004563
%RSD	.2547567	.6081357	.8526513	3.179912	11.35962	13.70564	.8759027
#1	.0259055	11.98584	.0533326	.0096008	-.037857	.0200223	.0518949
#2	.0257799	12.05874	.0525106	.0092054	-.034849	.0263897	.0517725
#3	.0258086	12.13251	.0526028	.0098013	-.030131	.0232808	.0526169

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735443	.0194434	.0314868	.0279679	.0291424	.0173838	-.002932
Stddev	.0263719	.0002937	.0003395	.0005581	.0002237	.0100848	.002269
%RSD	35.85848	1.510337	1.078372	1.995387	.7677517	58.01228	77.37613
#1	.0811440	.0194876	.0312993	.0281683	.0293080	.0104048	-.002045
#2	.0952820	.0191302	.0318787	.0283982	.0288878	.0289463	-.005511
#3	.0442071	.0197125	.0312822	.0273374	.0292313	.0128004	-.001241

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: ICSABDLX20 Acquired: 12/20/2024 16:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.005002	-.004907	-.000502
Stddev	.003245	.000611	.000069
%RSD	64.86504	12.45716	13.68333
#1	-.003898	-.004921	-.000524
#2	-.008655	-.004289	-.000557
#3	-.002454	-.005511	-.000425

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2323.375	44667.90	7300.448	1961.619	3284.005
Stddev	5.139	130.23	33.121	1.296	11.847
%RSD	.2211837	.2915410	.4536850	.0660752	.3607402
#1	2318.661	44522.34	7337.899	1963.107	3272.297
#2	2328.853	44708.01	7288.435	1961.015	3295.986
#3	2322.611	44773.35	7275.010	1960.736	3283.732

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV01 Acquired: 12/20/2024 16:47:25 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.801669	4.828438	4.825388	4.789851	4.816729	9.491804	9.132663
Stddev	.021615	.006480	.005371	.017613	.011598	.023632	.057367
%RSD	.4501639	.1342020	.1113059	.3677241	.2407756	.2489728	.6281493
#1	4.808938	4.825606	4.823146	4.804982	4.821926	9.519068	9.125603
#2	4.777356	4.835852	4.831517	4.770516	4.803442	9.479152	9.079153
#3	4.818713	4.823856	4.821501	4.794054	4.824819	9.477192	9.193233

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2365056	2.415935	23.53792	1.001434	2.406798	1.217643	4.856827
Stddev	.0008407	.001452	.04406	.001523	.001830	.002532	.022725
%RSD	.3554779	.0600957	.1871698	.1520880	.0760474	.2079480	.4679033
#1	.2372878	2.415137	23.58677	1.003058	2.405131	1.219661	4.847653
#2	.2356166	2.417611	23.52579	1.001208	2.408757	1.214801	4.882705
#3	.2366126	2.415057	23.50119	1.000037	2.406505	1.218466	4.840122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.411609	24.01962	2.412180	1.219589	24.38486	2.356961	2.438908
Stddev	.005622	.07132	.002801	.000702	.06540	.001775	.009082
%RSD	.2331036	.2969428	.1161020	.0575943	.2681946	.0752925	.3723705
#1	2.416482	24.10130	2.409589	1.219839	24.36819	2.358827	2.435196
#2	2.405459	23.96963	2.415151	1.218796	24.45698	2.355294	2.449257
#3	2.412885	23.98793	2.411800	1.220133	24.32941	2.356763	2.432270

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.02517	4.664237	4.848995	4.848139	4.639957	4.845405	4.716817
Stddev	.12068	.023131	.013221	.005104	.007477	.012926	.004249
%RSD	.5023173	.4959274	.2726623	.1052800	.1611439	.2667595	.0900747
#1	24.03747	4.675401	4.851469	4.853411	4.647928	4.830640	4.718344
#2	24.13924	4.637641	4.834712	4.843221	4.633099	4.854678	4.720091
#3	23.89881	4.679667	4.860805	4.847787	4.638845	4.850896	4.712016

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV01 Acquired: 12/20/2024 16:47:25 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.679284	4.557258	4.843941
Stddev	.000659	.012244	.023963
%RSD	.0140877	.2686801	.4947002
#1	4.679190	4.570614	4.855578
#2	4.679986	4.546564	4.859863
#3	4.678677	4.554594	4.816382

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2282.768	44097.81	6909.611	1915.639	3138.349
Stddev	6.978	179.33	14.504	12.079	6.594
%RSD	.3056942	.4066625	.2099047	.6305522	.2101103
#1	2275.616	44123.63	6893.439	1918.792	3132.574
#2	2289.559	43906.97	6913.928	1902.296	3136.938
#3	2283.129	44262.83	6921.466	1925.829	3145.534

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB01 Acquired: 12/20/2024 16:51:38 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000985	-.001205	.0002344	-.000589	.0028726	.0378517	.0139858
Stddev	.002311	.001353	.0004111	.002041	.0003600	.0179395	.0152349
%RSD	234.5890	112.2402	175.3905	346.8164	12.53299	47.39431	108.9314
#1	-.003485	-.000343	-.000154	.000761	.0032724	.0584732	.0308019
#2	.001073	-.000508	.000665	-.002937	.0027717	.0292415	.0100519
#3	-.000544	-.002765	.000193	.000410	.0025739	.0258403	.0011036

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001144	-.000009	.0469341	.0005802	.0000608	.0000551	.0193482
Stddev	.0000626	.000011	.0422986	.0001036	.0001146	.0001612	.0059326
%RSD	54.74005	121.8789	90.12348	17.85483	188.4999	292.3490	30.66209
#1	.0001863	-.000001	.0957725	.0004827	.0001761	.0001473	.0224068
#2	.0000844	-.000005	.0230394	.0005690	.0000593	.0001491	.0231274
#3	.0000724	-.000021	.0219903	.0006889	-.000053	-.000131	.0125105

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056049	.0519580	.0000602	-.000566	-.023704	.0047459	.0000957
Stddev	.0038406	.0243539	.0002652	.000526	.028878	.0026113	.0002509
%RSD	68.52251	46.87220	440.6388	92.95124	121.8298	55.02111	262.0850
#1	.0098026	.0759806	.0000440	-.001127	.009624	.0077611	.0002160
#2	.0047449	.0526075	.0003331	-.000083	-.039426	.0032554	.0002639
#3	.0022672	.0272859	-.000197	-.000488	-.041309	.0032213	-.000193

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1354320	.0059212	.0002999	.0085258	.0124415	.0212886	-.002030
Stddev	.0939622	.0010211	.0000937	.0005351	.0085391	.0152677	.001647
%RSD	69.37962	17.24469	31.23666	6.276235	68.63363	71.71764	81.15163
#1	.2439299	.0067782	.0004037	.0090988	.0217231	.0388230	-.001044
#2	.0809589	.0047914	.0002215	.0080391	.0106827	.0109366	-.003932
#3	.0814072	.0061940	.0002746	.0084396	.0049188	.0141063	-.001114

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB01 Acquired: 12/20/2024 16:51:38 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.007673	.0042404	.0099892
Stddev	.002413	.0081562	.0084278
%RSD	31.44592	192.3458	84.36853
#1	-.008233	.0132207	.0192936
#2	-.005029	.0022077	.0078066
#3	-.009757	-.002707	.0028675

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2334.216	45163.18	7079.302	1961.517	3395.316
Stddev	4.290	150.95	25.221	9.963	6.929
%RSD	.1837843	.3342351	.3562629	.5079428	.2040891
#1	2333.275	44989.06	7107.669	1950.420	3390.328
#2	2330.474	45243.32	7070.823	1969.694	3392.391
#3	2338.898	45257.16	7059.412	1964.438	3403.228

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5312-01 Acquired: 12/20/2024 16:55:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0180770	-.015358	.1101245	-.060444	-.000468	86.57956
Stddev	.0025861	.003481	.0012993	.002999	.001287	.12370
%RSD	14.30595	22.66548	1.179887	4.961858	275.1451	.1428732
#1	.0173667	-.011559	.1089282	-.056989	.000164	86.47544
#2	.0209440	-.016121	.1099386	-.062381	.000381	86.71630
#3	.0159203	-.018394	.1115069	-.061961	-.001948	86.54693

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3758341	.0072256	.0053367	210.2634	.2536135	.1915099
Stddev	.0013942	.0000186	.0001414	.3464	.0004722	.0005365
%RSD	.3709513	.2581420	2.649172	.1647322	.1861909	.2801193
#1	.3742834	.0072410	.0054981	210.1684	.2541577	.1910133
#2	.3769837	.0072309	.0052351	210.6474	.2533710	.1914376
#3	.3762353	.0072049	.0052767	209.9746	.2533118	.1920789

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6767693	272.0796	4.074962	67.16930	.2538281	-.006349
Stddev	.0013963	1.1407	.012378	.22454	.0003572	.000479
%RSD	.2063224	.4192477	.3037549	.3342880	.1407146	7.549265
#1	.6771422	270.8297	4.087342	67.20577	.2534704	-.006899
#2	.6752244	273.0644	4.074959	67.37337	.2538292	-.006021
#3	.6779414	272.3447	4.062586	66.92876	.2541847	-.006126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.973422	.3880989	.5665114	23.45669	.1787948	.0107475
Stddev	.035888	.0040289	.0009704	.11590	.0006982	.0001591
%RSD	.3999330	1.038102	.1712880	.4940823	.3904815	1.480136
#1	8.932021	.3905200	.5660711	23.32493	.1788137	.0106504
#2	8.995663	.3903287	.5676239	23.50233	.1794833	.0109311
#3	8.992583	.3834481	.5658393	23.54282	.1780873	.0106610

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5312-01 Acquired: 12/20/2024 16:55:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0003115	4.713208	F 16.64956	F 11.84387	F 17.24692	.0990277
Stddev	.0011581	.012360	.06689	.01504	.02516	.0007823
%RSD	371.7455	.2622343	.4017392	.1269701	.1458901	.7900244
#1	.0004219	4.705024	16.58156	11.85986	17.22650	.0981272
#2	.0014106	4.727425	16.65185	11.83000	17.23923	.0995402
#3	-.000898	4.707174	16.71527	11.84176	17.27503	.0994157

Elem	Sr4077
Units	ppm
Avg	.5486543
Stddev	.0011585
%RSD	.2111456
#1	.5499915
#2	.5480183
#3	.5479532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2724.228	52427.23	9205.243	2313.143	2926.927
Stddev	2.284	106.11	21.109	1.169	3.316
%RSD	.0838419	.2023964	.2293119	.0505361	.1132812
#1	2724.073	52486.13	9180.872	2312.041	2929.366
#2	2726.586	52490.83	9217.782	2314.369	2928.262
#3	2722.026	52304.73	9217.074	2313.019	2923.151

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-01 Acquired: 12/20/2024 17:00:06 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0266713	.0165809	.6727839	-.086038	.0030555	119.7459	.8861300
Stddev	.0029574	.0037422	.0027044	.003052	.0018534	.2989	.0028912
%RSD	11.08821	22.56957	.4019738	3.546764	60.65832	.2496038	.3262755
#1	.0233769	.0136606	.6698252	-.089197	.0015044	119.4133	.8837004
#2	.0290971	.0207993	.6733982	-.085812	.0025540	119.8322	.8853619
#3	.0275399	.0152827	.6751283	-.083106	.0051080	119.9921	.8893277

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321752	.0059699	27.46211	.3646447	.2320576	.3076097	418.4467
Stddev	.0000664	.0001112	.00903	.0001930	.0003450	.0026762	2.0091
%RSD	.2062631	1.861943	.0328743	.0529274	.1486813	.8700073	.4801285
#1	.0320987	.0059180	27.45181	.3647380	.2320422	.3062994	418.9276
#2	.0322172	.0060975	27.46863	.3647733	.2324101	.3106886	416.2408
#3	.0322097	.0058942	27.46590	.3644228	.2317206	.3058411	420.1717

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.252117	52.93885	.3902897	-.008701	3.425947	.3135116	.9278496
Stddev	.011212	.17631	.0016219	.000773	.005041	.0015596	.0023234
%RSD	.1793280	.3330459	.4155492	8.881678	.1471484	.4974686	.2504065
#1	6.239616	52.79417	.3891556	-.008834	3.428465	.3119596	.9302434
#2	6.261282	53.13523	.3895661	-.009400	3.420143	.3150788	.9256036
#3	6.255454	52.88716	.3921473	-.007871	3.429233	.3134966	.9277017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.94775	.2667629	.0013705	.0109249	4.112962	4.824778	5.252207
Stddev	.09225	.0035943	.0002893	.0006267	.012393	.013044	.012819
%RSD	.3555265	1.347381	21.10854	5.736762	.3013225	.2703444	.2440601
#1	26.02160	.2699220	.0015308	.0114353	4.098943	4.825915	5.257666
#2	25.84435	.2628522	.0010366	.0111139	4.117485	4.837216	5.237563
#3	25.97732	.2675144	.0015443	.0102253	4.122459	4.811203	5.261393

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-01 Acquired: 12/20/2024 17:00:06 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.3981429	.1655579	-.257946
Stddev	.0085145	.0008476	.001940
%RSD	2.138560	.5119746	.7522733
#1	.3977667	.1650523	-.258599
#2	.3898228	.1650850	-.255763
#3	.4068393	.1665365	-.259475

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2796.414	53464.34	9147.965	2370.797	3073.484
Stddev	6.469	47.92	10.871	3.027	4.620
%RSD	.2313211	.0896315	.1188326	.1276698	.1503308
#1	2793.618	53415.26	9158.889	2370.949	3071.442
#2	2791.813	53511.01	9137.148	2373.744	3070.237
#3	2803.810	53466.75	9147.857	2367.697	3078.774

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5316-01 Acquired: 12/20/2024 17:04:15 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0249260	.0027235	.0396355	-.009439	-.001381	8.986333
Stddev	.0013535	.0019408	.0006302	.004791	.000917	.046753
%RSD	5.430032	71.25922	1.590004	50.75379	66.40756	.5202712
#1	.0236087	.0024562	.0401692	-.014273	-.000372	9.035419
#2	.0248563	.0047841	.0389403	-.009351	-.001608	8.981252
#3	.0263130	.0009303	.0397972	-.004693	-.002163	8.942327

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1331921	.0017470	-.001194	4.035199	.0432696	.0266756
Stddev	.0007066	.0001121	.000061	.017621	.0005653	.0003650
%RSD	.5304726	6.415931	5.097437	.4366836	1.306373	1.368415
#1	.1331334	.0018528	-.001131	4.040326	.0429985	.0267065
#2	.1325168	.0017587	-.001196	4.049688	.0439194	.0262961
#3	.1339262	.0016295	-.001253	4.015583	.0428910	.0270241

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783536	52.31407	.6402164	2.270888	.0362381	-.000877
Stddev	.0003680	.26540	.0012290	.044959	.0002436	.000011
%RSD	.4696728	.5073184	.1919601	1.979794	.6721284	1.252496
#1	.0779286	52.61793	.6393423	2.313503	.0363744	-.000886
#2	.0785626	52.19658	.6416216	2.275257	.0359568	-.000865
#3	.0785694	52.12770	.6396853	2.223904	.0363829	-.000880

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.58399	.0456573	.1219354	1.708386	.0235747	.0077897
Stddev	.06854	.0011493	.0006225	.029698	.0010093	.0001420
%RSD	.3688283	2.517115	.5104858	1.738365	4.281412	1.822949
#1	18.61481	.0446235	.1225147	1.674370	.0247211	.0078062
#2	18.50544	.0454538	.1212773	1.729154	.0231836	.0076402
#3	18.63171	.0468948	.1220143	1.721635	.0228195	.0079227

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5316-01 Acquired: 12/20/2024 17:04:15 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0084656	.4500674	1.551667	.5693729	F 24.03111	.0025937
Stddev	.0011441	.0015544	.007208	.0021439	.01888	.0003573
%RSD	13.51472	.3453705	.4645449	.3765406	.0785601	13.77477
#1	.0073752	.4512999	1.559469	.5718167	24.03541	.0029781
#2	.0083648	.4483212	1.545255	.5678081	24.01045	.0025313
#3	.0096568	.4505812	1.550277	.5684941	24.04746	.0022717

Elem	Sr4077
Units	ppm
Avg	-.002469
Stddev	.000388
%RSD	15.69599
#1	-.002875
#2	-.002430
#3	-.002103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2412.921	46726.45	7716.384	2055.732	3315.168
Stddev	.632	54.86	24.207	9.580	2.501
%RSD	.0261793	.1174077	.3137096	.4659968	.0754452
#1	2412.872	46685.59	7734.006	2053.461	3316.630
#2	2412.316	46788.80	7688.783	2066.243	3316.594
#3	2413.576	46704.94	7726.363	2047.491	3312.280

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03 Acquired: 12/20/2024 17:08:28 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0677613	-.003586	.2804081	-.033533	.0006052	82.47797	.3859590
Stddev	.0042188	.001091	.0027332	.001110	.0018918	.24107	.0010758
%RSD	6.226011	30.41741	.9747374	3.310565	312.6149	.2922894	.2787473
#1	.0722095	-.003434	.2829667	-.032523	.0027784	82.36870	.3853813
#2	.0672572	-.002579	.2775285	-.034721	-.000290	82.31087	.3852953
#3	.0638171	-.004745	.2807291	-.033354	-.000673	82.75433	.3872002

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065622	.0013815	16.89519	.1588784	.0695483	.2324655	183.5258
Stddev	.0000507	.0000613	.04268	.0004817	.0001163	.0015776	.6489
%RSD	.7725434	4.436303	.2526337	.3032061	.1672500	.6786311	.3535524
#1	.0066033	.0013125	16.92133	.1584609	.0696109	.2340100	183.4109
#2	.0065778	.0014022	16.84593	.1594055	.0696199	.2308568	184.2244
#3	.0065055	.0014297	16.91830	.1587687	.0694141	.2325299	182.9420

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.948896	18.84906	.1366558	-.003588	1.628985	.2466974	.5221054
Stddev	.005558	.09226	.0005819	.000179	.018084	.0016563	.0019638
%RSD	.1884679	.4894736	.4258394	4.977961	1.110154	.6714039	.3761384
#1	2.945537	18.84165	.1367155	-.003784	1.636697	.2471570	.5222574
#2	2.945838	18.76073	.1360463	-.003434	1.641934	.2448597	.5239889
#3	2.955311	18.94480	.1372056	-.003547	1.608323	.2480753	.5200700

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.477433	.1021178	.0018902	.0057455	2.153993	6.092004	5.822220
Stddev	.048740	.0021247	.0002752	.0012293	.007025	.043800	.035508
%RSD	.8898360	2.080685	14.55719	21.39646	.3261612	.7189767	.6098658
#1	5.449104	.1024109	.0018648	.0052088	2.150696	6.060706	5.853433
#2	5.533713	.1040808	.0021772	.0071519	2.149222	6.142059	5.829637
#3	5.449483	.0998617	.0016286	.0048757	2.162060	6.073246	5.783589

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03 Acquired: 12/20/2024 17:08:28 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.509407	.0664334	-.098387
Stddev	.004439	.0012158	.000601
%RSD	.2940750	1.830042	.6103851
#1	1.504513	.0671043	-.098255
#2	1.513172	.0650300	-.099042
#3	1.510535	.0671658	-.097863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2678.509	51378.79	8660.270	2265.175	3182.715
Stddev	5.668	257.77	33.138	17.662	5.932
%RSD	.2116046	.5017078	.3826486	.7797006	.1863881
#1	2671.971	51453.02	8672.265	2257.513	3176.600
#2	2682.040	51092.04	8685.741	2252.638	3183.100
#3	2681.516	51591.30	8622.805	2285.374	3188.446

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5312-03 Acquired: 12/20/2024 17:12:34 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.1061460	-.030194	.1985001	-.072485	-.007079	131.7521
Stddev	.0023978	.002699	.0037221	.001536	.001071	.2183
%RSD	2.259007	8.939366	1.875099	2.118650	15.12198	.1656673
#1	.1066828	-.030282	.1987432	-.070767	-.008238	131.5393
#2	.1082299	-.027452	.2020947	-.072965	-.006127	131.7417
#3	.1035252	-.032849	.1946625	-.073724	-.006873	131.9754

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4981462	.0108588	.0177872	1193.126	.4187957	.0862326
Stddev	.0012926	.0000168	.0003318	4.052	.0005751	.0005110
%RSD	.2594861	.1549920	1.865141	.3396389	.1373298	.5926020
#1	.4978881	.0108555	.0181061	1191.684	.4194533	.0864206
#2	.4970020	.0108439	.0178115	1189.992	.4185474	.0856543
#3	.4995483	.0108771	.0174439	1197.702	.4183865	.0866230

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2021326	242.5385	3.571250	117.3954	.3784478	-.015227
Stddev	.0009533	.9932	.007077	.0848	.0004837	.000542
%RSD	.4715966	.4094995	.1981786	.0722581	.1278142	3.557215
#1	.2024475	242.3702	3.563326	117.3114	.3779040	-.015839
#2	.2028886	241.6402	3.573480	117.3937	.3786097	-.015034
#3	.2010618	243.6050	3.576944	117.4811	.3788299	-.014809

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.132798	.1690246	.3726749	24.73930	.2359883	.0432244
Stddev	.016218	.0008734	.0014641	.10461	.0010131	.0004481
%RSD	.3924215	.5167189	.3928511	.4228483	.4293156	1.036763
#1	4.139265	.1687674	.3720085	24.79801	.2369328	.0427336
#2	4.114345	.1699977	.3743536	24.61853	.2349182	.0436118
#3	4.144786	.1683087	.3716625	24.80137	.2361140	.0433278

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5312-03 Acquired: 12/20/2024 17:12:34 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0268638	4.385262	4.482917	9.413105	F 50.24123	-.010461
Stddev	.0007973	.008271	.022023	.019594	.06758	.000511
%RSD	2.967739	.1886187	.4912677	.2081542	.1345069	4.888512
#1	.0271729	4.382498	4.490455	9.434371	50.31721	-.010381
#2	.0259582	4.378726	4.458114	9.409158	50.21863	-.009993
#3	.0274601	4.394561	4.500180	9.395785	50.18784	-.011007

Elem	Sr4077
Units	ppm
Avg	4.479481
Stddev	.026097
%RSD	.5825818
#1	4.473851
#2	4.507933
#3	4.456659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.060	57405.01	10701.21	2553.919	2467.027
Stddev	3.500	83.18	19.90	5.673	1.357
%RSD	.1163917	.1448973	.1859761	.2221391	.0550239
#1	3006.456	57459.20	10721.95	2559.437	2465.971
#2	3003.902	57446.60	10682.27	2554.218	2468.558
#3	3010.823	57309.24	10699.43	2548.103	2466.552

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5279-02 Acquired: 12/20/2024 17:16:54 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.006105	-.005206	.0075132	.0017252	.0003511	.1232862	.1257057
Stddev	.002149	.000563	.0007128	.0015275	.0010578	.0028681	.0009991
%RSD	35.19788	10.81229	9.486699	88.54329	301.2968	2.326371	.7948086
#1	-.005295	-.005776	.0067030	.0034326	.0006273	.1208291	.1268014
#2	-.008541	-.005190	.0077932	.0012547	.0012433	.1264378	.1254705
#3	-.004478	-.004651	.0080435	.0004882	-.000817	.1225917	.1248451

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	.0002135	28.76676	.0016544	.0002610	.0062573	.1114237
Stddev	.000016	.0000960	.06604	.0002932	.0001970	.0001557	.0035288
%RSD	1108.371	44.95607	.2295833	17.72200	75.50211	2.488571	3.167021
#1	.000002	.0001931	28.78557	.0016566	.0000445	.0060873	.1123241
#2	-.000019	.0001293	28.69335	.0019466	.0003085	.0062917	.1144151
#3	.000012	.0003180	28.82136	.0013602	.0004299	.0063930	.1075319

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255790	2.547350	.0039285	-.000562	269.6074	-.000414	.4847730
Stddev	.0002619	.028525	.0002364	.000388	1.0891	.001242	.0013688
%RSD	1.023817	1.119779	6.018607	68.95619	.4039676	300.2005	.2823586
#1	.0256328	2.555134	.0040900	-.000127	268.8481	.000989	.4848691
#2	.0252944	2.515741	.0036571	-.000869	270.8553	-.000857	.4860912
#3	.0258098	2.571175	.0040383	-.000691	269.1189	-.001373	.4833587

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9357256	.0412105	-.000335	-.000951	.0023362	.9076905	.0204652
Stddev	.0566310	.0006330	.000306	.000331	.0005183	.0069030	.0019589
%RSD	6.052092	1.535911	91.24889	34.76365	22.18344	.7605023	9.572024
#1	.9962865	.0405679	-.000152	-.000965	.0017568	.9128710	.0187066
#2	.8840828	.0418334	-.000688	-.000614	.0027556	.8998540	.0201124
#3	.9268074	.0412303	-.000165	-.001275	.0024963	.9103466	.0225765

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5279-02 Acquired: 12/20/2024 17:16:54 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8837251	-.007839	.1410697
Stddev	.0071747	.000617	.0002737
%RSD	.8118728	7.873302	.1940290
#1	.8890706	-.008534	.1408220
#2	.8755709	-.007628	.1410235
#3	.8865337	-.007355	.1413636

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.541	42983.74	7414.514	1903.091	3056.981
Stddev	2.651	35.28	11.260	4.576	7.457
%RSD	.1177464	.0820808	.1518667	.2404384	.2439243
#1	2250.293	42967.21	7412.303	1904.268	3050.296
#2	2254.585	42959.75	7426.715	1898.041	3065.023
#3	2249.744	43024.25	7404.523	1906.963	3055.625

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5192-02 Acquired: 12/20/2024 17:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000046	-.001115	.0035598	-.000708	.0004574	.0694395	.0044242
Stddev	.002458	.001728	.0010153	.003815	.0006411	.0062885	.0005824
%RSD	5378.106	155.0284	28.52120	538.4464	140.1406	9.056041	13.16488
#1	-.002498	-.000947	.0023999	-.000338	.0011963	.0641866	.0049801
#2	.002418	-.002921	.0039923	.002907	.0000488	.0677242	.0038184
#3	-.000057	.000523	.0042873	-.004695	.0001272	.0764076	.0044741

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	-.000119	13.38584	.0025338	.0005835	.1123383	.8266704
Stddev	.000075	.000110	.00922	.0001620	.0001128	.0003985	.0069182
%RSD	866.1237	92.69280	.0689010	6.391508	19.32290	.3547537	.8368770
#1	-.000048	-.000222	13.37526	.0026992	.0005866	.1119667	.8186821
#2	-.000056	-.000003	13.39006	.0025268	.0006947	.1122891	.8307107
#3	.000077	-.000132	13.39220	.0023755	.0004692	.1127592	.8306183

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0590334	4.239874	.0035230	-.000423	76.11551	-.000787	.2130258
Stddev	.0004289	.043882	.0002438	.000255	.07125	.003079	.0010950
%RSD	.7266003	1.034982	6.920111	60.24812	.0936053	391.3011	.5140263
#1	.0585583	4.285398	.0034245	-.000179	76.03462	-.004263	.2142486
#2	.0591499	4.236380	.0033439	-.000688	76.16896	.001601	.2121356
#3	.0593921	4.197843	.0038007	-.000403	76.14295	.000300	.2126933

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.26788	.0082539	.0006962	.0019487	.0009928	3.971239	1.885796
Stddev	.06701	.0005466	.0003210	.0003294	.0004978	.013132	.004257
%RSD	.1899964	6.621885	46.10210	16.90389	50.13335	.3306782	.2257286
#1	35.19118	.0086556	.0010400	.0015693	.0005221	3.982329	1.889360
#2	35.29742	.0076315	.0006443	.0021613	.0015138	3.956738	1.881082
#3	35.31504	.0084747	.0004044	.0021157	.0009427	3.974650	1.886944

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5192-02 Acquired: 12/20/2024 17:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	8.210295	-.003802	.0695305
Stddev	.019053	.000795	.0000453
%RSD	.2320634	20.89986	.0651787
#1	8.206049	-.003418	.0695678
#2	8.193723	-.003271	.0695437
#3	8.231113	-.004715	.0694801

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2367.184	45530.40	7404.706	1981.480	3335.387
Stddev	1.686	11.17	12.313	7.237	1.613
%RSD	.0712141	.0245306	.1662858	.3652154	.0483677
#1	2368.490	45523.27	7390.513	1978.756	3333.813
#2	2365.281	45524.66	7411.078	1976.001	3337.037
#3	2367.781	45543.27	7412.528	1989.684	3335.312

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01 Acquired: 12/20/2024 17:25:37 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001215	-.000537	.0397202	-.000183	.0007332	.1089106	.0242228
Stddev	.003766	.001794	.0011811	.003002	.0018769	.0132836	.0009758
%RSD	310.0155	333.9109	2.973550	1639.505	255.9885	12.19676	4.028448
#1	-.002003	.000425	.0392441	-.002663	-.001367	.1054520	.0233220
#2	.002883	-.002607	.0410651	.003155	.002246	.0976985	.0252594
#3	-.004523	.000570	.0388515	-.001041	.001321	.1235814	.0240869

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000021	-.000000	13.07363	.0125383	.0001018	.7400347	.5778702
Stddev	.0000448	.000034	.06207	.0008815	.0001185	.0007491	.0026340
%RSD	2155.182	11137.48	.4747662	7.030436	116.4667	.1012271	.4558043
#1	-.000001	-.000036	13.07396	.0135317	-.000022	.7401043	.5808670
#2	-.000041	.000033	13.13553	.0118493	.000113	.7407467	.5759221
#3	.000048	.000002	13.01139	.0122340	.000214	.7392533	.5768216

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0766765	3.020422	.0223864	.0229952	115.2829	-.001421	.2940448
Stddev	.0006127	.014953	.0004100	.0001567	.9293	.002201	.0006245
%RSD	.7990916	.4950534	1.831531	.6812834	.8061198	154.8954	.2123881
#1	.0773208	3.034602	.0220904	.0231244	114.3331	-.003367	.2933606
#2	.0766076	3.004801	.0228544	.0230404	115.3255	-.001862	.2941898
#3	.0761012	3.021862	.0222146	.0228210	116.1902	.000967	.2945841

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.320557	4.853621	.0001544	.0081439	.0051545	3.081883	1.668199
Stddev	.068562	.044747	.0001787	.0009067	.0013150	.025703	.005484
%RSD	2.064760	.9219256	115.7844	11.13335	25.51245	.8339893	.3287234
#1	3.313556	4.891794	.0000271	.0090116	.0065215	3.053449	1.673769
#2	3.255764	4.864691	.0003587	.0082175	.0050438	3.088737	1.668023
#3	3.392350	4.804378	.0000773	.0072027	.0038984	3.103464	1.662805

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01 Acquired: 12/20/2024 17:25:37 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.179391	-.001113	.0446928
Stddev	.005655	.000793	.0002003
%RSD	.1778776	71.27879	.4481752
#1	3.179290	-.001701	.0447241
#2	3.185097	-.000211	.0448756
#3	3.173787	-.001427	.0444787

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2370.469	45456.08	7565.840	1998.940	3310.099
Stddev	5.568	107.32	48.922	5.974	9.029
%RSD	.2348899	.2360940	.6466206	.2988413	.2727633
#1	2364.065	45579.48	7532.154	1997.335	3300.244
#2	2373.175	45404.21	7543.410	1993.934	3312.084
#3	2374.167	45384.55	7621.956	2005.553	3317.971

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV02 Acquired: 12/20/2024 17:29:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	5.010131	4.928227	4.967964	5.017052	4.991683	9.649644	9.238932
Stddev	.012745	.030845	.005679	.010026	.009854	.044722	.024684
%RSD	.2543831	.6258842	.1143176	.1998376	.1973987	.4634525	.2671761
#1	4.999864	4.916295	4.966348	5.007005	4.980309	9.598021	9.219962
#2	5.006133	4.963255	4.963268	5.017094	4.997137	9.676586	9.266840
#3	5.024395	4.905129	4.974277	5.027057	4.997604	9.674327	9.229993

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2423946	2.488948	23.94516	1.021651	2.472989	1.258861	4.900827
Stddev	.0006780	.001951	.06262	.001667	.000807	.002811	.053532
%RSD	.2797139	.0784057	.2615327	.1631521	.0326282	.2232745	1.092297
#1	.2423985	2.487752	23.87608	1.022365	2.473802	1.256071	4.857221
#2	.2417147	2.487893	23.99822	1.022842	2.472188	1.258821	4.960571
#3	.2430707	2.491200	23.96117	1.019746	2.472977	1.261692	4.884689

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.464164	24.26317	2.484042	1.254553	25.20025	2.394934	2.501852
Stddev	.007312	.02672	.001989	.002516	.12100	.004963	.002985
%RSD	.2967179	.1101157	.0800770	.2005476	.4801396	.2072419	.1193122
#1	2.456943	24.29270	2.484089	1.253963	25.17387	2.391560	2.504731
#2	2.471563	24.25612	2.482030	1.257311	25.33226	2.392608	2.502054
#3	2.463987	24.24068	2.486007	1.252384	25.09463	2.400633	2.498771

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.56666	4.763177	4.914746	4.995610	4.693582	4.947437	4.967096
Stddev	.14535	.028358	.005770	.002688	.010134	.028380	.008401
%RSD	.5916552	.5953589	.1173998	.0538137	.2159194	.5736258	.1691420
#1	24.51019	4.754057	4.908372	4.992823	4.681929	4.960456	4.962381
#2	24.73177	4.740501	4.916254	4.995821	4.700337	4.966972	4.976796
#3	24.45802	4.794973	4.919612	4.998187	4.698480	4.914884	4.962111

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV02 Acquired: 12/20/2024 17:29:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.952562	4.593495	4.937142
Stddev	.016602	.006242	.028324
%RSD	.3352111	.1358985	.5736993
#1	4.958611	4.588957	4.907618
#2	4.965290	4.590914	4.939717
#3	4.933784	4.600614	4.964091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2250.530	43486.71	6895.327	1900.214	3068.294
Stddev	4.378	219.61	17.727	7.101	5.171
%RSD	.1945466	.5050131	.2570832	.3736787	.1685294
#1	2248.661	43333.06	6876.621	1894.503	3064.067
#2	2247.397	43388.82	6911.878	1897.974	3066.755
#3	2255.533	43738.24	6897.482	1908.164	3074.060

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB02 Acquired: 12/20/2024 17:34:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0007204	.0026461	-.000431	.0007728	.0014144	.0015966	-.001268
Stddev	.0027768	.0015278	.001028	.0030551	.0014659	.0051562	.000349
%RSD	385.4324	57.73830	238.8234	395.3385	103.6468	322.9415	27.54300
#1	.0030708	.0024550	.000375	-.000851	.0008901	.0056752	-.001246
#2	-.002344	.0042604	-.001589	-.001128	.0030703	.0033137	-.001628
#3	.001434	.0012228	-.000078	.004297	.0002826	-.004199	-.000931

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000611	-.000046	-.002827	.0000256	-.000137	-.000559	.0119543
Stddev	.0000052	.000107	.002422	.0002785	.000078	.000217	.0004606
%RSD	8.442549	232.8138	85.66239	1088.008	56.88695	38.74829	3.852693
#1	.0000599	-.000152	-.004669	.0003426	-.000047	-.000570	.0120735
#2	.0000567	-.000049	-.003729	-.000180	-.000189	-.000337	.0114459
#3	.0000668	.000063	-.000084	-.000086	-.000175	-.000770	.0123436

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000362	-.003950	-.000263	-.000424	.0193517	-.002856	.0002470
Stddev	.0005578	.022726	.000444	.000227	.0106647	.001496	.0000317
%RSD	1540.927	575.4038	168.8761	53.58247	55.11016	52.38831	12.82976
#1	-.000439	.012153	-.000574	-.000216	.0074671	-.002507	.0002801
#2	.000650	.005943	-.000461	-.000389	.0225005	-.004496	.0002170
#3	-.000102	-.029946	.000246	-.000667	.0280875	-.001565	.0002439

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1229561	.0084582	-.000062	.0084164	.0008729	.0139037	-.000743
Stddev	.0837937	.0004744	.000151	.0006995	.0005062	.0042214	.003465
%RSD	68.14929	5.608474	242.9848	8.311107	57.98736	30.36180	466.1990
#1	.1483266	.0089007	.000093	.0076996	.0008258	.0175694	.000740
#2	.1911328	.0079574	-.000210	.0090972	.0003919	.0092883	.001733
#3	.0294090	.0085165	-.000069	.0084524	.0014009	.0148535	-.004703

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB02 Acquired: 12/20/2024 17:34:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.002499	-.002353	-.000201
Stddev	.001035	.000237	.000032
%RSD	41.41188	10.08552	16.08090
#1	-.002773	-.002304	-.000165
#2	-.001355	-.002144	-.000211
#3	-.003369	-.002611	-.000228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2380.652	45700.20	7302.181	2015.901	3476.273
Stddev	3.529	145.68	67.283	4.612	1.353
%RSD	.1482361	.3187672	.9214069	.2288028	.0389085
#1	2379.579	45647.19	7228.282	2011.313	3476.407
#2	2384.593	45588.45	7359.896	2015.850	3474.859
#3	2377.784	45864.96	7318.365	2020.538	3477.554

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165738BL Acquired: 12/20/2024 17:38:25 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001436	-.000807	.0006650	.0011606	.0005709	.0019799	-.002579
Stddev	.002791	.000806	.0000850	.0008616	.0010136	.0099362	.000502
%RSD	194.4009	99.90048	12.78456	74.24213	177.5615	501.8651	19.45303
#1	.000150	-.000195	.0006643	.0003694	-.000414	.0042026	-.002257
#2	-.004659	-.000506	.0007504	.0020786	.001611	.0106164	-.003156
#3	.000201	-.001721	.0005803	.0010337	.000515	-.008879	-.002322

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000678	-.000068	-.014766	-.000134	.0000937	-.000100	-.000618
Stddev	.0000782	.000033	.002101	.000209	.0001539	.000039	.007890
%RSD	115.4233	48.84819	14.22924	156.5239	164.2443	39.34579	1276.775
#1	.0000038	-.000098	-.012550	.000098	.0002588	-.000125	.003812
#2	.0000446	-.000072	-.016730	-.000192	-.000046	-.000121	.004061
#3	.0001550	-.000033	-.015017	-.000307	.000068	-.000055	-.009727

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000155	-.002677	-.000239	.0000049	-.009542	-.004595	-.002835
Stddev	.000214	.015891	.000198	.0001044	.002852	.001702	.000316
%RSD	137.9363	593.6267	82.76451	2131.211	29.89209	37.03624	11.15964
#1	-.000294	-.020736	-.000395	-.000062	-.012179	-.006446	-.003135
#2	.000091	.009168	-.000305	-.000049	-.006515	-.003099	-.002505
#3	-.000263	.003537	-.000017	.000125	-.009933	-.004239	-.002864

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0952915	.0008820	-.000248	-.000216	.0004874	.0015075	-.001975
Stddev	.0667518	.0008085	.000009	.000796	.0006202	.0044143	.001454
%RSD	70.05015	91.66743	3.768730	368.8279	127.2480	292.8206	73.63032
#1	.1013496	.0017027	-.000247	-.000796	.0006481	.0052311	-.003205
#2	.0257171	.0000864	-.000239	.000692	-.000197	-.003369	-.002349
#3	.1588077	.0008567	-.000258	-.000544	.001011	.002660	-.000370

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165738BL Acquired: 12/20/2024 17:38:25 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.005918	-.001779	-.000275
Stddev	.001773	.000917	.000027
%RSD	29.95836	51.53978	10.00197
#1	-.005033	-.002640	-.000284
#2	-.004762	-.001884	-.000296
#3	-.007959	-.000814	-.000244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.586	46013.94	7376.065	2031.499	3531.008
Stddev	4.798	83.32	27.755	3.230	6.281
%RSD	.1992686	.1810687	.3762825	.1589817	.1778707
#1	2402.048	45972.72	7348.938	2030.852	3525.721
#2	2410.259	46109.83	7404.407	2028.643	3529.353
#3	2410.452	45959.27	7374.850	2035.004	3537.951

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165738BS Acquired: 12/20/2024 17:42:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8082064	1.974345	.9746658	1.981637	.7821736	1.851714
Stddev	.0014034	.012847	.0007131	.007029	.0015691	.010073
%RSD	.1736463	.6506882	.0731604	.3546957	.2006014	.5439825
#1	.8092229	1.968957	.9750081	1.989132	.7838408	1.853202
#2	.8087911	1.965069	.9738461	1.975193	.7807259	1.860961
#3	.8066052	1.989008	.9751431	1.980585	.7819540	1.840980

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1751201	.1903258	.1942103	.9389035	.4089919	.1951323
Stddev	.0002582	.0004387	.0002137	.0122787	.0011036	.0001522
%RSD	.1474544	.2305105	.1100232	1.307772	.2698296	.0779878
#1	.1752188	.1904024	.1941567	.9310830	.4102316	.1949576
#2	.1753145	.1898538	.1940285	.9325719	.4086275	.1952038
#3	.1748271	.1907211	.1944456	.9530557	.4081167	.1952356

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3083900	2.941228	.1951330	1.878177	.4930442	.0742860
Stddev	.0004412	.007922	.0012204	.014788	.0007919	.0006311
%RSD	.1430692	.2693283	.6254388	.7873527	.1606141	.8495716
#1	.3088993	2.947839	.1960919	1.876624	.4923780	.0748464
#2	.3081240	2.932448	.1937592	1.864226	.4928349	.0736023
#3	.3081467	2.943398	.1955478	1.893680	.4939197	.0744093

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.955813	.2747195	.1997847	9.635120	.2747013	.3942351
Stddev	.019374	.0007804	.0007116	.033553	.0011331	.0004228
%RSD	.6554507	.2840732	.3561749	.3482344	.4124706	.1072328
#1	2.970312	.2744114	.2005077	9.670482	.2757459	.3940304
#2	2.963317	.2741401	.1990851	9.603730	.2748611	.3947213
#3	2.933809	.2756069	.1997613	9.631146	.2734968	.3939538

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165738BS Acquired: 12/20/2024 17:42:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6778623	.1828936	F .7307645	5.607950	F -.017366	.1850720
Stddev	.0007433	.0003048	.0082241	.012075	.002657	.0018380
%RSD	.1096507	.1666754	1.125408	.2153238	15.29843	.9931480
#1	.6786059	.1827102	.7301868	5.600754	-.020323	.1835277
#2	.6771193	.1832455	.7228445	5.601205	-.016593	.1845833
#3	.6778618	.1827251	.7392622	5.621891	-.015181	.1871050

Elem	Sr4077
Units	ppm
Avg	.1888491
Stddev	.0003372
%RSD	.1785737
#1	.1891974
#2	.1885241
#3	.1888257

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2353.914	45852.38	7277.279	2002.999	3361.099
Stddev	2.269	167.11	25.187	8.048	.361
%RSD	.0964056	.3644612	.3461039	.4018157	.0107400
#1	2351.402	45662.02	7261.380	1993.887	3361.265
#2	2355.816	45974.92	7306.319	2005.974	3361.347
#3	2354.524	45920.21	7264.139	2009.137	3360.685

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165754BL Acquired: 12/20/2024 17:46:47 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000461	.0000220	.0005529	-.000142	-.000141	.0014965	-.001941
Stddev	.004262	.0016062	.0002453	.001792	.000810	.0022933	.000632
%RSD	924.1499	7289.575	44.36213	1259.797	576.1674	153.2495	32.54238
#1	.002217	-.001265	.0006873	-.002079	.000665	-.000891	-.002352
#2	.001775	.001822	.0002698	.001458	-.000954	.001697	-.002256
#3	-.005375	-.000491	.0007015	.000194	-.000133	.003683	-.001214

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	-.000030	-.018933	-.000060	-.000226	-.000164	-.003918
Stddev	.000032	.000093	.007675	.000069	.000153	.000132	.005274
%RSD	1427.773	305.2070	40.53644	115.0452	67.64437	80.71398	134.6015
#1	-.000035	.000074	-.016212	.000010	-.000218	-.000267	-.009836
#2	.000028	-.000060	-.027598	-.000127	-.000383	-.000211	-.002205
#3	.000001	-.000105	-.012990	-.000061	-.000077	-.000015	.000286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000460	.0007048	.0000631	-.000184	-.016448	-.003956	-.002952
Stddev	.000251	.0087398	.0001316	.000512	.008170	.001042	.000222
%RSD	54.53978	1239.993	208.6022	278.7938	49.67312	26.34131	7.517443
#1	-.000692	.0106282	.0000094	-.000500	-.024175	-.004910	-.002868
#2	-.000194	-.005847	.0002130	-.000458	-.007897	-.004113	-.003203
#3	-.000493	-.002667	-.000033	.000407	-.017272	-.002844	-.002784

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0834650	-.004274	-.000200	-.001097	.0006581	.0033635	-.001545
Stddev	.0128826	.000497	.000098	.000280	.0004847	.0073567	.003120
%RSD	15.43476	11.62733	49.21212	25.52765	73.65713	218.7232	201.9399
#1	.0982193	-.003727	-.000264	-.001031	.0004224	.0046466	.000712
#2	.0777293	-.004697	-.000087	-.000856	.0012156	-.004550	-.000241
#3	.0744463	-.004400	-.000248	-.001405	.0003363	.009994	-.005106

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165754BL Acquired: 12/20/2024 17:46:47 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.008442	-.003617	-.000353
Stddev	.004883	.001252	.000058
%RSD	57.84515	34.60692	16.39334
#1	-.009132	-.002180	-.000287
#2	-.003251	-.004199	-.000395
#3	-.012945	-.004473	-.000376

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.731	46469.31	7374.260	2034.748	3607.751
Stddev	2.267	59.25	26.222	.376	2.828
%RSD	.0932624	.1275131	.3555938	.0184733	.0783900
#1	2428.637	46423.77	7402.700	2034.939	3610.259
#2	2433.138	46536.30	7351.041	2034.314	3604.686
#3	2430.418	46447.86	7369.038	2034.989	3608.308

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165754BS Acquired: 12/20/2024 17:51:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7767411	1.924772	.9418754	1.888892	.7558245	1.817978
Stddev	.0048324	.011003	.0009574	.005058	.0002174	.010309
%RSD	.6221364	.5716354	.1016471	.2677683	.0287576	.5670514
#1	.7739061	1.912081	.9423141	1.887287	.7558381	1.806945
#2	.7823208	1.931619	.9407773	1.884831	.7560348	1.827365
#3	.7739963	1.930617	.9425349	1.894557	.7556007	1.819625

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1719704	.1879879	.1870532	.9318919	.4028983	.1893246
Stddev	.0000150	.0004940	.0001119	.0072257	.0016323	.0005099
%RSD	.0087424	.2627893	.0597991	.7753747	.4051266	.2693103
#1	.1719648	.1876214	.1871442	.9253354	.4047682	.1896742
#2	.1719874	.1877926	.1870870	.9307013	.4021672	.1887395
#3	.1719590	.1885497	.1869283	.9396389	.4017593	.1895599

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2999665	2.898040	.1912679	1.888404	.4763638	.0736586
Stddev	.0003961	.002970	.0009230	.028357	.0006224	.0002778
%RSD	.1320569	.1024858	.4825533	1.501629	.1306455	.3770857
#1	.3001538	2.899187	.1906943	1.879879	.4770680	.0738303
#2	.2995114	2.894668	.1907768	1.920046	.4758874	.0738073
#3	.3002342	2.900266	.1923325	1.865288	.4761361	.0733382

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.881065	.2721269	.1963357	9.448266	.2662196	.3875497
Stddev	.011937	.0061283	.0004240	.015124	.0016995	.0009070
%RSD	.4143121	2.251991	.2159605	.1600695	.6383966	.2340387
#1	2.890925	.2784233	.1968052	9.430947	.2651935	.3867743
#2	2.884476	.2717756	.1962212	9.458870	.2652838	.3873277
#3	2.867795	.2661819	.1959807	9.454981	.2681813	.3885471

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165754BS Acquired: 12/20/2024 17:51:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6548109	.1798488	F .7248312	5.359182	F -.022390	.1818709
Stddev	.0014561	.0006583	.0097236	.003164	.003893	.0011226
%RSD	.2223726	.3660106	1.341501	.0590296	17.38701	.6172617
#1	.6564124	.1796098	.7359988	5.356361	-.020165	.1818499
#2	.6544537	.1793435	.7202527	5.358582	-.020119	.1830039
#3	.6535667	.1805932	.7182419	5.362602	-.026885	.1807590

Elem	Sr4077
Units	ppm
Avg	.1859232
Stddev	.0002990
%RSD	.1608169
#1	.1857326
#2	.1862678
#3	.1857693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2376.815	45570.85	7195.025	1991.157	3432.752
Stddev	5.318	189.21	12.325	8.499	5.285
%RSD	.2237261	.4152025	.1713044	.4268445	.1539553
#1	2373.611	45352.41	7187.300	1992.557	3428.989
#2	2382.953	45683.99	7209.239	1982.045	3438.794
#3	2373.882	45676.14	7188.535	1998.869	3430.474

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165720BL Acquired: 12/20/2024 17:55:11 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0017080	-.000398	.0006486	.0005075	.0000492	.0022778	-.002889
Stddev	.0032993	.001729	.0009293	.0032491	.0017385	.0019637	.000847
%RSD	193.1646	434.6242	143.2819	640.1966	3534.622	86.21157	29.31229
#1	.0032854	-.002226	.0011086	.0004730	.0008276	.0040101	-.003856
#2	-.002084	.001211	-.000421	-.002724	.0012625	.0001446	-.002279
#3	.003923	-.000178	.001258	.003774	-.001943	.0026786	-.002533

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000702	-.000113	-.011167	.0000083	-.000158	-.000198	-.002591
Stddev	.0000208	.000109	.011075	.0001785	.000064	.000433	.002351
%RSD	29.64819	95.92280	99.17638	2138.556	40.75905	218.2199	90.72584
#1	.0000576	-.000203	-.017529	-.000051	-.000101	.000278	-.004115
#2	.0000587	-.000145	.001621	.000209	-.000145	-.000307	-.003773
#3	.0000942	.000008	-.017594	-.000133	-.000228	-.000566	.000116

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000281	.0044888	-.000162	-.000557	-.032137	-.003149	-.003007
Stddev	.000094	.0089477	.000178	.000377	.014519	.000923	.000345
%RSD	33.46296	199.3333	109.9598	67.72913	45.17702	29.30503	11.48636
#1	-.000388	-.001220	-.000343	-.000657	-.041495	-.003069	-.002908
#2	-.000218	.014801	.000013	-.000874	-.015412	-.002268	-.003391
#3	-.000236	-.000115	-.000156	-.000140	-.039505	-.004109	-.002722

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0928150	-.006600	-.000178	-.000591	.0009898	-.009532	-.000061
Stddev	.0459273	.000502	.000185	.000405	.0005775	.004827	.002668
%RSD	49.48262	7.601944	104.1510	68.39384	58.34174	50.64130	4389.975
#1	.0850705	-.006978	-.000302	-.000920	.0004769	-.007938	.001236
#2	.0512524	-.006031	.000035	-.000715	.0008773	-.014954	.001711
#3	.1421223	-.006792	-.000266	-.000140	.0016152	-.005703	-.003130

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165720BL Acquired: 12/20/2024 17:55:11 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.008681	-.002987	-.000252
Stddev	.001829	.000673	.000029
%RSD	21.06763	22.52609	11.35624
#1	-.006792	-.002267	-.000263
#2	-.008807	-.003095	-.000274
#3	-.010443	-.003600	-.000220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2340.004	45568.59	7213.359	1973.305	3398.770
Stddev	2.700	125.80	8.826	5.790	2.378
%RSD	.1154015	.2760770	.1223632	.2934220	.0699582
#1	2343.063	45649.43	7213.455	1973.806	3396.029
#2	2337.952	45423.65	7222.136	1967.280	3400.007
#3	2338.998	45632.70	7204.484	1978.828	3400.275

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165720BS Acquired: 12/20/2024 17:59:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7938573	1.957461	.9579900	1.936576	.7738371	1.830628
Stddev	.0043274	.013253	.0020299	.005419	.0010152	.011881
%RSD	.5451129	.6770481	.2118928	.2798364	.1311836	.6490036
#1	.7915322	1.944371	.9556942	1.930319	.7749969	1.826275
#2	.7911894	1.957143	.9595471	1.939757	.7731097	1.821537
#3	.7988503	1.970871	.9587287	1.939652	.7734049	1.844071

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1760813	.1907849	.1908771	.9542769	.4075482	.1924510
Stddev	.0012914	.0002330	.0003274	.0080573	.0010328	.0005041
%RSD	.7334177	.1221153	.1715137	.8443385	.2534285	.2619517
#1	.1765027	.1908999	.1906176	.9493978	.4085645	.1923883
#2	.1746318	.1909381	.1907688	.9498559	.4064996	.1919812
#3	.1771094	.1905168	.1912450	.9635769	.4075806	.1929836

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3058457	2.927996	.1929616	1.871275	.4856436	.0742980
Stddev	.0010963	.022084	.0010587	.023085	.0007655	.0000328
%RSD	.3584391	.7542224	.5486454	1.233645	.1576311	.0442071
#1	.3048538	2.933170	.1924878	1.860086	.4848635	.0743187
#2	.3056603	2.903785	.1922224	1.897822	.4856737	.0742602
#3	.3070228	2.947034	.1941744	1.855917	.4863937	.0743152

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.930130	.2759788	.2001095	9.532402	.2690210	.3936608
Stddev	.014766	.0032298	.0007881	.034665	.0005882	.0010347
%RSD	.5039362	1.170308	.3938364	.3636568	.2186473	.2628316
#1	2.923812	.2731187	.2009885	9.497131	.2690799	.3931739
#2	2.919574	.2794816	.1998740	9.533646	.2695776	.3929593
#3	2.947004	.2753361	.1994659	9.566428	.2684056	.3948491

Sample Name: PB165720BS Acquired: 12/20/2024 17:59:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6674527	.1836327	F .7315797	5.517043	F -.020283	.1834674
Stddev	.0036709	.0004383	.0175705	.013832	.005086	.0003909
%RSD	.5499824	.2387002	2.401714	.2507144	25.07605	.2130700
#1	.6662409	.1841364	.7141444	5.507513	-.025373	.1831111
#2	.6645409	.1833379	.7492822	5.510707	-.020275	.1838855
#3	.6715763	.1834238	.7313126	5.532908	-.015201	.1834054

Elem	Sr4077
Units	ppm
Avg	.1860240
Stddev	.0004352
%RSD	.2339574
#1	.1856845
#2	.1858729
#3	.1865147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2360.751	45664.02	7205.904	1985.575	3396.250
Stddev	4.863	60.97	12.528	1.697	1.560
%RSD	.2060094	.1335132	.1738635	.0854760	.0459240
#1	2355.137	45616.73	7191.505	1987.221	3394.453
#2	2363.697	45642.50	7211.888	1985.673	3397.044
#3	2363.418	45732.83	7214.318	1983.831	3397.252

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165679TB Acquired: 12/20/2024 18:03:35 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001450	-.003683	-.000547	.0002646	.0006952	.0022411
Stddev	.002180	.002314	.000279	.0022689	.0012250	.0073842
%RSD	150.3376	62.83085	51.05617	857.6609	176.2007	329.4961
#1	-.000297	-.001529	-.000867	-.002299	.0021079	-.002970
#2	-.000089	-.003391	-.000353	.001079	.0000524	.010691
#3	-.003965	-.006130	-.000420	.002014	-.000075	-.000998

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002084	.0000080	-.000127	.0132320	.0005126	-.000132
Stddev	.000182	.0000178	.000022	.0028278	.0005871	.000076
%RSD	8.727104	223.5389	17.40720	21.37117	114.5395	57.53663
#1	-.001887	-.000006	-.000127	.0100286	.0010248	-.000045
#2	-.002117	.000001	-.000149	.0153818	-.000128	-.000187
#3	-.002246	.000028	-.000105	.0142856	.000641	-.000165

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001906	.0140073	.0015424	-.011497	.0009229	-.000257
Stddev	.0002642	.0041944	.0002889	.025428	.0001919	.000101
%RSD	138.6465	29.94417	18.73117	221.1790	20.79348	39.31322
#1	.0003512	.0168383	.0012094	.013595	.0010681	-.000364
#2	.0003349	.0091886	.0017266	-.037249	.0007053	-.000163
#3	-.000114	.0159950	.0016911	-.010836	.0009952	-.000244

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 310.9886	-.002690	.0015569	.1533661	-.008629	-.000517
Stddev	3.1720	.001411	.0001362	.0473726	.000861	.000119
%RSD	1.019977	52.43783	8.745769	30.88860	9.980601	23.08024
#1	314.4594	-.003145	.0014834	.1337487	-.009565	-.000622
#2	308.2399	-.003817	.0017141	.1189533	-.008452	-.000542
#3	310.2664	-.001108	.0014733	.2073962	-.007871	-.000387

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165679TB Acquired: 12/20/2024 18:03:35 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0007241	.0008097	.0109173	.0007405	F .0387119	-.003719
Stddev	.0008933	.0005627	.0093014	.0017829	.0034274	.001360
%RSD	123.3563	69.49363	85.19884	240.7539	8.853672	36.56212
#1	.0013313	.0009134	.0014235	.0025841	.0371155	-.002586
#2	-.000302	.0002024	.0113149	.0006123	.0426463	-.005227
#3	.001143	.0013134	.0200137	-.000975	.0363740	-.003344

Elem	Sr4077
Units	ppm
Avg	-.000173
Stddev	.000012
%RSD	6.677064
#1	-.000168
#2	-.000164
#3	-.000186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2274.204	43115.70	7429.461	1927.471	3084.142
Stddev	3.961	76.49	21.307	5.329	3.321
%RSD	.1741723	.1774089	.2867894	.2764952	.1076699
#1	2270.427	43202.55	7448.120	1921.768	3081.925
#2	2278.327	43086.17	7406.244	1928.318	3087.960
#3	2273.860	43058.36	7434.017	1932.326	3082.542

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165680TB Acquired: 12/20/2024 18:08:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.004030	-.005114	-.000225	.0015795	.0003168	.0001319
Stddev	.001085	.000786	.000509	.0025863	.0003970	.0102478
%RSD	26.91635	15.36589	226.2953	163.7434	125.3214	7769.389
#1	-.002783	-.005367	.000149	.0038405	.0000374	.0059134
#2	-.004549	-.005741	-.000804	.0021386	.0001418	.0061825
#3	-.004757	-.004232	-.000019	-.001241	.0007713	-.011700

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001666	-.000073	-.000190	.0095354	.0005403	-.000279
Stddev	.000557	.000043	.000168	.0120690	.0004193	.000093
%RSD	33.45820	58.35429	88.00104	126.5713	77.59535	33.26735
#1	-.001906	-.000043	-.000088	.0234662	.0010162	-.000352
#2	-.001028	-.000054	-.000099	.0022385	.0002252	-.000311
#3	-.002062	-.000122	-.000384	.0029013	.0003796	-.000174

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000355	.0047986	.0014061	-.009875	.0007811	-.000284
Stddev	.0002918	.0020151	.0001519	.018408	.0002657	.000324
%RSD	822.1923	41.99296	10.79988	186.4091	34.01642	113.9802
#1	-.000299	.0035700	.0014379	-.019469	.0010869	.000082
#2	.000168	.0037016	.0015396	-.021505	.0006065	-.000402
#3	.000238	.0071241	.0012409	.011348	.0006500	-.000532

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 308.2473	-.002904	.0013173	.0730304	-.009407	-.000154
Stddev	.8170	.001545	.0002730	.0220978	.000331	.000314
%RSD	.2650371	53.19359	20.72621	30.25841	3.515783	203.2843
#1	308.5010	-.004625	.0010566	.0691614	-.009756	-.000515
#2	307.3336	-.001637	.0012940	.0531226	-.009098	-.000005
#3	308.9074	-.002450	.0016011	.0968073	-.009369	.000057

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165680TB Acquired: 12/20/2024 18:08:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0006084	.0014767	.0111297	.0027866	F .0294496	-.003595
Stddev	.0009444	.0005179	.0135009	.0053127	.0019360	.000909
%RSD	155.2428	35.06919	121.3059	190.6518	6.574019	25.29509
#1	.0009134	.0019440	.0151582	.0058939	.0307212	-.004378
#2	-.000451	.0009199	-.003927	.0058138	.0304062	-.002597
#3	.001363	.0015662	.022158	-.003348	.0272215	-.003810

Elem	Sr4077
Units	ppm
Avg	-.000277
Stddev	.000041
%RSD	14.71373
#1	-.000236
#2	-.000276
#3	-.000318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2299.459	43679.32	7463.850	1949.643	3151.400
Stddev	5.957	56.20	26.608	1.429	5.904
%RSD	.2590816	.1286737	.3564882	.0732941	.1873490
#1	2292.580	43625.27	7489.783	1950.903	3144.584
#2	2302.976	43737.46	7465.153	1948.090	3154.952
#3	2302.820	43675.22	7436.615	1949.935	3154.663

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV03 Acquired: 12/20/2024 18:12:33 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.961050	4.945962	4.947884	4.961241	4.966803	9.771258	9.431978
Stddev	.002926	.012961	.004397	.004914	.003574	.022167	.036133
%RSD	.0589771	.2620510	.0888648	.0990473	.0719667	.2268615	.3830889
#1	4.957737	4.951801	4.951524	4.964501	4.964304	9.771128	9.469779
#2	4.963280	4.931109	4.942999	4.963634	4.965209	9.749157	9.428372
#3	4.962133	4.954977	4.949129	4.955589	4.970898	9.793490	9.397783

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2437004	2.481405	24.31811	1.023657	2.470407	1.250208	4.941881
Stddev	.0005580	.002270	.03860	.001600	.003270	.000237	.031918
%RSD	.2289676	.0914709	.1587423	.1562924	.1323560	.0189936	.6458653
#1	.2437044	2.481758	24.29704	1.024521	2.472146	1.250332	4.938646
#2	.2431404	2.478980	24.29463	1.021811	2.466635	1.249934	4.975293
#3	.2442564	2.483478	24.36266	1.024639	2.472440	1.250358	4.911704

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.484964	24.82022	2.476827	1.247692	25.20558	2.436950	2.495096
Stddev	.003972	.08120	.002210	.000864	.00487	.002174	.004582
%RSD	.1598414	.3271451	.0892285	.0692627	.0193054	.0891902	.1836264
#1	2.481209	24.78787	2.478839	1.248672	25.20277	2.439446	2.500139
#2	2.484562	24.91261	2.474462	1.247039	25.21120	2.435475	2.491189
#3	2.489122	24.76019	2.477181	1.247365	25.20277	2.435929	2.493961

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.74567	4.789025	4.964653	4.959365	4.791152	4.949689	4.896263
Stddev	.08296	.015412	.004903	.001854	.008571	.014663	.021097
%RSD	.3352680	.3218206	.0987579	.0373871	.1788899	.2962388	.4308827
#1	24.74123	4.786033	4.969272	4.960738	4.781334	4.934803	4.918016
#2	24.83077	4.775328	4.965180	4.957256	4.794987	4.964118	4.894885
#3	24.66502	4.805714	4.959508	4.960101	4.797136	4.950145	4.875889

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV03 Acquired: 12/20/2024 18:12:33 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.851992	4.702370	4.921778
Stddev	.009884	.007539	.023017
%RSD	.2037026	.1603183	.4676461
#1	4.859473	4.694043	4.944494
#2	4.840788	4.708731	4.922370
#3	4.855715	4.704335	4.898472

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2304.178	44421.43	6939.905	1922.928	3161.459
Stddev	10.481	149.07	17.706	7.846	11.103
%RSD	.4548759	.3355842	.2551358	.4080355	.3511978
#1	2297.582	44251.84	6919.784	1913.911	3152.282
#2	2298.688	44480.66	6953.106	1926.682	3158.295
#3	2316.264	44531.78	6946.824	1928.193	3173.801

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB03 Acquired: 12/20/2024 18:16:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000179	.0001318	.0002641	.0002564	.0007862	-.000853	-.001442
Stddev	.001567	.0010683	.0014048	.0012357	.0006123	.012961	.000406
%RSD	873.4246	810.7284	531.9655	482.0380	77.88136	1519.006	28.13047
#1	.001277	.0002142	.0018847	-.000397	.0007399	-.010260	-.001319
#2	-.001838	-.000975	-.000486	.001682	.0001984	.013931	-.001113
#3	.000023	.001156	-.000607	-.000516	.0014204	-.006231	-.001896

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000006	-.000052	-.014519	.0000161	-.000042	-.000277	-.002497
Stddev	.000021	.000053	.001846	.0003685	.000136	.000186	.002797
%RSD	329.4935	100.8990	12.71468	2286.442	323.8709	67.17674	112.0479
#1	.000016	.000007	-.012827	-.000364	.000073	-.000063	-.000203
#2	-.000026	-.000094	-.016487	.000373	-.000192	-.000368	-.001674
#3	-.000009	-.000070	-.014243	.000039	-.000007	-.000400	-.005613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000602	-.023871	-.000152	-.000101	.0140482	-.003220	-.002707
Stddev	.000217	.008019	.000181	.000252	.0098750	.000895	.000176
%RSD	36.10237	33.59402	119.3786	250.0646	70.29389	27.80629	6.482966
#1	-.000726	-.028836	-.000325	.000108	.0042299	-.002822	-.002516
#2	-.000351	-.014620	-.000168	-.000030	.0239791	-.004245	-.002862
#3	-.000728	-.028158	.000037	-.000381	.0139357	-.002592	-.002744

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1244178	.0001163	-.000117	-.000067	.0013702	.0057557	-.003134
Stddev	.0153953	.0007108	.000164	.000701	.0012728	.0024031	.000277
%RSD	12.37386	611.3761	140.5528	1047.940	92.89349	41.75210	8.853298
#1	.1208884	.0006708	-.000016	-.000859	.0008265	.0082457	-.003445
#2	.1412714	.0003630	-.000307	.000186	.0004595	.0055711	-.003047
#3	.1110938	-.000685	-.000028	.000473	.0028245	.0034502	-.002911

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB03 Acquired: 12/20/2024 18:16:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.008247	-.001665	-.000223
Stddev	.002988	.001091	.000046
%RSD	36.23328	65.49947	20.56936
#1	-.007033	-.001976	-.000269
#2	-.011650	-.000453	-.000177
#3	-.006056	-.002567	-.000223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2387.567	45986.94	7352.070	2014.544	3490.689
Stddev	.861	218.83	31.150	3.287	1.949
%RSD	.0360439	.4758556	.4236898	.1631671	.0558203
#1	2388.187	45850.14	7353.407	2014.596	3491.761
#2	2387.930	45871.35	7320.273	2017.804	3488.440
#3	2386.584	46239.33	7382.530	2011.231	3491.867

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-01 Acquired: 12/20/2024 18:21:06 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0136064	-.004747	2.198746	-.012258	.0202877	18.76160
Stddev	.0008207	.003349	.004358	.000920	.0002899	.03571
%RSD	6.031746	70.54675	.1981977	7.507288	1.428880	.1903101
#1	.0131966	-.003747	2.198105	-.012967	.0206086	18.74607
#2	.0130713	-.008482	2.194743	-.012588	.0200448	18.80244
#3	.0145513	-.002012	2.203388	-.011218	.0202098	18.73629

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6954570	.0014265	.0351764	141.9228	.0944814	.0308025
Stddev	.0017646	.0000654	.0000828	.2065	.0000870	.0002446
%RSD	.2537343	4.581339	.2352748	.1455362	.0920657	.7942281
#1	.6934541	.0013968	.0351432	141.7527	.0945750	.0305410
#2	.6967826	.0015015	.0352706	142.1526	.0944663	.0310259
#3	.6961345	.0013813	.0351153	141.8631	.0944031	.0308405

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.331026	68.39109	1.749073	31.32091	.0976333	.0034038
Stddev	.001312	.12999	.002772	.10268	.0004786	.0004974
%RSD	.0985521	.1900731	.1584897	.3278267	.4902226	14.61198
#1	1.329800	68.30675	1.751738	31.41752	.0975442	.0029698
#2	1.330869	68.32573	1.746205	31.33213	.0981503	.0039466
#3	1.332409	68.54079	1.749275	31.21308	.0972056	.0032952

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	130.0877	.0670122	8.164129	F 1116.615	.1640108	.0090208
Stddev	.5704	.0015120	.003278	4.930	.0005954	.0001482
%RSD	.4385004	2.256367	.0401534	.4415135	.3630314	1.643325
#1	130.0660	.0673041	8.160345	1121.369	.1644042	.0091553
#2	129.5284	.0683570	8.166120	1116.951	.1633257	.0088619
#3	130.6686	.0653755	8.165921	1111.526	.1643023	.0090452

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-01 Acquired: 12/20/2024 18:21:06 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0352729	1.001283	F 37.31520	2.546326	F 33.18666	.0018555
Stddev	.0011928	.002562	.16290	.001644	.02337	.0014860
%RSD	3.381521	.2558809	.4365635	.0645494	.0704093	80.08503
#1	.0340725	.998385	37.27056	2.544446	33.15971	.0023859
#2	.0352884	1.002216	37.17927	2.547043	33.20128	.0001771
#3	.0364579	1.003248	37.49577	2.547490	33.19899	.0030036

Elem	Sr4077
Units	ppm
Avg	.6026731
Stddev	.0006551
%RSD	.1086929
#1	.6023870
#2	.6022097
#3	.6034225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2236.018	42588.42	7833.400	1887.072	2789.368
Stddev	2.511	61.34	30.444	2.367	1.257
%RSD	.1123087	.1440281	.3886396	.1254299	.0450521
#1	2233.843	42526.27	7825.100	1884.706	2788.469
#2	2235.445	42648.92	7807.967	1889.440	2790.804
#3	2238.767	42590.07	7867.133	1887.069	2788.832

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-03RE Acquired: 12/20/2024 18:25:22 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	s .0115935	s -.000565	s 13.24445	s .0052253	s .0133782	k 14.11440
Stddev	.0125716	.004488	21.93389	.0112942	.0250408	.03448
%RSD	108.4366	794.5598	165.6082	216.1430	187.1759	.2443144
#1	.0248590	-.005133	38.56273	.0182166	.0419613	14.07459
#2	s -.000145	s -.000401	s 1.16315	s -.000281	s .0028682	k 14.13374
#3	.010066	.003839	.00747	-.002259	-.004695	14.13488

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1959172	k .0034956	s .0060020	56.22153	k .1167158	s .0056745
Stddev	.0012805	.0000105	.0132472	.09733	.0003977	.0101605
%RSD	.6535659	.2992499	220.7145	.1731144	.3407257	179.0547
#1	.1944387	.0034836	.0210676	56.14108	.1166665	.0173698
#2	.1966695	k .0035031	s .0007623	56.19379	k .1163450	s .0006324
#3	.1966433	.0035000	-.003824	56.32971	.1171358	-.000979

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s 1.784174	k 24.40775	k .5980901	26.84551	s .0479524	k .0068825
Stddev	2.943820	.20477	.0002793	.05176	.0800928	.0027050
%RSD	164.9962	.8389674	.0467030	.1927969	167.0257	39.30228
#1	5.181182	24.19629	.5977931	26.85559	.1404095	.0084925
#2	s .192109	k 24.42183	k .5981297	26.78945	s .0036276	k .0037596
#3	-.020768	24.60511	.5983475	26.89148	-.000180	.0083955

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	928.5269	k .1091029	k 20.36920	27.59708	k .0966383	s .0110029
Stddev	8.2085	.0011845	.13262	.15793	.0164838	.0185740
%RSD	.8840336	1.085644	.6510610	.5722709	17.05724	168.8099
#1	921.1903	.1095035	20.21622	27.41495	.1055684	.0324386
#2	926.9982	k .1077700	k 20.45154	27.68007	k .0776163	s .0008968
#3	937.3923	.1100350	20.43985	27.69620	.1067303	-.000327

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-03RE Acquired: 12/20/2024 18:25:22 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	s .0479218	k .4381737	kF 159.8229	s 2.673862	sF 25.13288	.0009466
Stddev	.0812825	.0039486	1.2143	4.487064	42.09382	.0014751
%RSD	169.6151	.9011478	.7597817	167.8121	167.4851	155.8435
#1	.1417502	.4337690	158.6585	7.854143	73.72880	-.000667
#2	s .0030113	k .4413960	k 159.7285	s .168909	s 1.68157	.001280
#3	-.000996	.4393560	161.0816	-.001467	-.01173	.002226

Elem	Sr4077
Units	ppm
Avg	k .2493903
Stddev	.0142261
%RSD	5.704331
#1	.2410883
#2	k .2658168
#3	.2412658

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	40905.09	7392.129	1795.018	^ *****
Stddev	-----	55.55	33.995	4.492	-----
%RSD	-----	.1357989	.4598760	.2502420	-----
#1	2141.329	40912.54	7356.532	1798.101	2774.264
#2	^ -----	40956.54	7395.601	1797.089	^ -----
#3	6519.505	40846.19	7424.255	1789.864	10535.04

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06 Acquired: 12/20/2024 18:29:39 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.003293	-.004928	.0148166	.0011584	.0009723	.2539301	.0557158
Stddev	.001185	.002950	.0008087	.0029191	.0004189	.0021254	.0007397
%RSD	35.99303	59.85474	5.457998	251.9828	43.07878	.8369866	1.327638
#1	-.002261	-.003096	.0144720	.0045031	.0008811	.2521754	.0550160
#2	-.004588	-.008331	.0157405	-.000152	.0014292	.2533217	.0564898
#3	-.003031	-.003358	.0142373	-.000876	.0006066	.2562934	.0556417

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000095	.0002428	11.31812	.0067983	.0015415	.0181409	.2005598
Stddev	.000028	.0000456	.05924	.0004894	.0001824	.0001061	.0078269
%RSD	29.28355	18.76519	.5233961	7.199220	11.83257	.5848877	3.902538
#1	-.000068	.0002313	11.25560	.0067139	.0016755	.0182333	.1952234
#2	-.000092	.0002040	11.32535	.0063565	.0013338	.0180250	.1969112
#3	-.000124	.0002929	11.37341	.0073244	.0016154	.0181644	.2095449

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159297	1.254400	.0019096	-.000137	38.25607	.0011778	1.036040
Stddev	.0002533	.015592	.0003748	.000207	.46235	.0016290	.004934
%RSD	1.590007	1.242966	19.62833	151.2694	1.208558	138.3041	.4762761
#1	.0156497	1.236632	.0018724	-.000355	37.85253	.0007283	1.034544
#2	.0161427	1.265795	.0023016	-.000112	38.15514	.0029844	1.032027
#3	.0159968	1.260774	.0015547	.000057	38.76055	-.000179	1.041550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.61925	.0085725	.0019299	.0025012	.0011759	3.170821	.0378097
Stddev	.21386	.0006118	.0003708	.0009748	.0006452	.018196	.0009637
%RSD	.9454907	7.136490	19.21190	38.97364	54.87154	.5738700	2.548853
#1	22.39615	.0089712	.0017581	.0035297	.0008825	3.162692	.0382213
#2	22.63911	.0088783	.0023554	.0023829	.0007295	3.158106	.0367086
#3	22.82249	.0078681	.0016761	.0015910	.0019157	3.191664	.0384994

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06 Acquired: 12/20/2024 18:29:39 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.428250	.0219190	.0513676
Stddev	.012071	.0011615	.0001175
%RSD	.3521141	5.298888	.2287265
#1	3.414868	.0216432	.0512379
#2	3.438320	.0231936	.0513978
#3	3.431562	.0209203	.0514670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2312.380	45209.69	7710.317	1947.281	3305.472
Stddev	6.368	190.22	26.856	7.500	3.724
%RSD	.2753769	.4207483	.3483131	.3851744	.1126584
#1	2319.708	45309.37	7684.657	1949.347	3305.708
#2	2308.196	45329.35	7708.067	1953.532	3301.636
#3	2309.236	44990.35	7738.227	1938.964	3309.072

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13RE Acquired: 12/20/2024 18:33:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba493
Units	ppm	ppm	ppm	ppm	ppm	ppm	pp
Avg	k .0014815	k -.000418	k .0012479	k -.004213	k -.002633	.0230220	.0273885
Stddev	.0006908	.000275	.0001433	.001435	.000057	.0042860	.000995
%RSD	46.62680	65.82984	11.47905	34.04591	2.175520	18.61685	3.63355
#1	.0008422	-.000144	.0013492	-.004297	-.002658	.0275467	.028293
#2	k .0013880	k -.000417	k .0013106	k -.002739	k -.002568	.0224961	.026322
#3	.0022143	-.000695	.0010840	-.005604	-.002674	.0190233	.027548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe240
Units	ppm	ppm	ppm	ppm	ppm	ppm	pp
Avg	-.000018	k -.000152	k 6.459390	s -.000070	k -.000057	k .0000167	s .061037
Stddev	.000145	.000018	.033034	.000517	.000046	.0001054	.031466
%RSD	816.4531	11.98473	.5114088	734.9854	80.35934	629.7794	51.5529
#1	-.000184	-.000156	6.423885	.000464	-.000077	.0001342	.096412
#2	.000046	k -.000132	k 6.465069	s -.000106	k -.000090	k -.000070	s .050537
#3	.000085	-.000168	6.489216	-.000568	-.000005	-.000014	.036164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn213
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .2046478	.9788145	-.000345	s -.000920	s 37.19475	k -.002259	k .0035788
Stddev	.0012404	.0272486	.000110	.001382	16.15814	.001149	.0119657
%RSD	.6061099	2.783841	32.06421	150.2425	43.44200	50.86967	334.3456
#1	.2040774	.9594770	-.000472	-.000353	54.87189	-.003127	.0173936
#2	k .2037952	.9669882	-.000287	s -.002495	s 33.52579	k -.000956	k -.003126
#3	.2060708	1.009978	-.000274	.000089	23.18658	-.002694	-.003531

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .5958838	k -.003798	-.000599	k -.001795	k .0019128	s .5884668	k .0002499
Stddev	.2998653	.008216	.000039	.000027	.0007067	.2736589	.0014712
%RSD	50.32278	216.3285	6.516674	1.517351	36.94291	46.50371	588.7295
#1	.9273512	.005688	-.000637	-.001765	.0013615	.8877220	.0018298
#2	s .5168464	k -.008648	-.000600	k -.001805	k .0016675	s .5267249	k .0000004
#3	.3434539	-.008434	-.000559	-.001816	.0027095	.3509534	-.001081

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13RE Acquired: 12/20/2024 18:33:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	k -.015836	k -.004840	k .0481004
Stddev	.000916	.001105	.0002778
%RSD	5.782548	22.83231	.5775682
#1	-.016033	-.005647	.0478009
#2	k -.014838	k -.003581	k .0483498
#3	-.016638	-.005293	.0481504

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5833.901	^ *****	7482.991	3832.482	10054.71
Stddev	80.272	-----	8.116	1544.477	153.11
%RSD	1.375964	-----	.1084651	40.29966	1.522793
#1	5900.437	48544.15	7480.451	2060.449	10187.95
#2	5856.521	^ -----	7476.449	4544.336	10088.72
#3	5744.746	115885.2	7492.074	4892.663	9887.45

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-01 Acquired: 12/20/2024 18:38:14 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0992194	.0037662	.1834334	-.032663	.0020425	40.55945
Stddev	.0020501	.0020165	.0005617	.003180	.0013368	.15565
%RSD	2.066202	53.54146	.3062089	9.736015	65.45058	.3837619
#1	.1015210	.0017904	.1840663	-.036328	.0006505	40.39260
#2	.0975892	.0058210	.1829943	-.030630	.0021607	40.58503
#3	.0985479	.0036873	.1832396	-.031031	.0033163	40.70073

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3706828	.0041178	-.003426	33.05993	.1328563	.0357316
Stddev	.0014856	.0001431	.000211	.07904	.0005477	.0001230
%RSD	.4007632	3.474297	6.152945	.2390928	.4122191	.3442267
#1	.3690264	.0041672	-.003319	32.99736	.1328796	.0356037
#2	.3711247	.0042296	-.003669	33.03368	.1322974	.0357420
#3	.3718973	.0039566	-.003290	33.14876	.1333920	.0358490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2269583	199.1571	.6897409	15.75991	.0707275	-.001080
Stddev	.0005583	.9619	.0013308	.07048	.0003606	.000347
%RSD	.2459733	.4829738	.1929388	.4472107	.5097696	32.11626
#1	.2266086	198.0736	.6883788	15.72972	.0709593	-.001481
#2	.2266641	199.9102	.6898059	15.70956	.0703121	-.000880
#3	.2276021	199.4876	.6910380	15.84046	.0709110	-.000880

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.023294	.2435828	.1883525	15.59368	.1344163	.0230327
Stddev	.018167	.0014995	.0017028	.04355	.0017928	.0006926
%RSD	.8978816	.6156194	.9040285	.2792772	1.333780	3.007230
#1	2.007619	.2418999	.1885163	15.55218	.1324696	.0227349
#2	2.043204	.2447770	.1865738	15.63902	.1359996	.0225387
#3	2.019059	.2440715	.1899674	15.58985	.1347796	.0238244

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-01 Acquired: 12/20/2024 18:38:14 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0090498	2.177398	6.080523	2.328632	F 14.27404	.0847726
Stddev	.0009799	.007661	.019513	.010640	.02632	.0004228
%RSD	10.82795	.3518215	.3209060	.4569176	.1844142	.4987386
#1	.0079278	2.168564	6.057993	2.339811	14.30403	.0846531
#2	.0094847	2.182210	6.091600	2.327456	14.25477	.0852423
#3	.0097370	2.181421	6.091976	2.318629	14.26331	.0844225

Elem	Sr4077
Units	ppm
Avg	.0755436
Stddev	.0004221
%RSD	.5586978
#1	.0755838
#2	.0751029
#3	.0759442

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2439.084	47486.81	8035.660	2061.927	3266.322
Stddev	4.578	59.89	29.607	5.993	5.996
%RSD	.1877003	.1261153	.3684511	.2906722	.1835585
#1	2440.798	47542.78	8022.636	2056.177	3267.124
#2	2442.558	47494.00	8069.547	2068.138	3271.876
#3	2433.896	47423.66	8014.797	2061.465	3259.966

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01DUP Acquired: 12/20/2024 18:42:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000118	-.000113	.0395768	-.000533	.0016194	.0999693	.0222990
Stddev	.002817	.001433	.0006586	.002178	.0002018	.0107309	.0012144
%RSD	2382.749	1265.907	1.663984	408.4165	12.46287	10.73423	5.445989
#1	-.002616	.001535	.0402997	.001444	.0014294	.0919458	.0229600
#2	.002935	-.000806	.0390111	-.000175	.0015974	.0958035	.0230395
#3	-.000674	-.001068	.0394196	-.002869	.0018313	.1121585	.0208975

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000276	.0000700	12.92761	.0120358	-.000013	.7486357	.5922607
Stddev	.0000155	.0000240	.00196	.0004205	.000119	.0011614	.0078398
%RSD	56.15454	34.35488	.0151409	3.493988	915.9364	.1551317	1.323714
#1	.0000168	.0000859	12.92646	.0122422	.000123	.7481292	.6012831
#2	.0000206	.0000423	12.92650	.0123132	-.000097	.7499643	.5871093
#3	.0000454	.0000817	12.92987	.0115519	-.000065	.7478136	.5883897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0734581	3.090408	.0229187	.0237533	117.2104	-.001667	.2953360
Stddev	.0005499	.032574	.0001775	.0005448	.3139	.001709	.0010671
%RSD	.7485475	1.054045	.7743933	2.293626	.2677688	102.4893	.3613307
#1	.0729890	3.052853	.0230598	.0242918	116.8711	-.000139	.2945821
#2	.0740632	3.111004	.0229768	.0237657	117.4902	-.001350	.2948689
#3	.0733220	3.107367	.0227194	.0232024	117.2699	-.003513	.2965571

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.311917	4.773996	-.000019	.0083035	.0038788	3.122028	1.697099
Stddev	.043303	.019764	.000307	.0005830	.0008146	.022651	.005005
%RSD	1.307498	.4139865	1608.373	7.020665	21.00199	.7255215	.2949339
#1	3.336752	4.780207	-.000243	.0083245	.0044326	3.102788	1.691432
#2	3.261915	4.751872	.000331	.0077104	.0042605	3.146992	1.698951
#3	3.337085	4.789907	-.000146	.0088757	.0029434	3.116305	1.700915

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01DUP Acquired: 12/20/2024 18:42:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.225883	-.000110	.0444022
Stddev	.001429	.000559	.0001816
%RSD	.0442903	510.2190	.4090661
#1	3.226622	.000449	.0442705
#2	3.226790	-.000669	.0443268
#3	3.224236	-.000108	.0446094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2353.575	45769.34	7805.584	2011.146	3282.242
Stddev	3.385	41.52	8.810	3.936	6.243
%RSD	.1438100	.0907175	.1128625	.1957086	.1901961
#1	2356.669	45806.12	7804.793	2014.943	3289.049
#2	2354.095	45724.32	7814.762	2007.085	3280.892
#3	2349.960	45777.58	7797.196	2011.411	3276.785

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01LX5 Acquired: 12/20/2024 18:46:35 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001297	-.001546	.0076325	-.001457	.0003837	.0215261	.0019601
Stddev	.004086	.000530	.0003705	.004046	.0009641	.0024959	.0001381
%RSD	315.0887	34.30565	4.854961	277.6861	251.2279	11.59474	7.046861
#1	.003124	-.000934	.0077481	.001719	.0009574	.0234726	.0019569
#2	-.004934	-.001867	.0072179	-.000077	.0009231	.0187122	.0018236
#3	-.002081	-.001836	.0079314	-.006012	-.000729	.0223934	.0020998

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000140	-.000115	2.605988	.0023678	-.000024	.1540418	.1108558
Stddev	.0000228	.000060	.002036	.0004282	.000214	.0007392	.0016540
%RSD	162.3989	52.27156	.0781299	18.08341	894.8117	.4798680	1.491983
#1	.0000235	-.000177	2.603998	.0027284	-.000085	.1535229	.1091466
#2	-.000012	-.000057	2.608067	.0024806	-.000201	.1548881	.1109723
#3	.000031	-.000110	2.605898	.0018946	.000214	.1537142	.1124483

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147701	.6155312	.0043168	.0046583	22.87531	-.004152	.0565793
Stddev	.0006962	.0130999	.0002606	.0002654	.16988	.003260	.0003933
%RSD	4.713385	2.128228	6.036629	5.696779	.7426536	78.50350	.6952212
#1	.0139725	.6016223	.0040712	.0049430	22.75379	-.000881	.0564901
#2	.0150821	.6173364	.0042890	.0044179	22.80271	-.007400	.0562382
#3	.0152557	.6276349	.0045901	.0046139	23.06943	-.004176	.0570096

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8005435	1.004757	-.000269	.0007434	.0010680	.6165335	.3234166
Stddev	.1124988	.005491	.000151	.0004125	.0011306	.0033652	.0038023
%RSD	14.05280	.5464867	55.90218	55.47841	105.8620	.5458219	1.175668
#1	.6810692	1.009954	-.000431	.0006944	.0014321	.6133698	.3197773
#2	.8161175	1.005302	-.000133	.0003577	-.000200	.6161615	.3231092
#3	.9044440	.999013	-.000244	.0011782	.001972	.6200692	.3273632

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01LX5 Acquired: 12/20/2024 18:46:35 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6246221	.0019813	.0086932
Stddev	.0038746	.0005620	.0000471
%RSD	.6203102	28.36728	.5418737
#1	.6201813	.0018312	.0086707
#2	.6273139	.0015095	.0086616
#3	.6263711	.0026031	.0087473

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.137	45211.93	7523.618	1979.240	3335.159
Stddev	4.371	98.90	12.956	.818	.936
%RSD	.1872004	.2187571	.1721999	.0413465	.0280596
#1	2331.713	45278.33	7519.231	1978.861	3334.078
#2	2333.635	45259.19	7513.425	1978.680	3335.709
#3	2340.061	45098.26	7538.197	1980.179	3335.689

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01MS Acquired: 12/20/2024 18:50:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8411370	1.790081	1.039765	2.002639	.8223523	1.986979	.2074811
Stddev	.0010740	.018273	.004127	.002772	.0036281	.012867	.0004142
%RSD	.1276892	1.020805	.3968831	.1384287	.4411910	.6475598	.1996440
#1	.8412119	1.769783	1.039845	2.004999	.8259340	1.980517	.2074769
#2	.8421715	1.795240	1.035599	2.003332	.8186795	1.978625	.2070689
#3	.8400274	1.805220	1.043851	1.999586	.8224435	2.001796	.2078974

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1872578	.1985731	14.80239	.4328486	.2031117	1.088381	3.741583
Stddev	.0002069	.0004531	.03338	.0005301	.0006067	.002215	.020149
%RSD	.1105054	.2281606	.2254741	.1224724	.2987068	.2035542	.5385286
#1	.1874546	.1988164	14.77114	.4332491	.2036178	1.089806	3.730179
#2	.1872767	.1980503	14.79848	.4330492	.2024392	1.085829	3.729721
#3	.1870420	.1988525	14.83755	.4322474	.2032783	1.089509	3.764848

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2739478	5.232649	.5295496	.1018478	126.0132	.2865993	.5182029
Stddev	.0006831	.029251	.0014171	.0006136	.5469	.0019144	.0018575
%RSD	.2493653	.5590056	.2675990	.6024596	.4339951	.6679736	.3584444
#1	.2731917	5.203286	.5290733	.1015851	125.4915	.2879532	.5196851
#2	.2741313	5.232875	.5284321	.1014094	125.9660	.2844090	.5161192
#3	.2745205	5.261787	.5311435	.1025490	126.5822	.2874357	.5188043

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.98247	5.326825	.4139139	.7132474	.1903832	4.085327	7.712581
Stddev	.11838	.011883	.0005713	.0046047	.0025135	.018179	.003975
%RSD	.8466442	.2230825	.1380251	.6456005	1.320231	.4449916	.0515449
#1	13.84676	5.329090	.4140319	.7150957	.1874905	4.081746	7.711806
#2	14.06451	5.337413	.4144171	.7080056	.1916243	4.069204	7.709051
#3	14.03614	5.313973	.4132928	.7166408	.1920347	4.105030	7.716888

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01MS Acquired: 12/20/2024 18:50:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.338312	.1907257	.2399448
Stddev	.010299	.0005687	.0011617
%RSD	.3085196	.2981830	.4841653
#1	3.344334	.1906908	.2387270
#2	3.326419	.1901753	.2400667
#3	3.344182	.1913111	.2410408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2340.791	45624.39	7653.693	1991.244	3250.699
Stddev	4.351	54.69	16.814	3.408	8.745
%RSD	.1858933	.1198610	.2196797	.1711440	.2690318
#1	2342.286	45574.69	7635.001	1988.999	3251.927
#2	2344.198	45682.97	7658.496	1995.166	3258.766
#3	2335.889	45615.52	7667.583	1989.568	3241.405

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01MSD Acquired: 12/20/2024 18:54:54 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8418003	1.811784	1.038164	2.001081	.8222726	1.993069	.2068138
Stddev	.0023748	.013400	.001591	.006653	.0046163	.011439	.0006008
%RSD	.2821100	.7395817	.1532878	.3324496	.5614090	.5739192	.2905237
#1	.8396832	1.796315	1.036328	1.996073	.8190075	1.980882	.2063936
#2	.8443682	1.819220	1.039029	1.998540	.8202563	2.003572	.2075020
#3	.8413495	1.819817	1.039136	2.008629	.8275541	1.994753	.2065457

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1860186	.1982058	14.73328	.4322239	.2029636	1.084657	3.781630
Stddev	.0008339	.0004295	.04347	.0008119	.0003273	.002648	.015466
%RSD	.4482919	.2167121	.2950685	.1878335	.1612791	.2441032	.4089824
#1	.1859095	.1977263	14.68522	.4313046	.2026886	1.082898	3.770245
#2	.1869016	.1983361	14.76986	.4328425	.2028765	1.083371	3.775407
#3	.1852446	.1985552	14.74477	.4325247	.2033256	1.087702	3.799239

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2750766	5.172810	.5285792	.1015349	127.1479	.2858258	.5176575
Stddev	.0011151	.045616	.0014092	.0009243	.9079	.0033980	.0012148
%RSD	.4053940	.8818454	.2665968	.9102981	.7140602	1.188835	.2346672
#1	.2739266	5.120723	.5275204	.1020924	126.3609	.2819037	.5166517
#2	.2761533	5.205639	.5280386	.1004680	126.9417	.2876915	.5190071
#3	.2751498	5.192068	.5301787	.1020443	128.1412	.2878823	.5173137

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.04458	5.300852	.4148705	.7100261	.1903224	4.113989	7.685772
Stddev	.08807	.022944	.0016486	.0016762	.0009871	.030814	.014405
%RSD	.6270791	.4328269	.3973820	.2360784	.5186316	.7490109	.1874246
#1	13.98275	5.303957	.4133874	.7081751	.1891852	4.082498	7.670248
#2	14.00557	5.322086	.4145786	.7114414	.1909580	4.115392	7.688362
#3	14.14541	5.276515	.4166456	.7104619	.1908239	4.144079	7.698707

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01MSD Acquired: 12/20/2024 18:54:54 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.334892	.1914505	.2416350
Stddev	.009732	.0017901	.0011097
%RSD	.2918277	.9350122	.4592283
#1	3.324631	.1897913	.2405176
#2	3.343991	.1912125	.2416506
#3	3.336055	.1933476	.2427368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.237	45517.21	7683.462	1985.193	3258.713
Stddev	6.704	108.32	33.406	3.874	9.244
%RSD	.2859897	.2379662	.4347837	.1951349	.2836588
#1	2351.563	45642.29	7692.179	1988.775	3269.175
#2	2342.740	45454.87	7646.561	1981.082	3255.318
#3	2338.407	45454.48	7711.646	1985.723	3251.648

Sample Name: P5327-01A Acquired: 12/20/2024 18:58:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8441917	1.825437	1.044888	2.021279	.8258777	1.987499	.2074058
Stddev	.0089687	.011691	.002165	.002626	.0005364	.008073	.0015725
%RSD	1.062403	.6404305	.2072058	.1299002	.0649505	.4061813	.7581507
#1	.8544677	1.818567	1.047289	2.018387	.8257291	1.987946	.2088916
#2	.8379398	1.818808	1.044292	2.021938	.8264727	1.995339	.2057591
#3	.8401676	1.838935	1.043083	2.023513	.8254312	1.979211	.2075668

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1867747	.1993611	14.75187	.4326883	.2036243	1.091126	3.798215
Stddev	.0004646	.0001263	.01468	.0017727	.0004989	.000891	.026053
%RSD	.2487666	.0633577	.0995379	.4096967	.2450060	.0816523	.6859158
#1	.1863861	.1993971	14.76030	.4307300	.2037780	1.091024	3.827162
#2	.1866486	.1994654	14.73491	.4341836	.2030666	1.090290	3.776649
#3	.1872893	.1992206	14.76039	.4331512	.2040282	1.092063	3.790834

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2739401	5.163918	.5311397	.1023059	127.4851	.2834164	.5192369
Stddev	.0011747	.015908	.0005825	.0006336	.2837	.0008090	.0022334
%RSD	.4288246	.3080585	.1096651	.6193294	.2225237	.2854357	.4301253
#1	.2737909	5.179675	.5312835	.1018439	127.3104	.2837283	.5168094
#2	.2751823	5.164217	.5316368	.1030282	127.8124	.2840231	.5196968
#3	.2728471	5.147863	.5304988	.1020455	127.3325	.2824980	.5212045

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.10244	5.325654	.4150994	.7142627	.1912981	4.119230	7.725799
Stddev	.06191	.022830	.0003519	.0005209	.0003867	.019480	.031763
%RSD	.4389854	.4286749	.0847841	.0729338	.2021231	.4729011	.4111247
#1	14.11022	5.308359	.4154029	.7140375	.1916118	4.096800	7.691834
#2	14.16009	5.317073	.4151817	.7148584	.1908661	4.131910	7.730796
#3	14.03701	5.351531	.4147136	.7138923	.1914164	4.128980	7.754767

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5327-01A Acquired: 12/20/2024 18:58:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.370859	.1938484	.2415639
Stddev	.004019	.0013695	.0005149
%RSD	.1192197	.7064765	.2131525
#1	3.366220	.1952164	.2410058
#2	3.373082	.1924774	.2416653
#3	3.373275	.1938514	.2420205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.177	45456.20	7679.700	1977.556	3237.184
Stddev	5.856	36.25	20.632	8.088	8.207
%RSD	.2512922	.0797395	.2686589	.4089966	.2535335
#1	2334.395	45426.16	7676.532	1984.419	3244.548
#2	2332.644	45445.97	7701.733	1979.610	3238.669
#3	2323.491	45496.46	7660.835	1968.639	3228.336

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV04 Acquired: 12/20/2024 19:02:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.907092	4.925285	4.889864	4.921660	4.918958	9.623923	9.154736
Stddev	.003697	.017867	.002016	.008941	.016929	.042218	.031631
%RSD	.0753402	.3627671	.0412348	.1816680	.3441599	.4386826	.3455133
#1	4.905461	4.925369	4.890634	4.911395	4.901673	9.575359	9.175740
#2	4.904491	4.943110	4.891382	4.927746	4.919693	9.644523	9.118357
#3	4.911324	4.907376	4.887576	4.925839	4.935508	9.651887	9.170110

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2397871	2.444568	23.77241	1.011181	2.439058	1.239242	4.876747
Stddev	.0012539	.001084	.04663	.002772	.002632	.002090	.006568
%RSD	.5229407	.0443443	.1961323	.2741760	.1079119	.1686552	.1346796
#1	.2411928	2.443415	23.72161	1.014291	2.439068	1.237045	4.879010
#2	.2393850	2.444722	23.81325	1.008967	2.436420	1.239475	4.881884
#3	.2387836	2.445567	23.78238	1.010287	2.441684	1.241206	4.869347

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451619	24.51811	2.443822	1.236965	24.87338	2.382825	2.469021
Stddev	.011565	.10543	.002446	.002604	.08618	.013743	.006820
%RSD	.4717167	.4299998	.1000842	.2105118	.3464937	.5767356	.2762170
#1	2.439723	24.39838	2.441689	1.239926	24.79759	2.371885	2.462536
#2	2.462820	24.59707	2.443285	1.235937	24.96713	2.398250	2.476133
#3	2.452315	24.55887	2.446492	1.235032	24.85543	2.378339	2.468394

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.35281	4.755871	4.920413	4.889379	4.679432	5.139968	4.797656
Stddev	.03331	.009693	.005138	.007760	.008483	.076949	.006538
%RSD	.1368002	.2038032	.1044124	.1587144	.1812838	1.497071	.1362763
#1	24.31916	4.765877	4.915152	4.884068	4.674666	5.054693	4.798050
#2	24.35350	4.755211	4.925417	4.885785	4.689227	5.160990	4.803988
#3	24.38578	4.746526	4.920669	4.898285	4.674404	5.204221	4.790930

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV04 Acquired: 12/20/2024 19:02:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.793393	4.622501	4.946309
Stddev	.012747	.009688	.077861
%RSD	.2659281	.2095830	1.574122
#1	4.784598	4.617150	4.863968
#2	4.808012	4.633685	4.956218
#3	4.787570	4.616669	5.018741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2295.300	44377.52	6957.356	1915.207	3163.869
Stddev	1.603	125.06	27.775	4.970	4.471
%RSD	.0698270	.2818196	.3992197	.2594864	.1413102
#1	2293.651	44237.86	6926.341	1917.005	3158.769
#2	2295.396	44415.52	6965.789	1909.589	3165.727
#3	2296.852	44479.18	6979.937	1919.028	3167.111

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB04 Acquired: 12/20/2024 19:11:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001146	.0082037	.0010379	.0013548	.0005753	-.000766	-.002478
Stddev	.002426	.0015254	.0001512	.0023758	.0008916	.009498	.000391
%RSD	211.6749	18.59369	14.56459	175.3627	154.9754	1240.337	15.77238
#1	-.001049	.0092042	.0012124	.0020894	.0001820	.002236	-.002846
#2	-.003620	.0064481	.0009545	.0032764	.0015959	-.011402	-.002068
#3	.001230	.0089588	.0009469	-.001302	-.000052	.006869	-.002520

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000314	-.000076	-.010946	-.000042	-.000165	-.000336	-.003429
Stddev	.0000506	.000086	.001050	.000254	.000031	.000586	.006098
%RSD	161.1625	114.0404	9.595830	598.4403	18.63831	174.5927	177.8471
#1	.0000102	.000015	-.011249	.000135	-.000172	.000212	-.008936
#2	-.000005	-.000157	-.009778	-.000334	-.000132	-.000954	.003124
#3	.000089	-.000085	-.011812	.000072	-.000192	-.000265	-.004474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000147	-.002786	-.000357	.0002330	.0082164	-.003211	-.002968
Stddev	.000608	.018672	.000458	.0001829	.0173519	.000768	.000193
%RSD	413.5097	670.3139	128.2914	78.47606	211.1869	23.91773	6.501146
#1	.000358	-.021779	-.000835	.0004356	-.011810	-.003665	-.003189
#2	-.000821	-.002126	-.000317	.0000803	.018767	-.002324	-.002886
#3	.000023	.015548	.000080	.0001831	.017692	-.003644	-.002830

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1553758	.0082053	-.000013	.0127827	.0008356	.0069103	-.000969
Stddev	.0222506	.0006545	.000290	.0008338	.0005732	.0021085	.001546
%RSD	14.32051	7.976872	2255.105	6.523191	68.59366	30.51194	159.5253
#1	.1373391	.0089595	.000224	.0125558	.0013795	.0045584	-.001059
#2	.1485480	.0077865	-.000336	.0120857	.0002371	.0075415	-.002469
#3	.1802402	.0078698	.000073	.0137065	.0008902	.0086311	.000620

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB04 Acquired: 12/20/2024 19:11:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.007797	-.001215	-.000197
Stddev	.000783	.001075	.000084
%RSD	10.03985	88.43998	42.52143
#1	-.007327	-.001280	-.000125
#2	-.008700	-.002256	-.000289
#3	-.007363	-.000110	-.000176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2390.295	46154.89	7418.992	2012.138	3510.989
Stddev	4.132	144.66	21.368	12.894	8.412
%RSD	.1728669	.3134331	.2880117	.6408345	.2395954
#1	2391.451	46147.17	7396.936	2010.792	3507.412
#2	2393.727	46014.24	7420.443	1999.970	3520.598
#3	2385.709	46303.26	7439.597	2025.653	3504.955

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06LX5 Acquired: 12/20/2024 19:16:19 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000880	.0056386	.0024144	-.000244	.0000672	.0555143	.0086617
Stddev	.003240	.0017116	.0012778	.001683	.0006339	.0035789	.0004612
%RSD	368.2412	30.35537	52.92533	689.6731	943.7405	6.446775	5.324166
#1	-.004138	.0073973	.0038574	.001409	.0000059	.0596445	.0085266
#2	-.000843	.0039783	.0019595	-.001957	-.000534	.0533287	.0082831
#3	.002341	.0055403	.0014263	-.000184	.000730	.0535698	.0091753

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000459	-.000038	2.317186	.0010285	.0002493	.0034515	.0340051
Stddev	.0000901	.000011	.005249	.0003916	.0001494	.0000962	.0017222
%RSD	196.3617	28.44379	.2265417	38.07481	59.91651	2.787578	5.064456
#1	.0000353	-.000028	2.322997	.0005841	.0001042	.0033480	.0321953
#2	.0001408	-.000050	2.315776	.0011785	.0004026	.0034681	.0341963
#3	-.000038	-.000037	2.312787	.0013231	.0002411	.0035383	.0356237

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021527	.2731540	.0001174	.0000539	7.497124	-.000535	.2099584
Stddev	.0002675	.0114212	.0002414	.0000315	.049709	.001788	.0003478
%RSD	12.42637	4.181240	205.7354	58.35492	.6630445	334.0310	.1656566
#1	.0023620	.2730274	-.000160	.0000887	7.450177	-.002058	.2103576
#2	.0022449	.2617966	.000284	.0000460	7.491996	.001434	.2097210
#3	.0018514	.2846380	.000228	.0000272	7.549198	-.000982	.2097965

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.493630	.0055051	.0000194	-.000262	.0008441	.6046953	.0054156
Stddev	.034915	.0004369	.0000753	.001671	.0006836	.0101633	.0016393
%RSD	.7769974	7.935975	389.0571	637.1265	80.98553	1.680729	30.27003
#1	4.466619	.0054396	-.000022	-.001867	.0016316	.6014318	.0065145
#2	4.481215	.0059710	-.000026	.001468	.0004029	.5965647	.0035314
#3	4.533057	.0051046	.000106	-.000388	.0004979	.6160895	.0062008

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06LX5 Acquired: 12/20/2024 19:16:19 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6807340	.0025508	.0103611
Stddev	.0016389	.0003972	.0000561
%RSD	.2407556	15.57345	.5416418
#1	.6823209	.0021461	.0103521
#2	.6790476	.0025661	.0103100
#3	.6808336	.0029402	.0104211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.628	45500.52	7393.220	1986.699	3392.348
Stddev	1.888	47.39	42.110	6.623	1.052
%RSD	.0804635	.1041628	.5695709	.3333874	.0309995
#1	2348.172	45549.09	7375.750	1994.184	3393.527
#2	2344.523	45498.08	7362.657	1984.318	3391.509
#3	2347.190	45454.40	7441.253	1981.595	3392.007

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06DUP Acquired: 12/20/2024 19:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001467	.0008649	.0109155	-.001642	.0024296	.2563389	.0570293
Stddev	.003157	.0014593	.0000592	.001870	.0017859	.0105063	.0008152
%RSD	215.2385	168.7143	.5422082	113.9391	73.50722	4.098605	1.429398
#1	-.002545	.0015772	.0108879	-.002945	.0003674	.2596273	.0560965
#2	.002088	.0018313	.0108752	.000502	.0034709	.2445817	.0573862
#3	-.003944	-.000814	.0109835	-.002481	.0034504	.2648077	.0576051

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000030	.0002683	11.33905	.0069846	.0013071	.0177960	.1796424
Stddev	.000006	.0000399	.06971	.0003214	.0001590	.0004108	.0026142
%RSD	19.86504	14.88545	.6147443	4.602067	12.16595	2.308276	1.455246
#1	-.000031	.0002462	11.26427	.0069854	.0011675	.0173411	.1794307
#2	-.000024	.0002442	11.35067	.0073057	.0014802	.0181397	.1771405
#3	-.000036	.0003144	11.40222	.0066628	.0012735	.0179074	.1823561

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131258	1.252318	.0018658	.0001549	36.47201	.0030757	1.002982
Stddev	.0002972	.020102	.0003802	.0001989	.13540	.0008142	.005043
%RSD	2.264187	1.605148	20.37923	128.4044	.3712402	26.47085	.5028428
#1	.0134669	1.237126	.0022719	.0000208	36.32047	.0036766	.997765
#2	.0129231	1.244717	.0015182	.0000605	36.51447	.0021491	1.007832
#3	.0129872	1.275112	.0018072	.0003834	36.58109	.0034014	1.003350

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.57895	.0149103	.0020173	.0015174	.0006922	2.900102	.0341280
Stddev	.14964	.0005026	.0001223	.0011761	.0006858	.019766	.0004015
%RSD	.6934693	3.370694	6.062858	77.51227	99.06912	.6815647	1.176591
#1	21.40753	.0153950	.0018793	.0016515	.0003132	2.881365	.0339517
#2	21.68353	.0149442	.0021124	.0026207	.0002796	2.898185	.0345875
#3	21.64578	.0143915	.0020602	.0002799	.0014838	2.920757	.0338448

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06DUP Acquired: 12/20/2024 19:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.184773	.0211824	.0510215
Stddev	.005190	.0008567	.0003095
%RSD	.1629476	4.044495	.6065851
#1	3.189883	.0202032	.0506645
#2	3.179508	.0215499	.0512144
#3	3.184928	.0217940	.0511856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2337.358	45942.42	7462.406	1968.370	3400.468
Stddev	2.760	112.78	35.616	13.442	6.397
%RSD	.1180908	.2454878	.4772686	.6829253	.1881324
#1	2339.145	46072.52	7501.771	1983.492	3395.402
#2	2338.749	45882.35	7453.034	1957.775	3407.657
#3	2334.178	45872.38	7432.414	1963.844	3398.344

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06MS Acquired: 12/20/2024 19:24:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7421674	1.791538	.9086375	1.736243	.7359362	2.012003	.2313671
Stddev	.0015997	.003908	.0045211	.015088	.0038475	.011457	.0004298
%RSD	.2155431	.2181314	.4975667	.8690022	.5227985	.5694269	.1857459
#1	.7437765	1.794469	.9138397	1.752140	.7401898	2.024113	.2309312
#2	.7405773	1.787101	.9056582	1.722122	.7326988	2.010560	.2317905
#3	.7421484	1.793043	.9064146	1.734466	.7349201	2.001335	.2313796

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1709894	.1771595	12.27876	.4062543	.1847197	.3019025	3.092452
Stddev	.0008896	.0008986	.04347	.0002703	.0010995	.0022549	.026826
%RSD	.5202884	.5072174	.3540439	.0665308	.5952489	.7468858	.8674628
#1	.1720000	.1781971	12.23092	.4060040	.1859892	.3044533	3.061478
#2	.1706434	.1766341	12.28952	.4065409	.1840715	.3001748	3.108233
#3	.1703247	.1766474	12.31585	.4062180	.1840983	.3010796	3.107645

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2045800	3.023523	.4616099	.0685000	39.52011	.2720579	1.186597
Stddev	.0017524	.017575	.0024749	.0006638	.26037	.0014334	.002388
%RSD	.8565651	.5812717	.5361395	.9690233	.6588207	.5268730	.2012578
#1	.2025913	3.029998	.4642767	.0677364	39.29262	.2723303	1.189256
#2	.2052512	3.003629	.4593870	.0689389	39.46363	.2733356	1.185899
#3	.2058975	3.036942	.4611662	.0688247	39.80408	.2705079	1.184635

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.84580	.2497399	.3930389	.6421557	.1781449	3.739910	5.257186
Stddev	.16786	.0004846	.0025152	.0044158	.0005713	.021303	.028710
%RSD	.5441948	.1940308	.6399398	.6876505	.3206667	.5696111	.5461178
#1	30.66832	.2502964	.3958570	.6470254	.1775006	3.717210	5.290315
#2	30.86708	.2495119	.3910217	.6384118	.1783446	3.743054	5.241674
#3	31.00201	.2494114	.3922378	.6410299	.1785895	3.759467	5.239568

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06MS Acquired: 12/20/2024 19:24:55 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.279699	.2006489	.2297804
Stddev	.016949	.0009214	.0005036
%RSD	.5167784	.4592157	.2191693
#1	3.298872	.1996676	.2294028
#2	3.273515	.2007835	.2295863
#3	3.266711	.2014957	.2303522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.152	45040.17	7304.713	1925.994	3305.059
Stddev	15.240	123.43	13.730	3.237	18.745
%RSD	.6605553	.2740489	.1879618	.1680906	.5671729
#1	2289.559	45178.80	7293.689	1927.867	3283.438
#2	2315.581	44999.53	7300.359	1922.256	3314.967
#3	2316.316	44942.18	7320.093	1927.859	3316.771

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06MSD Acquired: 12/20/2024 19:28:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7460427	1.766301	.9134188	1.744581	.7380687	2.004870	.2272176
Stddev	.0079103	.019822	.0025077	.002612	.0001357	.013301	.0014556
%RSD	1.060296	1.122217	.2745412	.1497237	.0183905	.6634368	.6406046
#1	.7530064	1.788412	.9107517	1.747267	.7382236	1.992549	.2256843
#2	.7476797	1.760368	.9137758	1.742049	.7380119	2.018972	.2273883
#3	.7374420	1.750124	.9157289	1.744429	.7379705	2.003090	.2285804

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1695904	.1777881	12.20337	.4085324	.1856133	.3028509	3.062627
Stddev	.0001799	.0002233	.04041	.0011122	.0000255	.0010852	.016522
%RSD	.1060961	.1255895	.3311575	.2722402	.0137623	.3583234	.5394664
#1	.1693836	.1775598	12.15817	.4087861	.1855927	.3036937	3.076723
#2	.1697115	.1777983	12.23600	.4094958	.1856053	.3016265	3.044446
#3	.1696759	.1780061	12.21596	.4073152	.1856418	.3032326	3.066711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2058821	3.052113	.4635823	.0681409	39.59927	.2691242	1.181127
Stddev	.0023021	.005749	.0012957	.0001947	.05081	.0032957	.001099
%RSD	1.118158	.1883532	.2794905	.2857107	.1282998	1.224598	.0930376
#1	.2034194	3.046358	.4639301	.0683645	39.57340	.2662955	1.182383
#2	.2079800	3.052126	.4621482	.0680497	39.56661	.2683337	1.180341
#3	.2062469	3.057856	.4646686	.0680086	39.65781	.2727432	1.180658

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.63222	.2449735	.3933839	.6416879	.1763772	3.756389	5.216884
Stddev	.11918	.0017852	.0007847	.0009107	.0010105	.026965	.011856
%RSD	.3890566	.7287468	.1994764	.1419211	.5729323	.7178524	.2272638
#1	30.64250	.2440810	.3940853	.6422577	.1766610	3.749627	5.219807
#2	30.50823	.2470290	.3925364	.6406376	.1752551	3.733447	5.227006
#3	30.74592	.2438105	.3935300	.6421684	.1772154	3.786091	5.203841

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06MSD Acquired: 12/20/2024 19:28:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.253689	.1978113	.2308330
Stddev	.006741	.0014812	.0008241
%RSD	.2071817	.7487819	.3570180
#1	3.254670	.1968622	.2299063
#2	3.259886	.1970537	.2314836
#3	3.246512	.1995181	.2311092

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.878	45260.44	7391.646	1962.126	3310.138
Stddev	8.216	58.72	9.397	4.822	7.158
%RSD	.3549360	.1297466	.1271276	.2457477	.2162536
#1	2307.569	45215.36	7402.112	1959.516	3302.640
#2	2323.771	45326.85	7383.934	1967.690	3316.900
#3	2313.294	45239.12	7388.892	1959.172	3310.873

Sample Name: P5343-06A Acquired: 12/20/2024 19:32:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7534718	1.783252	.9195546	1.761628	.7429396	2.023957	.2242351
Stddev	.0042285	.010675	.0007685	.002547	.0037422	.023327	.0016112
%RSD	.5612050	.5986369	.0835712	.1445563	.5037002	1.152554	.7185173
#1	.7569356	1.791662	.9187426	1.764559	.7420307	2.033328	.2226373
#2	.7487596	1.771243	.9202705	1.760365	.7470525	1.997402	.2242087
#3	.7547201	1.786853	.9196507	1.759959	.7397355	2.041142	.2258593

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1727214	.1793913	12.19082	.4107592	.1864628	.3051111	3.035633
Stddev	.0013871	.0002214	.03056	.0012314	.0004369	.0001238	.028391
%RSD	.8031036	.1234402	.2507030	.2997842	.2343305	.0405694	.9352432
#1	.1739890	.1795921	12.16290	.4121109	.1868327	.3050278	3.007597
#2	.1712396	.1791538	12.18608	.4097013	.1859807	.3050521	3.064366
#3	.1729355	.1794279	12.22347	.4104653	.1865749	.3052533	3.034935

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2074855	3.098970	.4670563	.0683416	39.47225	.2679534	1.189444
Stddev	.0014401	.020968	.0004894	.0002869	.30725	.0025779	.005078
%RSD	.6940793	.6766161	.1047793	.4198304	.7783854	.9620540	.4269393
#1	.2073398	3.123127	.4674929	.0684162	39.14635	.2649780	1.187009
#2	.2061238	3.085486	.4665273	.0680248	39.75662	.2695178	1.195281
#3	.2089929	3.088297	.4671487	.0685839	39.51377	.2693643	1.186042

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.36011	.2485738	.3952477	.6461018	.1743162	3.751511	5.258803
Stddev	.17892	.0025856	.0007363	.0033035	.0013104	.033839	.007379
%RSD	.5893206	1.040170	.1863013	.5113021	.7517141	.9020106	.1403170
#1	30.17768	.2500533	.3956744	.6478216	.1731067	3.714024	5.265629
#2	30.53530	.2455882	.3956713	.6481906	.1741336	3.779799	5.259805
#3	30.36737	.2500798	.3943974	.6422931	.1757083	3.760711	5.250974

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-06A Acquired: 12/20/2024 19:32:59 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	3.293433	.1979489	.2337444
Stddev	.008049	.0016284	.0007218
%RSD	.2443847	.8226161	.3087964
#1	3.302554	.1969500	.2331161
#2	3.290419	.1970689	.2335842
#3	3.287327	.1998279	.2345328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2306.505	44972.79	7295.319	1955.618	3288.233
Stddev	4.354	114.92	46.379	11.012	6.940
%RSD	.1887681	.2555313	.6357404	.5630800	.2110406
#1	2301.796	44965.66	7247.733	1957.373	3280.262
#2	2307.335	44861.60	7340.389	1943.835	3291.508
#3	2310.385	45091.11	7297.835	1965.647	3292.928

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13DUP Acquired: 12/20/2024 19:37:00 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.004928	-.003811	.0002009	-.001214	.0006163	.0219188	.0278131
Stddev	.001200	.000966	.0010752	.001310	.0004040	.0041267	.0003440
%RSD	24.35496	25.34821	535.1984	107.9450	65.54795	18.82733	1.236825
#1	-.003690	-.003081	.0000021	-.002663	.0002778	.0200318	.0274991
#2	-.005008	-.004907	-.000761	-.000865	.0010635	.0266517	.0277596
#3	-.006086	-.003446	.001362	-.000113	.0005077	.0190730	.0281808

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000052	-.000154	6.393140	.0006040	.0005100	.0009420	.0906871
Stddev	.000033	.000052	.034986	.0003198	.0001078	.0001225	.0045935
%RSD	63.77775	34.00983	.5472452	52.93954	21.14289	13.00844	5.065245
#1	-.000074	-.000148	6.352763	.0006317	.0006304	.0010487	.0882594
#2	-.000070	-.000105	6.412189	.0002713	.0004223	.0009692	.0959851
#3	-.000014	-.000210	6.414468	.0009090	.0004773	.0008082	.0878169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2056500	.9810945	.0017907	-.000322	58.02367	-.002416	.0192091
Stddev	.0022039	.0209606	.0002234	.000313	.19929	.000717	.0003010
%RSD	1.071662	2.136445	12.47781	97.12084	.3434576	29.66130	1.566691
#1	.2033947	1.005248	.0016528	-.000662	57.86695	-.001614	.0195492
#2	.2057569	.970360	.0016708	-.000048	58.24795	-.002642	.0191010
#3	.2077985	.967676	.0020484	-.000255	57.95609	-.002993	.0189771

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9586532	.0075462	.0000393	-.000510	.0019706	.9208098	.0062251
Stddev	.0009828	.0008188	.0001172	.001055	.0005964	.0065180	.0007300
%RSD	.1025184	10.85081	298.1227	206.9018	30.26340	.7078594	11.72667
#1	.9580891	.0067605	.0000480	.000126	.0025248	.9236001	.0062961
#2	.9580825	.0083945	-.000082	.000072	.0020475	.9133611	.0069170
#3	.9597880	.0074835	.000152	-.001727	.0013395	.9254682	.0054622

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13DUP Acquired: 12/20/2024 19:37:00 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.708934	-.005143	.0486246
Stddev	.006620	.000484	.0001544
%RSD	.3873850	9.404099	.3174986
#1	1.709788	-.004768	.0484630
#2	1.715086	-.004973	.0486400
#3	1.701929	-.005689	.0487706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2347.994	45503.75	7454.415	1978.076	3372.830
Stddev	3.635	189.08	11.019	13.286	6.040
%RSD	.1547969	.4155197	.1478179	.6716700	.1790856
#1	2350.483	45369.64	7444.943	1965.565	3378.474
#2	2343.823	45421.60	7451.795	1976.644	3366.459
#3	2349.677	45720.00	7466.508	1992.021	3373.558

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13LX5 Acquired: 12/20/2024 19:41:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001917	-.000438	.0007518	-.000247	.0011970	.0044953	.0034906
Stddev	.002181	.001229	.0014701	.002675	.0013999	.0045742	.0002996
%RSD	113.7650	280.1891	195.5491	1084.918	116.9566	101.7554	8.581969
#1	-.000961	.000054	.0002460	-.000140	-.000010	.0090661	.0031655
#2	-.004413	.000467	-.000399	-.002974	.002732	.0045019	.0035506
#3	-.000377	-.001837	.002408	.002374	.000869	-.000082	.0037555

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000032	-.000149	1.296421	.0000798	-.000055	.0001591	.0147766
Stddev	.000041	.000098	.020304	.0003108	.000170	.0001663	.0066020
%RSD	128.8461	65.65666	1.566172	389.4195	309.0277	104.5226	44.67880
#1	.000015	-.000257	1.276248	.0004027	.000122	.0000827	.0089942
#2	-.000050	-.000122	1.296161	.0000541	-.000218	.0003498	.0133656
#3	-.000061	-.000067	1.316854	-.000217	-.000069	.0000448	.0219701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0418746	.1936797	-.000066	-.000250	11.89949	-.002052	.0017251
Stddev	.0006361	.0081205	.000167	.000196	.04472	.002818	.0001054
%RSD	1.519127	4.192728	254.4499	78.20631	.3758175	137.3273	6.111347
#1	.0412474	.1857458	-.000215	-.000045	11.92387	-.003351	.0017858
#2	.0425193	.1933185	.000115	-.000435	11.92672	-.003986	.0017862
#3	.0418569	.2019747	-.000097	-.000271	11.84788	.001181	.0016034

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2981621	-.003663	-.000320	-.000289	.0014140	.1861363	-.001987
Stddev	.0232242	.000444	.000305	.000621	.0001510	.0069615	.003219
%RSD	7.789118	12.13157	95.29382	214.5930	10.67805	3.739997	162.0091
#1	.3247366	-.003174	-.000095	.000370	.0015259	.1835944	-.001193
#2	.2879909	-.003775	-.000667	-.000862	.0012423	.1940116	-.005529
#3	.2817587	-.004041	-.000198	-.000376	.0014740	.1808030	.000761

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13LX5 Acquired: 12/20/2024 19:41:20 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.3619437	-.001704	.0097225
Stddev	.0013076	.000636	.0000795
%RSD	.3612779	37.32177	.8171343
#1	.3626761	-.001942	.0097690
#2	.3627210	-.002186	.0096308
#3	.3604340	-.000983	.0097678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2336.369	45276.96	7404.031	1984.346	3358.894
Stddev	3.438	102.01	33.101	7.869	6.537
%RSD	.1471553	.2253125	.4470641	.3965303	.1946083
#1	2334.727	45327.25	7431.498	1992.559	3353.450
#2	2334.060	45159.56	7413.316	1976.875	3357.088
#3	2340.320	45344.06	7367.280	1983.603	3366.144

Sample Name: P5291-13MS Acquired: 12/20/2024 19:45:39 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8075820	1.910127	.9603356	1.882877	.7857314	1.863635	.2065296
Stddev	.0018394	.001569	.0028061	.001781	.0026087	.001011	.0003040
%RSD	.2277649	.0821526	.2921955	.0945905	.3320054	.0542751	.1472064
#1	.8094359	1.910108	.9630950	1.880877	.7882904	1.864165	.2068787
#2	.8057575	1.911705	.9574851	1.883464	.7858281	1.864272	.2063873
#3	.8075527	1.908567	.9604266	1.884291	.7830757	1.862469	.2063228

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1808960	.1920332	7.517162	.4157408	.1973107	.3019592	3.118831
Stddev	.0003534	.0002565	.021318	.0021063	.0000628	.0004218	.004956
%RSD	.1953784	.1335814	.2835917	.5066279	.0318370	.1396744	.1589094
#1	.1812919	.1918260	7.504861	.4157197	.1972383	.3021489	3.114920
#2	.1807840	.1919536	7.504848	.4136451	.1973505	.3022528	3.117168
#3	.1806121	.1923201	7.541779	.4178575	.1973433	.3014759	3.124405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4025436	2.856843	.4930706	.0432663	61.70183	.2793487	.2199888
Stddev	.0012818	.033446	.0007622	.0006019	.28880	.0014076	.0022376
%RSD	.3184140	1.170748	.1545897	1.391119	.4680648	.5038711	1.017143
#1	.4028513	2.820164	.4921938	.0439526	61.52398	.2794642	.2216870
#2	.4011361	2.864710	.4934425	.0430181	61.54645	.2806950	.2174533
#3	.4036436	2.885654	.4935755	.0428282	62.03506	.2778870	.2208262

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.86342	.2580458	.4088967	.6892025	.1844830	1.712244	5.630525
Stddev	.08699	.0015260	.0007818	.0015856	.0000793	.014741	.011889
%RSD	.8007854	.5913752	.1911869	.2300643	.0429720	.8609225	.2111541
#1	10.80736	.2585066	.4086784	.6882000	.1843920	1.695983	5.616926
#2	10.81927	.2592883	.4082473	.6883770	.1845367	1.716020	5.635693
#3	10.96364	.2563425	.4097644	.6910306	.1845205	1.724730	5.638955

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13MS Acquired: 12/20/2024 19:45:39 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.756264	.1804040	.2382524
Stddev	.003776	.0004696	.0004949
%RSD	.2150041	.2602998	.2077332
#1	1.760611	.1805864	.2378981
#2	1.753803	.1798706	.2380412
#3	1.754376	.1807550	.2388179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2303.136	45308.43	7391.215	1973.351	3243.472
Stddev	5.815	200.98	21.430	5.979	7.956
%RSD	.2524765	.4435738	.2899362	.3029875	.2453021
#1	2309.842	45315.75	7371.589	1968.751	3252.328
#2	2300.080	45505.64	7414.080	1980.110	3241.164
#3	2299.487	45103.89	7387.977	1971.193	3236.926

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13MSD Acquired: 12/20/2024 19:49:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7973997	1.908219	.9548575	1.870127	.7804216	1.860183	.2067942
Stddev	.0041396	.013052	.0027313	.006301	.0038754	.003366	.0008113
%RSD	.5191414	.6839764	.2860418	.3369249	.4965739	.1809608	.3923083
#1	.7933055	1.918911	.9576531	1.862975	.7762893	1.856338	.2071848
#2	.8015833	1.893675	.9521954	1.874860	.7839749	1.861606	.2058615
#3	.7973102	1.912072	.9547240	1.872546	.7810007	1.862603	.2073363

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1808693	.1909772	7.518477	.4131267	.1962104	.3005162	3.077447
Stddev	.0008528	.0002798	.019564	.0017619	.0006176	.0010774	.009084
%RSD	.4715006	.1465133	.2602101	.4264690	.3147686	.3585087	.2951806
#1	.1807874	.1910441	7.502936	.4149404	.1958676	.2994217	3.081564
#2	.1800603	.1906699	7.512049	.4114218	.1958401	.3015756	3.083743
#3	.1817600	.1912174	7.540446	.4130178	.1969234	.3005514	3.067033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4029917	2.886585	.4916035	.0423093	61.07249	.2810658	.2185570
Stddev	.0019938	.014328	.0009731	.0001903	.14119	.0016449	.0006402
%RSD	.4947454	.4963706	.1979412	.4498533	.2311810	.5852395	.2929288
#1	.4006934	2.883603	.4915644	.0422618	60.99984	.2808166	.2182466
#2	.4042573	2.873982	.4906506	.0425188	61.23521	.2795598	.2192933
#3	.4040244	2.902169	.4925956	.0421472	60.98243	.2828212	.2181312

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.73269	.2576621	.4076092	.6868515	.1840654	1.678021	5.578225
Stddev	.01170	.0010599	.0006229	.0022065	.0008902	.010436	.004873
%RSD	.1090096	.4113557	.1528168	.3212410	.4836255	.6219003	.0873540
#1	10.73778	.2588852	.4070669	.6843443	.1832251	1.670688	5.579388
#2	10.74098	.2570882	.4074711	.6877128	.1839729	1.689968	5.572875
#3	10.71931	.2570129	.4082895	.6884974	.1849983	1.673406	5.582410

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13MSD Acquired: 12/20/2024 19:49:41 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.741781	.1807019	.2386149
Stddev	.010193	.0004838	.0008424
%RSD	.5852064	.2677154	.3530376
#1	1.743867	.1811471	.2376426
#2	1.730706	.1807714	.2391247
#3	1.750770	.1801871	.2390776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2319.192	45722.05	7380.217	1989.985	3265.197
Stddev	7.112	195.80	54.806	7.702	6.209
%RSD	.3066370	.4282329	.7426105	.3870468	.1901580
#1	2327.006	45802.16	7395.045	1997.043	3272.122
#2	2313.099	45865.08	7426.083	1991.144	3263.344
#3	2317.470	45498.90	7319.522	1981.770	3260.126

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13A Acquired: 12/20/2024 19:53:43 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7900295	1.897039	.9446244	1.848410	.7765449	1.860655	.2075806
Stddev	.0046228	.014379	.0043885	.006914	.0030310	.017718	.0009094
%RSD	.5851404	.7579881	.4645740	.3740461	.3903189	.9522533	.4380962
#1	.7929432	1.881739	.9496429	1.842377	.7745215	1.880295	.2085351
#2	.7846993	1.899103	.9427239	1.846898	.7750835	1.855798	.2074824
#3	.7924460	1.910274	.9415066	1.855954	.7800297	1.845872	.2067243

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1796278	.1890770	7.522521	.4115104	.1943718	.2978052	3.094832
Stddev	.0003273	.0001760	.033597	.0010336	.0004110	.0007028	.013823
%RSD	.1821901	.0931075	.4466206	.2511782	.2114305	.2360048	.4466542
#1	.1793719	.1890891	7.493656	.4113045	.1940543	.2971218	3.109316
#2	.1799965	.1888952	7.559400	.4105951	.1942251	.2977680	3.081781
#3	.1795148	.1892466	7.514507	.4126314	.1948360	.2985260	3.093398

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4020662	2.883003	.4855848	.0423626	61.20194	.2822333	.2176224
Stddev	.0014295	.005432	.0008686	.0004141	.13498	.0001680	.0008892
%RSD	.3555252	.1884241	.1788691	.9773889	.2205514	.0595218	.4085823
#1	.4005522	2.889263	.4846639	.0418892	61.17447	.2824204	.2186288
#2	.4022536	2.880219	.4857012	.0426575	61.08281	.2820953	.2172954
#3	.4033926	2.879528	.4863893	.0425410	61.34855	.2821841	.2169431

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.78144	.2568804	.4085840	.6795480	.1855552	1.705683	5.456462
Stddev	.05062	.0013356	.0009313	.0018300	.0010307	.017769	.018753
%RSD	.4695001	.5199177	.2279380	.2693035	.5554816	1.041767	.3436901
#1	10.83216	.2579550	.4084349	.6775683	.1864932	1.705871	5.436470
#2	10.73092	.2573011	.4077363	.6811780	.1844518	1.687820	5.459252
#3	10.78124	.2553851	.4095809	.6798975	.1857205	1.723357	5.473664

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13A Acquired: 12/20/2024 19:53:43 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.699866	.1807942	.2381945
Stddev	.003450	.0008079	.0006937
%RSD	.2029484	.4468445	.2912389
#1	1.696958	.1817233	.2373935
#2	1.698964	.1804024	.2386033
#3	1.703678	.1802570	.2385867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2347.218	45939.26	7423.954	1991.849	3333.782
Stddev	5.247	86.70	24.468	11.384	8.944
%RSD	.2235363	.1887341	.3295802	.5715090	.2682939
#1	2353.270	45850.12	7404.000	1980.057	3343.951
#2	2344.444	46023.29	7416.608	1992.717	3327.136
#3	2343.941	45944.36	7451.253	2002.774	3330.260

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV05 Acquired: 12/20/2024 19:57:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	5.057654	5.036500	5.016213	5.073190	5.044139	9.785169	9.373134
Stddev	.001921	.027279	.011031	.012050	.007878	.025700	.033344
%RSD	.0379908	.5416293	.2198976	.2375298	.1561735	.2626409	.3557371
#1	5.059657	5.005775	5.010216	5.069224	5.048628	9.755798	9.391244
#2	5.055826	5.057874	5.009481	5.086723	5.048746	9.803529	9.393504
#3	5.057479	5.045850	5.028943	5.063623	5.035043	9.796180	9.334654

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2424828	2.513243	24.26658	1.028827	2.500246	1.268865	5.056208
Stddev	.0010723	.001937	.05543	.000161	.003167	.003074	.027257
%RSD	.4422105	.0770658	.2284375	.0156224	.1266492	.2422726	.5390761
#1	.2431429	2.512242	24.22466	1.028646	2.498131	1.271915	5.024763
#2	.2430600	2.512012	24.32943	1.028885	2.498721	1.268914	5.073082
#3	.2412456	2.515476	24.24564	1.028951	2.503887	1.265767	5.070780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.485774	24.92065	2.509084	1.262756	25.66678	2.431445	2.520306
Stddev	.006793	.03860	.003183	.001325	.11573	.008361	.002112
%RSD	.2732680	.1548982	.1268513	.1049415	.4508955	.3438575	.0837837
#1	2.478178	24.91760	2.506906	1.262939	25.57143	2.422875	2.519643
#2	2.491265	24.88366	2.507609	1.261349	25.63336	2.439579	2.518606
#3	2.487879	24.96068	2.512736	1.263980	25.79554	2.431881	2.522670

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.27382	4.757285	4.990727	5.023350	4.787321	5.202112	4.996720
Stddev	.15437	.016167	.010092	.000869	.016308	.059822	.008122
%RSD	.6108012	.3398346	.2022185	.0173053	.3406544	1.149956	.1625523
#1	25.18042	4.761357	5.001626	5.023860	4.768508	5.151124	4.989050
#2	25.18904	4.771027	4.988849	5.022347	4.796015	5.187247	4.995882
#3	25.45201	4.739472	4.981705	5.023845	4.797439	5.267965	5.005229

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV05 Acquired: 12/20/2024 19:57:45 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	5.002645	4.705933	4.986556
Stddev	.016074	.010343	.034823
%RSD	.3213069	.2197829	.6983400
#1	4.988870	4.695658	4.946883
#2	5.020306	4.716342	5.012067
#3	4.998761	4.705800	5.000718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2262.769	43890.69	6994.104	1897.107	3093.124
Stddev	8.634	101.92	15.000	5.189	3.721
%RSD	.3815506	.2322099	.2144692	.2735468	.1202981
#1	2253.025	43885.77	6986.958	1899.990	3089.561
#2	2265.816	43994.98	6984.013	1900.215	3096.985
#3	2269.465	43791.33	7011.341	1891.116	3092.826

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB05 Acquired: 12/20/2024 20:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000837	.0017751	.0011860	.0012642	.0005190	.0075902	-.003250
Stddev	.002481	.0004162	.0010468	.0014171	.0001411	.0129416	.000194
%RSD	296.5336	23.44729	88.26748	112.0894	27.17863	170.5051	5.977800
#1	.001261	.0022062	.0004054	.0006068	.0004030	-.000733	-.003110
#2	-.000196	.0017434	.0007769	.0002952	.0004780	.001003	-.003170
#3	-.003575	.0013756	.0023755	.0028906	.0006761	.022500	-.003472

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000377	-.000098	-.008102	-.000493	-.000153	-.000538	-.005579
Stddev	.0000634	.000016	.008424	.000281	.000214	.000434	.007193
%RSD	168.0866	16.71585	103.9763	56.97055	139.9300	80.66954	128.9458
#1	.0001109	-.000086	-.017829	-.000189	.000068	-.001005	-.013681
#2	.0000041	-.000091	-.003181	-.000743	-.000361	-.000461	.000055
#3	-.000002	-.000117	-.003295	-.000545	-.000167	-.000147	-.003110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000313	.0055645	-.000361	-.000076	.0086642	-.002103	-.003042
Stddev	.000187	.0090856	.000217	.000442	.0067307	.002822	.000242
%RSD	59.84573	163.2779	59.93992	577.5486	77.68358	134.2032	7.950087
#1	-.000274	-.001412	-.000394	-.000086	.0011124	-.004064	-.003228
#2	-.000148	.015838	-.000130	-.000514	.0140306	.001131	-.002768
#3	-.000516	.002267	-.000560	.000370	.0108496	-.003376	-.003129

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1383182	.0002032	-.000157	-.000381	.0008291	.0094621	-.004649
Stddev	.0255999	.0001790	.000275	.000047	.0004156	.0124409	.001081
%RSD	18.50798	88.11144	174.6725	12.33976	50.13029	131.4820	23.25765
#1	.1384415	.0003981	-.000046	-.000391	.0007127	.0014647	-.003553
#2	.1638563	.0000463	.000044	-.000422	.0004841	.0031260	-.005714
#3	.1126569	.0001651	-.000471	-.000330	.0012905	.0237955	-.004680

Sample Name: CCB05 Acquired: 12/20/2024 20:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.009804	-.001202	-.000264
Stddev	.002338	.001394	.000051
%RSD	23.85289	115.9992	19.26506
#1	-.009845	-.002690	-.000206
#2	-.012121	-.000989	-.000298
#3	-.007445	.000074	-.000288

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2376.414	46301.14	7397.327	2028.646	3472.711
Stddev	4.978	80.35	48.783	6.538	2.749
%RSD	.2094940	.1735459	.6594630	.3222733	.0791551
#1	2380.629	46371.29	7440.956	2027.324	3475.661
#2	2377.692	46213.47	7406.369	2035.744	3470.222
#3	2370.921	46318.67	7344.656	2022.870	3472.250

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-02 Acquired: 12/20/2024 20:06:17 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0374128	.0032774	.1577409	-.044353	.0002577	146.9317	.5382919
Stddev	.0023039	.0013778	.0000989	.004359	.0026201	.3823	.0010561
%RSD	6.158102	42.03847	.0627121	9.827383	1016.840	.2601706	.1961998
#1	.0349577	.0021759	.1578127	-.040066	-.001256	146.5010	.5371122
#2	.0395277	.0048223	.1576281	-.048780	-.001254	147.0635	.5391493
#3	.0377531	.0028340	.1577819	-.044213	.003283	147.2307	.5386144

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091250	-.000870	7.817367	.2235148	.1042354	.6081361	244.8102
Stddev	.0000331	.000165	.023243	.0004130	.0006835	.0010137	.9374
%RSD	.3626005	18.98524	.2973191	.1847990	.6556991	.1666978	.3829019
#1	.0090869	-.000682	7.794757	.2237165	.1036134	.6091733	243.8340
#2	.0091458	-.000936	7.841194	.2230396	.1041259	.6080872	244.8934
#3	.0091424	-.000992	7.816148	.2237882	.1049671	.6071476	245.7032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.091978	35.98603	.1950168	-.004121	4.221366	.2957981	.3879271
Stddev	.007127	.17667	.0000761	.000194	.019567	.0014571	.0018478
%RSD	.3406659	.4909317	.0390199	4.711702	.4635331	.4925909	.4763295
#1	2.084619	35.78327	.1950217	-.004319	4.203466	.2943256	.3862329
#2	2.092466	36.06799	.1949384	-.003931	4.218374	.2958294	.3876509
#3	2.098847	36.10682	.1950904	-.004114	4.242257	.2972392	.3898974

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87624	.1570000	.0042155	.0079757	2.409653	9.854726	5.316832
Stddev	.06248	.0016006	.0003188	.0004564	.004555	.058942	.011052
%RSD	.5260753	1.019504	7.563467	5.722905	.1890110	.5981085	.2078698
#1	11.91373	.1551534	.0039700	.0085007	2.404708	9.826881	5.311264
#2	11.80411	.1579912	.0041007	.0077538	2.410572	9.814865	5.309672
#3	11.91087	.1578553	.0045759	.0076726	2.413677	9.922432	5.329561

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-02 Acquired: 12/20/2024 20:06:17 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.572014	.1651117	-.170639
Stddev	.001084	.0013653	.000707
%RSD	.0689380	.8268754	.4143218
#1	1.572276	.1663706	-.169973
#2	1.572944	.1653039	-.170564
#3	1.570824	.1636605	-.171381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2639.815	50520.61	8717.446	2248.398	3153.347
Stddev	1.464	140.02	12.761	11.852	3.921
%RSD	.0554433	.2771508	.1463886	.5271249	.1243363
#1	2640.440	50596.88	8702.838	2258.430	3157.815
#2	2638.142	50605.92	8723.075	2251.445	3151.747
#3	2640.862	50359.01	8726.425	2235.321	3150.480

Sample Name: P5299-03 Acquired: 12/20/2024 20:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0213998	.0004322	.2152325	-.038275	.0003786	106.6021	.7331376
Stddev	.0044640	.0018455	.0015682	.002326	.0019293	.3576	.0035610
%RSD	20.85994	426.9831	.7286112	6.076213	509.6391	.3354566	.4857184
#1	.0261736	-.000306	.2166574	-.035724	-.001844	106.1980	.7291025
#2	.0206968	-.000930	.2135523	-.038822	.001616	106.8778	.7344705
#3	.0173290	.002533	.2154877	-.040278	.001364	106.7304	.7358399

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081967	-.000434	23.97872	.4165541	.1194882	.4712615	234.6374
Stddev	.0000530	.000229	.10300	.0001997	.0003026	.0004983	.8267
%RSD	.6470928	52.77472	.4295281	.0479388	.2532430	.1057467	.3523163
#1	.0082374	-.000242	23.86125	.4163260	.1196956	.4706862	234.2290
#2	.0082159	-.000372	24.02139	.4166387	.1196280	.4715415	234.0944
#3	.0081367	-.000687	24.05352	.4166975	.1191410	.4715570	235.5888

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.898409	39.68434	.3167720	-.003367	3.357244	.2643445	.4821626
Stddev	.011242	.17720	.0007284	.000323	.004779	.0032688	.0017718
%RSD	.3878733	.4465196	.2299377	9.590670	.1423573	1.236585	.3674597
#1	2.893866	39.49929	.3159371	-.003180	3.352596	.2678594	.4841609
#2	2.911211	39.85247	.3172777	-.003740	3.356991	.2637784	.4807839
#3	2.890149	39.70126	.3171011	-.003181	3.362145	.2613957	.4815429

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.00425	.1461421	.0392041	.0190437	3.346328	6.250787	5.883790
Stddev	.13545	.0022406	.0004322	.0016668	.015868	.015723	.002237
%RSD	.4368888	1.533154	1.102369	8.752486	.4741889	.2515442	.0380122
#1	30.94262	.1454116	.0395878	.0194677	3.328143	6.245515	5.885586
#2	30.91056	.1443579	.0387360	.0172058	3.357366	6.238377	5.881285
#3	31.15955	.1486567	.0392886	.0204575	3.353474	6.268469	5.884498

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-03 Acquired: 12/20/2024 20:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	6.885805	.1962467	-.133573
Stddev	.017159	.0011347	.000664
%RSD	.2491995	.5782048	.4969416
#1	6.878154	.1951556	-.133566
#2	6.905459	.1961641	-.132912
#3	6.873802	.1974205	-.134239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2588.505	49987.74	8590.505	2206.198	3069.501
Stddev	5.791	73.16	36.153	3.540	10.756
%RSD	.2237257	.1463584	.4208450	.1604569	.3504132
#1	2595.011	49932.45	8612.770	2202.575	3081.724
#2	2583.916	49960.07	8548.792	2209.648	3061.483
#3	2586.587	50070.70	8609.955	2206.370	3065.297

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04 Acquired: 12/20/2024 20:14:28 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0308353	.0050872	.1950612	-.039115	.0004295	103.9290	.6055649
Stddev	.0016402	.0014978	.0019466	.004363	.0010947	.1704	.0008530
%RSD	5.319267	29.44278	.9979348	11.15355	254.8729	.1639883	.1408620
#1	.0322223	.0033587	.1962480	-.041894	.0013458	103.7700	.6061802
#2	.0290249	.0060022	.1928147	-.041364	-.000783	103.9082	.6045912
#3	.0312587	.0059008	.1961209	-.034086	.000725	104.1089	.6059234

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089368	.0009997	17.02687	.3189381	.1016977	.2501108	224.8619
Stddev	.0001163	.0001608	.03176	.0007678	.0006102	.0011531	.0615
%RSD	1.301301	16.08443	.1865002	.2407422	.6000049	.4610450	.0273670
#1	.0089018	.0008222	17.05429	.3197179	.1017419	.2494522	224.9102
#2	.0088421	.0010410	16.99208	.3181828	.1010666	.2494379	224.8829
#3	.0090666	.0011357	17.03422	.3189136	.1022846	.2514423	224.7926

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.324828	33.93779	.2190802	-.003123	2.051064	.2727168	.4653428
Stddev	.003445	.07507	.0004713	.000079	.004089	.0014754	.0019117
%RSD	.1481729	.2211997	.2151278	2.538346	.1993703	.5409807	.4108156
#1	2.320853	33.94595	.2187608	-.003186	2.047193	.2721899	.4657619
#2	2.326684	33.85898	.2188583	-.003148	2.055341	.2715773	.4632563
#3	2.326947	34.00845	.2196215	-.003034	2.050659	.2743833	.4670102

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.70109	.1412891	.0115849	.0108852	2.125571	6.994317	4.822460
Stddev	.00749	.0016472	.0001481	.0006347	.002575	.012368	.012534
%RSD	.0546529	1.165808	1.278437	5.830927	.1211596	.1768247	.2599084
#1	13.69611	.1431816	.0116363	.0113078	2.123147	6.980644	4.810023
#2	13.70971	.1405073	.0117005	.0111925	2.125293	6.997582	4.822266
#3	13.69747	.1401785	.0114180	.0101554	2.128275	7.004724	4.835089

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04 Acquired: 12/20/2024 20:14:28 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	8.948818	.1630713	-.126439
Stddev	.020901	.0017601	.000367
%RSD	.2335665	1.079330	.2903069
#1	8.940068	.1612002	-.126740
#2	8.933714	.1633195	-.126546
#3	8.972673	.1646940	-.126030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2684.905	52445.16	8963.528	2295.807	3160.658
Stddev	3.436	88.01	14.212	3.171	5.341
%RSD	.1279880	.1678175	.1585544	.1381320	.1689950
#1	2681.913	52364.02	8949.070	2295.878	3155.924
#2	2688.658	52432.73	8977.481	2298.941	3166.449
#3	2684.143	52538.72	8964.032	2292.600	3159.601

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04DUP Acquired: 12/20/2024 20:18:33 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0307215	.0003857	.1958240	-.042710	-.001599	104.8746	.6064415
Stddev	.0035636	.0018933	.0018721	.002219	.001650	.2416	.0017224
%RSD	11.59975	490.8744	.9559968	5.195073	103.1554	.2304136	.2840131
#1	.0339919	-.001763	.1938380	-.041165	-.003504	104.6917	.6052846
#2	.0269235	.001112	.1975562	-.041713	-.000601	104.7835	.6056189
#3	.0312491	.001808	.1960780	-.045252	-.000693	105.1485	.6084209

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090507	.0008120	17.16024	.3217564	.1028897	.2532591	226.6024
Stddev	.0001517	.0003143	.03828	.0004008	.0005077	.0021413	1.8676
%RSD	1.676073	38.70562	.2230594	.1245768	.4934600	.8455008	.8241677
#1	.0092259	.0009566	17.11617	.3213310	.1029588	.2555222	224.8737
#2	.0089596	.0010281	17.18522	.3218113	.1023509	.2529902	226.3503
#3	.0089668	.0004515	17.17933	.3221270	.1033593	.2512650	228.5833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.342227	34.12981	.2203602	-.003418	2.062521	.2731441	.4719752
Stddev	.005259	.05257	.0005240	.000428	.019207	.0027001	.0020707
%RSD	.2245160	.1540341	.2377910	12.51212	.9312202	.9885212	.4387321
#1	2.336448	34.07496	.2200278	-.003525	2.051920	.2710493	.4742620
#2	2.346731	34.17976	.2200885	-.003782	2.050951	.2721916	.4714363
#3	2.343502	34.13471	.2209642	-.002947	2.084692	.2761913	.4702272

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.77451	.1421978	.0112771	.0105989	2.137853	7.053179	4.870338
Stddev	.12396	.0034924	.0002303	.0006550	.004878	.046861	.010250
%RSD	.8999372	2.456034	2.042095	6.179477	.2281750	.6643988	.2104481
#1	13.68472	.1393753	.0114290	.0112997	2.132229	7.034200	4.859908
#2	13.72286	.1411146	.0110121	.0104947	2.140399	7.018784	4.880397
#3	13.91594	.1461035	.0113901	.0100023	2.140932	7.106552	4.870710

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04DUP Acquired: 12/20/2024 20:18:33 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	9.052151	.1628972	-.126822
Stddev	.030102	.0013151	.001581
%RSD	.3325343	.8073428	1.246973
#1	9.018107	.1642268	-.125278
#2	9.063106	.1615970	-.126750
#3	9.075242	.1628680	-.128438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2660.523	51594.50	8815.878	2268.971	3127.673
Stddev	6.238	93.76	40.929	7.409	2.747
%RSD	.2344801	.1817279	.4642659	.3265516	.0878299
#1	2654.552	51664.99	8788.010	2265.837	3126.788
#2	2660.017	51630.42	8796.757	2263.644	3125.476
#3	2666.999	51488.09	8862.869	2277.432	3130.753

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04LX5 Acquired: 12/20/2024 20:22:40 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0048462	.0006036	.0409682	-.012718	-.000780	24.13784	.1368197
Stddev	.0018348	.0007688	.0003282	.003482	.000956	.07332	.0006197
%RSD	37.85980	127.3727	.8010497	27.38137	122.5799	.3037757	.4529233
#1	.0069565	.0003029	.0406463	-.016566	-.001617	24.06114	.1373130
#2	.0036286	.0014773	.0413023	-.011809	.000262	24.20724	.1370220
#3	.0039535	.0000306	.0409559	-.009781	-.000985	24.14513	.1361242

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021781	-.000897	4.029927	.0764975	.0205426	.0601464	50.95678
Stddev	.0000906	.000056	.008339	.0002865	.0000730	.0001171	.39570
%RSD	4.162171	6.295079	.2069167	.3745524	.3551845	.1947078	.7765483
#1	.0021659	-.000932	4.025163	.0761721	.0205565	.0600111	51.33133
#2	.0020941	-.000832	4.039555	.0766083	.0206076	.0602138	50.54287
#3	.0022742	-.000927	4.025062	.0767120	.0204637	.0602142	50.99615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5536309	8.103865	.0450407	-.000584	.4424636	.0605111	.1073586
Stddev	.0020662	.044735	.0001698	.000504	.0104145	.0002557	.0003197
%RSD	.3732082	.5520198	.3769477	86.33956	2.353762	.4225910	.2978051
#1	.5515096	8.128707	.0451135	-.000313	.4481905	.0606125	.1077194
#2	.5556372	8.130667	.0451620	-.001166	.4304424	.0602203	.1071106
#3	.5537457	8.052222	.0448467	-.000273	.4487581	.0607007	.1072458

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.143684	.0227170	.0021109	.0002704	.4947815	1.565177	.9501747
Stddev	.019142	.0012899	.0000754	.0010455	.0008423	.024302	.0044870
%RSD	.6088927	5.678066	3.571552	386.6489	.1702404	1.552644	.4722273
#1	3.165773	.0240778	.0021864	.0007240	.4950262	1.590954	.9528862
#2	3.131969	.0215122	.0020356	.0010124	.4954744	1.542685	.9526425
#3	3.133310	.0225608	.0021107	-.000925	.4938439	1.561892	.9449955

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04LX5 Acquired: 12/20/2024 20:22:40 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.733579	.0347223	-.028083
Stddev	.008199	.0010871	.000522
%RSD	.4729487	3.130820	1.858746
#1	1.729222	.0334734	-.028634
#2	1.743037	.0352375	-.027596
#3	1.728479	.0354560	-.028019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2452.415	46889.45	7682.713	2056.856	3379.934
Stddev	3.428	52.75	49.655	4.973	3.995
%RSD	.1397739	.1125010	.6463242	.2417833	.1181862
#1	2448.457	46892.20	7717.646	2054.075	3375.352
#2	2454.392	46940.78	7625.872	2053.895	3381.761
#3	2454.397	46835.38	7704.622	2062.597	3382.688

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04MS Acquired: 12/20/2024 20:26:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6619207	1.835894	1.122804	1.415020	.2765911	116.2279	.6919509
Stddev	.0035925	.014727	.004881	.004624	.0018808	.1123	.0024393
%RSD	.5427375	.8021615	.4346980	.3267860	.6799878	.0966341	.3525297
#1	.6655464	1.846201	1.128018	1.419580	.2769246	116.0993	.6892485
#2	.6583624	1.819028	1.118345	1.410335	.2782828	116.2775	.6939900
#3	.6618533	1.842455	1.122048	1.415145	.2745659	116.3069	.6926140

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1566533	.1873091	14.04859	.5872557	.2938476	.4761691	193.4042
Stddev	.0005700	.0007359	.02051	.0001370	.0005852	.0024826	.9267
%RSD	.3638785	.3928749	.1459959	.0233330	.1991457	.5213645	.4791360
#1	.1569453	.1881139	14.02516	.5873390	.2944721	.4790344	192.4637
#2	.1570182	.1871426	14.06329	.5870975	.2937589	.4748128	193.4325
#3	.1559964	.1866707	14.05732	.5873304	.2933119	.4746601	194.3164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.282306	36.26084	.6741359	.0589901	4.450196	.4740200	.6536287
Stddev	.002006	.06619	.0017081	.0001214	.012799	.0017208	.0010875
%RSD	.0879019	.1825346	.2533731	.2057674	.2875984	.3630287	.1663785
#1	2.280925	36.28972	.6759165	.0588944	4.442441	.4724892	.6548544
#2	2.281387	36.30768	.6739804	.0591266	4.443179	.4736881	.6532523
#3	2.284608	36.18512	.6725110	.0589493	4.464969	.4758825	.6527794

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.04927	.2945300	.3264547	.6453775	2.304644	7.314316	9.987635
Stddev	.03286	.0009585	.0011170	.0031861	.002979	.041547	.020996
%RSD	.1639076	.3254240	.3421555	.4936820	.1292590	.5680268	.2102227
#1	20.01568	.2934232	.3274958	.6479794	2.301396	7.268641	10.00721
#2	20.05078	.2950862	.3252748	.6463292	2.307249	7.324442	9.96546
#3	20.08136	.2950805	.3265934	.6418240	2.305286	7.349864	9.99024

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04MS Acquired: 12/20/2024 20:26:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	7.696955	.3265577	.0544508
Stddev	.026111	.0004901	.0007482
%RSD	.3392355	.1500922	1.374117
#1	7.727057	.3260833	.0553061
#2	7.680420	.3270622	.0541290
#3	7.683389	.3265276	.0539173

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2762.837	53017.80	8876.093	2324.949	3200.875
Stddev	8.920	18.92	29.323	11.912	6.156
%RSD	.3228717	.0356812	.3303589	.5123376	.1923366
#1	2754.111	53034.78	8869.065	2314.220	3193.850
#2	2771.940	53021.21	8850.923	2337.767	3203.441
#3	2762.460	52997.40	8908.292	2322.859	3205.333

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04MSD Acquired: 12/20/2024 20:30:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6815494	1.858239	1.149141	1.448031	.2808966	116.2199
Stddev	.0019288	.023400	.003107	.005552	.0011624	.2226
%RSD	.2830067	1.259244	.2703813	.3833976	.4138144	.1915397
#1	.6803561	1.835369	1.147998	1.442206	.2813476	115.9833
#2	.6805174	1.857214	1.146767	1.453261	.2817659	116.4252
#3	.6837747	1.882135	1.152658	1.448626	.2795763	116.2511

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6923724	.1592104	.1911738	13.90137	.5888321	.2983209
Stddev	.0017806	.0008344	.0004617	.04256	.0035766	.0004824
%RSD	.2571794	.5240913	.2415125	.3061286	.6074063	.1617109
#1	.6918690	.1583585	.1906700	13.85978	.5875424	.2977971
#2	.6943506	.1600261	.1912748	13.94483	.5860791	.2984186
#3	.6908977	.1592465	.1915767	13.89950	.5928746	.2987470

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4905592	192.8826	2.270530	35.72796	.6866245	.0590076
Stddev	.0005493	.9832	.004896	.09109	.0009586	.0002903
%RSD	.1119638	.5097452	.2156276	.2549410	.1396126	.4920215
#1	.4900072	192.8704	2.265053	35.68714	.6862880	.0592123
#2	.4905649	191.9056	2.272052	35.83231	.6858795	.0586754
#3	.4911056	193.8720	2.274484	35.66442	.6877060	.0591352

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.407507	.4696501	.6592602	20.01739	.2995261	.3289905
Stddev	.018294	.0004524	.0045726	.09017	.0014024	.0011123
%RSD	.4150582	.0963314	.6935963	.4504367	.4682109	.3380972
#1	4.422240	.4691337	.6597449	19.98869	.2986075	.3279314
#2	4.387030	.4699766	.6544646	19.94507	.2988305	.3288909
#3	4.413250	.4698400	.6635712	20.11841	.3011404	.3301493

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04MSD Acquired: 12/20/2024 20:30:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6570137	2.311694	7.397400	F 10.38330	7.957985	.3273185
Stddev	.0028944	.006086	.045429	.04010	.035608	.0016941
%RSD	.4405323	.2632815	.6141183	.3862092	.4474540	.5175677
#1	.6557145	2.309582	7.416384	10.34940	7.927998	.3283713
#2	.6549966	2.318555	7.345558	10.37294	7.948615	.3282198
#3	.6603300	2.306945	7.430257	10.42757	7.997341	.3253643

Elem	Sr4077
Units	ppm
Avg	.0539830
Stddev	.0009499
%RSD	1.759571
#1	.0536724
#2	.0550493
#3	.0532274

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2686.440	52321.13	8687.479	2280.528	3097.887
Stddev	2.591	276.48	21.846	12.657	1.684
%RSD	.0964554	.5284261	.2514608	.5550021	.0543452
#1	2683.517	52310.07	8705.790	2275.533	3098.066
#2	2688.456	52602.97	8663.298	2294.920	3099.475
#3	2687.347	52050.35	8693.350	2271.130	3096.122

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04A Acquired: 12/20/2024 20:34:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6706638	1.835351	1.136615	1.431731	.2775911	116.5573
Stddev	.0003371	.018963	.003615	.002450	.0009842	.2455
%RSD	.0502636	1.033235	.3180589	.1711411	.3545584	.2106625
#1	.6710474	1.857202	1.138567	1.433398	.2773973	116.3004
#2	.6705293	1.825659	1.132444	1.432877	.2767181	116.7897
#3	.6704148	1.823193	1.138835	1.428918	.2786577	116.5818

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6914826	.1593034	.1899690	13.93269	.5860092	.2964101
Stddev	.0020642	.0002117	.0003808	.04920	.0012494	.0004420
%RSD	.2985139	.1328872	.2004431	.3531207	.2131965	.1491059
#1	.6894847	.1595388	.1903812	13.88581	.5860876	.2964421
#2	.6936072	.1591286	.1896304	13.98392	.5847225	.2959530
#3	.6913559	.1592428	.1898952	13.92835	.5872176	.2968352

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4863977	190.7563	2.281918	35.88496	.6820698	.0579708
Stddev	.0005521	.5469	.004775	.05739	.0009862	.0001838
%RSD	.1135163	.2866781	.2092710	.1599193	.1445893	.3170769
#1	.4857839	190.1696	2.277917	35.85005	.6812388	.0580908
#2	.4868541	190.8474	2.287205	35.95119	.6818109	.0580623
#3	.4865550	191.2519	2.280634	35.85363	.6831596	.0577592

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.384913	.4734977	.6533357	19.78281	.2965253	.3266495
Stddev	.010450	.0012043	.0031174	.10949	.0013065	.0008145
%RSD	.2383066	.2543356	.4771478	.5534621	.4405976	.2493502
#1	4.378069	.4748572	.6568948	19.70295	.2951777	.3259209
#2	4.396941	.4730710	.6520229	19.73786	.2966119	.3264988
#3	4.379728	.4725648	.6510894	19.90762	.2977864	.3275289

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5299-04A Acquired: 12/20/2024 20:34:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6510686	2.317916	7.559899	F 10.17587	7.843601	.3268684
Stddev	.0014467	.004585	.018345	.04141	.019365	.0014966
%RSD	.2222053	.1977973	.2426618	.4069276	.2468944	.4578739
#1	.6516277	2.312645	7.538968	10.22367	7.861952	.3282113
#2	.6494258	2.320973	7.573183	10.15299	7.823360	.3252549
#3	.6521523	2.320131	7.567547	10.15094	7.845490	.3271390

Elem	Sr4077
Units	ppm
Avg	.0572246
Stddev	.0005295
%RSD	.9252321
#1	.0571585
#2	.0577840
#3	.0567312

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2732.582	52988.23	8722.787	2318.405	3150.320
Stddev	.918	131.25	26.813	13.575	4.805
%RSD	.0335922	.2476898	.3073853	.5855195	.1525281
#1	2731.589	52837.81	8694.658	2306.224	3145.265
#2	2733.399	53079.47	8725.647	2315.953	3154.828
#3	2732.759	53047.41	8748.054	2333.039	3150.867

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165722BL Acquired: 12/20/2024 20:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001185	.0017642	.0000544	.0017657	-.001166	-.001131	-.002607
Stddev	.001067	.0010301	.0002497	.0034420	.001083	.021149	.001182
%RSD	90.01872	58.38982	458.9242	194.9345	92.88424	1870.622	45.33230
#1	-.002370	.0029112	.0001823	.0056378	-.002078	.009115	-.003839
#2	-.000884	.0014633	.0002144	-.000947	-.001450	-.025451	-.001482
#3	-.000301	.0009180	-.000233	.000606	.000031	.012945	-.002501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000558	-.000091	-.016613	.0001430	-.000030	.0000054	.0006649
Stddev	.0000401	.000044	.000822	.0003901	.000117	.0002791	.0071604
%RSD	71.78880	47.67805	4.945999	272.8327	395.0705	5129.010	1076.853
#1	.0000894	-.000097	-.017484	.0005372	.000103	-.000316	.0016563
#2	.0000114	-.000045	-.015851	.0001348	-.000073	.000181	-.006940
#3	.0000667	-.000132	-.016505	-.000243	-.000119	.000151	.007278

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000456	-.012726	-.000387	.0001468	-.015828	-.002620	-.002965
Stddev	.000287	.011342	.000031	.0003820	.014168	.000688	.000159
%RSD	63.03541	89.12344	7.890405	260.2971	89.51691	26.25252	5.372876
#1	-.000377	-.023772	-.000354	-.000143	-.028688	-.001899	-.003125
#2	-.000216	-.013296	-.000392	.000580	-.018156	-.002692	-.002965
#3	-.000774	-.001110	-.000415	.000003	-.000639	-.003269	-.002806

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1480374	-.008274	-.000337	-.000713	.0012859	.0039039	-.002195
Stddev	.0242297	.000443	.000327	.000771	.0002921	.0100048	.002265
%RSD	16.36727	5.354069	97.13387	108.1521	22.71867	256.2758	103.1853
#1	.1758167	-.007811	-.000186	-.001453	.0015142	.0035561	-.004805
#2	.1312653	-.008318	-.000112	-.000769	.0013867	.0140780	-.001030
#3	.1370301	-.008693	-.000712	.000085	.0009567	-.005922	-.000750

Sample Name: PB165722BL Acquired: 12/20/2024 20:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.007248	-.002649	-.000343
Stddev	.004890	.000671	.000045
%RSD	67.45942	25.34736	13.11647
#1	-.012813	-.003260	-.000313
#2	-.003637	-.001930	-.000321
#3	-.005296	-.002756	-.000395

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2386.401	45794.73	7316.282	2014.303	3519.061
Stddev	1.221	61.30	8.416	1.110	.791
%RSD	.0511676	.1338513	.1150328	.0551255	.0224891
#1	2386.789	45723.97	7318.423	2013.176	3518.297
#2	2385.033	45831.38	7323.421	2014.336	3519.877
#3	2387.380	45828.85	7307.002	2015.396	3519.009

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165722BS Acquired: 12/20/2024 20:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7969761	1.944994	.9533387	1.945990	.7689642	1.803702
Stddev	.0025148	.019046	.0015219	.006618	.0020918	.012060
%RSD	.3155429	.9792548	.1596348	.3400918	.2720245	.6686285
#1	.7982027	1.966942	.9527470	1.952613	.7691513	1.810928
#2	.7940833	1.932805	.9522015	1.945980	.7667852	1.810398
#3	.7986421	1.935236	.9550675	1.939377	.7709561	1.789779

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1670914	.1883724	.1902919	.9234515	.4032817	.1911496
Stddev	.0004006	.0005161	.0000736	.0162807	.0010947	.0002904
%RSD	.2397331	.2739686	.0386879	1.763023	.2714425	.1519210
#1	.1670720	.1888649	.1902203	.9144027	.4020278	.1912696
#2	.1667009	.1884169	.1903674	.9422464	.4040470	.1913608
#3	.1675013	.1878356	.1902880	.9137053	.4037702	.1908184

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3033138	2.888066	.1915196	1.913206	.4833214	.0743739
Stddev	.0005433	.018915	.0016690	.015225	.0003817	.0003701
%RSD	.1791080	.6549219	.8714228	.7957615	.0789668	.4975810
#1	.3034184	2.867192	.1896640	1.930715	.4828948	.0739720
#2	.3027258	2.892937	.1919969	1.905814	.4836306	.0747006
#3	.3037971	2.904068	.1928979	1.903088	.4834389	.0744493

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.912576	.2697332	.1973499	9.446536	.2636186	.3849046
Stddev	.019115	.0021645	.0006119	.098407	.0013874	.0007979
%RSD	.6562776	.8024623	.3100492	1.041731	.5262758	.2073007
#1	2.892944	.2683740	.1978763	9.360216	.2644638	.3855599
#2	2.913657	.2685964	.1966786	9.425698	.2643745	.3840161
#3	2.931127	.2722292	.1974947	9.553693	.2620174	.3851378

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165722BS Acquired: 12/20/2024 20:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6608191	.1774229	F .7306833	5.571209	F -.016423	.1803429
Stddev	.0009911	.0003232	.0046533	.008240	.004239	.0015634
%RSD	.1499852	.1821805	.6368411	.1478984	25.81291	.8668803
#1	.6617989	.1770498	.7311981	5.578646	-.015712	.1786520
#2	.6598170	.1776186	.7350577	5.562352	-.020973	.1817358
#3	.6608415	.1776002	.7257940	5.572631	-.012584	.1806409

Elem	Sr4077
Units	ppm
Avg	.1857524
Stddev	.0003709
%RSD	.1996867
#1	.1853269
#2	.1860082
#3	.1859219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2328.002	45014.44	7211.099	1985.984	3320.785
Stddev	5.568	72.63	16.442	8.182	3.818
%RSD	.2391943	.1613534	.2280068	.4119723	.1149708
#1	2322.516	45090.88	7192.145	1978.215	3319.197
#2	2333.650	45006.09	7221.521	1985.214	3325.141
#3	2327.841	44946.34	7219.631	1994.524	3318.017

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV06 Acquired: 12/20/2024 20:47:15 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.825784	4.848001	4.800199	4.830957	4.842981	9.519503	9.015171
Stddev	.004194	.020937	.004739	.019092	.000376	.015385	.093980
%RSD	.0869111	.4318744	.0987276	.3952111	.0077596	.1616177	1.042467
#1	4.826934	4.866105	4.805006	4.852012	4.843385	9.509803	9.019102
#2	4.829283	4.852825	4.800061	4.826088	4.842643	9.511464	8.919287
#3	4.821135	4.825073	4.795531	4.814770	4.842915	9.537243	9.107124

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2366749	2.405396	23.40007	.9950959	2.393831	1.218244	4.767287
Stddev	.0014185	.002264	.05276	.0019596	.001959	.000392	.034815
%RSD	.5993496	.0941014	.2254511	.1969306	.0818177	.0321775	.7302924
#1	.2375433	2.406888	23.39734	.9949928	2.395607	1.217912	4.759517
#2	.2350379	2.402792	23.34873	.9971052	2.391731	1.218677	4.805330
#3	.2374433	2.406508	23.45413	.9931899	2.394156	1.218144	4.737013

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.420566	24.49490	2.400418	1.211403	24.31528	2.347754	2.422776
Stddev	.004084	.08531	.003700	.002884	.13938	.005041	.001016
%RSD	.1687047	.3482864	.1541595	.2380850	.5732067	.2146964	.0419183
#1	2.418883	24.56475	2.402403	1.213638	24.21579	2.353574	2.421821
#2	2.417593	24.52013	2.396149	1.212423	24.47458	2.344878	2.422664
#3	2.425222	24.39982	2.402703	1.208147	24.25546	2.344809	2.423843

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.86736	4.645908	4.836987	4.805553	4.598683	4.894896	4.755294
Stddev	.15465	.040323	.002883	.008419	.010456	.037502	.017384
%RSD	.6479626	.8679264	.0596025	.1752026	.2273772	.7661384	.3655746
#1	23.79942	4.679629	4.837687	4.804720	4.604010	4.855086	4.768927
#2	24.04436	4.601242	4.839455	4.797581	4.586636	4.929557	4.735718
#3	23.75832	4.656852	4.833818	4.814358	4.605404	4.900046	4.761238

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV06 Acquired: 12/20/2024 20:47:15 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.701073	4.532840	4.895726
Stddev	.011474	.001723	.072137
%RSD	.2440702	.0380207	1.473462
#1	4.709510	4.533346	4.952974
#2	4.688008	4.530921	4.814702
#3	4.705702	4.534255	4.919501

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.359	44578.60	6969.089	1936.930	3163.387
Stddev	3.935	167.67	30.981	6.673	1.335
%RSD	.1711902	.3761292	.4445450	.3445254	.0421948
#1	2298.832	44631.68	6939.732	1936.104	3163.777
#2	2294.210	44390.82	7001.471	1930.708	3161.901
#3	2302.036	44713.31	6966.063	1943.978	3164.484

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB06 Acquired: 12/20/2024 20:51:26 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0003220	.0009611	.0003240	.0006224	.0008432	-.002004	-.002962
Stddev	.0018730	.0022319	.0007126	.0014721	.0008334	.007279	.000084
%RSD	581.6056	232.2330	219.9327	236.5035	98.83985	363.2517	2.828405
#1	.0024078	.0015035	-.000113	.0010681	.0002065	.006401	-.002922
#2	-.000226	-.001492	.001146	-.001021	.0005367	-.006306	-.002905
#3	-.001216	.002872	-.000061	.001820	.0017865	-.006107	-.003058

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000172	-.000127	-.017445	-.000273	-.000195	-.000478	-.001825
Stddev	.0000108	.000099	.004180	.000320	.000159	.000193	.005622
%RSD	63.16852	77.96847	23.95908	117.3432	81.51907	40.42532	308.0132
#1	.0000181	-.000235	-.022027	-.000567	-.000287	-.000554	.003419
#2	.0000275	-.000105	-.013842	-.000320	-.000011	-.000622	-.007762
#3	.0000059	-.000041	-.016465	.000068	-.000287	-.000258	-.001133

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000500	.0044061	-.000173	-.000127	-.014938	-.002955	-.002875
Stddev	.000361	.0133666	.000196	.000088	.011376	.000792	.000125
%RSD	72.19213	303.3650	113.1037	69.39709	76.15706	26.79460	4.355325
#1	-.000174	-.010631	-.000113	-.000225	-.021004	-.002055	-.002731
#2	-.000438	.014937	-.000392	-.000098	-.021996	-.003544	-.002935
#3	-.000887	.008913	-.000014	-.000057	-.001814	-.003266	-.002958

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1329944	-.001748	-.000184	-.000621	.0006780	.0078430	-.002447
Stddev	.0627002	.000236	.000149	.000214	.0000575	.0081397	.001571
%RSD	47.14495	13.51240	80.92959	34.40940	8.474004	103.7830	64.20162
#1	.1363661	-.001916	-.000012	-.000630	.0007334	.0000476	-.002081
#2	.0686765	-.001478	-.000261	-.000830	.0006819	.0162881	-.001091
#3	.1939407	-.001849	-.000279	-.000403	.0006187	.0071933	-.004168

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB06 Acquired: 12/20/2024 20:51:26 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.008866	-.003005	-.000278
Stddev	.003610	.000389	.000051
%RSD	40.71380	12.93313	18.23165
#1	-.012784	-.002682	-.000335
#2	-.008136	-.002896	-.000262
#3	-.005677	-.003436	-.000237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2388.377	45970.86	7328.367	2004.941	3524.883
Stddev	2.138	41.32	4.644	2.175	3.569
%RSD	.0895095	.0898920	.0633663	.1085058	.1012421
#1	2389.412	46001.87	7332.228	2002.564	3520.762
#2	2385.919	45923.95	7329.659	2006.832	3526.897
#3	2389.801	45986.76	7323.214	2005.427	3526.989

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5330-01 Acquired: 12/20/2024 20:55:46 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0107178	-.004904	.0818756	-.011281	-.000626	27.52133	.0539879
Stddev	.0033728	.001316	.0009450	.001960	.002400	.07445	.0007400
%RSD	31.46895	26.83540	1.154243	17.37731	383.2574	.2705320	1.370745
#1	.0077604	-.005892	.0822618	-.010256	.001728	27.45895	.0542672
#2	.0143910	-.005411	.0807986	-.010046	-.003069	27.60375	.0531489
#3	.0100019	-.003410	.0825663	-.013541	-.000537	27.50128	.0545477

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017412	-.001086	14.89465	.0767433	.0211967	.0965559	66.02344
Stddev	.0000870	.000038	.00411	.0004079	.0000567	.0001355	.40208
%RSD	4.996723	3.536691	.0275980	.5315167	.2674445	.1403584	.6089972
#1	.0017082	-.001079	14.89876	.0772141	.0211587	.0966577	65.74967
#2	.0016756	-.001052	14.89054	.0764938	.0212618	.0964021	65.83557
#3	.0018399	-.001128	14.89466	.0765221	.0211694	.0966079	66.48506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3959575	8.348637	.0350818	-.001503	4.457202	.1776665	.2028275
Stddev	.0010354	.018196	.0001018	.000041	.036189	.0015173	.0006393
%RSD	.2614906	.2179547	.2901859	2.698527	.8119118	.8540291	.3151932
#1	.3955079	8.369102	.0349738	-.001532	4.415415	.1782232	.2021293
#2	.3971416	8.342526	.0350958	-.001457	4.478092	.1759495	.2029689
#3	.3952228	8.334283	.0351759	-.001521	4.478100	.1788269	.2033842

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.202679	.0834375	.0034960	.0012383	.8486893	2.766550	1.014540
Stddev	.034710	.0005503	.0002695	.0009643	.0034731	.014437	.002518
%RSD	2.886090	.6595120	7.708498	77.87114	.4092269	.5218392	.2481654
#1	1.174158	.0837133	.0034296	.0022363	.8482394	2.760570	1.016084
#2	1.241326	.0828038	.0037925	.0011670	.8454632	2.783016	1.011635
#3	1.192552	.0837952	.0032659	.0003117	.8523654	2.756063	1.015901

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5330-01 Acquired: 12/20/2024 20:55:46 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.9944460	.0055722	.0188932
Stddev	.0054724	.0003023	.0005237
%RSD	.5503008	5.424666	2.771763
#1	1.000223	.0054679	.0191007
#2	.989340	.0053359	.0192813
#3	.993775	.0059128	.0182975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2434.914	47140.43	7746.104	2064.267	3338.155
Stddev	5.295	59.37	36.891	3.783	6.499
%RSD	.2174606	.1259509	.4762584	.1832430	.1946840
#1	2430.005	47141.57	7703.658	2059.899	3332.842
#2	2440.525	47199.23	7764.197	2066.444	3345.401
#3	2434.212	47080.50	7770.455	2066.458	3336.221

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5342-01 Acquired: 12/20/2024 20:59:57 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0480356	-.005367	2.696719	-.042154	.0110419	85.16381	1.227116
Stddev	.0040468	.001115	.000492	.005012	.0014721	.15751	.000606
%RSD	8.424609	20.78175	.0182561	11.88952	13.33220	.1849446	.0493495
#1	.0467042	-.004080	2.697288	-.044414	.0117024	85.05413	1.226646
#2	.0525803	-.006054	2.696430	-.036410	.0120682	85.09300	1.226903
#3	.0448221	-.005966	2.696439	-.045637	.0093552	85.34429	1.227799

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094034	.0101858	63.55373	.4317328	.1265206	.9403727	232.7983
Stddev	.0000385	.0000474	.06242	.0006143	.0002622	.0036211	.7802
%RSD	.4094699	.4650513	.0982131	.1422768	.2072605	.3850667	.3351264
#1	.0094466	.0101688	63.56235	.4323451	.1266056	.9386271	232.0929
#2	.0093727	.0101492	63.48745	.4317368	.1262264	.9379551	233.6362
#3	.0093908	.0102393	63.61139	.4311166	.1267298	.9445359	232.6656

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.767508	45.70006	.3292609	.0011505	4.917576	.3868153	4.631875
Stddev	.006959	.09460	.0002709	.0003996	.015521	.0013155	.006547
%RSD	.1847184	.2070054	.0822826	34.73484	.3156266	.3400851	.1413439
#1	3.760348	45.78095	.3289483	.0007282	4.908297	.3872843	4.639405
#2	3.767930	45.59604	.3294272	.0015228	4.935494	.3878320	4.628692
#3	3.774247	45.72318	.3294072	.0012006	4.908937	.3853295	4.627529

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.28184	.1901099	.0210121	.1198682	3.291905	5.592908	9.372465
Stddev	.06390	.0023217	.0007987	.0008333	.006022	.027697	.015858
%RSD	.4811123	1.221250	3.801396	.6951420	.1829434	.4952159	.1691986
#1	13.20850	.1876906	.0204862	.1207972	3.285033	5.560938	9.355431
#2	13.31145	.1923198	.0206188	.1191869	3.294421	5.609663	9.386801
#3	13.32556	.1903194	.0219312	.1196204	3.296262	5.608122	9.375163

Sample Name: P5342-01 Acquired: 12/20/2024 20:59:57 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	8.410496	.1002027	.0078123
Stddev	.017067	.0012467	.0008783
%RSD	.2029226	1.244200	11.24295
#1	8.430193	.1003596	.0080593
#2	8.401200	.1013635	.0068369
#3	8.400095	.0988849	.0085407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.478	50371.24	8658.952	2175.532	3072.966
Stddev	5.643	190.82	34.020	6.106	4.010
%RSD	.2213514	.3788358	.3928871	.2806540	.1304905
#1	2554.913	50220.49	8619.669	2169.023	3076.965
#2	2549.874	50307.44	8678.443	2176.440	3072.986
#3	2543.648	50585.79	8678.743	2181.133	3068.946

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5342-03 Acquired: 12/20/2024 21:04:01 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0746606	-.007579	2.366746	-.072027	.0271792	79.37280
Stddev	.0040149	.000281	.006918	.004482	.0014574	.12749
%RSD	5.377573	3.704821	.2923193	6.222026	5.361996	.1606256
#1	.0714042	-.007846	2.359296	-.077126	.0264889	79.24302
#2	.0734312	-.007286	2.372969	-.068715	.0288535	79.37750
#3	.0791465	-.007603	2.367972	-.070240	.0261953	79.49787

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9985878	.0119398	.0153516	114.8586	.8775310	.1464241
Stddev	.0010685	.0000608	.0000360	.1101	.0022669	.0003274
%RSD	.1070034	.5095529	.2343667	.0958559	.2583304	.2235787
#1	.9989245	.0118981	.0153716	114.7422	.8793490	.1467333
#2	.9973915	.0120096	.0153731	114.9610	.8749910	.1460811
#3	.9994474	.0119117	.0153100	114.8726	.8782529	.1464579

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.433241	347.3061	3.406353	70.27314	.4814154	-.003507
Stddev	.002993	.8593	.003833	.11756	.0010189	.000210
%RSD	.2088364	.2474259	.1125219	.1672846	.2116436	5.981830
#1	1.432885	347.0406	3.403578	70.40735	.4802617	-.003665
#2	1.436397	346.6109	3.410727	70.22365	.4817923	-.003269
#3	1.430443	348.2669	3.404754	70.18842	.4821921	-.003588

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.735920	.4784367	14.67549	11.28687	.3182615	.0438059
Stddev	.017837	.0028310	.05518	.05230	.0022337	.0001930
%RSD	.3766340	.5917108	.3760109	.4633902	.7018342	.4405473
#1	4.722933	.4753340	14.71076	11.33367	.3162830	.0436289
#2	4.728570	.4808792	14.61190	11.23041	.3178177	.0437773
#3	4.756258	.4790968	14.70382	11.29652	.3206837	.0440116

Sample Name: P5342-03 Acquired: 12/20/2024 21:04:01 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.1010557	4.486656	5.629635	F 12.15412	F 11.99970	.0660778
Stddev	.0012950	.004820	.006260	.01264	.02579	.0005677
%RSD	1.281510	.1074405	.1111999	.1039935	.2149372	.8591836
#1	.1015463	4.486097	5.636750	12.14309	11.97832	.0666141
#2	.0995870	4.482140	5.624971	12.16791	11.99244	.0654831
#3	.1020337	4.491732	5.627186	12.15136	12.02835	.0661361

Elem	Sr4077
Units	ppm
Avg	.0016932
Stddev	.0005914
%RSD	34.92461
#1	.0017236
#2	.0022688
#3	.0010873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2800.451	54772.62	9652.155	2361.145	3055.013
Stddev	5.997	178.21	2.281	10.205	4.074
%RSD	.2141525	.3253586	.0236357	.4321861	.1333541
#1	2798.740	54688.30	9651.264	2356.856	3053.870
#2	2795.494	54977.34	9654.748	2372.794	3051.633
#3	2807.117	54652.22	9650.454	2353.785	3059.537

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5342-05 Acquired: 12/20/2024 21:08:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.2967982	-.019719	.2768380	-.041995	.0002392	93.60012
Stddev	.0022927	.002170	.0018050	.001299	.0025726	.13717
%RSD	.7724732	11.00374	.6519909	3.094144	1075.650	.1465475
#1	.2994409	-.021662	.2761801	-.040659	.0018899	93.44317
#2	.2953398	-.020117	.2788796	-.043255	-.002725	93.69705
#3	.2956141	-.017377	.2754543	-.042070	.001553	93.66013

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7137573	.0148289	.0283755	72.72798	.3143758	.2239858
Stddev	.0008863	.0000941	.0001911	.09303	.0007972	.0006183
%RSD	.1241793	.6349203	.6733157	.1279217	.2535899	.2760299
#1	.7145473	.0147622	.0285008	72.69381	.3134966	.2237900
#2	.7127988	.0149366	.0284700	72.83327	.3150516	.2246783
#3	.7139258	.0147879	.0281556	72.65687	.3145793	.2234891

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.189750	197.1955	2.736790	72.62742	.3140421	-.004058
Stddev	.002012	.8218	.006636	.18569	.0013401	.000300
%RSD	.1691222	.4167214	.2424840	.2556760	.4267304	7.390370
#1	1.191313	196.9078	2.732070	72.51085	.3149013	-.003757
#2	1.187480	196.5562	2.744378	72.84156	.3147271	-.004357
#3	1.190458	198.1224	2.733922	72.52986	.3124980	-.004058

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.942167	.4410729	1.039256	17.72427	.1400278	.0286382
Stddev	.051090	.0014347	.002104	.08766	.0013744	.0000917
%RSD	.5713428	.3252677	.2024215	.4945979	.9814905	.3201978
#1	8.914653	.4425594	1.041593	17.72651	.1402303	.0286507
#2	8.910730	.4396964	1.038661	17.63551	.1385634	.0287229
#3	9.001118	.4409629	1.037514	17.81079	.1412896	.0285408

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5342-05 Acquired: 12/20/2024 21:08:04 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0376011	2.352573	3.075712	F 20.94140	F 12.70045	.0623532
Stddev	.0003726	.002252	.032797	.03619	.03390	.0007586
%RSD	.9908928	.0957277	1.066312	.1728155	.2668924	1.216652
#1	.0373269	2.353913	3.046522	20.94065	12.67642	.0615747
#2	.0380253	2.349973	3.069412	20.97796	12.73922	.0623946
#3	.0374511	2.353834	3.111202	20.90559	12.68570	.0630903

Elem	Sr4077
Units	ppm
Avg	.0841753
Stddev	.0008280
%RSD	.9837006
#1	.0837626
#2	.0851286
#3	.0836347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3415.981	66843.41	11587.92	2919.861	2993.647
Stddev	7.566	68.92	66.61	5.182	4.299
%RSD	.2214753	.1031044	.5748215	.1774670	.1435916
#1	3410.546	66922.47	11579.50	2917.200	2991.727
#2	3424.622	66796.04	11525.92	2925.833	2990.644
#3	3412.776	66811.72	11658.34	2916.550	2998.572

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03DUP Acquired: 12/20/2024 21:12:09 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0667759	-.000496	.2814703	-.036435	.0004754	82.89005	.3882059
Stddev	.0029444	.003481	.0004323	.000307	.0014037	.04439	.0010435
%RSD	4.409327	702.3789	.1535742	.8430579	295.2746	.0535480	.2687926
#1	.0699241	.000162	.2810161	-.036472	.0003394	82.92711	.3894080
#2	.0663137	-.004258	.2815182	-.036722	.0019421	82.84086	.3875329
#3	.0640900	.002609	.2818767	-.036111	-.000855	82.90218	.3876769

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064762	.0015833	16.88820	.1583982	.0696558	.2309959	183.8165
Stddev	.0000209	.0000898	.02158	.0006355	.0001932	.0005280	.6416
%RSD	.3229307	5.674210	.1277906	.4012085	.2774257	.2285657	.3490421
#1	.0064520	.0016759	16.89803	.1585266	.0698665	.2313040	184.0817
#2	.0064872	.0015775	16.86345	.1577082	.0696142	.2312974	183.0848
#3	.0064892	.0014965	16.90311	.1589596	.0694868	.2303862	184.2830

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.958215	18.87542	.1367390	-.003125	1.655052	.2451984	.5219865
Stddev	.004594	.03968	.0004865	.000281	.008946	.0003239	.0009539
%RSD	.1552858	.2102408	.3557847	8.997970	.5405178	.1321095	.1827453
#1	2.959711	18.90642	.1369943	-.002913	1.665337	.2448475	.5230872
#2	2.961873	18.83070	.1361780	-.003444	1.649078	.2452617	.5214711
#3	2.953059	18.88915	.1370448	-.003017	1.650741	.2454860	.5214011

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.535668	.1014728	.0020744	.0052180	2.161331	6.290870	5.807347
Stddev	.050467	.0001703	.0002016	.0006475	.003169	.033624	.023099
%RSD	.9116682	.1678435	9.716986	12.40809	.1466128	.5344889	.3977615
#1	5.565482	.1015671	.0021869	.0050708	2.163356	6.257544	5.812815
#2	5.477399	.1012762	.0021946	.0059264	2.157679	6.290282	5.782005
#3	5.564123	.1015751	.0018417	.0046569	2.162957	6.324784	5.827222

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03DUP Acquired: 12/20/2024 21:12:09 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.520722	.0666760	-.098546
Stddev	.004530	.0007075	.000745
%RSD	.2978553	1.061078	.7560516
#1	1.524940	.0670398	-.098881
#2	1.515935	.0658606	-.097693
#3	1.521292	.0671276	-.099065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2663.839	51322.50	8716.004	2256.135	3170.359
Stddev	5.942	77.30	27.617	6.142	5.242
%RSD	.2230687	.1506112	.3168493	.2722556	.1653304
#1	2659.031	51361.72	8706.129	2259.501	3166.073
#2	2662.004	51233.46	8694.683	2249.046	3168.800
#3	2670.482	51372.33	8747.201	2259.859	3176.203

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03LX5 Acquired: 12/20/2024 21:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0140796	.0001940	.0589734	-.008082	-.001157	18.98948	.0865177
Stddev	.0004569	.0006484	.0005993	.003136	.001769	.04585	.0003158
%RSD	3.244758	334.2797	1.016187	38.79852	152.9192	.2414738	.3650261
#1	.0135839	.0008798	.0584498	-.007019	-.002184	18.93682	.0863588
#2	.0141712	.0001111	.0596270	-.005615	.000886	19.02056	.0863129
#3	.0144837	-.000409	.0588435	-.011610	-.002173	19.01106	.0868814

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015940	-.000530	3.903530	.0361509	.0139024	.0550249	42.13706
Stddev	.0000667	.000157	.022164	.0002843	.0001494	.0005960	.14849
%RSD	4.187272	29.61047	.5678017	.7864236	1.074559	1.083192	.3524075
#1	.0015825	-.000430	3.878519	.0359352	.0137888	.0556882	41.96861
#2	.0015337	-.000711	3.911334	.0360444	.0140717	.0548524	42.24900
#3	.0016657	-.000450	3.920736	.0364730	.0138468	.0545342	42.19358

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6904881	4.429720	.0278201	-.001262	.3443494	.0547383	.1207110
Stddev	.0020617	.060584	.0002462	.000054	.0150339	.0020579	.0005315
%RSD	.2985916	1.367661	.8851278	4.316075	4.365892	3.759566	.4403314
#1	.6882472	4.362965	.0278802	-.001322	.3298595	.0537454	.1211676
#2	.6923047	4.444978	.0275494	-.001216	.3433148	.0533651	.1208379
#3	.6909123	4.481215	.0280307	-.001249	.3598739	.0571044	.1201275

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.367890	.0145973	-.000044	-.001156	.4978589	1.463565	1.196417
Stddev	.014009	.0002028	.000355	.000894	.0044780	.013691	.004489
%RSD	1.024100	1.389498	807.5735	77.33119	.8994555	.9354557	.3752123
#1	1.355142	.0146906	-.000347	-.002132	.4947405	1.452284	1.191244
#2	1.365640	.0143646	.000347	-.000378	.5029901	1.478797	1.198712
#3	1.382887	.0147367	-.000132	-.000957	.4958460	1.459614	1.199294

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03LX5 Acquired: 12/20/2024 21:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.3018136	.0123856	-.022688
Stddev	.0032062	.0000771	.000108
%RSD	1.062329	.6222475	.4769671
#1	.2981228	.0124744	-.022565
#2	.3039114	.0123469	-.022729
#3	.3034065	.0123356	-.022769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2401.516	46142.95	7693.221	2031.052	3287.182
Stddev	2.441	66.55	9.296	5.985	3.939
%RSD	.1016544	.1442234	.1208310	.2946625	.1198226
#1	2398.697	46182.20	7698.368	2024.476	3291.353
#2	2402.956	46180.53	7698.806	2036.181	3283.526
#3	2402.894	46066.11	7682.490	2032.498	3286.669

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03MSD Acquired: 12/20/2024 21:24:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7344871	1.886987	1.221359	1.557466	.3232310	92.36497
Stddev	.0047745	.002109	.003024	.003069	.0010315	.33595
%RSD	.6500497	.1117792	.2476344	.1970477	.3191288	.3637225
#1	.7328751	1.889423	1.221211	1.555234	.3239792	91.98341
#2	.7307273	1.885754	1.218411	1.556198	.3220543	92.49510
#3	.7398590	1.885785	1.224454	1.560966	.3236595	92.61638

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5897566	.1627847	.1904481	20.85238	.5475849	.2681288
Stddev	.0020259	.0006831	.0003490	.07517	.0016726	.0008042
%RSD	.3435113	.4196470	.1832243	.3604735	.3054499	.2999363
#1	.5875252	.1629015	.1904871	20.76737	.5488445	.2679556
#2	.5902643	.1620507	.1900812	20.87968	.5482231	.2674254
#3	.5914805	.1634018	.1907758	20.91007	.5456872	.2690055

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4824496	172.0754	3.757362	21.70102	.6336220	.0623213
Stddev	.0013543	1.0465	.014942	.10720	.0008838	.0005587
%RSD	.2807021	.6081671	.3976789	.4939691	.1394867	.8964819
#1	.4830424	171.3434	3.740110	21.57869	.6337232	.0616848
#2	.4809000	173.2741	3.765747	21.74578	.6326919	.0625488
#3	.4834063	171.6088	3.766228	21.77858	.6344508	.0627304

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.467058	.4594644	.6712239	13.45548	.2716078	.3446936
Stddev	.036340	.0045410	.0008962	.08610	.0015975	.0007432
%RSD	.8135060	.9883272	.1335208	.6399057	.5881644	.2156195
#1	4.442354	.4589215	.6720685	13.41463	.2697755	.3448842
#2	4.508785	.4552193	.6702837	13.55440	.2727081	.3438736
#3	4.450036	.4642525	.6713197	13.39740	.2723399	.3453230

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03MSD Acquired: 12/20/2024 21:24:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6540828	1.696602	5.955800	F 10.77335	1.361497	.2389946
Stddev	.0026303	.004989	.060782	.01523	.009783	.0004182
%RSD	.4021373	.2940741	1.020551	.1413958	.7185474	.1749742
#1	.6512995	1.691151	5.896875	10.78994	1.350384	.2385320
#2	.6544216	1.700942	6.018283	10.75999	1.365294	.2393459
#3	.6565273	1.697712	5.952241	10.77013	1.368811	.2391058

Elem	Sr4077
Units	ppm
Avg	.0937585
Stddev	.0008742
%RSD	.9324339
#1	.0932960
#2	.0932127
#3	.0947669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2658.691	51257.00	8550.954	2243.080	3236.153
Stddev	7.192	192.60	37.987	4.571	9.504
%RSD	.2705067	.3757624	.4442413	.2037844	.2936755
#1	2658.567	51460.19	8568.975	2245.974	3235.555
#2	2665.944	51077.10	8576.576	2237.810	3245.941
#3	2651.562	51233.70	8507.310	2245.455	3226.962

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03A Acquired: 12/20/2024 21:28:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7627863	1.922431	1.251951	1.626004	.3328499	92.55462
Stddev	.0045157	.012486	.004809	.004807	.0015266	.22222
%RSD	.5920001	.6494985	.3841173	.2956314	.4586440	.2401002
#1	.7628900	1.925091	1.249990	1.629154	.3322989	92.46536
#2	.7582195	1.933372	1.248433	1.620471	.3316753	92.80759
#3	.7672492	1.908829	1.257431	1.628387	.3345755	92.39090

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5987477	.1631941	.1953793	20.95809	.5514179	.2739227
Stddev	.0034630	.0010427	.0002147	.05246	.0020212	.0007013
%RSD	.5783790	.6389597	.1098745	.2503100	.3665493	.2560196
#1	.5972396	.1629985	.1953129	20.90378	.5524307	.2734102
#2	.6027091	.1643208	.1952057	21.00848	.5490905	.2736360
#3	.5962945	.1622631	.1956193	20.96201	.5527324	.2747220

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4925067	176.7184	3.753448	21.77624	.6492161	.0646514
Stddev	.0011994	.9476	.009584	.07210	.0007917	.0004187
%RSD	.2435240	.5361939	.2553298	.3310841	.1219458	.6475784
#1	.4912451	176.6599	3.750149	21.77320	.6483410	.0641974
#2	.4936323	175.8016	3.764245	21.84981	.6498825	.0647345
#3	.4926428	177.6939	3.745949	21.70571	.6494249	.0650223

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.618347	.4584968	.6850162	13.86546	.2773802	.3457612
Stddev	.027949	.0019151	.0035045	.11254	.0007111	.0002082
%RSD	.6051765	.4176835	.5115868	.8116419	.2563482	.0602172
#1	4.609213	.4596832	.6855374	13.84389	.2766258	.3457719
#2	4.596106	.4562875	.6812803	13.76527	.2774767	.3459639
#3	4.649720	.4595197	.6882309	13.98722	.2780381	.3455479

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03A Acquired: 12/20/2024 21:28:51 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6718548	1.713984	6.252464	F 11.18644	1.442817	.2389439
Stddev	.0005004	.002733	.053473	.00948	.008513	.0017216
%RSD	.0744838	.1594415	.8552355	.0847177	.5900058	.7205197
#1	.6712805	1.710831	6.239847	11.18276	1.452102	.2369559
#2	.6721972	1.715681	6.206428	11.19721	1.435381	.2399434
#3	.6720866	1.715439	6.311118	11.17936	1.440967	.2399324

Elem	Sr4077
Units	ppm
Avg	.0876676
Stddev	.0013391
%RSD	1.527428
#1	.0876052
#2	.0890368
#3	.0863609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.102	50003.55	8550.762	2194.613	3108.597
Stddev	2.481	162.97	52.890	14.051	5.974
%RSD	.0961720	.3259159	.6185390	.6402303	.1921885
#1	2582.752	49979.53	8556.328	2193.019	3114.791
#2	2579.722	50177.19	8495.309	2209.392	3108.131
#3	2577.833	49853.92	8600.649	2181.427	3102.869

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165753BL Acquired: 12/20/2024 21:32:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0003775	.0010523	-.000585	-.000150	-.000769	-.000590	-.003689
Stddev	.0016531	.0010688	.001517	.003320	.000980	.008867	.000571
%RSD	437.9409	101.5768	259.5792	2211.730	127.4266	1502.210	15.46811
#1	.0022862	.0021059	.000813	.001816	-.000516	.003755	-.003445
#2	-.000594	.0010821	-.002199	-.003984	.000060	-.010792	-.003281
#3	-.000559	-.000031	-.000367	.001717	-.001850	.005266	-.004341

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000492	-.000080	-.013483	.0001891	-.000075	-.000233	-.003349
Stddev	.0000627	.000024	.006761	.0002802	.000119	.000150	.014253
%RSD	127.5085	30.48713	50.14727	148.1331	158.8702	64.08899	425.6110
#1	.0000887	-.000093	-.005797	-.000130	-.000081	-.000389	-.019622
#2	.0000819	-.000052	-.018515	.000394	.000047	-.000221	.006920
#3	-.000023	-.000095	-.016136	.000303	-.000191	-.000090	.002655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	-.012918	-.000351	.0003915	-.018816	-.001934	-.002601
Stddev	.000267	.021931	.000187	.0004535	.008380	.001178	.000121
%RSD	144.9165	169.7697	53.31024	115.8514	44.53848	60.90819	4.638231
#1	-.000481	-.031571	-.000347	.0002625	-.027705	-.000921	-.002684
#2	.000035	-.018426	-.000166	.0000164	-.017682	-.003227	-.002656
#3	-.000106	.011242	-.000541	.0008954	-.011060	-.001655	-.002462

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0951179	-.009718	-.000305	.0003631	.0008637	.0067593	-.003929
Stddev	.0268945	.000615	.000321	.0000394	.0002167	.0090343	.002551
%RSD	28.27494	6.325871	105.3830	10.85066	25.09046	133.6582	64.92829
#1	.0868646	-.009570	-.000174	.0003831	.0011002	.0076577	-.002221
#2	.0733171	-.010393	-.000671	.0003885	.0008165	.0153108	-.006862
#3	.1251718	-.009190	-.000069	.0003177	.0006745	-.002691	-.002705

Sample Name: PB165753BL Acquired: 12/20/2024 21:32:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.006666	-.002056	-.000279
Stddev	.001765	.000868	.000003
%RSD	26.47659	42.24299	1.201105
#1	-.008121	-.001070	-.000278
#2	-.007173	-.002392	-.000283
#3	-.004703	-.002706	-.000276

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2362.374	45665.31	7354.876	1985.307	3457.267
Stddev	4.635	92.23	6.263	1.080	3.711
%RSD	.1962117	.2019612	.0851485	.0543898	.1073535
#1	2357.123	45564.04	7359.086	1986.518	3459.126
#2	2365.900	45744.46	7347.679	1984.959	3452.994
#3	2364.098	45687.44	7357.863	1984.444	3459.682

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV07 Acquired: 12/20/2024 21:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.879394	4.905114	4.864581	4.894954	4.904717	9.682882	9.111171
Stddev	.001192	.022944	.002362	.006904	.002736	.017396	.042787
%RSD	.0244369	.4677535	.0485528	.1410503	.0557824	.1796602	.4696061
#1	4.878931	4.881728	4.865867	4.901386	4.907851	9.664693	9.125618
#2	4.878503	4.927589	4.866021	4.895818	4.902806	9.699359	9.144865
#3	4.880748	4.906024	4.861855	4.887658	4.903493	9.684596	9.063032

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2424536	2.433644	23.71693	1.009530	2.427504	1.234972	4.821293
Stddev	.0007930	.001424	.05633	.000577	.001399	.001467	.006076
%RSD	.3270853	.0585054	.2375175	.0571531	.0576319	.1187873	.1260181
#1	.2433492	2.435010	23.77221	1.010141	2.425996	1.235979	4.826205
#2	.2421711	2.433753	23.71897	1.008995	2.427757	1.235648	4.814499
#3	.2418405	2.432168	23.65960	1.009453	2.428760	1.233289	4.823175

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.456541	24.66905	2.433530	1.232856	24.53136	2.383804	2.463133
Stddev	.004198	.09119	.002208	.001280	.01942	.004178	.011045
%RSD	.1708739	.3696660	.0907505	.1038232	.0791474	.1752719	.4484241
#1	2.460939	24.77229	2.431369	1.232608	24.52857	2.384371	2.471217
#2	2.456104	24.63539	2.433438	1.231718	24.55202	2.387670	2.450548
#3	2.452578	24.59948	2.435783	1.234242	24.51349	2.379372	2.467634

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.07362	4.754248	4.897689	4.879065	4.661778	4.912465	4.846667
Stddev	.01863	.009627	.004088	.002504	.003534	.036065	.008262
%RSD	.0773933	.2025002	.0834709	.0513174	.0758016	.7341475	.1704658
#1	24.05410	4.765364	4.895716	4.881498	4.662847	4.875391	4.842314
#2	24.07554	4.748603	4.902390	4.879203	4.664653	4.947427	4.841491
#3	24.09121	4.748777	4.894962	4.876496	4.657833	4.914576	4.856195

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV07 Acquired: 12/20/2024 21:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.781541	4.609881	4.975511
Stddev	.017028	.005360	.058695
%RSD	.3561288	.1162737	1.179670
#1	4.763997	4.611706	5.042754
#2	4.782622	4.614090	4.949226
#3	4.798002	4.603847	4.934553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2283.196	44087.86	6842.943	1905.994	3140.904
Stddev	3.097	44.93	14.776	6.289	1.991
%RSD	.1356262	.1019105	.2159269	.3299782	.0633958
#1	2281.916	44039.75	6826.950	1903.566	3139.824
#2	2280.943	44095.09	6845.792	1913.135	3139.687
#3	2286.727	44128.74	6856.086	1901.280	3143.202

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB07 Acquired: 12/20/2024 22:04:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV0B Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002142	.0004539	.0004462	-.001090	-.000890	.0061793	-.003638
Stddev	.0008666	.0016197	.0013980	.001388	.001582	.0082688	.000238
%RSD	404.6589	356.8684	313.3127	127.3444	177.7333	133.8146	6.543539
#1	-.000768	.0001263	-.000081	-.000946	.000249	.0149420	-.003435
#2	.000870	-.000977	-.000612	.000221	-.000222	.0050818	-.003580
#3	.000541	.002212	.002031	-.002544	-.002696	-.001486	-.003900

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000596	-.000123	-.005502	.0000966	-.000037	.0003472	-.001918
Stddev	.0000571	.000042	.008626	.0002845	.000131	.0001624	.002981
%RSD	95.83981	34.52295	156.7759	294.5589	357.6438	46.77724	155.4759
#1	.0000621	-.000085	-.000906	.0004229	-.000045	.0001604	-.001261
#2	.0001155	-.000115	-.015452	-.000099	-.000163	.0004549	-.005172
#3	.0000013	-.000168	-.000147	-.000034	.000098	.0004262	.000681

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000082	.0103277	-.000126	-.000300	-.027619	-.002277	-.002835
Stddev	.000174	.0218569	.000364	.000342	.008585	.002181	.000276
%RSD	212.4465	211.6340	288.1479	113.9827	31.08276	95.79169	9.749247
#1	-.000218	.0165540	-.000518	-.000192	-.033850	-.001380	-.003090
#2	.000114	.0283958	.000202	-.000025	-.031179	-.000688	-.002541
#3	-.000142	-.013967	-.000063	-.000684	-.017827	-.004764	-.002874

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1468706	-.008099	.0000005	.0127529	.0007515	-.000138	-.005633
Stddev	.0669140	.000604	.0001789	.0005613	.0003422	.005697	.002668
%RSD	45.55985	7.463048	35348.49	4.401352	45.52871	4133.227	47.35233
#1	.0942440	-.007724	.0000569	.0133420	.0011431	.002337	-.005794
#2	.2221770	-.008796	-.000200	.0126925	.0006013	.003903	-.008217
#3	.1241909	-.007776	.000144	.0122242	.0005102	-.006654	-.002889

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB07 Acquired: 12/20/2024 22:04:31 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV0B Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004684	-.001747	-.000257
Stddev	.002990	.000495	.000034
%RSD	63.83462	28.34291	13.30437
#1	-.005994	-.002308	-.000230
#2	-.006795	-.001370	-.000246
#3	-.001263	-.001563	-.000296

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2323.908	44962.96	7405.620	1966.736	3373.037
Stddev	2.687	89.79	22.692	3.593	2.615
%RSD	.1156289	.1996895	.3064212	.1826953	.0775244
#1	2322.753	44952.33	7422.569	1962.717	3370.022
#2	2321.991	44878.96	7414.450	1967.854	3374.417
#3	2326.979	45057.59	7379.839	1969.638	3374.674

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165753BS Acquired: 12/20/2024 22:08:50 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8176199	1.975833	.9781098	2.002036	.7884049	1.854859
Stddev	.0015512	.019532	.0016432	.007906	.0003576	.012454
%RSD	.1897230	.9885622	.1679934	.3949206	.0453574	.6714381
#1	.8174749	1.977198	.9786317	2.000377	.7884582	1.842719
#2	.8161464	1.955655	.9762690	1.995091	.7880237	1.867606
#3	.8192386	1.994648	.9794286	2.010641	.7887329	1.854253

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1772034	.1893327	.1952042	.9590160	.4116730	.1963847
Stddev	.0007121	.0009686	.0003077	.0096340	.0012557	.0004480
%RSD	.4018406	.5115829	.1576172	1.004566	.3050200	.2281299
#1	.1764808	.1894555	.1949030	.9513178	.4131011	.1959011
#2	.1772249	.1883085	.1951916	.9559104	.4111758	.1967856
#3	.1779045	.1902340	.1955180	.9698197	.4107420	.1964675

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3111385	3.048852	.1964801	1.922092	.4967151	.0760737
Stddev	.0005361	.022060	.0007741	.002275	.0006069	.0007409
%RSD	.1722928	.7235620	.3939814	.1183468	.1221826	.9738689
#1	.3106995	3.026213	.1956055	1.920880	.4965109	.0768145
#2	.3109800	3.070284	.1967579	1.920679	.4973977	.0753328
#3	.3117359	3.050060	.1970770	1.924716	.4962366	.0760738

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.032728	.2798737	.2020239	10.02262	.2678101	.3950022
Stddev	.021476	.0023212	.0012984	.04524	.0010281	.0017748
%RSD	.7081295	.8293647	.6427076	.4513515	.3838906	.4493173
#1	3.016123	.2799952	.2032076	9.97054	.2685036	.3947074
#2	3.056981	.2821318	.2006352	10.04508	.2666289	.3933932
#3	3.025080	.2774942	.2022289	10.05223	.2682978	.3969060

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165753BS Acquired: 12/20/2024 22:08:50 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6801993	.1847322	.7667865	5.731489	F -.019554	.1878044
Stddev	.0006272	.0006635	.0115306	.009483	.002306	.0010342
%RSD	.0922034	.3591742	1.503758	.1654579	11.79250	.5506592
#1	.6804699	.1851281	.7664929	5.731573	-.016917	.1866248
#2	.6794823	.1839662	.7784612	5.721964	-.020556	.1882332
#3	.6806458	.1851024	.7554055	5.740930	-.021190	.1885552

Elem	Sr4077
Units	ppm
Avg	.1892148
Stddev	.0007505
%RSD	.3966236
#1	.1883668
#2	.1894843
#3	.1897933

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.255	44881.57	7293.706	1950.816	3311.351
Stddev	4.009	87.57	13.880	11.453	3.289
%RSD	.1731694	.1951029	.1902948	.5870680	.0993120
#1	2314.522	44849.12	7288.828	1941.461	3311.827
#2	2319.580	44814.87	7309.366	1947.399	3314.376
#3	2311.662	44980.73	7282.924	1963.588	3307.850

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5337-01 Acquired: 12/20/2024 22:12:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0303883	-.048339	.0863942	-.079335	-.002336	159.0868
Stddev	.0015423	.005010	.0023155	.002711	.001669	.2186
%RSD	5.075285	10.36344	2.680169	3.416984	71.45589	.1374182
#1	.0318663	-.053954	.0885273	-.081724	-.000439	158.9970
#2	.0305098	-.044328	.0839316	-.079894	-.003578	158.9273
#3	.0287889	-.046736	.0867239	-.076389	-.002991	159.3360

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4470442	.0094793	.0055794	551.7827	.2942757	.1528488
Stddev	.0010219	.0002130	.0003948	3.5083	.0007411	.0004549
%RSD	.2285967	2.247001	7.075499	.6358080	.2518325	.2976281
#1	.4474627	.0092727	.0058088	550.9193	.2947124	.1526646
#2	.4477904	.0094670	.0051236	548.7867	.2946947	.1525148
#3	.4458794	.0096982	.0058059	555.6420	.2934201	.1533669

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9503118	337.3871	2.590246	109.0630	.4447178	-.004058
Stddev	.0026474	1.6007	.005330	.1425	.0004090	.000340
%RSD	.2785773	.4744429	.2057764	.1306943	.0919597	8.376160
#1	.9480021	337.2056	2.584894	108.9323	.4443574	-.004309
#2	.9497325	339.0708	2.590290	109.2150	.4446338	-.004193
#3	.9532009	335.8848	2.595554	109.0418	.4451623	-.003671

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.84274	.4662785	.7619462	6.981289	.2471373	.0062066
Stddev	.06727	.0004993	.0032345	.036017	.0035083	.0006256
%RSD	.5238061	.1070824	.4245088	.5159146	1.419586	10.08024
#1	12.86936	.4665597	.7582459	7.007591	.2485923	.0055044
#2	12.89263	.4665737	.7642357	6.996038	.2496840	.0067047
#3	12.76623	.4657020	.7633570	6.940238	.2431355	.0064106

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5337-01 Acquired: 12/20/2024 22:12:56 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0417494	F 14.04875	1.428619	5.708530	F 28.93083	.0010058
Stddev	.0011521	.01550	.011190	.020914	.06729	.0009433
%RSD	2.759517	.1103303	.7832397	.3663677	.2325891	93.78428
#1	.0416699	14.03797	1.429063	5.731895	28.94268	.0020866
#2	.0429392	14.06651	1.439581	5.691558	28.85841	.0003477
#3	.0406392	14.04177	1.417215	5.702138	28.99141	.0005833

Elem	Sr4077
Units	ppm
Avg	.3704168
Stddev	.0022590
%RSD	.6098400
#1	.3693970
#2	.3688476
#3	.3730059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.872	47226.26	8495.601	2066.782	2763.755
Stddev	4.592	114.86	14.426	3.181	6.642
%RSD	.1874478	.2432039	.1698104	.1539340	.2403381
#1	2454.924	47186.50	8500.650	2066.663	2765.732
#2	2448.741	47136.56	8506.825	2063.661	2769.185
#3	2445.950	47355.71	8479.329	2070.021	2756.349

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5339-01 Acquired: 12/20/2024 22:17:10 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0578877	.0080649	.2127560	-.049944	.0014026	73.71797	.2971911
Stddev	.0020664	.0040308	.0014698	.002902	.0004450	.10016	.0010203
%RSD	3.569728	49.98008	.6908594	5.810913	31.72783	.1358735	.3433304
#1	.0599895	.0069868	.2143420	-.050329	.0012595	73.68082	.2983604
#2	.0558586	.0046827	.2114396	-.046869	.0019016	73.64170	.2964813
#3	.0578151	.0125251	.2124864	-.052635	.0010467	73.83141	.2967315

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071472	-.002968	29.24152	.1772167	.0646702	.2970792	259.2499
Stddev	.0001621	.000095	.06963	.0006608	.0001079	.0010252	.6795
%RSD	2.268078	3.212629	.2381286	.3728786	.1667653	.3450920	.2621087
#1	.0072294	-.003032	29.29260	.1768650	.0647364	.2960366	259.1430
#2	.0069605	-.003014	29.16220	.1779790	.0645457	.2971148	259.9765
#3	.0072517	-.002859	29.26974	.1768062	.0647284	.2980861	258.6301

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.700642	15.13820	.0824597	-.005059	3.107525	.4033513	.3315263
Stddev	.006504	.02682	.0005526	.000280	.011996	.0006221	.0020846
%RSD	.3824650	.1771805	.6701562	5.535353	.3860274	.1542341	.6287773
#1	1.695823	15.16444	.0824857	-.005365	3.102501	.4028566	.3301512
#2	1.698062	15.13932	.0818945	-.004997	3.121216	.4031476	.3305029
#3	1.708040	15.11083	.0829988	-.004816	3.098859	.4040498	.3339247

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.544268	.1432947	.0034606	.0100845	1.269680	4.417735	3.417982
Stddev	.012828	.0020736	.0006015	.0005485	.001254	.002912	.008887
%RSD	.2822918	1.447053	17.38084	5.439386	.0987539	.0659237	.2599981
#1	4.538723	.1428519	.0033147	.0107097	1.269738	4.414497	3.409959
#2	4.535144	.1455538	.0041217	.0098598	1.270904	4.420140	3.427534
#3	4.558935	.1414783	.0029455	.0096840	1.268399	4.418567	3.416454

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5339-01 Acquired: 12/20/2024 22:17:10 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	2.945461	.0450359	-.153847
Stddev	.009091	.0005233	.000894
%RSD	.3086448	1.162028	.5812484
#1	2.946075	.0448514	-.153911
#2	2.954230	.0456265	-.154707
#3	2.936079	.0446299	-.152922

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.339	49313.97	8306.492	2173.995	3322.474
Stddev	4.709	141.59	22.341	3.746	3.697
%RSD	.1828660	.2871158	.2689602	.1723008	.1112678
#1	2580.257	49255.68	8288.715	2171.207	3325.102
#2	2570.871	49210.82	8331.570	2178.253	3318.246
#3	2574.888	49475.39	8299.192	2172.525	3324.073

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01 Acquired: 12/20/2024 22:21:16 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0881893	.0127845	1.635975	-.093158	.0114056	173.4978
Stddev	.0088299	.0017213	.002937	.003974	.0012332	.5483
%RSD	10.01250	13.46403	.1795538	4.265811	10.81208	.3160135
#1	.0788776	.0147717	1.633061	-.092647	.0100433	172.8648
#2	.0892484	.0118280	1.635929	-.097363	.0117278	173.8047
#3	.0964419	.0117539	1.638935	-.089465	.0124457	173.8240

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.404962	.0207076	.0182804	33.24511	.3792345	.3394707
Stddev	.011123	.0001568	.0003028	.13805	.0007756	.0007933
%RSD	.4625223	.7570463	1.656422	.4152610	.2045266	.2336941
#1	2.392121	.0205328	.0185925	33.08577	.3789338	.3386815
#2	2.411607	.0207542	.0182608	33.32069	.3801155	.3394626
#3	2.411160	.0208358	.0179878	33.32887	.3786543	.3402680

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4895528	459.2047	14.96982	107.4910	.6556644	-.007278
Stddev	.0014904	1.5022	.04322	.5100	.0018058	.000567
%RSD	.3044474	.3271304	.2886992	.4744528	.2754075	7.784681
#1	.4900905	457.9644	14.91992	106.9022	.6546380	-.007025
#2	.4878681	460.8750	14.99442	107.7965	.6546059	-.006883
#3	.4906997	458.7748	14.99512	107.7742	.6577495	-.007928

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.567156	.4442692	2.317192	23.33817	.2811625	.0048172
Stddev	.019676	.0008028	.002292	.08983	.0026018	.0002558
%RSD	.4308185	.1806922	.0989040	.3849028	.9253578	5.310954
#1	4.581267	.4435355	2.314811	23.39896	.2828764	.0046553
#2	4.575520	.4451266	2.319382	23.38056	.2824425	.0051122
#3	4.544679	.4441454	2.317384	23.23499	.2781687	.0046842

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01 Acquired: 12/20/2024 22:21:16 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0527359	3.231718	2.843818	F 11.43037	2.410478	.6486989
Stddev	.0012725	.012154	.036164	.00925	.014136	.0023886
%RSD	2.412910	.3760786	1.271655	.0809164	.5864511	.3682109
#1	.0529357	3.217690	2.872943	11.43074	2.416591	.6459460
#2	.0538966	3.238379	2.803340	11.42094	2.394314	.6499293
#3	.0513753	3.239086	2.855170	11.43943	2.420530	.6502214

Elem	Sr4077
Units	ppm
Avg	-.198038
Stddev	.001057
%RSD	.5335126
#1	-.197505
#2	-.199254
#3	-.197353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2931.764	56476.79	9949.217	2498.527	2990.924
Stddev	2.898	46.82	72.153	1.086	5.421
%RSD	.0988551	.0829023	.7252167	.0434765	.1812595
#1	2933.230	56519.47	10023.02	2499.685	2997.065
#2	2928.425	56426.71	9945.79	2497.530	2988.901
#3	2933.635	56484.19	9878.84	2498.367	2986.804

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01DUP Acquired: 12/20/2024 22:25:30 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0836028	.0197007	1.666847	-.091305	.0127427	173.9276
Stddev	.0014906	.0018216	.028020	.004048	.0020596	.3361
%RSD	1.782996	9.246277	1.680988	4.433760	16.16312	.1932276
#1	.0821151	.0214669	1.648199	-.092833	.0148057	173.5450
#2	.0835969	.0198068	1.653275	-.086715	.0127359	174.0622
#3	.0850963	.0178283	1.699069	-.094366	.0106865	174.1755

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410582	.0207425	.0202084	32.93339	.3812874	.3442613
Stddev	.002123	.0001281	.0012641	.10021	.0002714	.0069832
%RSD	.0880637	.6177647	6.255385	.3042939	.0711847	2.028448
#1	2.409833	.0206573	.0194437	32.84387	.3815900	.3400529
#2	2.408935	.0206803	.0195140	32.91466	.3812066	.3404088
#3	2.412977	.0208899	.0216675	33.04165	.3810655	.3523221

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5022820	453.8363	14.96289	107.4554	.6654091	-.008922
Stddev	.0102033	2.6150	.04535	.3633	.0128958	.000719
%RSD	2.031388	.5762051	.3030947	.3381109	1.938032	8.053379
#1	.4964275	452.6300	14.91058	107.0582	.6567482	-.009013
#2	.4963548	452.0423	14.99130	107.5370	.6592493	-.009591
#3	.5140637	456.8368	14.98678	107.7710	.6802297	-.008163

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.366037	.4494012	2.309533	23.56975	.2776252	.0044082
Stddev	.008747	.0005864	.002884	.09739	.0012385	.0003623
%RSD	.2003475	.1304892	.1248714	.4132123	.4461044	8.217578
#1	4.358499	.4488418	2.311404	23.65340	.2769863	.0040877
#2	4.375628	.4493505	2.306212	23.59302	.2768365	.0043357
#3	4.363983	.4500113	2.310984	23.46283	.2790527	.0048012

Sample Name: P5355-01DUP Acquired: 12/20/2024 22:25:30 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0533868	3.276133	3.812491	F 11.49912	2.406710	.6494893
Stddev	.0008059	.003858	.020517	.21531	.041922	.0001651
%RSD	1.509620	.1177599	.5381425	1.872399	1.741867	.0254143
#1	.0525984	3.279346	3.825707	11.36338	2.385597	.6493254
#2	.0542092	3.271854	3.822911	11.38661	2.379542	.6494871
#3	.0533528	3.277200	3.788856	11.74738	2.454990	.6496555

Elem	Sr4077
Units	ppm
Avg	-.190859
Stddev	.002496
%RSD	1.308003
#1	-.190052
#2	-.188866
#3	-.193659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2913.529	56415.76	9925.299	2488.945	2965.937
Stddev	36.330	92.33	40.871	3.876	53.572
%RSD	1.246937	.1636633	.4117847	.1557346	1.806258
#1	2936.436	56522.36	9963.275	2492.453	3003.325
#2	2932.512	56360.60	9930.575	2489.600	2989.924
#3	2871.640	56364.33	9882.046	2484.784	2904.563

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01LX5 Acquired: 12/20/2024 22:29:43 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0204223	.0036213	.3372872	-.024677	.0003358	42.29632	.5759947
Stddev	.0014680	.0028613	.0018670	.005960	.0002108	.06274	.0007902
%RSD	7.188335	79.01279	.5535322	24.15221	62.76925	.1483315	.1371926
#1	.0197288	.0069228	.3353495	-.028521	.0005791	42.28869	.5765929
#2	.0221086	.0020805	.3390744	-.017811	.0002110	42.36253	.5762922
#3	.0194296	.0018606	.3374375	-.027698	.0002173	42.23775	.5750989

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054544	-.000568	8.319188	.0960424	.0671459	.1304938	112.3061
Stddev	.0000938	.000098	.022517	.0005045	.0003184	.0008583	.4876
%RSD	1.719065	17.23107	.2706660	.5252371	.4741264	.6577395	.4341707
#1	.0054335	-.000650	8.322272	.0954958	.0672735	.1295149	112.4881
#2	.0055569	-.000595	8.340004	.0964900	.0667835	.1311175	111.7537
#3	.0053729	-.000459	8.295288	.0961413	.0673806	.1308491	112.6766

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.762239	26.84860	.1326526	-.001795	.9942090	.1083292	.5848442
Stddev	.008299	.11558	.0007114	.000482	.0185745	.0021936	.0014010
%RSD	.2205854	.4304983	.5363065	26.86339	1.868269	2.024976	.2395576
#1	3.767866	26.89200	.1332126	-.001454	.9956697	.1058087	.5857177
#2	3.766142	26.93621	.1318521	-.002347	.9749473	.1093716	.5832282
#3	3.752708	26.71760	.1328932	-.001585	1.012010	.1098073	.5855867

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.535127	.0599208	.0008925	.0191849	.8197292	1.179923	2.260050
Stddev	.036571	.0014677	.0002305	.0008340	.0013639	.027197	.006461
%RSD	.6607155	2.449437	25.82700	4.346930	.1663860	2.304989	.2858909
#1	5.570759	.0603026	.0006269	.0201089	.8189026	1.209470	2.263571
#2	5.536940	.0582999	.0010108	.0189578	.8213035	1.155935	2.252593
#3	5.497683	.0611598	.0010399	.0184881	.8189817	1.174365	2.263986

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01LX5 Acquired: 12/20/2024 22:29:43 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.4439958	.1551401	-.048013
Stddev	.0048497	.0002742	.000563
%RSD	1.092290	.1767636	1.173533
#1	.4486279	.1553558	-.047929
#2	.4389544	.1548315	-.047496
#3	.4444051	.1552330	-.048614

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2467.219	47151.34	7942.923	2098.173	3219.102
Stddev	3.711	94.71	33.956	7.615	.792
%RSD	.1504252	.2008580	.4275028	.3629236	.0246054
#1	2469.378	47153.30	7944.824	2096.668	3218.466
#2	2462.934	47245.06	7908.056	2106.427	3218.850
#3	2469.346	47055.67	7975.889	2091.422	3219.989

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01MS Acquired: 12/20/2024 22:33:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6468206	1.869970	2.583731	1.132171	.2917756	176.9895
Stddev	.0034502	.003308	.001343	.002335	.0020795	.1353
%RSD	.5334085	.1769056	.0519850	.2062693	.7126995	.0764201
#1	.6506936	1.869424	2.585125	1.129476	.2923455	176.9907
#2	.6456928	1.873517	2.582446	1.133452	.2935106	177.1241
#3	.6440755	1.866969	2.583621	1.133585	.2894705	176.8536

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.797900	.1553789	.2167694	32.50154	.6452456	.5574491
Stddev	.004604	.0002882	.0010928	.02114	.0017574	.0004473
%RSD	.1645586	.1854655	.5041203	.0650430	.2723562	.0802404
#1	2.792595	.1550713	.2157077	32.52445	.6455140	.5579530
#2	2.800852	.1554231	.2167095	32.48279	.6468533	.5572953
#3	2.800253	.1556425	.2178908	32.49737	.6433695	.5570989

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6541649	414.5085	19.48577	104.8430	1.194853	.0464379
Stddev	.0035372	3.4076	.01813	.1285	.000636	.0007512
%RSD	.5407196	.8220908	.0930458	.1225663	.0532167	1.617577
#1	.6509046	418.4422	19.47837	104.8237	1.194979	.0471019
#2	.6579257	412.4594	19.50643	104.7253	1.194164	.0456226
#3	.6536644	412.6240	19.47251	104.9801	1.195417	.0465893

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.262387	.6286072	2.354423	28.85711	.3843818	.2717899
Stddev	.013436	.0032296	.010044	.02950	.0064625	.0007369
%RSD	.2145488	.5137696	.4265955	.1022259	1.681281	.2711127
#1	6.274094	.6318645	2.342839	28.85944	.3917919	.2722693
#2	6.265351	.6285511	2.360698	28.88538	.3814401	.2721591
#3	6.247717	.6254061	2.359733	28.82652	.3799135	.2709415

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01MS Acquired: 12/20/2024 22:33:52 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6937688	3.102200	4.097820	F 16.29206	2.092870	.7941428
Stddev	.0003939	.004186	.037907	.02562	.008385	.0007168
%RSD	.0567770	.1349433	.9250488	.1572606	.4006597	.0902589
#1	.6934498	3.098457	4.136852	16.29926	2.091871	.7936351
#2	.6936475	3.106720	4.061148	16.31332	2.085030	.7949627
#3	.6942091	3.101422	4.095461	16.26361	2.101710	.7938306

Elem	Sr4077
Units	ppm
Avg	-.018197
Stddev	.003495
%RSD	19.20829
#1	-.022156
#2	-.015536
#3	-.016900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.004	59381.73	10041.30	2591.693	2993.125
Stddev	7.042	92.74	13.30	4.453	3.536
%RSD	.2289429	.1561702	.1324977	.1718252	.1181451
#1	3070.029	59276.83	10038.58	2594.244	2989.215
#2	3074.214	59452.83	10055.75	2594.283	2994.061
#3	3083.768	59415.52	10029.56	2586.551	2996.099

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01MSD Acquired: 12/20/2024 22:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6704681	1.919682	2.654812	1.173624	.3025906	178.1616
Stddev	.0046291	.013184	.004030	.001521	.0025073	.4753
%RSD	.6904240	.6867563	.1517915	.1296293	.8286122	.2667850
#1	.6657230	1.924870	2.650182	1.171875	.3003033	177.6574
#2	.6707095	1.929482	2.657530	1.174357	.3021970	178.2257
#3	.6749717	1.904693	2.656725	1.174640	.3052714	178.6015

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.863738	.1561422	.2211415	32.60728	.6532235	.5697840
Stddev	.002300	.0013673	.0004684	.08922	.0010600	.0004705
%RSD	.0803247	.8756831	.2117933	.2736299	.1622779	.0825781
#1	2.863255	.1565896	.2206899	32.51043	.6544361	.5693346
#2	2.866242	.1546073	.2216250	32.62528	.6524729	.5697443
#3	2.861718	.1572298	.2211095	32.68614	.6527614	.5702732

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6571239	428.9010	19.66514	106.2179	1.224664	.0490558
Stddev	.0042730	2.0607	.06766	.3220	.001501	.0007815
%RSD	.6502615	.4804540	.3440559	.3031580	.1225713	1.593139
#1	.6525967	429.6838	19.59773	105.9150	1.223337	.0493431
#2	.6610866	426.5636	19.66466	106.1826	1.224362	.0481713
#3	.6576885	430.4555	19.73305	106.5561	1.226293	.0496530

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.368409	.6375171	2.377534	29.70398	.4033165	.2778017
Stddev	.055578	.0022862	.006701	.23774	.0007971	.0003945
%RSD	.8727109	.3586169	.2818380	.8003765	.1976437	.1419924
#1	6.353433	.6391158	2.385208	29.60019	.4025161	.2781605
#2	6.429940	.6348984	2.374555	29.97597	.4041104	.2773793
#3	6.321853	.6385371	2.372840	29.53577	.4033230	.2778654

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01MSD Acquired: 12/20/2024 22:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7111536	3.144079	4.140239	F 16.80214	2.153606	.8030014
Stddev	.0011107	.002160	.085998	.03788	.008980	.0003887
%RSD	.1561877	.0687145	2.077120	.2254522	.4169526	.0484084
#1	.7098722	3.146255	4.170922	16.76427	2.147803	.8028216
#2	.7118417	3.144049	4.206688	16.84004	2.163949	.8034475
#3	.7117468	3.141934	4.043109	16.80212	2.149067	.8027351

Elem	Sr4077
Units	ppm
Avg	-.031396
Stddev	.002333
%RSD	7.430797
#1	-.033359
#2	-.028817
#3	-.032012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3023.526	58674.09	10079.67	2566.509	2921.617
Stddev	1.580	196.04	49.36	5.513	3.134
%RSD	.0522457	.3341096	.4897156	.2148117	.1072862
#1	3023.280	58739.37	10075.24	2568.316	2918.144
#2	3025.215	58453.74	10131.10	2560.319	2924.235
#3	3022.084	58829.16	10032.68	2570.892	2922.471

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01A Acquired: 12/20/2024 22:42:07 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6652229	1.900836	2.641097	1.163043	.3012190	177.8964
Stddev	.0063612	.014438	.001036	.006697	.0020029	.2073
%RSD	.9562497	.7595625	.0392380	.5758468	.6649273	.1165014
#1	.6697891	1.884443	2.641920	1.163497	.3006879	177.6715
#2	.6679224	1.906403	2.641439	1.156130	.2995351	177.9379
#3	.6579571	1.911662	2.639933	1.169502	.3034339	178.0798

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.869000	.1544846	.2196978	32.56978	.6543358	.5653021
Stddev	.009246	.0005083	.0006027	.05674	.0005867	.0001984
%RSD	.3222662	.3290435	.2743353	.1742135	.0896601	.0350959
#1	2.858341	.1549552	.2203355	32.50740	.6542824	.5655301
#2	2.874851	.1545532	.2196203	32.58361	.6549474	.5652077
#3	2.873808	.1539455	.2191376	32.61832	.6537777	.5651686

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6499499	428.3573	19.70296	106.2733	1.214709	.0490145
Stddev	.0065757	4.0872	.02728	.2304	.001646	.0008315
%RSD	1.011728	.9541595	.1384337	.2168133	.1355420	1.696448
#1	.6539182	425.7767	19.68437	106.0473	1.212808	.0484634
#2	.6535719	426.2254	19.69023	106.2648	1.215682	.0486092
#3	.6423595	433.0697	19.73427	106.5079	1.215637	.0499710

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.390052	.6371783	2.359143	29.67649	.4007345	.2781818
Stddev	.024822	.0002205	.003146	.18166	.0053832	.0006392
%RSD	.3884492	.0345997	.1333589	.6121436	1.343324	.2297616
#1	6.361395	.6374080	2.362265	29.46781	.3981021	.2782102
#2	6.403924	.6369685	2.359192	29.79927	.3971740	.2788063
#3	6.404837	.6371584	2.355973	29.76240	.4069273	.2775289

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5355-01A Acquired: 12/20/2024 22:42:07 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7065397	3.142845	4.175359	F 16.45529	2.114307	.7977189
Stddev	.0024330	.013345	.070063	.01665	.003419	.0020241
%RSD	.3443470	.4246199	1.678006	.1011915	.1617141	.2537324
#1	.7090825	3.129828	4.123373	16.44369	2.113547	.7953817
#2	.7042340	3.142213	4.255035	16.44781	2.111332	.7988996
#3	.7063026	3.156495	4.147669	16.47437	2.118042	.7988753

Elem	Sr4077
Units	ppm
Avg	-.031078
Stddev	.003507
%RSD	11.28302
#1	-.028774
#2	-.029347
#3	-.035114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3066.649	59322.70	10229.52	2611.459	2964.597
Stddev	7.873	83.76	46.19	8.823	3.678
%RSD	.2567373	.1411873	.4515111	.3378570	.1240706
#1	3064.900	59338.88	10176.48	2603.109	2962.436
#2	3059.797	59397.18	10260.90	2620.689	2962.511
#3	3075.250	59232.03	10251.17	2610.578	2968.844

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165786BL Acquired: 12/20/2024 22:46:12 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.000153	-.001177	.0000651	-.001094	-.000425	-.003147	-.002883
Stddev	.002228	.001677	.0002327	.003483	.001021	.009302	.000787
%RSD	1455.924	142.5259	357.4101	318.3284	240.4375	295.5748	27.29128
#1	-.002623	-.001800	.0002630	.002692	-.001517	-.002148	-.003497
#2	.000459	.000723	-.000191	-.004162	.000508	-.012909	-.001996
#3	.001705	-.002454	.000123	-.001812	-.000266	.005615	-.003154

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000034	-.000190	-.015672	.0001855	-.000098	.0003110	.0100138
Stddev	.0000630	.000048	.003949	.0001126	.000117	.0002426	.0037949
%RSD	1874.350	25.35782	25.19590	60.69975	118.4803	78.00491	37.89689
#1	-.000011	-.000238	-.019985	.0000859	-.000131	.0001722	.0135236
#2	-.000051	-.000142	-.014796	.0001630	.000031	.0001697	.0059868
#3	.000072	-.000190	-.012235	.0003077	-.000195	.0005910	.0105310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000273	.0040165	-.000124	-.000262	-.014268	-.004293	-.002887
Stddev	.000457	.0073973	.000226	.000486	.007707	.001080	.000074
%RSD	167.3923	184.1731	182.8539	185.2844	54.01798	25.16014	2.576346
#1	-.000725	.0102276	.000137	.000233	-.023113	-.003416	-.002954
#2	.000190	-.004167	-.000253	-.000739	-.008993	-.003964	-.002807
#3	-.000285	.005989	-.000256	-.000281	-.010697	-.005499	-.002900

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0906416	-.009497	-.000222	.0124055	.0007513	-.005950	-.003235
Stddev	.0070140	.000594	.000134	.0007308	.0003102	.015445	.001829
%RSD	7.738132	6.251822	60.59305	5.891091	41.28788	259.5864	56.54746
#1	.0830524	-.009662	-.000314	.0131122	.0010621	.011872	-.001203
#2	.0919872	-.009991	-.000284	.0116527	.0004417	-.015445	-.004751
#3	.0968854	-.008838	-.000068	.0124515	.0007502	-.014277	-.003752

Sample Name: PB165786BL Acquired: 12/20/2024 22:46:12 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.009755	-.002580	-.000292
Stddev	.003715	.002144	.000080
%RSD	38.08143	83.08194	27.37698
#1	-.005860	-.003719	-.000289
#2	-.013259	-.000107	-.000214
#3	-.010146	-.003915	-.000374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2347.855	45340.61	7352.219	1985.414	3419.074
Stddev	12.638	175.60	26.319	2.290	13.653
%RSD	.5382676	.3873008	.3579785	.1153358	.3993100
#1	2333.341	45381.60	7339.939	1986.933	3404.343
#2	2353.795	45148.14	7382.434	1986.528	3421.578
#3	2356.427	45492.10	7334.283	1982.780	3431.302

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV08 Acquired: 12/20/2024 23:01:02 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	5.018855	4.968577	4.958461	5.046251	5.014142	9.610441	9.289298
Stddev	.007228	.017703	.001462	.006149	.012068	.026711	.031261
%RSD	.1440111	.3562947	.0294904	.1218557	.2406749	.2779373	.3365300
#1	5.025173	4.978300	4.960130	5.041224	5.018753	9.626888	9.325359
#2	5.010973	4.948143	4.957849	5.044422	5.000449	9.624813	9.272667
#3	5.020420	4.979287	4.957405	5.053107	5.023224	9.579621	9.269869

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2383330	2.484182	23.85260	1.018548	2.468169	1.258440	4.980799
Stddev	.0007304	.001505	.08290	.001006	.002138	.001860	.018910
%RSD	.3064784	.0605941	.3475430	.0987515	.0866314	.1478341	.3796579
#1	.2388605	2.485772	23.87998	1.018955	2.467598	1.258186	5.000064
#2	.2386392	2.482780	23.91835	1.019287	2.466375	1.256719	4.962265
#3	.2374993	2.483993	23.75948	1.017403	2.470535	1.260414	4.980066

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451386	24.45688	2.481203	1.246640	25.38493	2.402969	2.484528
Stddev	.006737	.08073	.002214	.001576	.06266	.011699	.013029
%RSD	.2748094	.3300854	.0892364	.1263978	.2468361	.4868466	.5244184
#1	2.447957	24.43173	2.480930	1.248459	25.38191	2.409150	2.499172
#2	2.459147	24.54719	2.479139	1.245687	25.44905	2.410282	2.474218
#3	2.447053	24.39172	2.483542	1.245774	25.32384	2.389477	2.480193

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.93970	4.682430	4.920684	4.980310	4.700434	5.064924	4.978310
Stddev	.05298	.008901	.010239	.003029	.009395	.037382	.015151
%RSD	.2124438	.1900873	.2080906	.0608269	.1998771	.7380495	.3043347
#1	24.99892	4.692628	4.927639	4.981680	4.706379	5.022112	4.990216
#2	24.89681	4.678435	4.908926	4.976837	4.705320	5.081560	4.961256
#3	24.92336	4.676226	4.925487	4.982411	4.689603	5.091099	4.983458

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV08 Acquired: 12/20/2024 23:01:02 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	4.970440	4.606778	4.923593
Stddev	.007169	.012985	.024726
%RSD	.1442245	.2818592	.5021946
#1	4.968550	4.615139	4.950849
#2	4.964406	4.613375	4.917329
#3	4.978364	4.591819	4.902602

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2265.645	43891.19	7058.474	1914.434	3093.411
Stddev	5.936	138.08	29.940	9.345	6.802
%RSD	.2620037	.3145967	.4241678	.4881584	.2198987
#1	2258.924	43809.01	7034.929	1904.002	3087.661
#2	2267.840	43813.96	7048.324	1922.041	3091.653
#3	2270.171	44050.61	7092.170	1917.259	3100.920

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB08 Acquired: 12/20/2024 23:12:48 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.001172	-.000731	.0000042	-.000755	-.000091	.0093307	-.002899
Stddev	.001352	.001988	.0007491	.001558	.001472	.0091950	.000116
%RSD	115.3410	272.1063	17698.60	206.3446	1618.912	98.54545	4.009575
#1	-.002566	-.001115	.0003788	.000147	.001387	.0052194	-.002884
#2	-.001086	.001422	-.000858	.000142	-.001557	.0198640	-.003022
#3	.000135	-.002499	.000492	-.002555	-.000103	.0029087	-.002791

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000396	-.000088	-.016581	.0003090	-.000063	-.000110	.0038392
Stddev	.0000153	.000020	.009786	.0003982	.000063	.000399	.0043318
%RSD	38.60230	23.22486	59.01724	128.8500	100.1428	363.3011	112.8308
#1	.0000292	-.000090	-.026907	.0006255	-.000075	.000254	.0085554
#2	.0000325	-.000067	-.007444	-.000138	-.000119	-.000537	.0000381
#3	.0000572	-.000107	-.015392	.000440	.000005	-.000046	.0029240

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000115	-.007244	.0000592	.0002375	-.028485	-.001493	-.002788
Stddev	.000182	.026682	.0002259	.0003735	.015603	.001344	.000120
%RSD	158.1343	368.3476	381.6176	157.2716	54.77742	90.06901	4.288215
#1	-.000295	.021008	-.000199	.0003355	-.046053	-.000917	-.002669
#2	.000068	-.010725	.000156	.0005521	-.023164	-.003029	-.002909
#3	-.000118	-.032014	.000220	-.000175	-.016239	-.000532	-.002786

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1086916	-.005812	-.000116	.0022975	.0007661	.0075966	-.003602
Stddev	.0287428	.000500	.000283	.0007232	.0004324	.0033095	.003010
%RSD	26.44436	8.608996	243.4152	31.47663	56.43293	43.56498	83.57010
#1	.1307944	-.006389	-.000185	.0016221	.0008520	.0112747	-.003574
#2	.0761985	-.005495	.000195	.0022099	.0002973	.0048597	-.006626
#3	.1190818	-.005553	-.000358	.0030604	.0011491	.0066555	-.000606

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB08 Acquired: 12/20/2024 23:12:48 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.008862	-.002716	-.000244
Stddev	.003850	.000857	.000032
%RSD	43.44622	31.53929	13.18189
#1	-.004420	-.001796	-.000238
#2	-.010936	-.002862	-.000215
#3	-.011232	-.003490	-.000278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.516	45827.55	7346.357	1994.798	3510.481
Stddev	1.117	100.10	12.607	11.088	2.892
%RSD	.0468884	.2184167	.1716059	.5558440	.0823898
#1	2381.902	45739.98	7352.535	1988.252	3507.644
#2	2382.389	45806.02	7331.853	1988.542	3510.374
#3	2380.258	45936.67	7354.683	2007.600	3513.426

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165786BS Acquired: 12/20/2024 23:17:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.8119858	1.974306	.9743352	1.998963	.7853199	1.859633
Stddev	.0040823	.008057	.0025260	.009973	.0028987	.011799
%RSD	.5027540	.4080892	.2592523	.4989073	.3691129	.6344718
#1	.8161353	1.967357	.9744379	1.987812	.7824275	1.868646
#2	.8118480	1.972424	.9717594	2.002048	.7882249	1.863975
#3	.8079742	1.983138	.9768083	2.007029	.7853074	1.846279

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1754519	.1905514	.1946594	.9583510	.4106091	.1953690
Stddev	.0012790	.0009221	.0001522	.0030509	.0015817	.0003496
%RSD	.7289583	.4838980	.0781755	.3183501	.3852134	.1789491
#1	.1763277	.1902087	.1945165	.9589502	.4092700	.1949684
#2	.1739842	.1898498	.1946425	.9550449	.4102031	.1955267
#3	.1760439	.1915958	.1948194	.9610578	.4123543	.1956121

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3101572	3.016420	.1965840	1.934318	.4946805	.0757189
Stddev	.0008801	.021216	.0004647	.010467	.0005726	.0005183
%RSD	.2837700	.7033359	.2364063	.5411197	.1157430	.6844431
#1	.3093007	3.039720	.1967689	1.945436	.4940262	.0762214
#2	.3101117	2.998217	.1960553	1.932864	.4949258	.0757492
#3	.3110592	3.011323	.1969279	1.924654	.4950896	.0751862

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.987745	.2783407	.2011569	9.796803	.2710924	.3936247
Stddev	.001755	.0050562	.0005569	.056162	.0013923	.0005650
%RSD	.0587414	1.816545	.2768369	.5732670	.5135766	.1435365
#1	2.985889	.2730682	.2010746	9.841209	.2696575	.3934933
#2	2.989377	.2788055	.2017503	9.815530	.2711820	.3942438
#3	2.987970	.2831485	.2006457	9.733671	.2724377	.3931369

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: PB165786BS Acquired: 12/20/2024 23:17:08 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6893358	.1824907	F .7429433	5.678517	F -.019756	.1870012
Stddev	.0023505	.0007744	.0148994	.012558	.002431	.0014621
%RSD	.3409789	.4243715	2.005452	.2211426	12.30353	.7818557
#1	.6879495	.1833841	.7508535	5.692708	-.019533	.1886859
#2	.6880081	.1820778	.7522194	5.674002	-.017445	.1860640
#3	.6920497	.1820103	.7257571	5.668841	-.022291	.1862537

Elem	Sr4077
Units	ppm
Avg	.1898449
Stddev	.0004594
%RSD	.2420126
#1	.1897467
#2	.1894425
#3	.1903455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2313.805	44900.29	7220.562	1965.858	3304.421
Stddev	7.593	88.53	30.480	5.131	11.132
%RSD	.3281743	.1971813	.4221241	.2609959	.3368786
#1	2305.567	44837.58	7221.526	1963.750	3293.198
#2	2315.325	45001.57	7250.549	1962.116	3304.605
#3	2320.524	44861.72	7189.612	1971.707	3315.459

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-03 Acquired: 12/20/2024 23:21:12 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.0218944	.0009100	38.14199	.0172562	.0421092	14.02344
Stddev	.0056701	.0004102	.05072	.0023468	.0013384	.01999
%RSD	25.89759	45.07894	.1329880	13.59986	3.178298	.1425680
#1	.0215973	.0010857	38.17546	.0145464	.0436285	14.00183
#2	.0163787	.0004412	38.08363	.0186041	.0415947	14.04127
#3	.0277072	.0012032	38.16689	.0186182	.0411045	14.02723

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1969968	.0034897	.0207191	55.82504	.1161301	.0173915
Stddev	.0006380	.0000576	.0001679	.12008	.0009108	.0001455
%RSD	.3238682	1.649377	.8103456	.2151024	.7843235	.8366257
#1	.1968465	.0034863	.0206106	55.83563	.1153843	.0173948
#2	.1976965	.0035490	.0206342	55.93947	.1171452	.0175354
#3	.1964473	.0034340	.0209125	55.70001	.1158607	.0172444

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.127716	24.66873	.5932795	26.51770	.1380858	.0085380
Stddev	.001719	.04106	.0020233	.14093	.0010103	.0000826
%RSD	.0335272	.1664588	.3410315	.5314615	.7316076	.9677246
#1	5.127286	24.66496	.5918740	26.63153	.1390478	.0084475
#2	5.129610	24.71154	.5955985	26.56150	.1370334	.0086093
#3	5.126253	24.62968	.5923661	26.36007	.1381763	.0085573

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	923.5395	.1128690	20.20367	27.38455	.1042897	.0315272
Stddev	3.6781	.0003293	.00492	.04320	.0006690	.0002733
%RSD	.3982655	.2917400	.0243402	.1577426	.6414771	.8667947
#1	919.5079	.1132262	20.20165	27.33700	.1046123	.0317758
#2	926.7121	.1128030	20.20009	27.42138	.1035206	.0312346
#3	924.3984	.1125776	20.20928	27.39526	.1047363	.0315711

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5341-03 Acquired: 12/20/2024 23:21:12 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.1388557	.4370976	F 138.1447	7.780164	F 72.71562	.0007926
Stddev	.0009041	.0012838	.1745	.012921	.10945	.0009429
%RSD	.6511301	.2937193	.1263291	.1660783	.1505151	118.9714
#1	.1394199	.4372522	138.0018	7.767054	72.69685	.0001632
#2	.1378128	.4382972	138.0930	7.780550	72.61677	.0003378
#3	.1393343	.4357435	138.3392	7.792888	72.83324	.0018767

Elem	Sr4077
Units	ppm
Avg	.2377490
Stddev	.0002511
%RSD	.1056321
#1	.2375146
#2	.2380141
#3	.2377185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2148.719	40980.31	7488.032	1802.553	2783.241
Stddev	2.813	106.12	29.824	.360	6.256
%RSD	.1308993	.2589509	.3982867	.0199589	.2247699
#1	2145.488	41011.21	7497.132	1802.238	2777.097
#2	2150.622	40862.17	7454.718	1802.477	2789.603
#3	2150.047	41067.54	7512.246	1802.945	2783.022

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13 Acquired: 12/20/2024 23:25:26 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	-.002900	-.004392	.0003835	.0012912	-.001389	.0311086	.0249088
Stddev	.002027	.002168	.0010658	.0002581	.000934	.0029680	.0003721
%RSD	69.89181	49.36189	277.9078	19.98821	67.26141	9.540632	1.494007
#1	-.002116	-.005474	.0012185	.0010753	-.000364	.0288732	.0246773
#2	-.001382	-.001896	.0007491	.0012212	-.001608	.0299768	.0253381
#3	-.005201	-.005805	-.000817	.0015771	-.002193	.0344760	.0247110

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	-.000256	6.367095	.0004949	.0004164	.0008815	.0964530
Stddev	.000046	.000078	.043571	.0000653	.0001331	.0003064	.0048402
%RSD	46.90463	30.64754	.6843230	13.19509	31.96758	34.76600	5.018206
#1	-.000049	-.000212	6.317897	.0005506	.0003547	.0009638	.0930470
#2	-.000104	-.000209	6.382576	.0005110	.0003253	.0005422	.1019936
#3	-.000139	-.000346	6.400812	.0004230	.0005691	.0011383	.0943184

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2044548	.9431351	.0016017	-.000303	59.49203	-.002311	.0197740
Stddev	.0013901	.0038304	.0001853	.000237	.32980	.001027	.0001524
%RSD	.6798842	.4061355	11.56974	78.15874	.5543664	44.45194	.7706613
#1	.2029854	.9463991	.0014609	-.000041	59.12055	-.001138	.0199041
#2	.2046304	.9440881	.0018116	-.000502	59.75039	-.003049	.0198115
#3	.2057488	.9389182	.0015326	-.000367	59.60515	-.002745	.0196063

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.041560	.0066820	.0001108	-.000661	.0018909	1.106337	.0045446
Stddev	.032099	.0008766	.0003691	.001219	.0005189	.021993	.0015390
%RSD	3.081863	13.11947	333.0377	184.5014	27.44380	1.987886	33.86473
#1	1.005561	.0057169	.0004724	-.001626	.0013136	1.124542	.0027675
#2	1.051914	.0069000	.0001255	-.001065	.0020405	1.112568	.0054231
#3	1.067204	.0074290	-.000265	.000709	.0023186	1.081901	.0054431

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5291-13 Acquired: 12/20/2024 23:25:26 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	1.791670	-.005330	.0489647
Stddev	.001441	.000421	.0001500
%RSD	.0804358	7.905420	.3064007
#1	1.791600	-.005324	.0487946
#2	1.790266	-.004912	.0490211
#3	1.793145	-.005755	.0490783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2320.851	45607.32	7657.353	1960.793	3311.310
Stddev	4.573	92.50	30.190	1.188	1.124
%RSD	.1970325	.2028091	.3942676	.0605904	.0339508
#1	2316.928	45534.04	7625.700	1960.538	3310.898
#2	2325.873	45576.68	7685.830	1959.754	3310.450
#3	2319.752	45711.25	7660.529	1962.089	3312.582

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LR1 Acquired: 12/20/2024 23:29:20 Type: Unk
Method: NON EPA-6010-200.7(v2544) 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	.0073212	.1204063	.0338976	-.207131	-.001247	1955.988	.0092754
Stddev	.0121554	.0089525	.0078897	.002745	.011831	9.984	.0008530
%RSD	166.0295	7.435234	23.27510	1.325204	949.1350	.5104091	9.195941
#1	-.006570	.1144077	.0316330	-.205783	.001347	1962.376	.0095573
#2	.016007	.1161147	.0426719	-.210289	-.014159	1944.484	.0099517
#3	.012526	.1306967	.0273878	-.205320	.009073	1961.105	.0083172

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111512	.0106230	1836.533	-.001316	.0297274	-.033926	1070.290
Stddev	.0001188	.0003835	10.734	.000337	.0002775	.005954	3.259
%RSD	1.065699	3.609978	.5844633	25.63961	.9334627	17.54986	.3044505
#1	.0112530	.0101852	1836.711	-.001399	.0300335	-.039126	1073.412
#2	.0110206	.0107843	1825.711	-.000945	.0296567	-.027431	1066.911
#3	.0111800	.0108995	1847.176	-.001604	.0294922	-.035221	1070.546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.089806	1623.088	.0188833	-.038744	1962.608	.0654297	.0575688
Stddev	.000417	12.769	.0001862	.000788	7.470	.0017143	.0006128
%RSD	.4644823	.7867164	.9862818	2.033450	.3806118	2.620033	1.064524
#1	-.090137	1629.627	.0189702	-.037927	1970.389	.0661748	.0568880
#2	-.089337	1608.374	.0190102	-.039500	1955.494	.0634690	.0580763
#3	-.089943	1631.263	.0186695	-.038805	1961.942	.0666454	.0577420

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1469.841	.5919607	-.010344	.0134141	-.038114	.1966115	.0897638
Stddev	13.992	.0056808	.000446	.0049666	.000974	.0069966	.0099273
%RSD	.9519274	.9596599	4.315714	37.02548	2.554520	3.558577	11.05934
#1	1477.489	.5980129	-.010449	.0076802	-.038401	.2027844	.0932719
#2	1453.692	.5867438	-.010729	.0161844	-.037029	.1890113	.0974607
#3	1478.341	.5911253	-.009855	.0163778	-.038912	.1980387	.0785588

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LR1 Acquired: 12/20/2024 23:29:20 Type: Unk
Method: NON EPA-6010-200.7(v2544) 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	-.281422	-.303149	-1.06023
Stddev	.009896	.001373	.00323
%RSD	3.516564	.4530615	.3043715
#1	-.270596	-.303096	-1.06337
#2	-.283667	-.301803	-1.05692
#3	-.290003	-.304549	-1.06041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1736.587	31526.48	6500.232	1393.975	2016.610
Stddev	3.762	28.45	29.065	5.902	2.052
%RSD	.2166115	.0902424	.4471387	.4233923	.1017749
#1	1740.406	31548.45	6518.975	1399.115	2018.964
#2	1732.886	31536.66	6514.970	1387.530	2015.199
#3	1736.469	31494.34	6466.750	1395.280	2015.666

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LR2 Acquired: 12/20/2024 23:41:58 Type: Unk
Method: NON EPA-6010-200.7(v2545) 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	.0066615	-.013699	233.6076	.0111408	-.000771	.0121530	109.5265
Stddev	.0045015	.001037	.3007	.0026280	.000986	.0073964	1.2733
%RSD	67.57414	7.573427	.1287317	23.58919	127.7780	60.86018	1.162529
#1	.0091626	-.014704	233.8833	.0088315	-.000164	.0133572	108.4015
#2	.0014649	-.012631	233.2869	.0140004	-.001909	.0042285	109.2692
#3	.0093571	-.013762	233.6525	.0105906	-.000241	.0188734	110.9087

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003436	-.005821	.2173029	.0148255	-.012493	238.9838	-.034259
Stddev	.000178	.000122	.0025507	.0006058	.000256	1.3743	.005459
%RSD	5.186964	2.104344	1.173799	4.086268	2.052564	.5750507	15.93393
#1	-.003632	-.005887	.2166645	.0141757	-.012434	237.9732	-.033940
#2	-.003395	-.005897	.2151320	.0153747	-.012271	238.4295	-.028967
#3	-.003282	-.005680	.2201122	.0149260	-.012774	240.5486	-.039870

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.70823	-.069743	46.10857	.0049146	.1955145	-.018363	36.51604
Stddev	.14578	.008277	.05216	.0005177	.0136640	.000162	.13278
%RSD	.3413406	11.86825	.1131140	10.53278	6.988732	.8842375	.3636234
#1	42.67552	-.067222	46.15089	.0043574	.1810479	-.018457	36.66790
#2	42.86758	-.078988	46.05031	.0053806	.1972939	-.018457	36.45843
#3	42.58158	-.063020	46.12453	.0050058	.2082015	-.018176	36.42179

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2844762	-.008793	-.010630	-.004748	-.036405	-.014115	3.771551
Stddev	.0307459	.000903	.000385	.000561	.000152	.011401	.030809
%RSD	10.80789	10.27271	3.623883	11.81919	.4169857	80.77154	.8168753
#1	.2503997	-.007761	-.010185	-.004125	-.036352	-.027074	3.805852
#2	.2928888	-.009178	-.010860	-.004905	-.036576	-.009639	3.746231
#3	.3101402	-.009440	-.010845	-.005214	-.036286	-.005631	3.762570

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: LR2 Acquired: 12/20/2024 23:41:58 Type: Unk
Method: NON EPA-6010-200.7(v2545) 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	.0152662	-.000039	.0017199
Stddev	.0056940	.001275	.0000510
%RSD	37.29776	3308.612	2.966583
#1	.0198757	-.001180	.0017599
#2	.0170218	-.000272	.0017375
#3	.0089012	.001337	.0016625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.192	46042.50	7395.056	1910.763	3365.466
Stddev	6.317	89.26	48.498	2.100	2.740
%RSD	.3094779	.1938693	.6558178	.1098887	.0814118
#1	2042.804	45959.52	7348.131	1909.980	3366.135
#2	2046.548	46031.03	7392.051	1909.168	3367.809
#3	2034.226	46136.94	7444.987	1913.142	3362.454

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03MS Acquired: 12/20/2024 23:46:46 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.7393812	1.887326	1.233797	1.568202	.3256378	91.92269
Stddev	.0037895	.007212	.003585	.005317	.0017919	.20488
%RSD	.5125279	.3821260	.2905696	.3390487	.5502869	.2228861
#1	.7359472	1.894981	1.232363	1.572512	.3260050	91.77097
#2	.7434469	1.886338	1.237877	1.562261	.3236906	91.84135
#3	.7387495	1.880659	1.231151	1.569833	.3272176	92.15576

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5939847	.1631699	.1913845	20.64567	.5447695	.2687394
Stddev	.0045588	.0007250	.0001133	.10592	.0005258	.0003607
%RSD	.7674885	.4443119	.0592124	.5130530	.0965123	.1342098
#1	.5888459	.1624526	.1913959	20.52551	.5450411	.2683232
#2	.5955655	.1639024	.1914917	20.68599	.5441635	.2689362
#3	.5975426	.1631548	.1912659	20.72552	.5451040	.2689589

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4938635	169.7374	3.734284	21.26771	.6356322	.0617649
Stddev	.0005640	1.3770	.016582	.10866	.0008550	.0002215
%RSD	.1142046	.8112412	.4440442	.5109260	.1345139	.3586482
#1	.4945144	168.5374	3.723791	21.14224	.6350157	.0619048
#2	.4935579	169.4339	3.725661	21.33094	.6366083	.0618805
#3	.4935182	171.2408	3.753401	21.32996	.6352728	.0615095

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.642466	.4578068	.6773138	13.37956	.2707022	.3451908
Stddev	.018569	.0025393	.0011254	.08319	.0013031	.0003787
%RSD	.3999802	.5546592	.1661623	.6217445	.4813938	.1097019
#1	4.639979	.4561718	.6775109	13.30441	.2695636	.3451907
#2	4.625265	.4565166	.6783276	13.36533	.2704196	.3448121
#3	4.662153	.4607322	.6761028	13.46895	.2721235	.3455695

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: P5343-03MS Acquired: 12/20/2024 23:46:46 Type: Unk
Method: NON EPA-6010-200.7(v2482) 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	.6631785	1.688970	5.646329	F 10.91456	1.395192	.2381626
Stddev	.0009802	.008674	.039906	.02190	.009178	.0019222
%RSD	.1477978	.5135414	.7067547	.2006147	.6578017	.8071126
#1	.6623620	1.678969	5.646827	10.93983	1.385814	.2359450
#2	.6642655	1.693514	5.606177	10.90246	1.404156	.2391901
#3	.6629079	1.694428	5.685983	10.90138	1.395605	.2393528

Elem	Sr4077
Units	ppm
Avg	.0945823
Stddev	.0010109
%RSD	1.068801
#1	.0955838
#2	.0946007
#3	.0935623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2667.788	52292.24	8690.902	2267.056	3241.250
Stddev	1.757	162.82	3.987	.904	6.112
%RSD	.0658760	.3113726	.0458772	.0398975	.1885688
#1	2666.798	52222.65	8687.363	2268.037	3243.245
#2	2666.750	52478.29	8690.122	2266.876	3234.390
#3	2669.818	52175.77	8695.222	2266.255	3246.115

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCV09 Acquired: 12/20/2024 23:55:30 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.935894	4.945523	4.896907	4.948010	4.973402	9.661184	9.216321
Stddev	.011421	.015986	.006207	.007467	.012953	.035565	.035286
%RSD	.2313782	.3232443	.1267531	.1509060	.2604467	.3681269	.3828683
#1	4.936595	4.931982	4.891955	4.940069	4.965794	9.620845	9.232210
#2	4.924140	4.941427	4.894894	4.949072	4.966053	9.674685	9.175884
#3	4.946949	4.963158	4.903870	4.954889	4.988358	9.688021	9.240870

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2387995	2.451550	23.79738	1.017237	2.445778	1.245440	4.940994
Stddev	.0006826	.004056	.03630	.001323	.003993	.001368	.028476
%RSD	.2858510	.1654581	.1525518	.1300930	.1632606	.1098335	.5763309
#1	.2395226	2.447624	23.81788	1.016690	2.441783	1.244483	4.973875
#2	.2387095	2.451301	23.75547	1.016275	2.445784	1.244831	4.924488
#3	.2381663	2.455725	23.81880	1.018746	2.449769	1.247007	4.924617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463423	24.40448	2.451991	1.242683	25.18679	2.401013	2.461331
Stddev	.008337	.00637	.003700	.001992	.08747	.005832	.002875
%RSD	.3384363	.0261160	.1508930	.1603065	.3472980	.2428772	.1168036
#1	2.453870	24.41050	2.448469	1.244857	25.13499	2.402799	2.464332
#2	2.467171	24.39781	2.451657	1.242245	25.13759	2.394498	2.461058
#3	2.469228	24.40514	2.455846	1.240946	25.28778	2.405743	2.458602

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.68338	4.694302	4.933376	4.906596	4.698004	5.248169	4.881657
Stddev	.04978	.014449	.005715	.013268	.007603	.079108	.001435
%RSD	.2016754	.3077967	.1158447	.2704196	.1618318	1.507341	.0293997
#1	24.68725	4.708499	4.927940	4.899397	4.705039	5.173047	4.882372
#2	24.63178	4.694792	4.932854	4.898484	4.689938	5.240724	4.880005
#3	24.73111	4.679614	4.939334	4.921908	4.699034	5.330736	4.882594

Sample Name: CCV09 Acquired: 12/20/2024 23:55:30 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.841882	4.608928	4.952955
Stddev	.013993	.010884	.054426
%RSD	.2890028	.2361502	1.098851
#1	4.839422	4.620411	5.005253
#2	4.829283	4.598763	4.956988
#3	4.856943	4.607610	4.896626

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2319.028	44762.71	7112.108	1944.836	3188.458
Stddev	3.324	86.04	32.127	6.924	3.584
%RSD	.1433364	.1922102	.4517190	.3560444	.1123975
#1	2315.496	44668.44	7081.039	1937.625	3185.109
#2	2322.095	44782.70	7110.089	1945.452	3192.238
#3	2319.492	44836.99	7145.198	1951.432	3188.028

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB09 Acquired: 12/21/2024 0:05:13 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002210	-.001351	-.001048	.0015814	.0001619	.0013329	-.003824
Stddev	.002259	.000280	.000469	.0021268	.0006173	.0043850	.000609
%RSD	102.2190	20.73390	44.73917	134.4884	381.3797	328.9884	15.92097
#1	-.000330	-.001332	-.001505	.0036535	-.000150	.0063302	-.003540
#2	-.001583	-.001080	-.000568	.0016867	-.000237	-.001871	-.003409
#3	-.004715	-.001639	-.001070	-.000596	.000873	-.000460	-.004523

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000019	-.000057	-.016476	-.000203	-.000040	-.000002	-.006164
Stddev	.0000230	.000069	.007620	.000044	.000256	.000322	.002775
%RSD	1228.396	121.1272	46.25214	21.66900	646.4993	15980.18	45.02293
#1	-.000022	-.000101	-.008287	-.000203	-.000333	.000124	-.004443
#2	.000024	-.000092	-.017781	-.000159	.000076	.000238	-.009366
#3	.000003	.000023	-.023359	-.000247	.000138	-.000368	-.004684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000432	-.004634	-.000119	-.000547	.0629433	-.003934	-.003215
Stddev	.000149	.016747	.000175	.000382	.0109466	.001497	.000034
%RSD	34.56140	361.3637	147.7427	69.94375	17.39118	38.04491	1.067436
#1	-.000277	.001891	.000028	-.000105	.0504097	-.005594	-.003209
#2	-.000443	-.023662	-.000313	-.000777	.0677927	-.002687	-.003184
#3	-.000575	.007867	-.000071	-.000759	.0706275	-.003522	-.003252

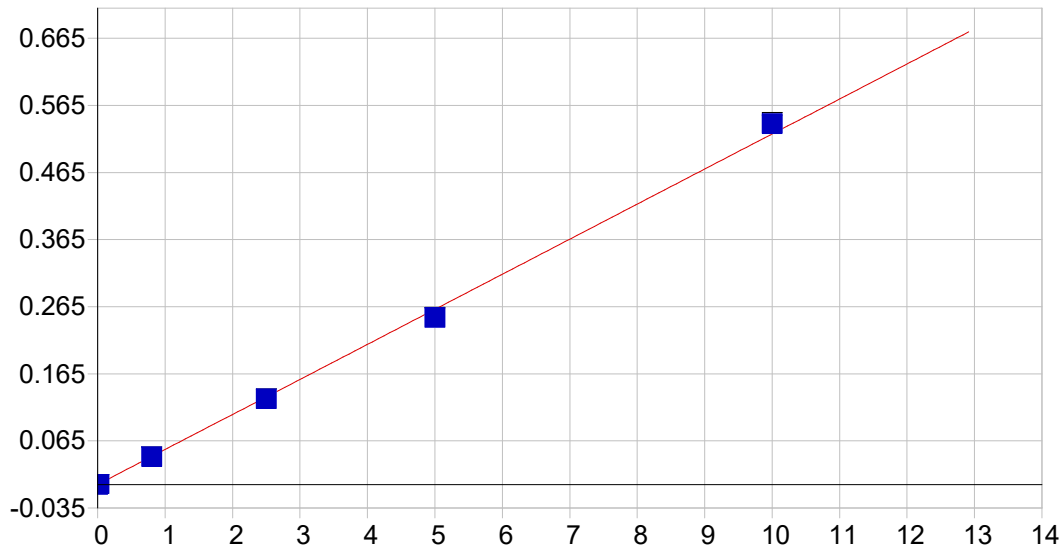
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1424687	-.004765	-.000240	-.000477	.0009792	.0094699	-.001423
Stddev	.0032611	.000724	.000133	.001163	.0011263	.0015058	.002182
%RSD	2.288979	15.19861	55.30295	244.1268	115.0313	15.90092	153.3736
#1	.1391174	-.004352	-.000289	.000860	.0000614	.0102346	.001086
#2	.1456313	-.005601	-.000090	-.001265	.0006399	.0104399	-.002880
#3	.1426573	-.004342	-.000342	-.001025	.0022362	.0077352	-.002475

Reviewed By:kareem
On:12/27/2024
10:17:53 AM
Inst Id :P4
LB :LB134054

Sample Name: CCB09 Acquired: 12/21/2024 0:05:13 Type: Unk
Method: NON EPA-6010-200.7(v2482) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007757	.0002643	-.000231
Stddev	.001445	.0007788	.000056
%RSD	18.63213	294.6799	24.38404
#1	-.007111	.0009785	-.000170
#2	-.009412	-.000566	-.000241
#3	-.006746	.000380	-.000281

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2359.638	45776.34	7497.567	1998.013	3407.388
Stddev	8.627	126.56	16.963	6.047	8.044
%RSD	.3656186	.2764771	.2262405	.3026697	.2360630
#1	2355.184	45645.16	7515.522	1991.240	3400.660
#2	2354.148	45897.72	7481.812	2002.872	3405.206
#3	2369.582	45786.13	7495.366	1999.925	3416.297

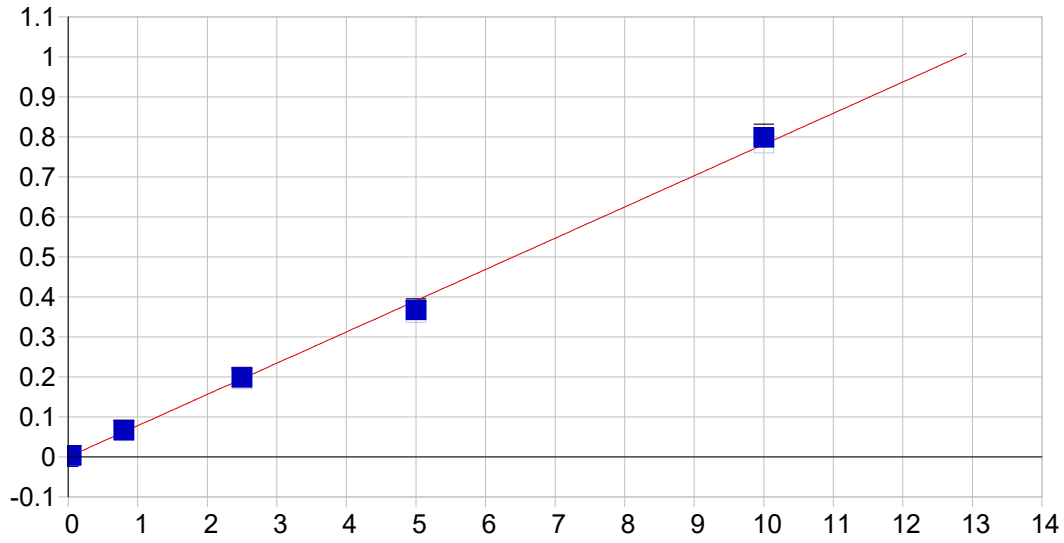


As 189.042 {479}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000130	Re-Slope:	1.000000
A1 (Gain):	0.052253	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999424	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002423		
Predicted MQL:	0.008075		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00013	.000	1
S1	.02000	.02053	.001	2.64	.00094	.000	1
S3	2.5000	2.4469	-.053	-2.12	.12759	.000	1
S4	5.0000	4.7624	-.238	-4.75	.24844	.000	1
S5	10.000	10.294	.294	2.94	.53720	.002	1
S2	.80000	.79620	-.004	-.475	.04143	.000	1

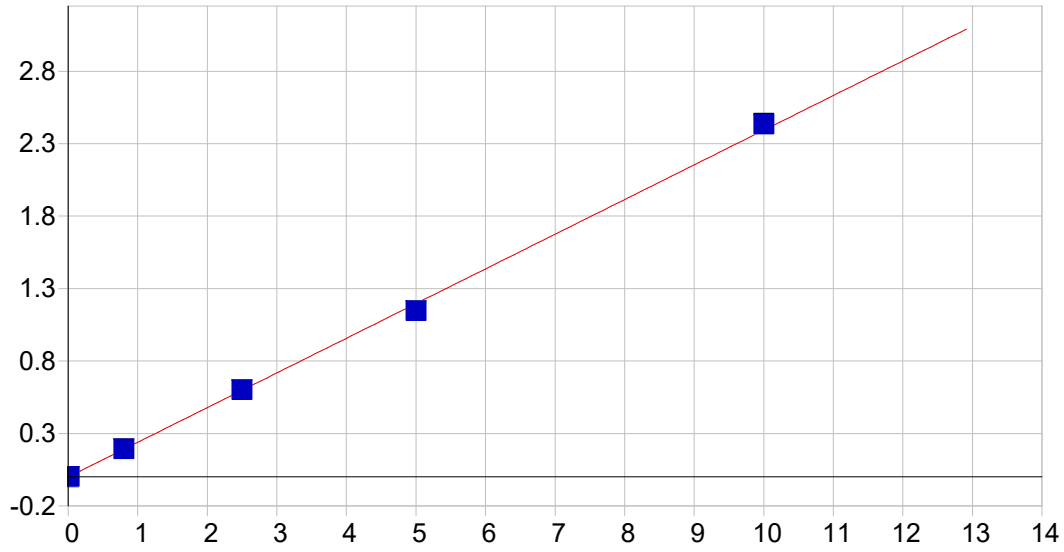


Tl 190.856 {477}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000013	Re-Slope:	1.000000
A1 (Gain):	0.078099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999253	Status:	OK.
Std Error of Est:	0.000098		
Predicted MDL:	0.001502		
Predicted MQL:	0.005006		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.04000	.04042	.000	1.05	.00294	.000	1
S3	2.5000	2.5361	.036	1.44	.19446	.001	1
S4	5.0000	4.6974	-.303	-6.05	.35966	.004	1
S5	10.000	10.219	.219	2.19	.78369	.009	1
S2	.80000	.84714	.047	5.89	.06500	.001	1

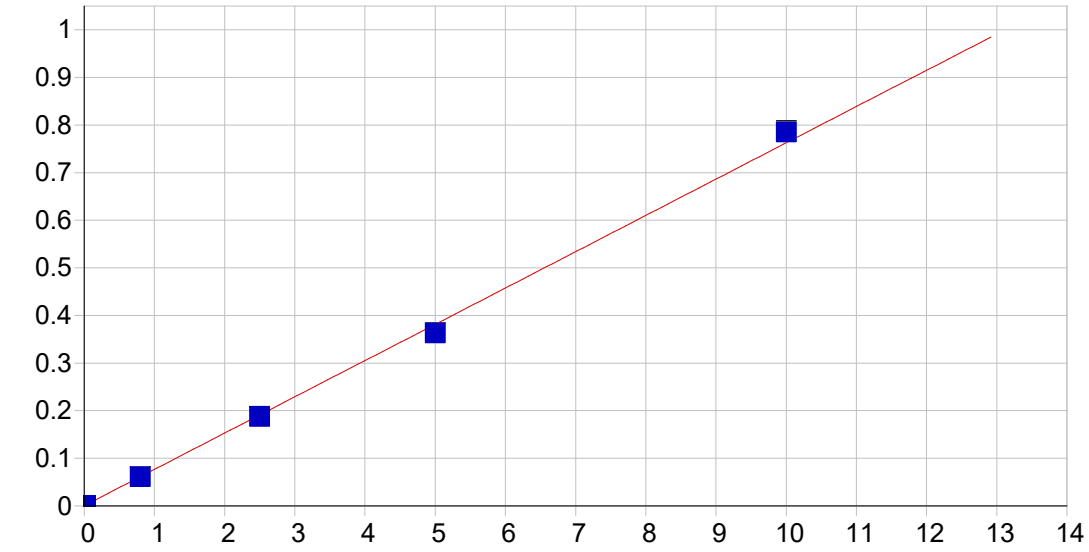


Pb 220.353 {453}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000210	Re-Slope:	1.000000
A1 (Gain):	0.239342	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999683	Status:	OK.
Std Error of Est:	0.000109		
Predicted MDL:	0.001029		
Predicted MQL:	0.003431		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00021	.000	1
S1	.01200	.01146	-.001	-4.50	.00248	.000	1
S3	2.5000	2.5154	.015	.617	.60118	.001	1
S4	5.0000	4.7974	-.203	-4.05	1.1467	.000	1
S5	10.000	10.176	.176	1.76	2.4327	.006	1
S2	.80000	.81179	.012	1.47	.19388	.001	1

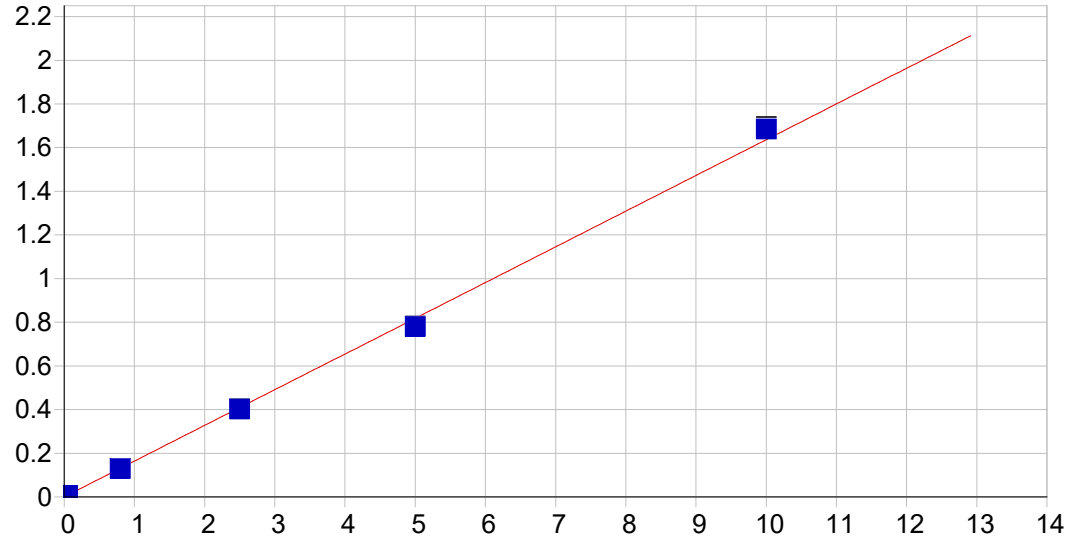


Se 196.090 {472}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000444	Re-Slope:	1.000000
A1 (Gain):	0.076222	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999409	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.002218		
Predicted MQL:	0.007392		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00044	.000	1
S1	.02000	.01971	-.000	-1.47	.00195	.000	1
S3	2.5000	2.4546	-.045	-1.82	.18749	.000	1
S4	5.0000	4.7537	-.246	-4.93	.36268	.001	1
S5	10.000	10.294	.294	2.94	.78491	.003	1
S2	.80000	.79756	-.002	-.304	.06122	.000	1

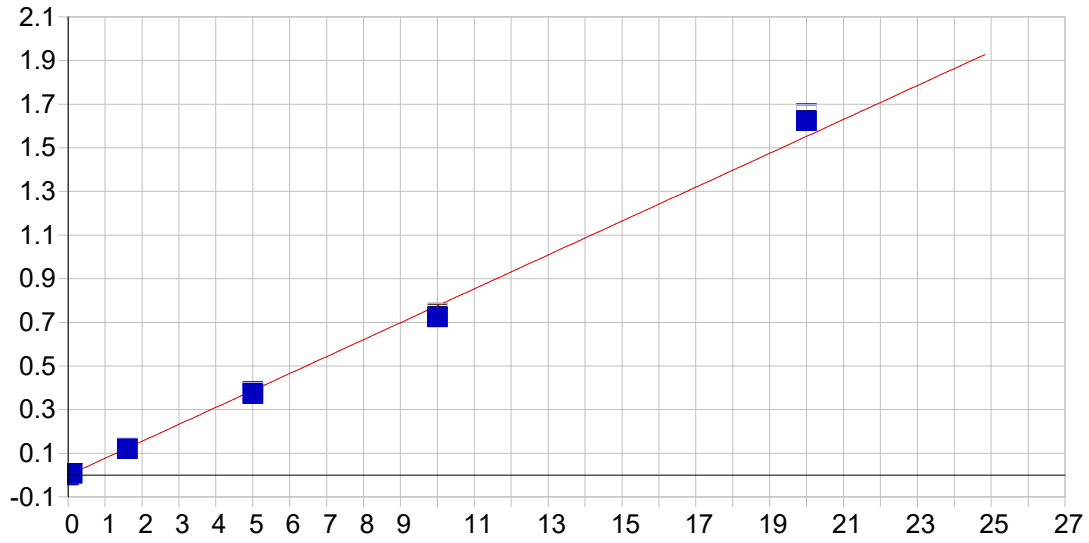


Sb 206.833 {463}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000308	Re-Slope:	1.000000
A1 (Gain):	0.163578	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999436	Status:	OK.
Std Error of Est:	0.000204		
Predicted MDL:	0.001272		
Predicted MQL:	0.004241		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00031	.000	1
S1	.05000	.04819	-.002	-3.61	.00821	.000	1
S3	2.5000	2.4511	-.049	-1.96	.40237	.001	1
S4	5.0000	4.7654	-.235	-4.69	.78204	.001	1
S5	10.000	10.295	.295	2.95	1.6887	.007	1
S2	.80000	.79051	-.009	-1.19	.12997	.001	1

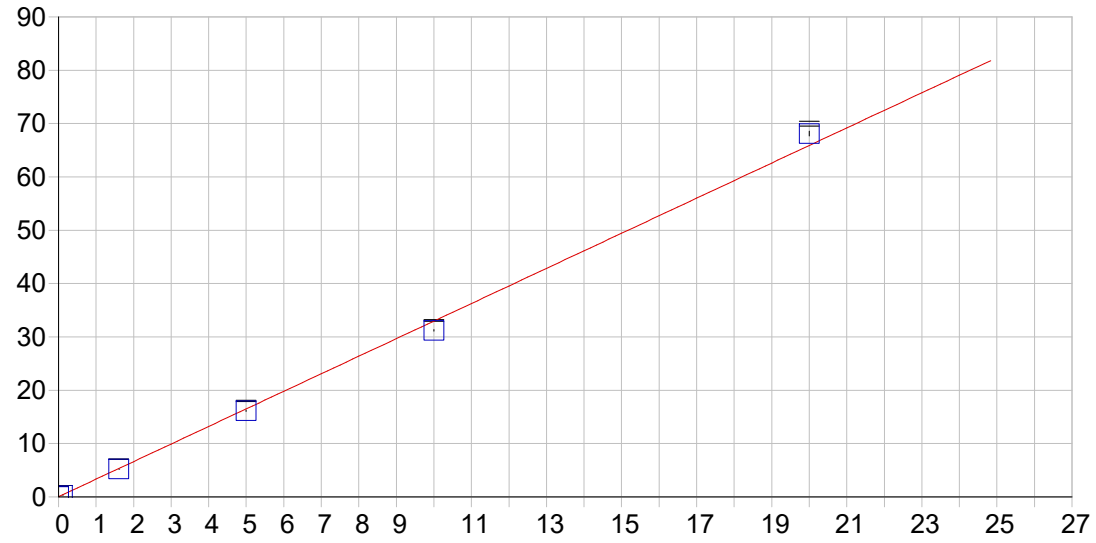


Al 396.152 { 85}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000385	Re-Slope:	1.000000
A1 (Gain):	0.077637	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998765	Status:	OK.
Std Error of Est:	0.000292		
Predicted MDL:	0.006401		
Predicted MQL:	0.021336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00038	.000	1
S1	.10000	.09878	-.001	-1.22	.00789	.000	1
S3	5.0000	4.8019	-.198	-3.96	.37995	.003	1
S4	10.000	9.3409	-.659	-6.59	.73988	.003	1
S5	20.000	20.910	.910	4.55	1.6532	.002	1
S2	1.6000	1.5481	-.052	-3.24	.12222	.001	1

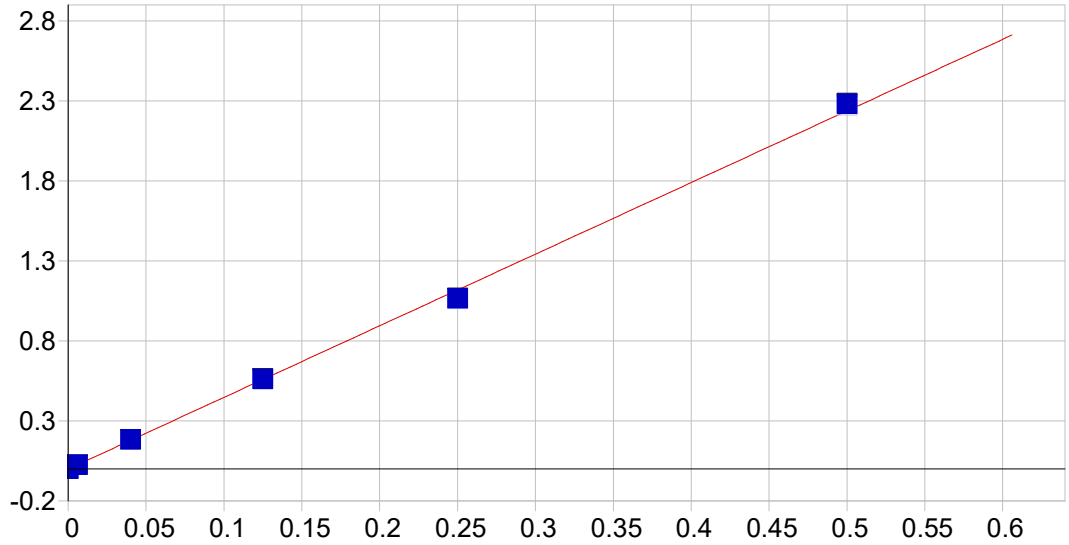


Ba 493.409 { 68}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.042060	Re-Slope:	1.000000
A1 (Gain):	3.292632	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999259	Status:	OK.
Std Error of Est:	0.009403		
Predicted MDL:	0.000497		
Predicted MQL:	0.001657		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.04210	.000	1
S1	.10000	.09520	-.005	-4.80	.35553	.002	1
S3	5.0000	4.8877	-.112	-2.25	16.135	.120	1
S4	10.000	9.4675	-.533	-5.33	31.215	.156	1
S5	20.000	20.676	.676	3.38	68.121	.456	1
S2	1.6000	1.5734	-.027	-1.66	5.2226	.017	1

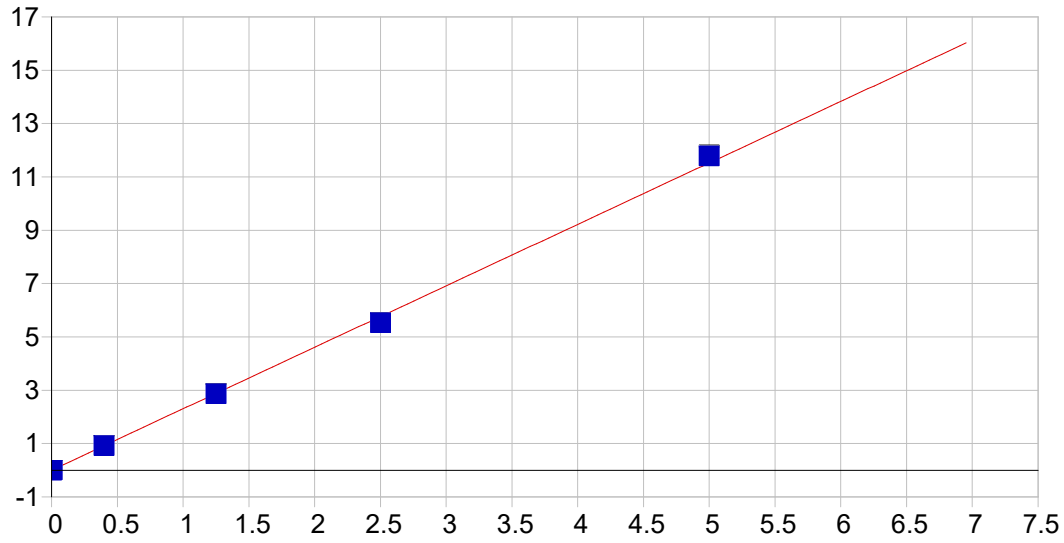


Be 234.861 {144}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000555	Re-Slope:	1.000000
A1 (Gain):	4.475363	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999579	Status:	OK.
Std Error of Est:	0.000372		
Predicted MDL:	0.000054		
Predicted MQL:	0.000179		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00055	.000	1
S1	.00600	.00587	-.000	-2.20	.02551	.000	1
S3	.12500	.12564	.001	.511	.55922	.003	1
S4	.25000	.23843	-.012	-4.63	1.0615	.002	1
S5	.50000	.51003	.010	2.01	2.2720	.004	1
S2	.04000	.04103	.001	2.57	.18226	.000	1

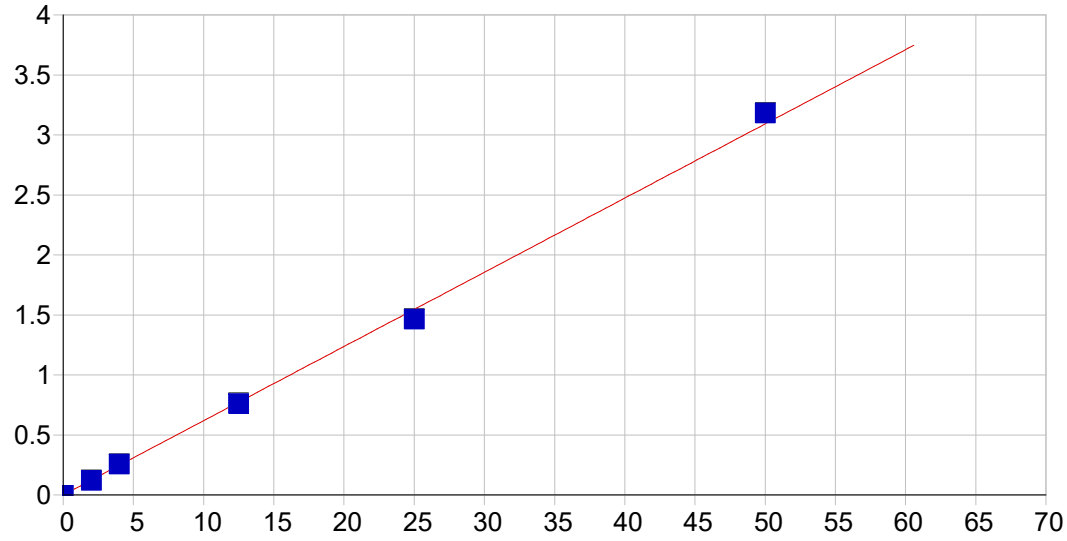


Cd 226.502 {449}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	2.304944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000563		
Predicted MDL:	0.000082		
Predicted MQL:	0.000272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.00600	.00575	-.000	-4.12	.01333	.000	1
S3	1.2500	1.2427	-.007	-.585	2.8663	.001	1
S4	2.5000	2.3983	-.102	-4.07	5.5319	.005	1
S5	5.0000	5.1106	.111	2.21	11.788	.034	1
S2	.40000	.39871	-.001	-.321	.91967	.004	1

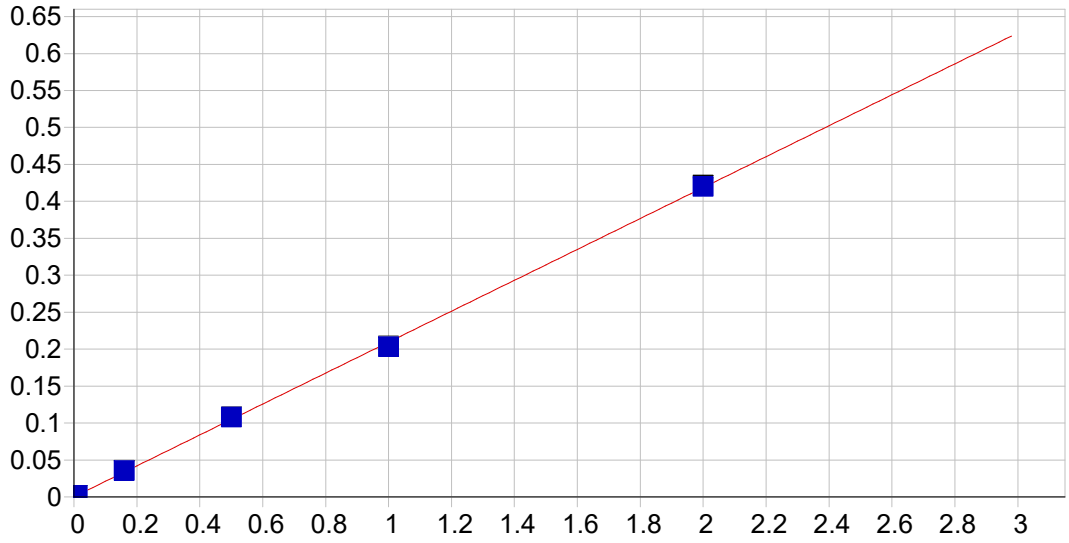


Ca 373.690 { 90}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000323	Re-Slope:	1.000000
A1 (Gain):	0.061829	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999345	Status:	OK.
Std Error of Est:	0.001185		
Predicted MDL:	0.007745		
Predicted MQL:	0.025817		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	.00033	.000	1
S2	4.0000	4.1334	.133	3.34	.25589	.001	1
S3	12.500	12.296	-.204	-1.63	.76058	.005	1
S4	25.000	23.663	-1.34	-5.35	1.4634	.002	1
S5	50.000	51.454	1.45	2.91	3.1817	.002	1
S1	2.0000	1.9533	-.047	-2.33	.12110	.001	1

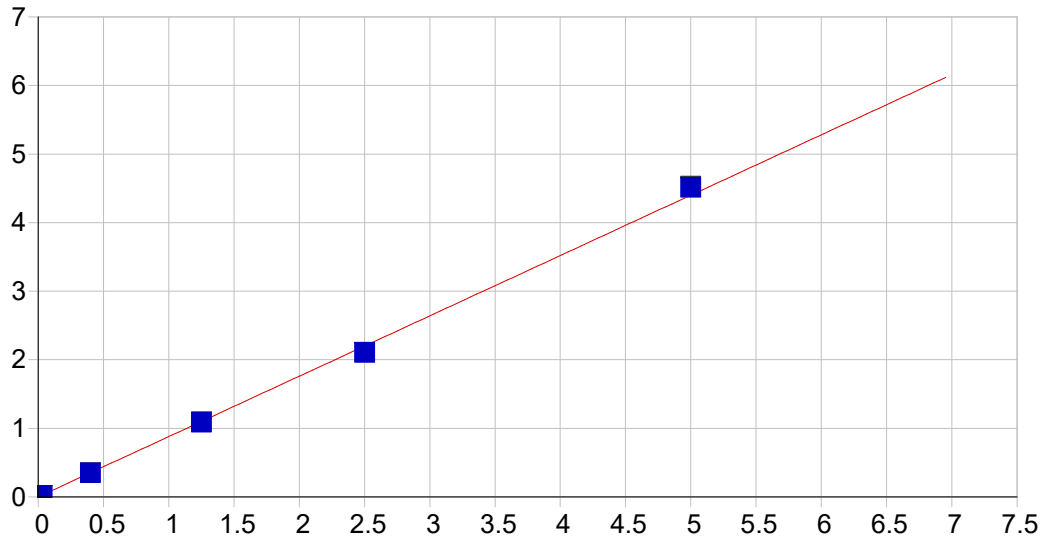


Cr 267.716 {126}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000155	Re-Slope:	1.000000
A1 (Gain):	0.209259	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999727	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.000359		
Predicted MQL:	0.001198		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.01000	.00925	-.001	-7.54	.00209	.000	1
S3	.50000	.51558	.016	3.12	.10807	.000	1
S4	1.0000	.96982	-.030	-3.02	.20316	.001	1
S5	2.0000	2.0061	.006	.304	.42007	.002	1
S2	.16000	.16928	.009	5.80	.03559	.000	1

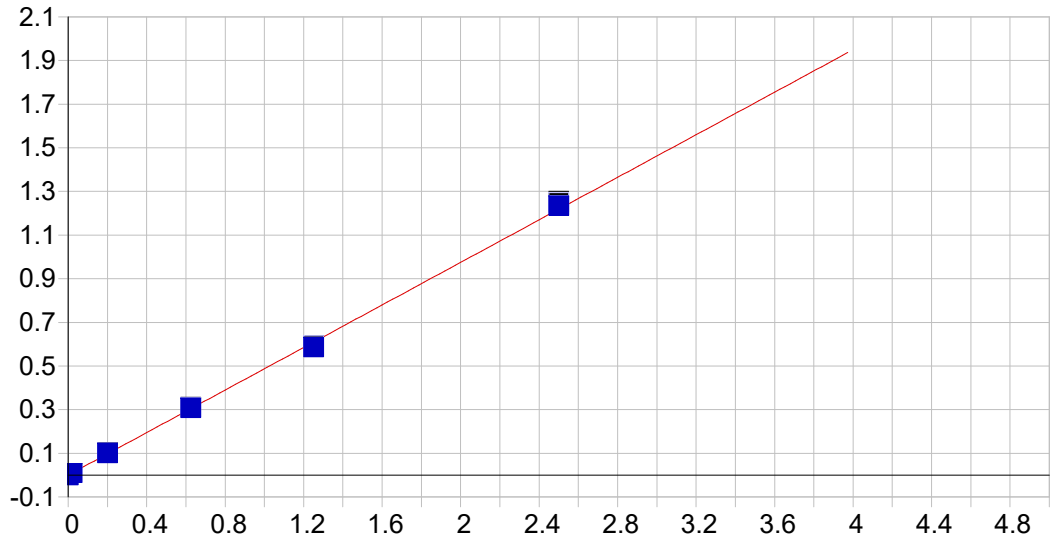


Co 228.616 {448}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.879931	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999549	Status:	OK.
Std Error of Est:	0.000538		
Predicted MDL:	0.000191		
Predicted MQL:	0.000636		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.03000	.02891	-.001	-3.62	.02541	.000	1
S3	1.2500	1.2376	-.012	-.993	1.0909	.001	1
S4	2.5000	2.3893	-.111	-4.43	2.1062	.001	1
S5	5.0000	5.1271	.127	2.54	4.5190	.014	1
S2	.40000	.39712	-.003	-.719	.35012	.002	1

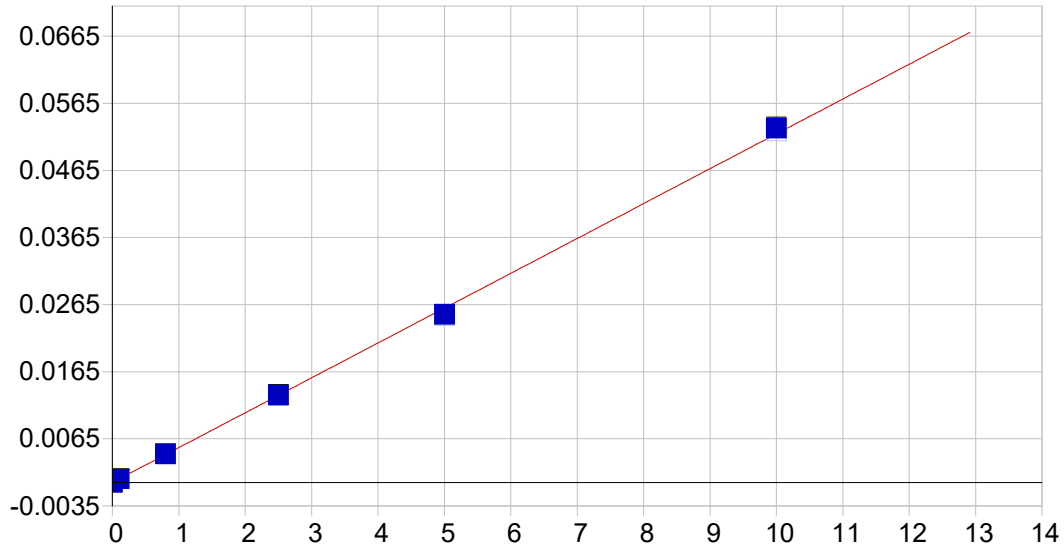


Cu 224.700 {450}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.487503	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999715	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.000519		
Predicted MQL:	0.001729		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.02000	.02103	.001	5.17	.01024	.000	1
S3	.62500	.63022	.005	.835	.31071	.000	1
S4	1.2500	1.2021	-.048	-3.83	.59315	.000	1
S5	2.5000	2.5340	.034	1.36	1.2498	.005	1
S2	.20000	.20763	.008	3.82	.10222	.001	1

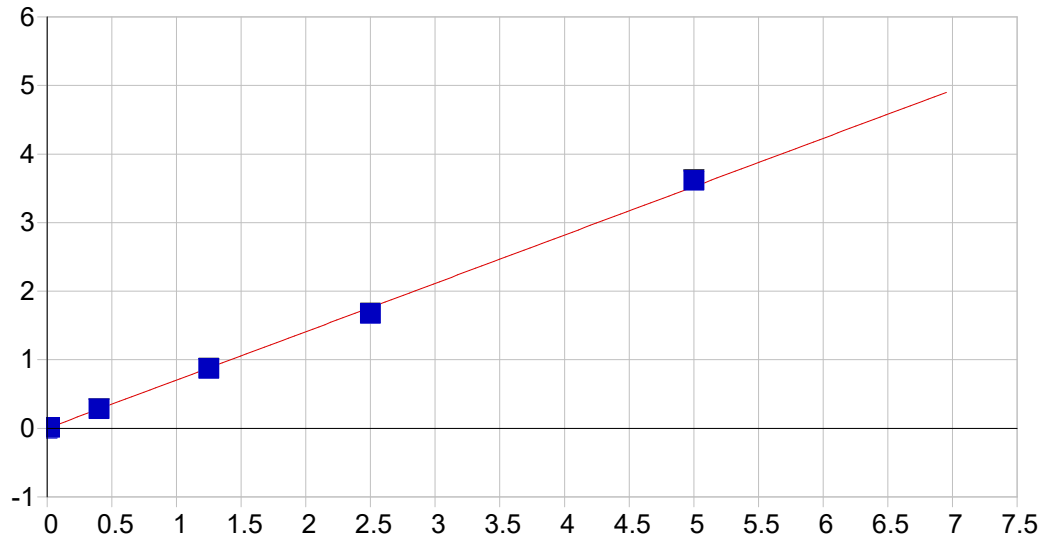


Fe 240.488 {140}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.005195	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.004390		
Predicted MQL:	0.014633		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00000	.000	1
S1	.10000	.10164	.002	1.64	.00052	.000	1
S3	2.5000	2.5025	.003	.101	.01289	.000	1
S4	5.0000	4.8201	-.180	-3.60	.02482	.000	1
S5	10.000	10.159	.159	1.59	.05233	.000	1
S2	.80000	.81661	.017	2.08	.00420	.000	1

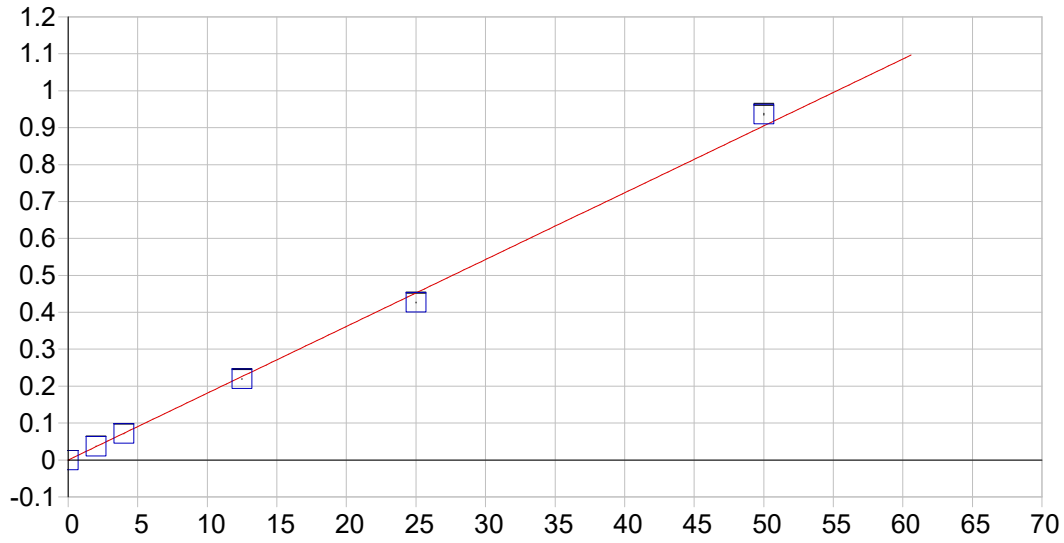


Mn 257.610 {131}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.704742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999472	Status:	OK.
Std Error of Est:	0.000380		
Predicted MDL:	0.000276		
Predicted MQL:	0.000919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00004	.000	1
S1	.02000	.01993	-.000	-.328	.01409	.000	1
S3	1.2500	1.2373	-.013	-1.02	.87218	.006	1
S4	2.5000	2.3774	-.123	-4.91	1.6758	.004	1
S5	5.0000	5.1331	.133	2.66	3.6182	.013	1
S2	.40000	.40235	.002	.587	.28364	.002	1

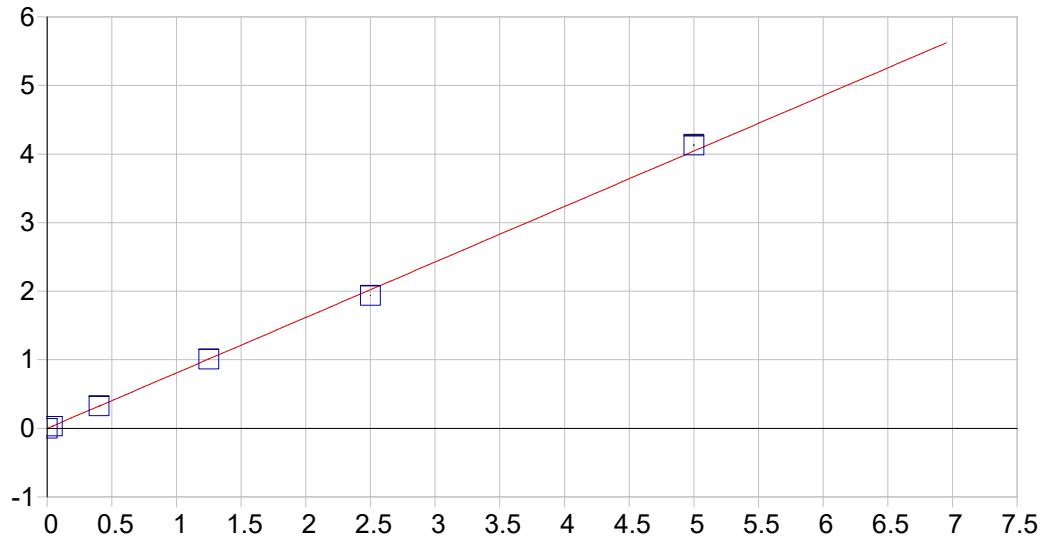


Mg 279.079 {121}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000093	Re-Slope:	1.000000
A1 (Gain):	0.018096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999179	Status:	OK.
Std Error of Est:	0.000388		
Predicted MDL:	0.011570		
Predicted MQL:	0.038567		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	-.00009	.000	1
S2	4.0000	3.9421	-.058	-1.45	.07125	.001	1
S3	12.500	12.145	-.355	-2.84	.21969	.001	1
S4	25.000	23.594	-1.41	-5.62	.42688	.001	1
S5	50.000	51.751	1.75	3.50	.93643	.002	1
S1	2.0000	2.0673	.067	3.36	.03732	.000	1

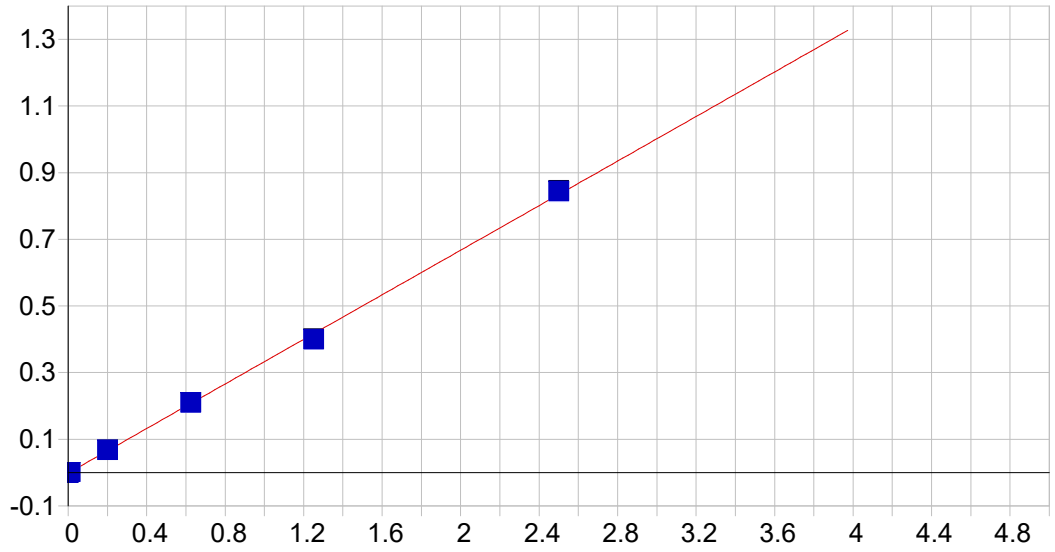


Ni 231.604 {446}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000183	Re-Slope:	1.000000
A1 (Gain):	0.808726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000511		
Predicted MDL:	0.000251		
Predicted MQL:	0.000837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.04000	.03891	-.001	-2.73	.03128	.000	1
S3	1.2500	1.2468	-.003	-.259	1.0081	.001	1
S4	2.5000	2.3956	-.104	-4.18	1.9372	.002	1
S5	5.0000	5.1059	.106	2.12	4.1291	.012	1
S2	.40000	.40282	.003	.705	.32559	.001	1

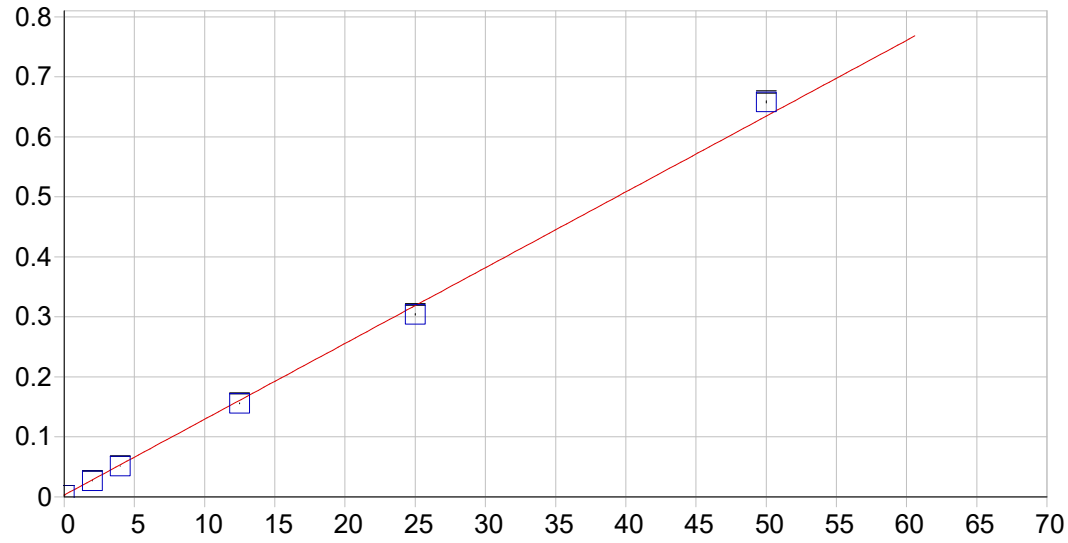


Ag 328.068 {103}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001482	Re-Slope:	1.000000
A1 (Gain):	0.334377	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999692	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.000320		
Predicted MQL:	0.001066		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00148	.000	1
S1	.01000	.01016	.000	1.63	.00189	.000	1
S3	.62500	.63285	.008	1.26	.20930	.000	1
S4	1.2500	1.2011	-.049	-3.91	.39849	.001	1
S5	2.5000	2.5322	.032	1.29	.84191	.002	1
S2	.20000	.20866	.009	4.33	.06802	.000	1

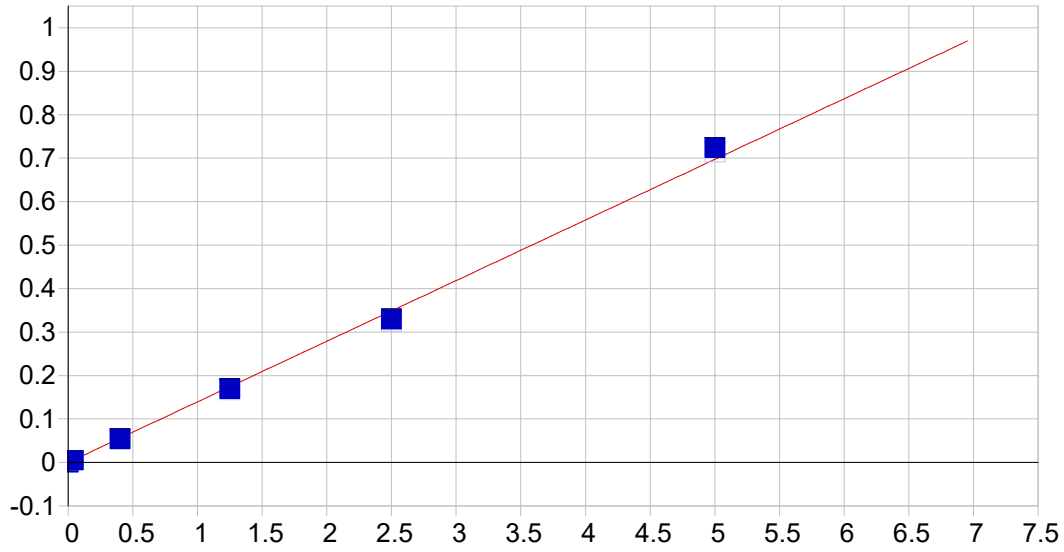


Na 589.592 { 57}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003157	Re-Slope:	1.000000
A1 (Gain):	0.012626	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999176	Status:	OK.
Std Error of Est:	0.000271		
Predicted MDL:	0.012398		
Predicted MQL:	0.041326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	.00316	.000	1
S2	4.0000	3.8172	-.183	-4.57	.05135	.000	1
S3	12.500	12.100	-.400	-3.20	.15593	.001	1
S4	25.000	23.838	-1.16	-4.65	.30413	.001	1
S5	50.000	51.876	1.88	3.75	.65814	.002	1
S1	2.0000	1.8688	-.131	-6.56	.02675	.000	1

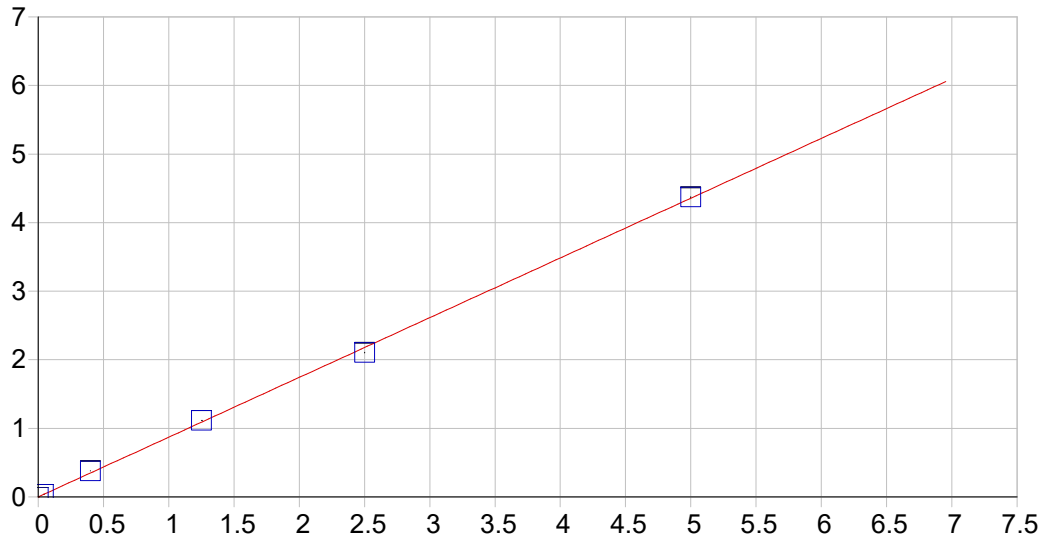


V 292.402 {115}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.139440	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999066	Status:	OK.
Std Error of Est:	0.000139		
Predicted MDL:	0.001554		
Predicted MQL:	0.005181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00004	.000	1
S1	.04000	.03717	-.003	-7.07	.00501	.000	1
S3	1.2500	1.2125	-.038	-3.00	.16657	.001	1
S4	2.5000	2.3609	-.139	-5.56	.32417	.001	1
S5	5.0000	5.1909	.191	3.82	.71370	.001	1
S2	.40000	.38837	-.012	-2.91	.05338	.000	1

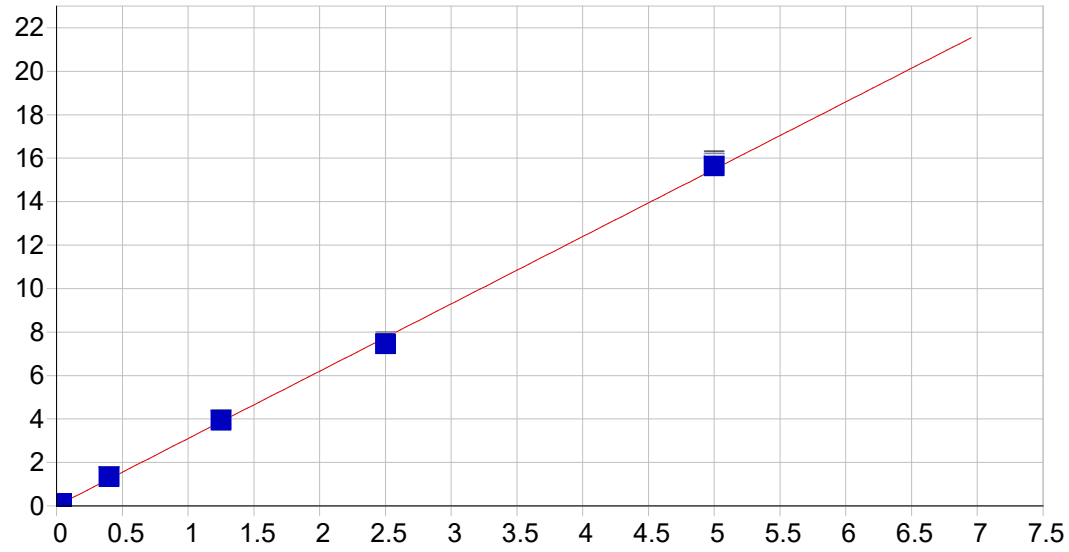


Zn 206.200 {464}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000257	Re-Slope:	1.000000
A1 (Gain):	0.871240	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999618	Status:	OK.
Std Error of Est:	0.000565		
Predicted MDL:	0.000193		
Predicted MQL:	0.000644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00025	.000	1
S1	.04000	.04233	.002	5.82	.03713	.000	1
S3	1.2500	1.2806	.031	2.45	1.1160	.002	1
S4	2.5000	2.4142	-.086	-3.43	2.1036	.004	1
S5	5.0000	5.0174	.017	.349	4.3716	.006	1
S2	.40000	.43543	.035	8.86	.37962	.002	1

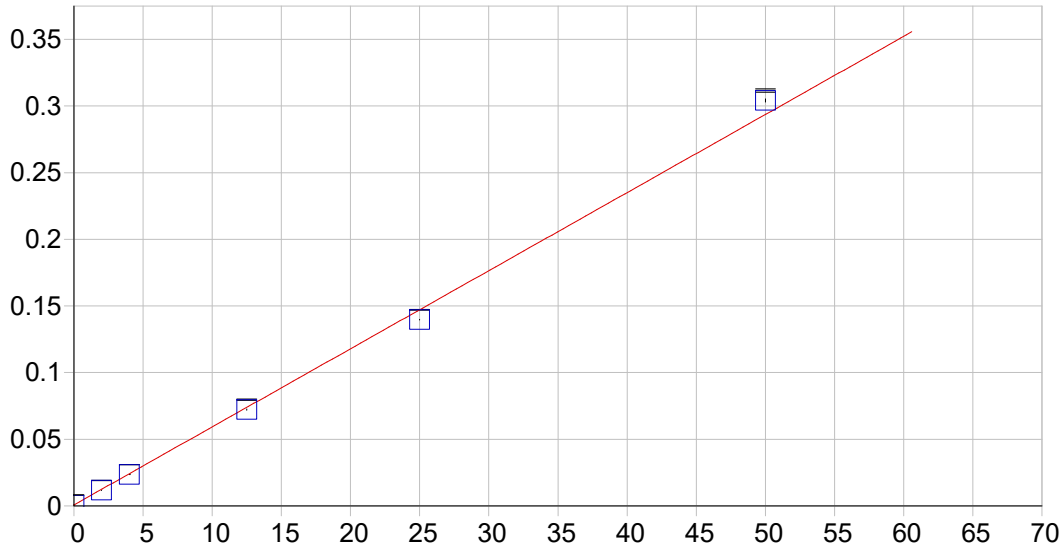


Zn 213.856 {158}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002316	Re-Slope:	1.000000
A1 (Gain):	3.098002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999640	Status:	OK.
Std Error of Est:	0.001964		
Predicted MDL:	0.000264		
Predicted MQL:	0.000879		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00230	.000	1
S1	.04000	.04174	.002	4.35	.13250	.001	1
S3	1.2500	1.2693	.019	1.55	3.9616	.015	1
S4	2.5000	2.4038	-.096	-3.85	7.5030	.029	1
S5	5.0000	5.0454	.045	.907	15.741	.133	1
S2	.40000	.42979	.030	7.45	1.3424	.005	1

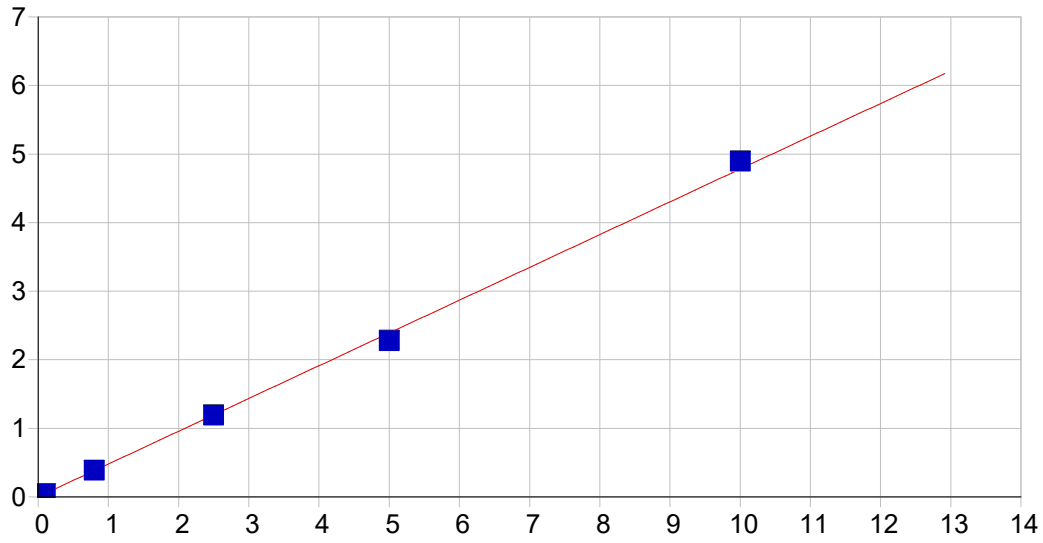


K 766.490 { 44}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000716	Re-Slope:	1.000000
A1 (Gain):	0.005858	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999199	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.030057		
Predicted MQL:	0.100190		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00026	.000	.000	.00072	.000	1
S2	4.0000	3.8877	-.112	-2.81	.02349	.000	1
S3	12.500	12.207	-.293	-2.34	.07223	.001	1
S4	25.000	23.719	-1.28	-5.12	.13967	.000	1
S5	50.000	51.815	1.82	3.63	.30426	.001	1
S1	2.0000	1.8707	-.129	-6.47	.01167	.000	1

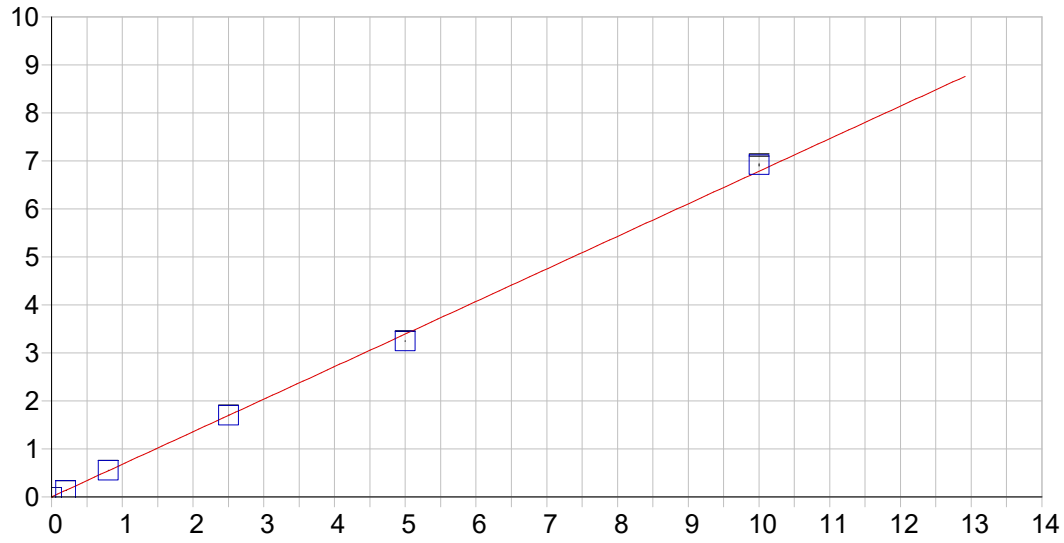


B 249.678 {135}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001292	Re-Slope:	1.000000
A1 (Gain):	0.477996	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999539	Status:	OK.
Std Error of Est:	0.000760		
Predicted MDL:	0.000626		
Predicted MQL:	0.002087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00129	.000	1
S1	.10000	.09976	-.000	-.237	.04877	.000	1
S3	2.5000	2.4875	-.013	-.500	1.1880	.006	1
S4	5.0000	4.7654	-.235	-4.69	2.2745	.008	1
S5	10.000	10.240	.240	2.40	4.8866	.006	1
S2	.80000	.80746	.007	.933	.38651	.000	1

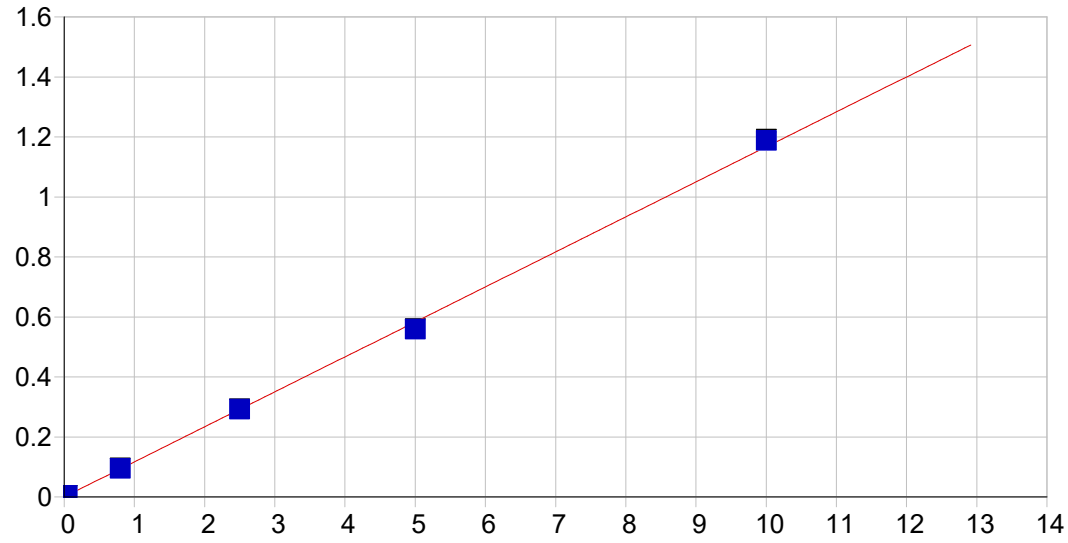


Mo 202.030 {467}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000245	Re-Slope:	1.000000
A1 (Gain):	0.678450	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999636	Status:	OK.
Std Error of Est:	0.001363		
Predicted MDL:	0.000259		
Predicted MQL:	0.000863		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00025	.000	1
S1	.20000	.19859	-.001	-.706	.13498	.001	1
S3	2.5000	2.5076	.008	.305	1.7015	.002	1
S4	5.0000	4.7838	-.216	-4.32	3.2458	.006	1
S5	10.000	10.196	.196	1.96	6.9178	.022	1
S2	.80000	.81387	.014	1.73	.55241	.002	1

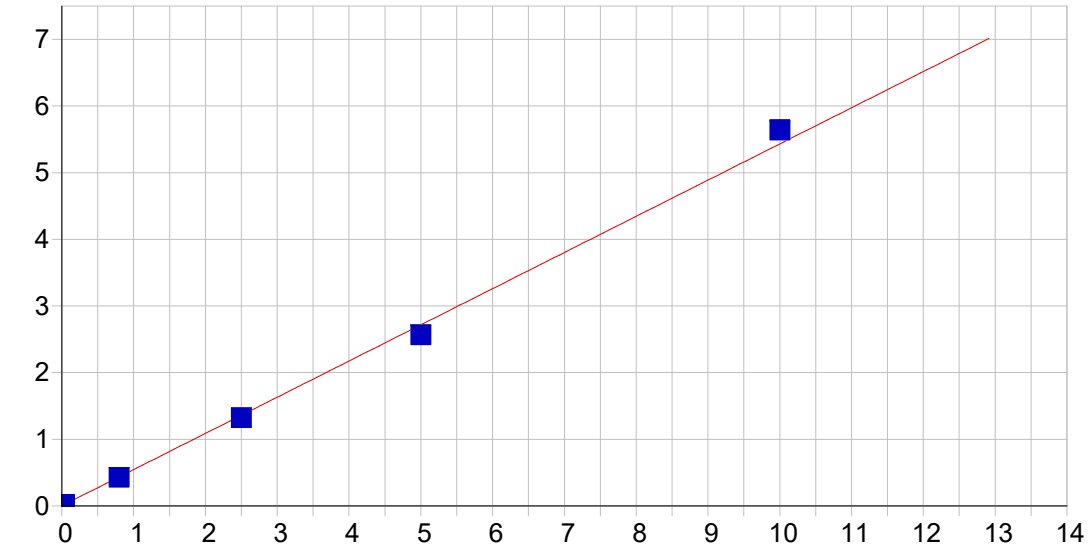


Sn 189.989 {478}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000153	Re-Slope:	1.000000
A1 (Gain):	0.116643	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999658	Status:	OK.
Std Error of Est:	0.000101		
Predicted MDL:	0.000729		
Predicted MQL:	0.002429		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.04000	.03818	-.002	-4.56	.00460	.000	1
S3	2.5000	2.5080	.008	.318	.29239	.000	1
S4	5.0000	4.7921	-.208	-4.16	.55852	.002	1
S5	10.000	10.186	.186	1.86	1.1871	.004	1
S2	.80000	.81563	.016	1.95	.09519	.001	1

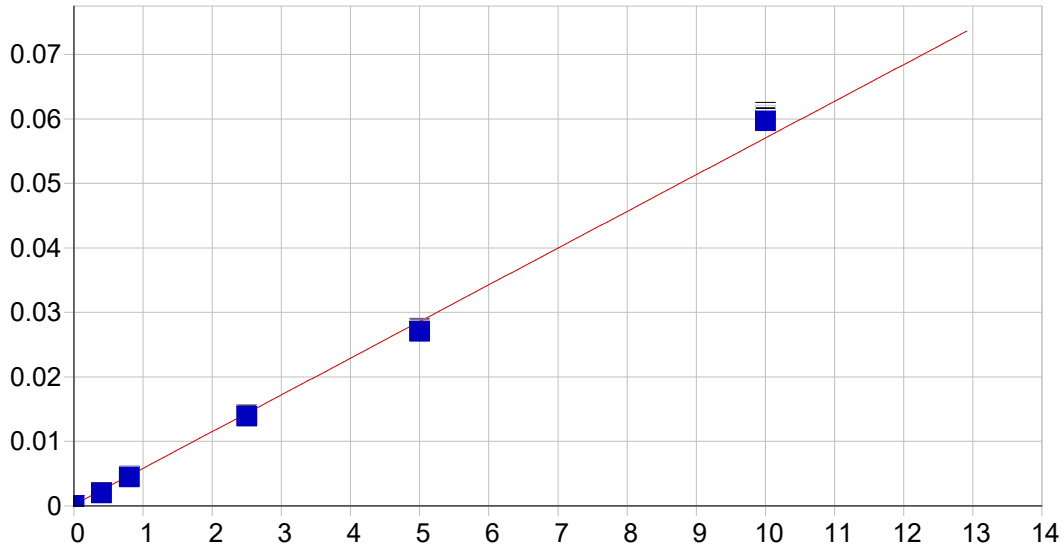


Ti 336.121 {100}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001570	Re-Slope:	1.000000
A1 (Gain):	0.543008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999110	Status:	OK.
Std Error of Est:	0.000760		
Predicted MDL:	0.000593		
Predicted MQL:	0.001978		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00157	.000	1
S1	.04000	.03803	-.002	-4.92	.02221	.000	1
S3	2.5000	2.4276	-.072	-2.89	1.3193	.007	1
S4	5.0000	4.7174	-.283	-5.65	2.5622	.006	1
S5	10.000	10.375	.375	3.75	5.6335	.008	1
S2	.80000	.78165	-.018	-2.29	.42586	.001	1

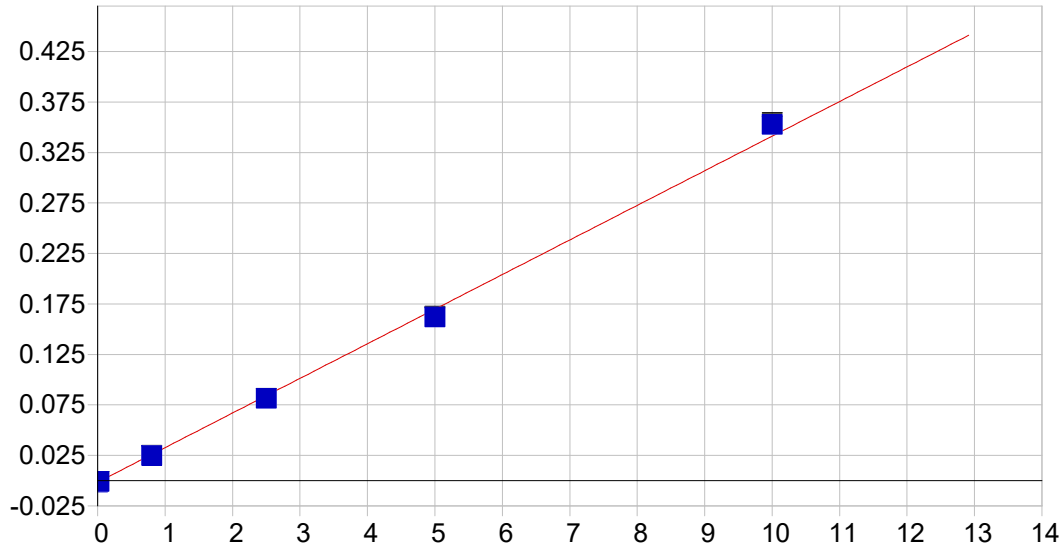


Si 288.158 {117}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000146	Re-Slope:	1.000000
A1 (Gain):	0.005690	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998566	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.007120		
Predicted MQL:	0.023733		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00015	.000	1
S1	.40000	.32568	-.074	-18.6	.00200	.000	1
S3	2.5000	2.4202	-.080	-3.19	.01413	.000	1
S4	5.0000	4.7226	-.277	-5.55	.02744	.000	1
S5	10.000	10.467	.467	4.67	.06056	.000	1
S2	.80000	.76316	-.037	-4.60	.00456	.000	1

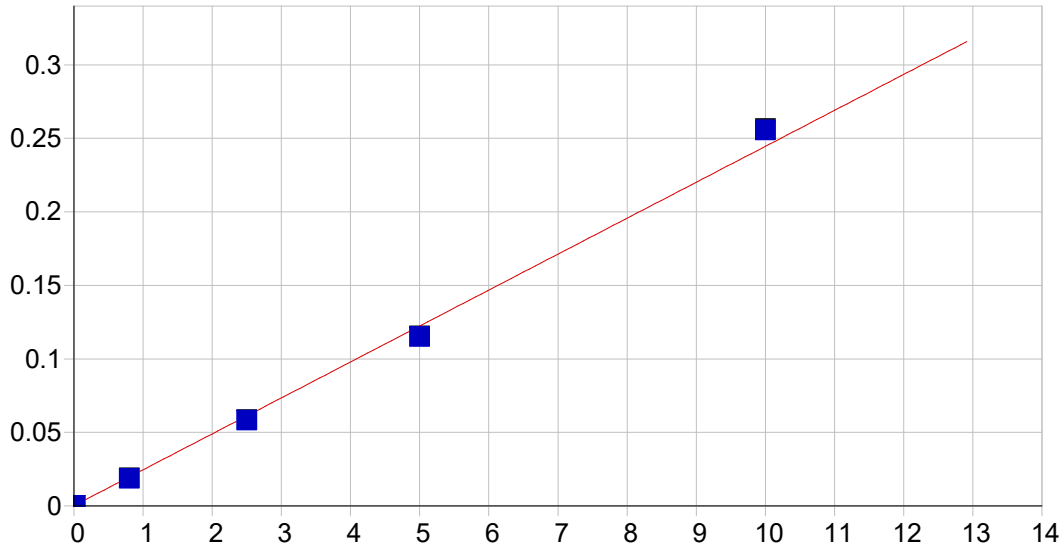


P 177.495 {490}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001564	Re-Slope:	1.000000
A1 (Gain):	0.034277	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999312	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.002403		
Predicted MQL:	0.008012		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00156	.000	1
S1	.02000	.01959	-.000	-2.03	-.00089	.000	1
S3	2.5000	2.4197	-.080	-3.21	.08136	.000	1
S4	5.0000	4.7729	-.227	-4.54	.16201	.001	1
S5	10.000	10.336	.336	3.36	.35268	.002	1
S2	.80000	.77141	-.029	-3.57	.02487	.000	1

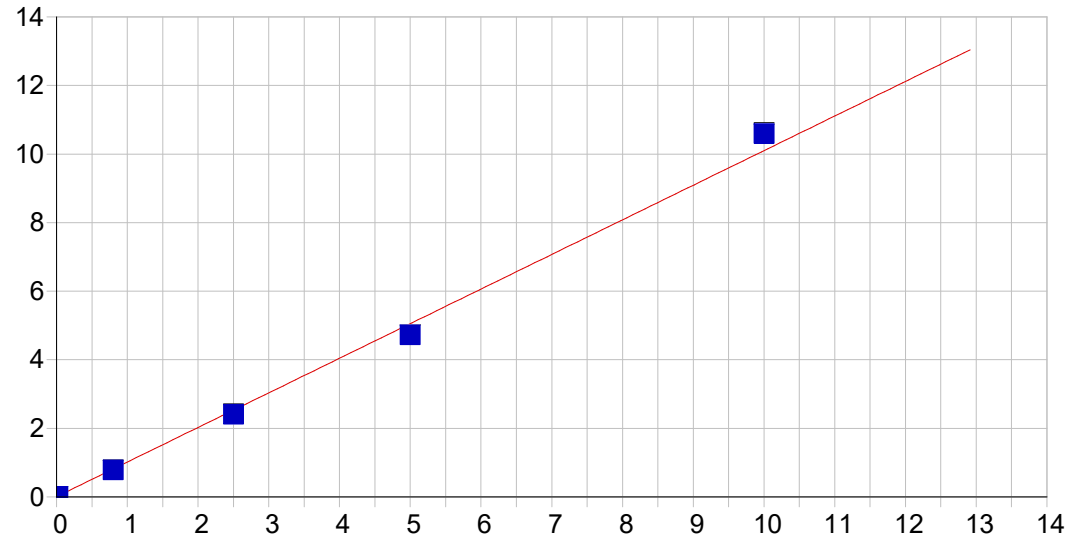


S 182.034 {485}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	0.024447	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998742	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.003211		
Predicted MQL:	0.010702		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.02000	.02084	.001	4.19	.00062	.000	1
S3	2.5000	2.3767	-.123	-4.93	.05807	.000	1
S4	5.0000	4.7047	-.295	-5.91	.11483	.001	1
S5	10.000	10.455	.455	4.55	.25508	.001	1
S2	.80000	.76306	-.037	-4.62	.01873	.000	1

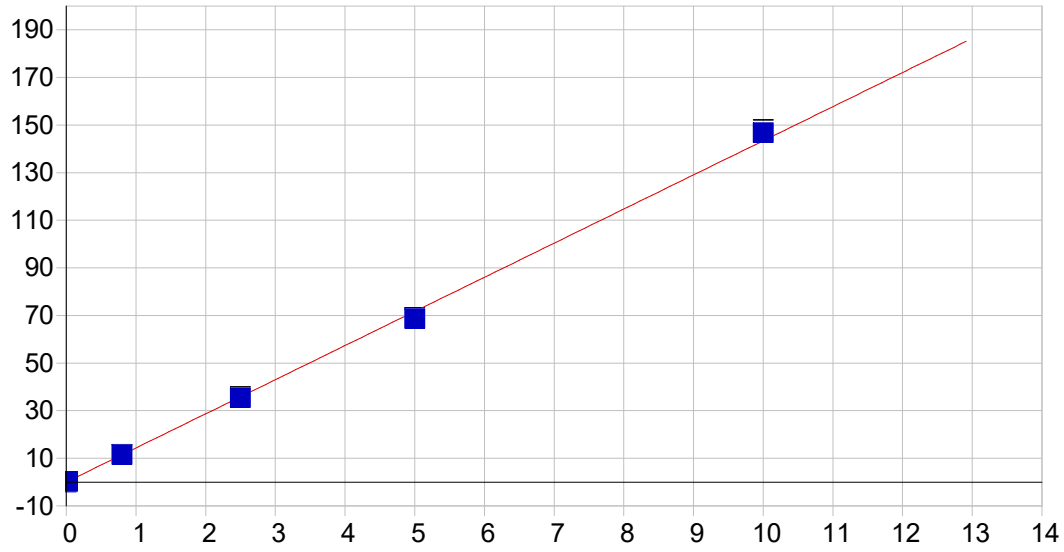


Li 670.784 { 50}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006499	Re-Slope:	1.000000
A1 (Gain):	1.009305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998564	Status:	OK.
Std Error of Est:	0.001270		
Predicted MDL:	0.000898		
Predicted MQL:	0.002993		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00650	.000	1
S5	10.000	10.486	.486	4.86	10.599	.020	1
S4	5.0000	4.6729	-.327	-6.54	4.7274	.009	1
S3	2.5000	2.3757	-.124	-4.97	2.4066	.014	1
S1	.02000	.01766	-.002	-11.7	.02468	.001	1
S2	.80000	.76748	-.033	-4.07	.78185	.003	1

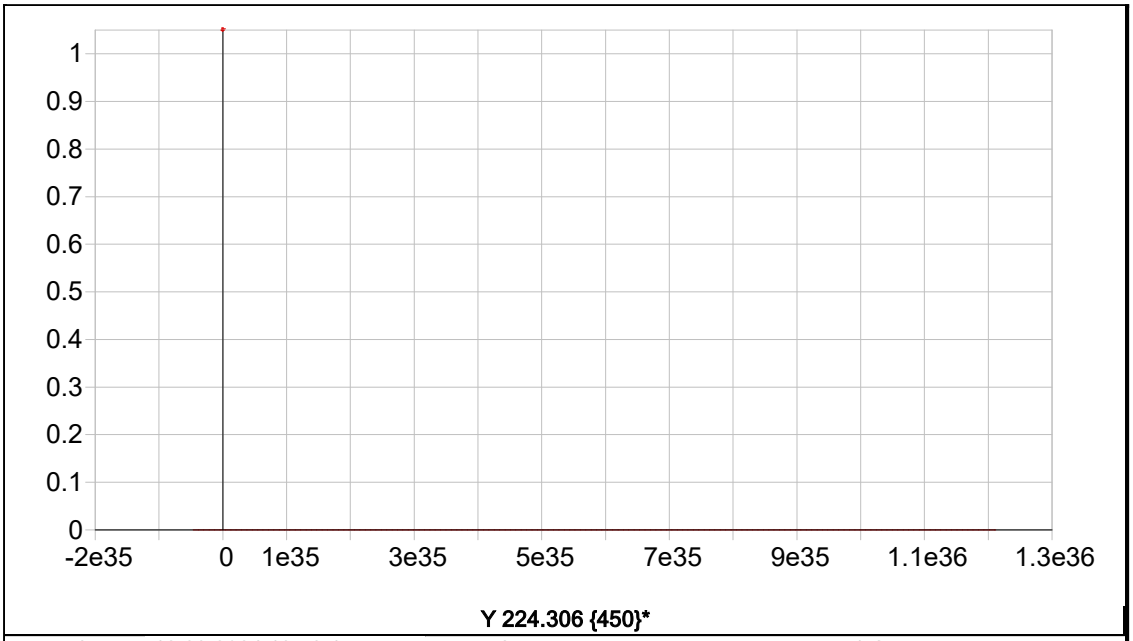


Sr 407.771 { 83}

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000736	Re-Slope:	1.000000
A1 (Gain):	14.340461	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999606	Status:	OK.
Std Error of Est:	0.009442		
Predicted MDL:	0.000038		
Predicted MQL:	0.000128		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00072	.000	1
S1	.02000	.01938	-.001	-3.09	.27863	.002	1
S3	2.5000	2.4751	-.025	-.997	35.529	.320	1
S4	5.0000	4.7895	-.210	-4.21	68.755	.365	1
S5	10.000	10.230	.230	2.30	146.85	1.32	1
S2	.80000	.80586	.006	.733	11.567	.035	1

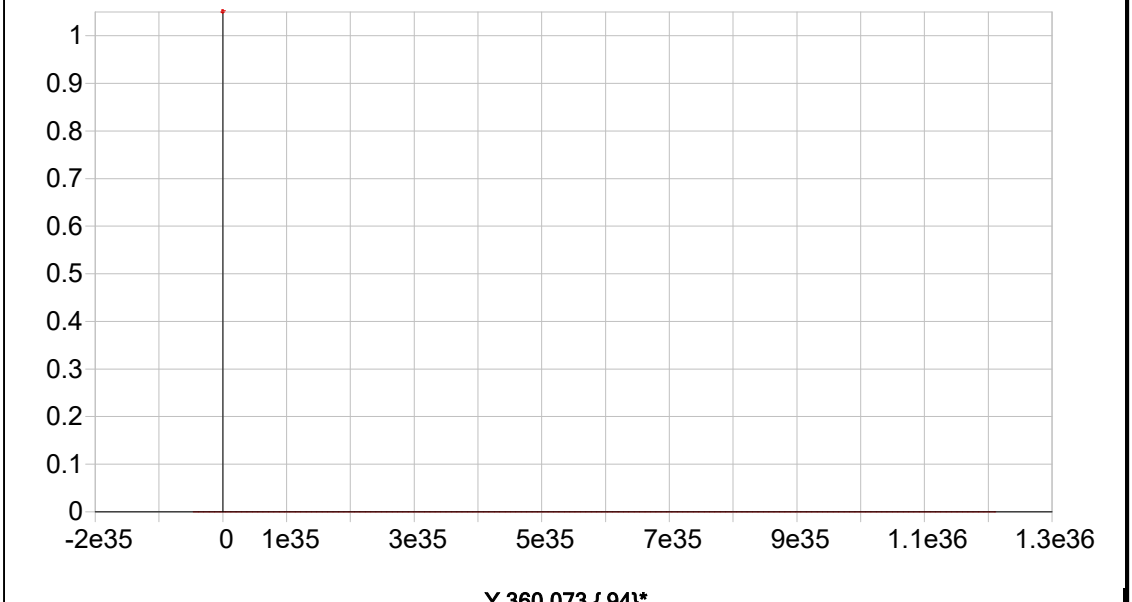


Y 224.306 {450}*

Date of Fit:	12/23/2024 13:53:15	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

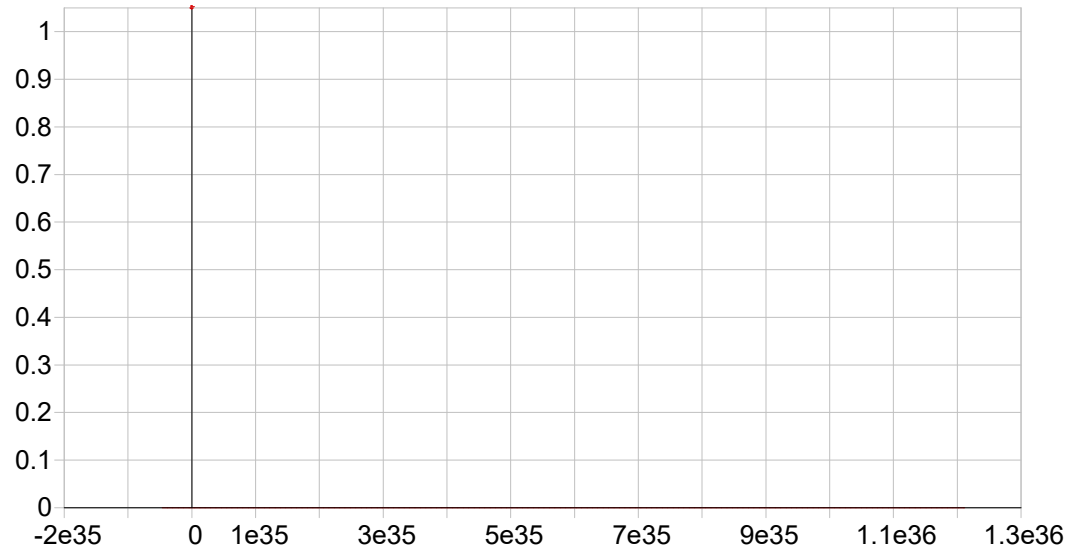
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

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					

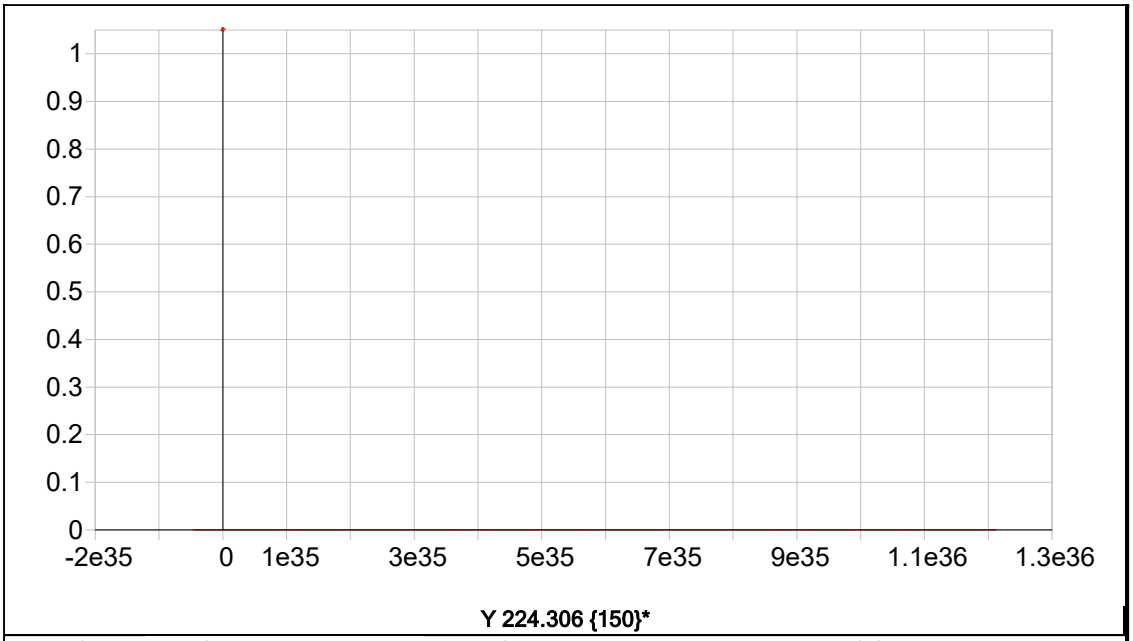
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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

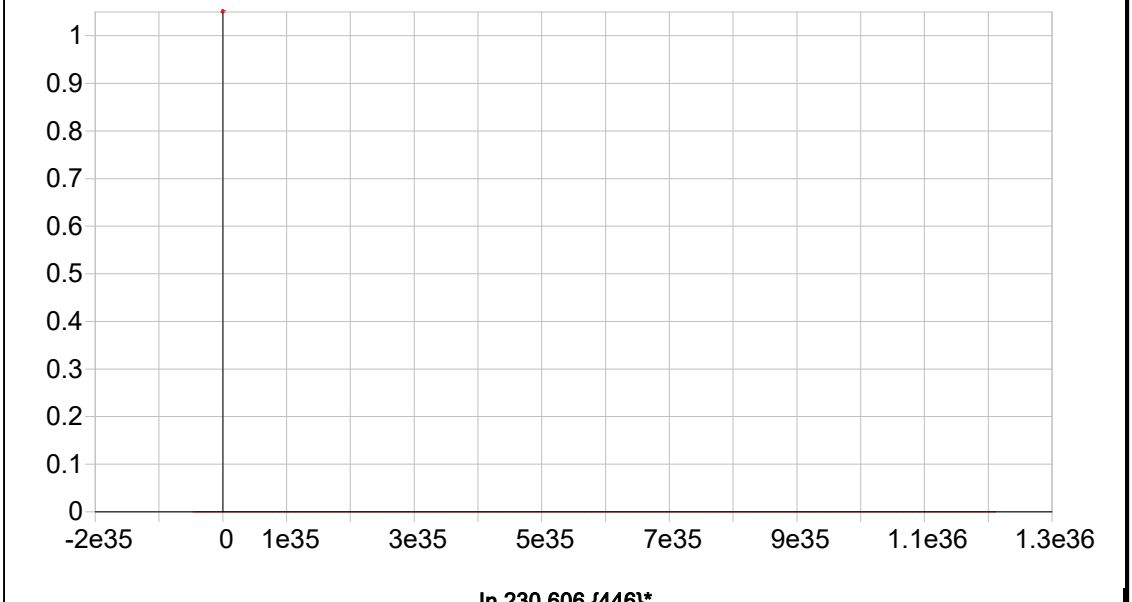


Y 224.306 {150}*

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:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S0 Acquired: 12/23/2024 10:51:36 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	-.00001	-.00021	.00044	.00031	-.00038	.04210	-.00055
Stddev	.00005	.00006	.00013	.00012	.00016	.00025	.00027	.00023
%RSD	39.188	479.36	61.315	26.613	51.973	65.094	.64823	41.022
#1	-.00014	.00006	-.00028	.00037	.00012	-.00020	.04180	-.00033
#2	-.00007	-.00004	-.00006	.00038	.00040	-.00067	.04214	-.00056
#3	-.00018	-.00005	-.00029	.00058	.00041	-.00029	.04234	-.00078

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	.00003	.00033	.00015	.00009	-.00017	-.00000	.00004	-.00009
Stddev	.00011	.00011	.00003	.00005	.00016	.00001	.00020	.00003
%RSD	453.75	33.835	18.626	55.612	92.194	401.76	562.91	37.315
#1	.00016	.00043	.00014	.00003	-.00014	.00000	.00026	-.00011
#2	-.00006	.00034	.00019	.00011	-.00035	-.00002	-.00012	-.00005
#3	-.00002	.00021	.00014	.00011	-.00003	.00001	-.00004	-.00012

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00018	-.00148	.00316	.00004	.00230	.00072	.00129	.00025
Stddev	.00005	.00005	.00027	.00020	.00022	.00017	.00010	.00011
%RSD	27.609	3.1692	8.5767	491.05	9.6168	23.203	8.1190	43.978
#1	-.00016	-.00153	.00285	.00020	.00235	.00053	.00119	.00037
#2	-.00014	-.00144	.00327	.00010	.00250	.00083	.00130	.00019
#3	-.00024	-.00148	.00336	-.00018	.00206	.00079	.00140	.00018

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	.00015	.00157	.00015	-.00156	.00013	.00650	-.00072
Stddev	.00003	.00019	.00001	.00003	.00005	.00041	.00025
%RSD	17.737	11.809	5.6686	2.1828	35.901	6.2821	34.669
#1	.00016	.00136	.00014	-.00159	.00018	.00604	-.00055
#2	.00018	.00164	.00015	-.00153	.00011	.00683	-.00060
#3	.00012	.00171	.00015	-.00158	.00010	.00664	-.00101

Sample Name: S0 Acquired: 12/23/2024 10:51:36 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	3317.4	70472.	12523.	2371.3	5114.2
Stddev	14.2	227.	13.	5.9	23.6
%RSD	.42846	.32203	.10032	.25053	.46052
#1	3319.9	70326.	12524.	2364.5	5120.1
#2	3330.3	70357.	12534.	2374.3	5134.2
#3	3302.2	70734.	12509.	2375.2	5088.2

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S1 Acquired: 12/23/2024 10:56:04 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	.00094	.00294	.00248	.00195	.00821	.00789	.35553	.02551
Stddev	.00004	.00007	.00009	.00010	.00021	.00042	.00220	.00032
%RSD	3.9043	2.4787	3.6006	5.2241	2.5596	5.2838	.61871	1.2498
#1	.00096	.00290	.00249	.00183	.00843	.00815	.35763	.02585
#2	.00096	.00291	.00238	.00202	.00802	.00810	.35324	.02522
#3	.00090	.00303	.00256	.00198	.00817	.00741	.35571	.02544

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01333	.12110	.00209	.02541	.01024	.00052	.01409	.03732
Stddev	.00007	.00075	.00006	.00008	.00016	.00001	.00012	.00025
%RSD	.55488	.62100	3.0780	.32375	1.6065	.97642	.86162	.67280
#1	.01342	.12148	.00216	.02535	.01040	.00051	.01395	.03761
#2	.01328	.12158	.00203	.02539	.01024	.00052	.01417	.03720
#3	.01330	.12023	.00209	.02551	.01007	.00052	.01415	.03715

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	.03128	.00189	.02675	.00501	.13250	.01167	.04877	.13498
Stddev	.00007	.00001	.00022	.00008	.00111	.00008	.00038	.00073
%RSD	.23213	.63940	.82071	1.5142	.84074	.68456	.77110	.54198
#1	.03128	.00190	.02650	.00510	.13143	.01176	.04915	.13414
#2	.03121	.00188	.02686	.00496	.13242	.01161	.04877	.13548
#3	.03136	.00190	.02690	.00498	.13365	.01166	.04840	.13532

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	.02221	.00200	-.00089	.00062	.02468	.27863
Stddev	.00009	.00029	.00002	.00011	.00001	.00079	.00169
%RSD	1.9753	1.3225	.78564	12.881	1.7169	3.1903	.60666
#1	.00465	.02254	.00201	-.00099	.00061	.02381	.28058
#2	.00450	.02211	.00198	-.00092	.00063	.02489	.27761
#3	.00466	.02197	.00201	-.00077	.00061	.02534	.27771

Sample Name: S1 Acquired: 12/23/2024 10:56:04 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	3253.9	69275.	12408.	2311.3	4961.2
Stddev	6.4	319.	86.	10.6	4.7
%RSD	.19548	.46009	.69491	.45888	.09461
#1	3258.9	68933.	12309.	2299.5	4963.4
#2	3255.9	69564.	12465.	2320.1	4964.4
#3	3246.7	69328.	12450.	2314.4	4955.8

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S2 Acquired: 12/23/2024 11:00:29 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	.04143	.06500	.19388	.06122	.12997	.12222	5.2226	.18226
Stddev	.00020	.00075	.00089	.00029	.00056	.00051	.0168	.00026
%RSD	.47182	1.1565	.45979	.47512	.43346	.41851	.32073	.14374
#1	.04150	.06557	.19490	.06149	.13023	.12163	5.2103	.18217
#2	.04158	.06527	.19339	.06126	.13036	.12257	5.2417	.18255
#3	.04121	.06415	.19333	.06091	.12933	.12245	5.2158	.18205

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	.91967	.25589	.03559	.35012	.10222	.00420	.28364	.07125
Stddev	.00418	.00051	.00028	.00175	.00052	.00005	.00184	.00065
%RSD	.45485	.20008	.79964	.50125	.50771	1.0908	.64928	.91616
#1	.92450	.25533	.03587	.35207	.10276	.00419	.28284	.07049
#2	.91752	.25600	.03559	.34964	.10173	.00426	.28575	.07157
#3	.91701	.25633	.03530	.34866	.10215	.00417	.28235	.07167

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	.32559	.06802	.05135	.05338	1.3424	.02349	.38651	.55241
Stddev	.00143	.00021	.00035	.00023	.0049	.00004	.00004	.00194
%RSD	.43965	.31278	.68741	.43732	.36187	.16933	.01138	.35117
#1	.32724	.06826	.05164	.05311	1.3478	.02354	.38653	.55465
#2	.32483	.06795	.05146	.05353	1.3383	.02348	.38654	.55123
#3	.32469	.06786	.05096	.05350	1.3411	.02346	.38646	.55135

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	.09519	.42586	.00456	.02487	.01873	.78185	11.567
Stddev	.00054	.00147	.00004	.00011	.00015	.00317	.035
%RSD	.57007	.34629	.84070	.44960	.79440	.40496	.30117
#1	.09582	.42417	.00453	.02499	.01885	.78141	11.537
#2	.09489	.42691	.00454	.02485	.01878	.78521	11.605
#3	.09487	.42649	.00460	.02477	.01857	.77892	11.560

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S2 Acquired: 12/23/2024 11:00:29 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	3176.9	67542.	12146.	2259.6	4753.2
Stddev	9.1	350.	38.	16.9	21.7
%RSD	.28643	.51813	.31529	.74824	.45726
#1	3166.4	67356.	12152.	2246.5	4728.3
#2	3182.4	67323.	12104.	2253.6	4768.6
#3	3181.9	67945.	12180.	2278.7	4762.6

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S3 Acquired: 12/23/2024 11:04:40 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	.12759	.19446	.60118	.18749	.40237	.37995	16.135	.55922
Stddev	.00036	.00131	.00071	.00037	.00112	.00298	.120	.00293
%RSD	.27917	.67335	.11871	.19776	.27953	.78490	.74236	.52353
#1	.12726	.19359	.60103	.18742	.40210	.37795	16.240	.55940
#2	.12797	.19382	.60196	.18716	.40140	.37853	16.005	.55620
#3	.12753	.19596	.60055	.18789	.40360	.38338	16.161	.56205

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	2.8663	.76058	.10807	1.0909	.31071	.01289	.87218	.21969
Stddev	.0010	.00545	.00022	.0012	.00043	.00011	.00584	.00121
%RSD	.03364	.71668	.20498	.11203	.13992	.82840	.66915	.54950
#1	2.8670	.75808	.10809	1.0909	.31090	.01278	.86581	.21888
#2	2.8652	.75683	.10785	1.0897	.31021	.01299	.87346	.21911
#3	2.8668	.76683	.10829	1.0922	.31101	.01289	.87727	.22107

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	1.0081	.20930	.15593	.16657	3.9616	.07223	1.1880	1.7015
Stddev	.0009	.00006	.00096	.00140	.0150	.00055	.0062	.0019
%RSD	.09320	.02944	.61286	.83972	.37985	.75890	.52278	.11054
#1	1.0078	.20925	.15534	.16539	3.9622	.07170	1.1866	1.7021
#2	1.0092	.20937	.15703	.16620	3.9463	.07280	1.1826	1.6994
#3	1.0074	.20928	.15541	.16811	3.9764	.07218	1.1948	1.7031

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	.29239	1.3193	.01413	.08136	.05807	2.4066	35.529
Stddev	.00040	.0074	.00001	.00011	.00022	.0137	.320
%RSD	.13792	.56130	.10299	.14043	.38547	.57102	.89932
#1	.29254	1.3121	.01411	.08123	.05821	2.3911	35.306
#2	.29193	1.3189	.01414	.08141	.05781	2.4111	35.386
#3	.29269	1.3269	.01414	.08145	.05820	2.4174	35.895

Sample Name: S3 Acquired: 12/23/2024 11:04:40 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	3126.6	66408.	12038.	2194.0	4590.8
Stddev	3.5	114.	68.	4.6	3.5
%RSD	.11207	.17109	.56855	.20867	.07566
#1	3122.8	66375.	12031.	2198.2	4589.9
#2	3127.3	66534.	12110.	2194.7	4587.9
#3	3129.7	66314.	11974.	2189.1	4594.7

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S4 Acquired: 12/23/2024 11:09:03 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	.24844	.35966	1.1467	.36268	.78204	.73988	31.215	1.0615
Stddev	.00033	.00367	.0001	.00084	.00055	.00263	.156	.0017
%RSD	.13442	1.0206	.00531	.23254	.06974	.35497	.49830	.15506
#1	.24807	.35683	1.1466	.36172	.78243	.73748	31.165	1.0616
#2	.24853	.35833	1.1467	.36303	.78142	.73946	31.091	1.0598
#3	.24872	.36380	1.1467	.36329	.78229	.74268	31.389	1.0631

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	5.5319	1.4634	.20316	2.1062	.59315	.02482	1.6758	.42688
Stddev	.0051	.0024	.00081	.0013	.00034	.00002	.0043	.00134
%RSD	.09285	.16061	.39943	.06122	.05786	.07938	.25659	.31479
#1	5.5272	1.4607	.20407	2.1050	.59283	.02480	1.6710	.42575
#2	5.5311	1.4646	.20290	2.1061	.59351	.02484	1.6771	.42653
#3	5.5374	1.4649	.20251	2.1075	.59310	.02482	1.6793	.42836

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	1.9372	.39849	.30413	.32417	7.5030	.13967	2.2745	3.2458
Stddev	.0017	.00093	.00123	.00139	.0287	.00020	.0078	.0058
%RSD	.08796	.23223	.40523	.42733	.38245	.14461	.34216	.18001
#1	1.9353	.39943	.30538	.32278	7.5327	.13990	2.2728	3.2395
#2	1.9376	.39758	.30408	.32416	7.4754	.13961	2.2676	3.2471
#3	1.9387	.39846	.30292	.32555	7.5010	.13951	2.2829	3.2510

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	.55852	2.5622	.02744	.16201	.11483	4.7274	68.755
Stddev	.00166	.0056	.00008	.00075	.00054	.0085	.365
%RSD	.29644	.22070	.30117	.46303	.47037	.18030	.53032
#1	.55712	2.5571	.02735	.16273	.11421	4.7230	68.787
#2	.55810	2.5611	.02747	.16207	.11509	4.7221	68.376
#3	.56035	2.5683	.02751	.16123	.11519	4.7373	69.103

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S4 Acquired: 12/23/2024 11:09:03 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	3017.5	65477.	11824.	2131.0	4365.1
Stddev	4.3	160.	19.	11.8	3.0
%RSD	.14346	.24396	.15729	.55377	.06790
#1	3022.1	65301.	11817.	2117.4	4367.3
#2	3013.6	65517.	11845.	2138.5	4361.7
#3	3016.9	65613.	11809.	2137.1	4366.1

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S5 Acquired: 12/23/2024 11:13:23 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	.53720	.78369	2.4327	.78491	1.6887	1.6532	68.121	2.2720
Stddev	.00183	.00885	.0060	.00269	.0073	.0024	.456	.0037
%RSD	.34064	1.1287	.24558	.34321	.42975	.14342	.67006	.16517
#1	.53527	.77476	2.4261	.78320	1.6847	1.6514	67.915	2.2678
#2	.53740	.79244	2.4341	.78351	1.6844	1.6559	67.805	2.2749
#3	.53892	.78387	2.4378	.78801	1.6971	1.6522	68.645	2.2733

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	11.788	3.1817	.42007	4.5190	1.2498	.05233	3.6182	.93643
Stddev	.034	.0021	.00171	.0138	.0052	.00020	.0127	.00242
%RSD	.29127	.06717	.40789	.30513	.41593	.37523	.35093	.25817
#1	11.750	3.1797	.41812	4.5050	1.2456	.05231	3.6094	.93377
#2	11.795	3.1840	.42134	4.5196	1.2481	.05215	3.6125	.93850
#3	11.817	3.1813	.42074	4.5326	1.2556	.05254	3.6328	.93701

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	4.1291	.84191	.65814	.71370	15.741	.30426	4.8866	6.9178
Stddev	.0121	.00208	.00196	.00103	.133	.00118	.0061	.0224
%RSD	.29193	.24727	.29730	.14454	.84660	.38776	.12504	.32430
#1	4.1171	.83958	.65810	.71287	15.597	.30327	4.8832	6.8990
#2	4.1289	.84253	.65620	.71485	15.860	.30394	4.8936	6.9118
#3	4.1412	.84360	.66011	.71336	15.765	.30557	4.8829	6.9426

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	1.1871	5.6335	.06056	.35268	.25508	10.599	146.85
Stddev	.0040	.0083	.00047	.00174	.00099	.020	1.32
%RSD	.33818	.14755	.78296	.49219	.39000	.18503	.90086
#1	1.1825	5.6270	.06002	.35074	.25397	10.581	145.95
#2	1.1894	5.6306	.06074	.35409	.25589	10.597	148.37
#3	1.1894	5.6428	.06091	.35321	.25537	10.620	146.23

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: S5 Acquired: 12/23/2024 11:13:23 Type: Cal
Method: NON EPA-6010-200.7(v2547) 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	2874.6	63771.	11302.	1994.8	4085.9
Stddev	10.4	101.	3.	11.5	14.8
%RSD	.36338	.15768	.02517	.57792	.36297
#1	2880.7	63880.	11299.	2005.2	4099.2
#2	2880.5	63753.	11302.	1982.4	4088.5
#3	2862.5	63682.	11304.	1996.8	4069.9

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICV01 Acquired: 12/23/2024 11:17:42 Type: Unk
Method: NON EPA-6010-200.7(v2547) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.046668	1.021422	1.016834	1.047319	1.011797	2.414150
Stddev	.002308	.022953	.000468	.002081	.003174	.011575
%RSD	.2205455	2.247117	.0460517	.1986561	.3137024	.4794633
#1	1.048661	1.037188	1.016528	1.048764	1.009935	2.402519
#2	1.044139	1.031989	1.017373	1.048259	1.015462	2.414263
#3	1.047204	.995089	1.016601	1.044934	1.009995	2.425668

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4835184	.4720804	.5075253	9.499332	.5315357	.5164000
Stddev	.0028857	.0030644	.0008369	.048754	.0010178	.0013768
%RSD	.5968197	.6491254	.1649034	.5132360	.1914825	.2666234
#1	.4817737	.4712220	.5071775	9.479676	.5304437	.5162263
#2	.4819322	.4695368	.5084800	9.463475	.5317053	.5178555
#3	.4868493	.4754825	.5069183	9.554846	.5324580	.5151183

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5296134	10.21711	.4898324	5.570607	.5187201	.2602798
Stddev	.0013706	.05097	.0051523	.038593	.0008988	.0006018
%RSD	.2587933	.4988225	1.051852	.6927881	.1732700	.2311968
#1	.5287258	10.16741	.4865601	5.560615	.5188082	.2597425
#2	.5311920	10.21468	.4871656	5.537994	.5195717	.2601669
#3	.5289225	10.26925	.4957715	5.613213	.5177806	.2609300

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.709721	.4696770	1.027989	9.947672	2.256397	2.527229
Stddev	.049463	.0024152	.001805	.020623	.006965	.006745
%RSD	.5094173	.5142243	.1756073	.2073161	.3086874	.2668885
#1	9.653609	.4696440	1.027654	9.925905	2.255571	2.528246
#2	9.747004	.4672786	1.026374	9.950190	2.249881	2.533408
#3	9.728550	.4721086	1.029938	9.966920	2.263738	2.520033

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICV01 Acquired: 12/23/2024 11:17:42 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	2.419342	2.304835	F 2.024576	F .0069499	F -.005937	F -.003433
Stddev	.010759	.012921	.009790	.0007679	.001839	.000633
%RSD	.4447042	.5606186	.4835367	11.04825	30.97846	18.45089
#1	2.425313	2.298683	2.013574	.0076736	-.006516	-.002786
#2	2.425791	2.296140	2.032325	.0070317	-.003878	-.003461
#3	2.406921	2.319683	2.027831	.0061445	-.007418	-.004051

Elem	Sr4077
Units	ppm
Avg	F -.008191
Stddev	.000216
%RSD	2.632639
#1	-.007958
#2	-.008231
#3	-.008384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3057.916	67298.69	12983.39	2152.849	4628.587
Stddev	6.037	48.30	65.58	9.194	7.993
%RSD	.1974277	.0717654	.5051225	.4270590	.1726928
#1	3062.503	67339.15	12968.83	2142.331	4634.589
#2	3051.076	67311.70	13055.03	2159.358	4619.513
#3	3060.169	67245.22	12926.31	2156.858	4631.658

Sample Name: LLICV01 Acquired: 12/23/2024 11:37:05 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0205639	.0404542	.0119727	.0190454	.0499728	.0993134	.0903828
Stddev	.0012714	.0006038	.0005296	.0012259	.0004213	.0022352	.0002835
%RSD	6.182564	1.492515	4.423082	6.436486	.8429726	2.250635	.3137014
#1	.0191366	.0410760	.0113614	.0182828	.0500866	.0970720	.0902437
#2	.0215752	.0398702	.0122901	.0183940	.0503254	.1015423	.0901957
#3	.0209798	.0404166	.0122666	.0204595	.0495063	.0993258	.0907090

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057530	.0058881	1.966286	.0098685	.0291907	.0217970	.1045191
Stddev	.0000153	.0000348	.014348	.0005111	.0001205	.0002812	.0037265
%RSD	.2666851	.5912471	.7296896	5.179145	.4127031	1.289950	3.565398
#1	.0057699	.0058525	1.951672	.0103214	.0291225	.0219753	.1018064
#2	.0057491	.0059221	1.966834	.0093144	.0291199	.0214728	.1087682
#3	.0057400	.0058896	1.980351	.0099695	.0293298	.0219427	.1029828

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195371	2.023845	.0392713	.0107527	1.799902	.0379542	.0457385
Stddev	.0001982	.013425	.0000525	.0001220	.010983	.0005644	.0000710
%RSD	1.014609	.6633272	.1337508	1.134679	.6101945	1.487142	.1552139
#1	.0197319	2.016349	.0392829	.0106789	1.788334	.0378067	.0457776
#2	.0195437	2.039343	.0392140	.0108935	1.810187	.0374781	.0457813
#3	.0193356	2.015842	.0393172	.0106856	1.801186	.0385777	.0456565

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.871866	.0987485	.2073608	.0394649	.0380604	.3538846	.0170295
Stddev	.013683	.0002738	.0002401	.0003917	.0005467	.0039480	.0014810
%RSD	.7309588	.2772272	.1157964	.9925166	1.436363	1.115618	8.696529
#1	1.856172	.0990263	.2075519	.0397876	.0374814	.3505335	.0185086
#2	1.881287	.0984790	.2070913	.0390291	.0385677	.3528836	.0155466
#3	1.878140	.0987403	.2074392	.0395780	.0381319	.3582368	.0170332

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: LLICV01 Acquired: 12/23/2024 11:37:05 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0187600	.0164457	.0193496
Stddev	.0028931	.0004952	.0000447
%RSD	15.42185	3.011120	.2307579
#1	.0218430	.0158742	.0193234
#2	.0161042	.0167143	.0193242
#3	.0183328	.0167486	.0194011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3092.054	67116.53	12625.02	2136.993	4814.065
Stddev	7.134	189.58	9.25	7.260	8.162
%RSD	.2307085	.2824663	.0732795	.3397290	.1695520
#1	3083.940	67153.81	12622.23	2141.688	4804.925
#2	3094.885	66911.08	12635.35	2128.630	4820.628
#3	3097.338	67284.71	12617.49	2140.659	4816.642

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICB01 Acquired: 12/23/2024 11:44:41 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0003202	-.000795	-.000209	-.001666	-.000224	-.001053	-.002207
Stddev	.0015936	.000407	.000255	.001328	.001120	.003023	.000216
%RSD	497.7556	51.13096	122.2057	79.70807	500.0400	287.1268	9.774188
#1	.0002669	-.000326	-.000487	-.003111	.000234	-.003009	-.002216
#2	.0019397	-.001018	.000015	-.000500	.000594	-.002578	-.002417
#3	-.001246	-.001041	-.000154	-.001386	-.001500	.002429	-.001986

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000027	-.000056	.0079168	-.000397	-.000048	-.000298	.0038212
Stddev	.0000686	.000064	.0108442	.000085	.000132	.000673	.0024161
%RSD	2576.588	113.6766	136.9781	21.43014	274.4614	226.0404	63.22714
#1	.0000419	-.000069	.0070291	-.000343	.000061	-.000959	.0011673
#2	-.000077	.000013	.0191775	-.000495	-.000195	-.000321	.0058931
#3	.000043	-.000113	-.002456	-.000352	-.000011	.000387	.0044033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000230	.0002075	-.000083	.0004727	-.096496	.0004189	-.000173
Stddev	.000164	.0051334	.000181	.0001262	.007077	.0012357	.000519
%RSD	71.49055	2473.475	217.1609	26.70486	7.334095	295.0016	299.8260
#1	-.000064	-.003191	-.000219	.0005000	-.104209	-.000872	-.000697
#2	-.000393	-.002299	-.000152	.0003351	-.094977	.001590	.000340
#3	-.000233	.006113	.000122	.0005831	-.090301	.000539	-.000162

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.036041	.0015348	.0000745	-.000383	.0007762	.0037112	-.001408
Stddev	.033835	.0006117	.0001938	.000500	.0002854	.0081971	.003854
%RSD	93.87905	39.85665	260.3098	130.5566	36.76392	220.8725	273.7445
#1	-.075038	.0009281	-.000099	-.000959	.0009498	-.003028	-.001982
#2	-.014467	.0021514	.000283	-.000131	.0009319	.001325	.002701
#3	-.018620	.0015248	.000039	-.000059	.0004468	.012837	-.004942

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICB01 Acquired: 12/23/2024 11:44:41 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0027053	-.003162	-.000041
Stddev	.0007047	.000488	.000007
%RSD	26.04677	15.41883	17.47534
#1	.0034499	-.003615	-.000032
#2	.0020489	-.003226	-.000045
#3	.0026171	-.002646	-.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3052.540	66064.23	12170.90	2107.827	4807.062
Stddev	9.621	327.20	66.57	12.262	12.765
%RSD	.3151744	.4952800	.5469637	.5817377	.2655436
#1	3042.248	65718.41	12107.59	2094.441	4792.342
#2	3061.308	66105.35	12164.81	2110.525	4813.775
#3	3054.064	66368.92	12240.31	2118.516	4815.071

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CRI01 Acquired: 12/23/2024 11:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0192123	.0415006	.0110226	.0171051	.0496270	.1019219	.0920460
Stddev	.0023286	.0011483	.0009900	.0011704	.0004208	.0044927	.0003521
%RSD	12.12059	2.766850	8.981954	6.842425	.8479972	4.408022	.3825131
#1	.0189255	.0404095	.0117155	.0183324	.0491963	.0992444	.0923611
#2	.0216710	.0426986	.0114636	.0160014	.0500373	.0994126	.0921109
#3	.0170403	.0413937	.0098887	.0169816	.0496474	.1071087	.0916659

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057082	.0058113	1.941611	.0097390	.0292253	.0219147	.1003351
Stddev	.0000385	.0000347	.015149	.0001419	.0000882	.0004445	.0032763
%RSD	.6748218	.5971743	.7802227	1.456555	.3017744	2.028269	3.265371
#1	.0057192	.0058252	1.934049	.0096424	.0291407	.0214090	.0966613
#2	.0056654	.0058369	1.931731	.0099018	.0293167	.0220913	.1013895
#3	.0057401	.0057718	1.959052	.0096726	.0292183	.0222438	.1029543

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195547	2.035508	.0393227	.0109703	1.814825	.0383908	.0414315
Stddev	.0004731	.016388	.0002567	.0001903	.005196	.0006630	.0000776
%RSD	2.419387	.8050981	.6528406	1.734496	.2862975	1.726875	.1872231
#1	.0192656	2.040562	.0395174	.0108606	1.809676	.0379294	.0413649
#2	.0201007	2.017188	.0390318	.0108602	1.820066	.0380925	.0415166
#3	.0192979	2.048773	.0394189	.0111900	1.814734	.0391505	.0414129

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.909290	.0989243	.2094269	.0385780	.0383071	.3553096	.0185824
Stddev	.024281	.0004303	.0004717	.0004945	.0001438	.0008004	.0013676
%RSD	1.271723	.4350215	.2252387	1.281902	.3754884	.2252645	7.359491
#1	1.881344	.0993244	.2088902	.0391138	.0381491	.3556247	.0199486
#2	1.925220	.0984691	.2097758	.0381391	.0383419	.3559046	.0185850
#3	1.921307	.0989795	.2096147	.0384810	.0384304	.3543997	.0172135

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CRI01 Acquired: 12/23/2024 11:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	.0210378	.0167787	.0195441
Stddev	.0014437	.0006020	.0000601
%RSD	6.862678	3.587970	.3077003
#1	.0210524	.0164110	.0195300
#2	.0224742	.0174734	.0196100
#3	.0195868	.0164516	.0194922

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3067.566	66331.96	12484.18	2110.190	4785.680
Stddev	1.859	124.18	29.46	5.933	6.306
%RSD	.0605888	.1872035	.2359673	.2811761	.1317781
#1	3068.842	66243.56	12460.92	2103.782	4781.251
#2	3068.424	66473.93	12517.30	2115.493	4792.900
#3	3065.434	66278.39	12474.31	2111.295	4782.889

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSA01 Acquired: 12/23/2024 11:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	-.000829	.0101071	.0071931	-.012825	-.001860	244.3344
Stddev	.001881	.0001352	.0013130	.002319	.001164	1.8000
%RSD	226.7842	1.337720	18.25282	18.08192	62.58749	.7366818
#1	.000724	.0101712	.0067353	-.011040	-.001922	245.6497
#2	-.002920	.0101983	.0086737	-.015446	-.000666	245.0704
#3	-.000292	.0099518	.0061704	-.011988	-.002992	242.2830

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027075	.0012170	.0058282	227.1629	.0580268	.0018350
Stddev	.0003017	.0000682	.0000695	.5630	.0004388	.0002427
%RSD	11.14158	5.605203	1.192965	.2478485	.7562487	13.22782
#1	.0028557	.0012899	.0059027	227.5777	.0575750	.0015548
#2	.0023604	.0011547	.0057650	227.3891	.0584514	.0019816
#3	.0029063	.0012064	.0058169	226.5220	.0580539	.0019686

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160827	104.2086	.0047863	247.3142	.0029810	.0032805
Stddev	.0005962	.2363	.0003727	.7838	.0000889	.0002124
%RSD	3.707004	.2267303	7.787542	.3169183	2.983693	6.474558
#1	.0164182	103.9507	.0044087	247.5871	.0029834	.0032097
#2	.0164355	104.4146	.0051540	247.9251	.0030687	.0035193
#3	.0153943	104.2606	.0047962	246.4305	.0028908	.0031126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197308	.0060939	.0078167	.0305652	.0374817	-.000485
Stddev	.0184091	.0006428	.0002918	.0348504	.0014981	.000504
%RSD	93.30123	10.54841	3.732838	114.0199	3.996890	103.9976
#1	-.000215	.0053638	.0075430	-.009506	.0361823	-.000570
#2	.036069	.0063428	.0077836	.047392	.0371425	.000056
#3	.023338	.0065750	.0081237	.053809	.0391203	-.000941

Sample Name: ICSA01 Acquired: 12/23/2024 11:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2547) 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	-.002926	-.002003	.0103916	.0020179	-.017272	F -.039579
Stddev	.000673	.000287	.0069892	.0021610	.002971	.000490
%RSD	22.99292	14.33778	67.25844	107.0891	17.20024	1.236956
#1	-.002445	-.001941	.0179962	-.000152	-.016856	-.039026
#2	-.002637	-.001752	.0042489	.002037	-.020429	-.039958
#3	-.003695	-.002317	.0089297	.004169	-.014531	-.039752

Elem	Sr4077
Units	ppm
Avg	-.008088
Stddev	.000550
%RSD	6.794554
#1	-.007455
#2	-.008370
#3	-.008440

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.500	57300.64	12032.26	1838.757	3738.012
Stddev	7.359	195.75	65.78	6.873	11.778
%RSD	.2764873	.3416110	.5467087	.3738077	.3150865
#1	2654.890	57482.15	11970.39	1845.556	3730.634
#2	2669.429	57093.24	12025.04	1831.811	3751.595
#3	2660.181	57326.52	12101.36	1838.902	3731.807

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSAB01 Acquired: 12/23/2024 12:06:26 Type: Unk
Method: NON EPA-6010-200.7(v2548) 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	.1157207	.1118743	.0553617	.0374069	.6414283	240.5110
Stddev	.0027890	.0012991	.0027907	.0031781	.0043473	.8427
%RSD	2.410102	1.161194	5.040832	8.496061	.6777515	.3503975
#1	.1162099	.1112937	.0577339	.0355769	.6416217	240.0691
#2	.1127195	.1133624	.0522868	.0355671	.6456756	239.9810
#3	.1182328	.1109668	.0560643	.0410766	.6369875	241.4828

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4857193	.4774254	1.044243	225.1681	.5805274	.5257452
Stddev	.0026884	.0017651	.001400	.9829	.0021622	.0004767
%RSD	.5534825	.3697126	.1340513	.4365361	.3724475	.0906650
#1	.4827889	.4790367	1.044324	224.6111	.5830148	.5260203
#2	.4862974	.4755389	1.042804	224.5902	.5790977	.5251948
#3	.4880716	.4777007	1.045601	226.3031	.5794696	.5260205

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5652942	101.8328	.4780335	243.9122	1.037116	.2027092
Stddev	.0012074	.2336	.0020492	.9363	.001097	.0004387
%RSD	.2135797	.2293626	.4286677	.3838631	.1057865	.2164340
#1	.5639333	101.6207	.4769908	243.4514	1.037356	.2027784
#2	.5657125	101.7945	.4767153	243.2957	1.035919	.2022400
#3	.5662368	102.0831	.4803943	244.9896	1.038074	.2031093

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098029	.4779666	1.067202	-.025584	.8843854	1.008586
Stddev	.0319858	.0014261	.003036	.032601	.0049037	.002688
%RSD	326.2901	.2983796	.2845111	127.4262	.5544756	.2665252
#1	-.022636	.4763247	1.069671	-.060658	.8883241	1.005530
#2	.010729	.4788980	1.063812	-.019890	.8788931	1.009646
#3	.041316	.4786770	1.068124	.003794	.8859391	1.010583

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSAB01 Acquired: 12/23/2024 12:06:26 Type: Unk
Method: NON EPA-6010-200.7(v2548) 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	.9847902	.9040460	.8629507	F .0102523	F -.022808	F -.040035
Stddev	.0023144	.0041848	.0104799	.0026269	.011908	.000379
%RSD	.2350093	.4628931	1.214424	25.62273	52.20868	.9470389
#1	.9851416	.9002277	.8513856	.0119527	-.013572	-.039938
#2	.9823202	.9033905	.8656488	.0115776	-.018604	-.039714
#3	.9869087	.9085199	.8718177	.0072267	-.036247	-.040453

Elem	Sr4077
Units	ppm
Avg	F -.005314
Stddev	.000196
%RSD	3.693417
#1	-.005534
#2	-.005155
#3	-.005254

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2631.497	57965.66	12023.79	1846.636	3712.030
Stddev	2.160	206.33	51.20	9.240	1.305
%RSD	.0820953	.3559502	.4257978	.5003825	.0351432
#1	2632.808	57736.37	11976.39	1836.530	3710.576
#2	2629.004	58136.33	12078.09	1854.654	3713.097
#3	2632.679	58024.29	12016.89	1848.724	3712.418

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSADLX20 Acquired: 12/23/2024 12:10:38 Type: Unk
Method: NON EPA-6010-200.7(v2548) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001007	.0019234	.0009743	-.000654	-.001034	12.22618	-.002381
Stddev	.002736	.0003325	.0011155	.001364	.000375	.08404	.000500
%RSD	271.7071	17.28506	114.4961	208.5703	36.22367	.6873504	21.01771
#1	-.001049	.0015696	.0022608	-.000144	-.000958	12.32077	-.001927
#2	.001750	.0022294	.0003872	.000381	-.001441	12.19763	-.002918
#3	-.003722	.0019711	.0002750	-.002200	-.000703	12.16014	-.002299

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002245	.0001679	11.92693	.0026049	-.000084	.0035903	5.130327
Stddev	.0000428	.0000634	.11376	.0001582	.000144	.0003243	.043131
%RSD	19.07372	37.74076	.9537821	6.072397	170.3070	9.033955	.8407106
#1	.0002735	.0002406	12.05723	.0026808	-.000139	.0039527	5.176387
#2	.0001943	.0001246	11.87611	.0027109	.000079	.0033272	5.123703
#3	.0002056	.0001385	11.84744	.0024231	-.000192	.0034909	5.090891

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005965	12.26405	.0000271	.0006168	-.040794	.0005107	.0005092
Stddev	.0002847	.06695	.0001600	.0001795	.010690	.0006217	.0001045
%RSD	47.72694	.5459230	590.1622	29.10222	26.20389	121.7411	20.51870
#1	.0008866	12.33752	.0001552	.0008043	-.050755	-.000203	.0004834
#2	.0005853	12.24814	-.000152	.0005995	-.042126	.000932	.0006241
#3	.0003175	12.20648	.000078	.0004466	-.029501	.000803	.0004200

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.052623	.0026407	.0003027	-.001174	.0016734	.0011441	.0039586
Stddev	.016565	.0003323	.0002480	.000493	.0004287	.0085809	.0014526
%RSD	31.47850	12.58223	81.92820	42.01772	25.61674	750.0355	36.69476
#1	-.068841	.0029281	.0000177	-.000876	.0021353	.0105717	.0044617
#2	-.053298	.0027170	.0004694	-.001743	.0012884	-.000929	.0023214
#3	-.035731	.0022769	.0004209	-.000902	.0015964	-.006210	.0050928

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSADLX20 Acquired: 12/23/2024 12:10:38 Type: Unk
Method: NON EPA-6010-200.7(v2548) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0017606	-.004922	-.000154
Stddev	.0016825	.000379	.000039
%RSD	95.55976	7.699633	25.38665
#1	.0024391	-.004935	-.000146
#2	.0029979	-.005293	-.000196
#3	-.000155	-.004536	-.000119

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2983.489	64989.44	12445.77	2078.446	4550.543
Stddev	2.890	160.42	25.23	14.876	2.562
%RSD	.0968510	.2468342	.2026871	.7157355	.0562983
#1	2980.609	64805.60	12418.89	2062.178	4549.820
#2	2986.388	65101.00	12468.92	2091.357	4553.389
#3	2983.470	65061.73	12449.52	2081.801	4548.421

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSABDLX20 Acquired: 12/23/2024 12:14:56 Type: Unk
Method: NON EPA-6010-200.7(v2548) 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	.0052089	.0047196	.0025150	.0021216	.0309406	11.97694	.0216502
Stddev	.0034224	.0004115	.0010199	.0003010	.0005970	.01374	.0004706
%RSD	65.70285	8.718739	40.55251	14.18843	1.929378	.1147241	2.173510
#1	.0091598	.0051817	.0017871	.0020496	.0302672	11.97846	.0212755
#2	.0031593	.0043927	.0036807	.0024521	.0314048	11.96250	.0214968
#3	.0033076	.0045845	.0020772	.0018631	.0311498	11.98985	.0221783

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0248215	.0510401	11.68630	.0299103	.0253375	.0293572	5.080377
Stddev	.0000653	.0001626	.04680	.0000245	.0003376	.0001508	.012053
%RSD	.2629248	.3185502	.4004887	.0819476	1.332496	.5137627	.2372558
#1	.0247689	.0509164	11.66938	.0299355	.0254177	.0294032	5.075856
#2	.0248011	.0509796	11.65031	.0299090	.0249670	.0294797	5.071239
#3	.0248946	.0512242	11.73921	.0298865	.0256278	.0291888	5.094038

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249707	12.02362	.0514725	.0103400	-.046154	.0242246	.0528859
Stddev	.0000919	.10454	.0003249	.0001843	.019099	.0013331	.0005429
%RSD	.3681071	.8694386	.6312123	1.782265	41.38124	5.502976	1.026468
#1	.0248699	11.92319	.0514083	.0101306	-.067807	.0248488	.0534889
#2	.0249920	12.01583	.0511845	.0104777	-.031705	.0251310	.0524362
#3	.0250500	12.13183	.0518247	.0104115	-.038948	.0226939	.0527325

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.052907	.0463593	.0512117	.0468290	.0465745	.0453392	-.001689
Stddev	.035160	.0002549	.0004409	.0004896	.0001667	.0027198	.001919
%RSD	66.45595	.5498701	.8609543	1.045491	.3580324	5.998897	113.6245
#1	-.093307	.0462524	.0507702	.0464808	.0467391	.0430970	-.001471
#2	-.036174	.0466503	.0512130	.0473888	.0465788	.0483648	.000112
#3	-.029238	.0461753	.0516520	.0466172	.0464057	.0445559	-.003708

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: ICSABDLX20 Acquired: 12/23/2024 12:14:56 Type: Unk
Method: NON EPA-6010-200.7(v2548) 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	.0008776	-.005700	-.000196
Stddev	.0022366	.000866	.000032
%RSD	254.8635	15.19917	16.08704
#1	.0034233	-.005484	-.000188
#2	-.000772	-.004962	-.000231
#3	-.000019	-.006654	-.000169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.706	64933.29	12608.04	2056.079	4630.813
Stddev	5.273	25.57	12.47	2.921	10.103
%RSD	.1746329	.0393810	.0988683	.1420539	.2181599
#1	3017.087	64925.97	12615.99	2053.705	4630.033
#2	3025.776	64912.18	12614.47	2055.191	4641.283
#3	3016.255	64961.73	12593.67	2059.341	4621.123

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV01 Acquired: 12/23/2024 12:31:08 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.108580	5.152270	4.885046	5.188829	5.172448	9.866024	9.705877
Stddev	.015656	.046251	.009066	.023736	.019833	.040803	.055879
%RSD	.3064719	.8976826	.1855948	.4574382	.3834368	.4135750	.5757206
#1	5.113380	5.118288	4.895294	5.197285	5.180986	9.827949	9.649036
#2	5.091086	5.133580	4.878069	5.162023	5.149776	9.861028	9.707856
#3	5.121274	5.204941	4.881775	5.207178	5.186582	9.909095	9.760740

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2324022	2.446211	23.81704	.9975233	2.455973	1.278796	5.083006
Stddev	.0012798	.004866	.02606	.0038166	.004340	.003791	.032931
%RSD	.5506864	.1989351	.1094262	.3826104	.1767282	.2964396	.6478610
#1	.2338209	2.450131	23.81910	.9984277	2.460148	1.281410	5.044987
#2	.2320512	2.440765	23.79001	1.000806	2.451484	1.274448	5.102606
#3	.2313346	2.447738	23.84202	.993336	2.456285	1.280530	5.101425

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.380121	23.57530	2.466052	1.251670	25.21130	2.438978	2.453363
Stddev	.011411	.03799	.003653	.002721	.08834	.004332	.015676
%RSD	.4794225	.1611485	.1481515	.2174259	.3504098	.1776321	.6389471
#1	2.377785	23.56118	2.469268	1.250826	25.11777	2.434649	2.451005
#2	2.370058	23.54639	2.462080	1.254713	25.29333	2.438970	2.470083
#3	2.392518	23.61833	2.466810	1.249470	25.22280	2.443314	2.438999

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.69538	4.675824	5.152649	4.934064	4.839172	5.163217	4.909322
Stddev	.19379	.017547	.020465	.008326	.022510	.060560	.015511
%RSD	.7542007	.3752766	.3971808	.1687397	.4651536	1.172908	.3159578
#1	25.47432	4.696030	5.159545	4.934614	4.820631	5.093769	4.905983
#2	25.77578	4.667014	5.129626	4.925477	4.832668	5.190858	4.895752
#3	25.83603	4.664427	5.168775	4.942101	4.864217	5.205025	4.926231

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV01 Acquired: 12/23/2024 12:31:08 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	4.906970	4.898821	4.939025
Stddev	.006169	.030179	.015533
%RSD	.1257119	.6160485	.3144946
#1	4.906194	4.868041	4.949070
#2	4.901226	4.900061	4.921134
#3	4.913490	4.928360	4.946871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2830.981	62804.50	12020.71	1940.411	4189.042
Stddev	8.828	198.52	48.22	8.800	7.862
%RSD	.3118482	.3160977	.4011257	.4535057	.1876845
#1	2824.274	62774.34	11965.98	1943.284	4180.903
#2	2840.983	62622.77	12039.19	1930.534	4196.594
#3	2827.686	63016.37	12056.95	1947.416	4189.630

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB01 Acquired: 12/23/2024 12:35:20 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000721	-.000118	-.000059	.0007783	-.000887	.0037143	-.004380
Stddev	.001285	.001144	.000582	.0006205	.000464	.0031184	.000488
%RSD	178.1847	970.5965	990.2731	79.72827	52.30732	83.95463	11.15107
#1	-.000686	-.001224	-.000178	.0014026	-.001153	.0069233	-.003830
#2	.000546	-.000191	.000574	.0007705	-.001155	.0006952	-.004763
#3	-.002024	.001061	-.000572	.0001617	-.000351	.0035246	-.004549

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000540	-.000017	.0070791	-.000185	-.000060	.0006226	.0024782
Stddev	.0000297	.000071	.0008470	.000182	.000237	.0002248	.0028528
%RSD	55.04755	412.1703	11.96516	98.37277	398.6069	36.11509	115.1182
#1	.0000379	.000061	.0078451	-.000032	-.000330	.0003734	.0051557
#2	.0000358	-.000037	.0061694	-.000385	.000038	.0008102	.0028012
#3	.0000883	-.000075	.0072228	-.000136	.000113	.0006842	-.000522

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000532	-.002496	-.000038	.0007101	-.070336	.0002004	-.000118
Stddev	.0001912	.001774	.000185	.0001513	.014701	.0004082	.000289
%RSD	359.5688	71.08621	487.1908	21.30514	20.90105	203.6694	244.2703
#1	.0002739	-.000789	.000001	.0005967	-.087018	-.000015	.000164
#2	-.000055	-.004330	-.000239	.0006517	-.064713	-.000055	-.000105
#3	-.000059	-.002368	.000125	.0008819	-.059276	.000671	-.000414

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.031479	.0062391	.0002550	-.000327	.0008684	.0012640	.0016780
Stddev	.005127	.0005291	.0003396	.000437	.0002932	.0051642	.0002636
%RSD	16.28749	8.479939	133.1778	133.7194	33.76314	408.5501	15.70747
#1	-.026047	.0056420	.0002980	-.000732	.0008191	.0038032	.0017790
#2	-.036233	.0064253	.0005710	-.000385	.0011830	.0046671	.0018761
#3	-.032156	.0066498	-.000104	.000136	.0006029	-.004678	.0013788

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB01 Acquired: 12/23/2024 12:35:20 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000899	-.003228	.0001540
Stddev	.002443	.000653	.0000485
%RSD	271.6778	20.22946	31.47085
#1	-.001141	-.003552	.0002045
#2	-.003213	-.002476	.0001497
#3	.001656	-.003655	.0001078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2971.934	66361.46	12904.74	2060.116	4748.659
Stddev	7.529	130.69	36.34	4.873	6.346
%RSD	.2533397	.1969299	.2815878	.2365355	.1336320
#1	2965.673	66356.75	12893.33	2058.648	4741.352
#2	2969.842	66494.44	12875.47	2065.554	4751.839
#3	2980.288	66233.19	12945.41	2056.145	4752.786

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165789BL Acquired: 12/23/2024 12:51:12 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000747	-.000580	-.000670	.0012354	-.001262	.0006721	-.006840
Stddev	.000514	.001276	.001052	.0010099	.000916	.0018438	.000286
%RSD	68.82692	219.8957	157.0637	81.74630	72.55360	274.3508	4.188086
#1	-.000870	-.001785	.000502	.0013805	-.000495	-.001402	-.006676
#2	-.000182	.000757	-.000979	.0021648	-.001016	.002124	-.006673
#3	-.001188	-.000712	-.001532	.0001608	-.002277	.001295	-.007171

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000146	-.000037	.0047360	-.000244	.0000867	-.000242	.0028928
Stddev	.0000096	.000115	.0038326	.000623	.0000216	.000429	.0004567
%RSD	65.49722	311.0471	80.92599	254.7261	24.95453	176.9708	15.78708
#1	.0000246	-.000001	.0034210	-.000764	.0001047	-.000353	.0025389
#2	.0000139	-.000165	.0090530	.000446	.0000928	-.000605	.0034084
#3	.0000055	.000056	.0017339	-.000415	.0000627	.000231	.0027312

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000265	-.010433	.0001069	.0009493	-.050194	-.000714	-.000306
Stddev	.000109	.003891	.0003319	.0002130	.033666	.000755	.000278
%RSD	41.18919	37.29664	310.4462	22.43639	67.07163	105.7291	90.77209
#1	-.000281	-.007400	-.000156	.0008681	-.088411	.000022	-.000473
#2	-.000365	-.014821	-.000004	.0007888	-.037250	-.000678	.000015
#3	-.000149	-.009079	.000480	.0011909	-.024921	-.001486	-.000460

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.056305	.0007310	.0000208	-.000170	.0003236	-.000483	.0009493
Stddev	.015473	.0006408	.0002252	.000221	.0002790	.001016	.0018527
%RSD	27.48044	87.65889	1081.322	129.9395	86.22102	210.2354	195.1588
#1	-.073555	.0014605	-.000212	.000077	.0002334	-.000323	-.001132
#2	-.051712	.0002594	.000237	-.000238	.0001008	.000443	.001561
#3	-.043650	.0004730	.000038	-.000350	.0006366	-.001570	.002419

Sample Name: PB165789BL Acquired: 12/23/2024 12:51:12 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.001283	-.001463	-.000059
Stddev	.002426	.000087	.000015
%RSD	189.0644	5.975445	25.59486
#1	-.002955	-.001409	-.000042
#2	-.002395	-.001416	-.000066
#3	.001500	-.001564	-.000071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2914.587	65994.12	12905.68	2032.729	4697.335
Stddev	11.428	43.49	42.14	9.207	21.305
%RSD	.3921093	.0658933	.3265235	.4529371	.4535649
#1	2908.958	65970.73	12865.21	2030.694	4687.827
#2	2907.065	65967.34	12949.31	2024.711	4682.439
#3	2927.738	66044.30	12902.52	2042.784	4721.739

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165789BS Acquired: 12/23/2024 12:55:34 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.8399444	2.036704	.9797185	2.086650	.8306710	1.925683
Stddev	.0036136	.029566	.0020281	.015348	.0040289	.003997
%RSD	.4302171	1.451640	.2070123	.7355129	.4850183	.2075572
#1	.8373918	2.004118	.9805748	2.070629	.8260713	1.923453
#2	.8383622	2.061814	.9774027	2.088099	.8323681	1.923299
#3	.8440792	2.044182	.9811781	2.101222	.8335738	1.930298

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1858813	.1812406	.1935327	.9719478	.4016049	.1981592
Stddev	.0009791	.0005836	.0006211	.0080698	.0008229	.0007242
%RSD	.5267386	.3220063	.3209156	.8302758	.2048966	.3654524
#1	.1849905	.1808580	.1934702	.9627270	.4025110	.1980098
#2	.1857238	.1809513	.1929452	.9753939	.4009042	.1975213
#3	.1869296	.1819123	.1941826	.9777225	.4013996	.1989464

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3241477	3.085072	.1901214	1.809626	.4992387	.0764819
Stddev	.0012221	.019174	.0011148	.013734	.0018427	.0001696
%RSD	.3770300	.6215047	.5863844	.7589621	.3691007	.2217824
#1	.3229639	3.063017	.1891378	1.796069	.4982594	.0763977
#2	.3240744	3.097782	.1898940	1.809277	.4980924	.0766771
#3	.3254048	3.094417	.1913324	1.823531	.5013643	.0763708

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.896820	.2851022	.2006264	10.14960	.2714266	.4243108
Stddev	.007136	.0017706	.0013060	.03220	.0010808	.0020592
%RSD	.2463257	.6210294	.6509743	.3172956	.3981807	.4853047
#1	2.889136	.2830954	.2020866	10.12687	.2715323	.4223275
#2	2.898087	.2857671	.1995699	10.18645	.2702969	.4241664
#3	2.903237	.2864440	.2002227	10.13548	.2724507	.4264383

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165789BS Acquired: 12/23/2024 12:55:34 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6844205	.1911739	.7901446	5.542041	F -.008871	.1990090
Stddev	.0027067	.0004528	.0120873	.016596	.002899	.0014056
%RSD	.3954721	.2368661	1.529754	.2994534	32.68111	.7063205
#1	.6817397	.1908703	.7842886	5.524489	-.011005	.1975288
#2	.6843693	.1909571	.7821007	5.544156	-.010038	.1991722
#3	.6871524	.1916944	.8040445	5.557478	-.005570	.2003258

Elem	Sr4077
Units	ppm
Avg	.1962233
Stddev	.0007281
%RSD	.3710366
#1	.1954659
#2	.1962859
#3	.1969180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2890.056	65593.70	12783.99	2027.221	4508.556
Stddev	8.461	130.18	38.80	9.870	12.123
%RSD	.2927568	.1984657	.3034948	.4868543	.2688794
#1	2898.064	65443.90	12794.88	2017.087	4513.699
#2	2890.899	65657.75	12816.18	2027.774	4517.259
#3	2881.205	65679.44	12740.91	2036.803	4494.709

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165659BL Acquired: 12/23/2024 12:59:36 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.001229	.0009692	.0009009	-.001309	.0000155	.0060498	-.006872
Stddev	.001011	.0014011	.0011531	.000269	.0011379	.0008211	.000396
%RSD	82.22486	144.5548	127.9955	20.55937	7353.816	13.57315	5.760992
#1	-.000275	-.000557	.0010730	-.001618	.0004553	.0069448	-.007236
#2	-.001124	.001266	.0019583	-.001132	.0008678	.0058736	-.006929
#3	-.002289	.002198	-.000329	-.001176	-.001277	.0053311	-.006451

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001890	-.000005	.0004797	.0003568	.0000475	.0002238	.0021492
Stddev	.0000488	.000060	.0045543	.0001443	.0002200	.0003852	.0019134
%RSD	25.83152	1115.651	949.4062	40.44288	462.6466	172.0901	89.02644
#1	.0001741	.000060	-.003772	.0002347	.0001990	.0006679	.0042777
#2	.0002436	-.000058	.005286	.0005160	.0001484	-.000019	.0005719
#3	.0001495	-.000018	-.000075	.0003196	-.000205	.000023	.0015981

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000452	.0082245	.0001916	.0008354	-.061927	.0000575	-.000097
Stddev	.0001740	.0088180	.0000321	.0001057	.018313	.0004904	.000147
%RSD	384.8512	107.2166	16.77146	12.64881	29.57235	852.5870	152.3478
#1	-.000152	.0094124	.0002205	.0007134	-.078531	.0004676	-.000178
#2	.000108	.0163883	.0001974	.0008929	-.064966	-.000486	-.000185
#3	.000179	-.001127	.0001570	.0008998	-.042285	.000191	.000073

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.046928	.0009570	.0000995	.0002096	.0009271	.0005349	.0034648
Stddev	.021154	.0004686	.0001188	.0003127	.0003433	.0085397	.0028251
%RSD	45.07827	48.96391	119.3925	149.1493	37.02499	1596.367	81.53668
#1	-.028213	.0006259	.0002359	-.000121	.0011330	-.006761	.0057816
#2	-.069880	.0014931	.0000445	.000500	.0005309	.009928	.0042952
#3	-.042690	.0007519	.0000182	.000250	.0011175	-.001562	.0003176

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165659BL Acquired: 12/23/2024 12:59:36 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000751	-.001835	.0001695
Stddev	.002190	.000259	.0000287
%RSD	291.5336	14.10279	16.95902
#1	-.002762	-.001548	.0002022
#2	-.001074	-.002051	.0001579
#3	.001583	-.001907	.0001483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2907.109	65928.03	12944.15	2033.127	4662.930
Stddev	6.423	58.86	15.37	11.411	5.452
%RSD	.2209452	.0892744	.1187219	.5612565	.1169219
#1	2902.307	65895.80	12930.80	2020.136	4656.812
#2	2904.614	65995.96	12960.95	2041.527	4664.704
#3	2914.405	65892.32	12940.71	2037.720	4667.274

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165659BS Acquired: 12/23/2024 13:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.8241285	1.984155	.9631900	2.047062	.8216180	1.926172
Stddev	.0007894	.027407	.0009044	.005626	.0018020	.004540
%RSD	.0957853	1.381291	.0938990	.2748454	.2193281	.2356880
#1	.8235685	2.007160	.9622161	2.053477	.8225267	1.927172
#2	.8250314	1.953832	.9640036	2.044746	.8227849	1.921216
#3	.8237856	1.991474	.9633502	2.042964	.8195426	1.930129

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1855155	.1813693	.1897961	.9880940	.4017942	.1950889
Stddev	.0005734	.0003860	.0002642	.0137579	.0010620	.0003414
%RSD	.3090737	.2128161	.1392196	1.392370	.2643215	.1750173
#1	.1848534	.1809574	.1894941	.9803006	.4028651	.1948509
#2	.1858480	.1817228	.1899848	1.003979	.4017762	.1954801
#3	.1858451	.1814276	.1899094	.980002	.4007413	.1949357

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3206672	3.057960	.1891684	1.810030	.4906676	.0760957
Stddev	.0007824	.008908	.0009989	.010362	.0005042	.0003745
%RSD	.2439756	.2912978	.5280738	.5724909	.1027498	.4921373
#1	.3214181	3.061887	.1883321	1.800791	.4906652	.0757320
#2	.3198568	3.064230	.1902745	1.808064	.4911729	.0760750
#3	.3207268	3.047764	.1888984	1.821234	.4901646	.0764801

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.869129	.2858521	.2020521	10.12348	.2709167	.4231200
Stddev	.011078	.0010435	.0004784	.02717	.0010701	.0004587
%RSD	.3861197	.3650298	.2367685	.2683680	.3949782	.1084147
#1	2.865343	.2856865	.2016281	10.12691	.2699494	.4229814
#2	2.860440	.2869684	.2019576	10.09476	.2707346	.4227465
#3	2.881604	.2849013	.2025707	10.14877	.2720662	.4236320

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165659BS Acquired: 12/23/2024 13:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6722687	.1904566	.7817860	5.374756	F -.008876	.1997838
Stddev	.0006415	.0005811	.0078090	.011059	.002190	.0003886
%RSD	.0954266	.3051253	.9988672	.2057667	24.66786	.1945044
#1	.6722380	.1897862	.7854883	5.372806	-.007953	.1999035
#2	.6716430	.1907660	.7870552	5.364801	-.011376	.1993494
#3	.6729250	.1908175	.7728144	5.386661	-.007300	.2000984

Elem	Sr4077
Units	ppm
Avg	.1960558
Stddev	.0004185
%RSD	.2134561
#1	.1955777
#2	.1962341
#3	.1963556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.010	65105.00	12667.86	1993.118	4592.053
Stddev	.225	212.86	39.23	3.389	3.579
%RSD	.0077262	.3269506	.3096571	.1700415	.0779371
#1	2917.061	64928.09	12648.40	1991.673	4596.180
#2	2916.763	65045.68	12642.16	1990.690	4590.175
#3	2917.205	65341.23	12713.01	1996.990	4589.803

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5330-04 Acquired: 12/23/2024 13:08:02 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.009346	-.008065	.0041077	.0040289	-.000615	.2981283	.2381641
Stddev	.002205	.002070	.0005759	.0024346	.001500	.0016829	.0015037
%RSD	23.59632	25.66292	14.01890	60.42950	243.9977	.5645041	.6313632
#1	-.011888	-.005698	.0047607	.0012536	.000651	.2966722	.2387609
#2	-.007947	-.008962	.0038901	.0058048	-.000224	.2999709	.2392778
#3	-.008203	-.009535	.0036724	.0050283	-.002272	.2977418	.2364536

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000095	-.000140	7.382579	.0039292	.0004097	.0212737	.2495018
Stddev	.000074	.000096	.015992	.0001342	.0001894	.0004865	.0057406
%RSD	77.42136	68.43621	.2166187	3.415612	46.21901	2.286935	2.300824
#1	-.000045	-.000245	7.365810	.0038123	.0004618	.0207249	.2430037
#2	-.000060	-.000057	7.384266	.0040757	.0005676	.0214439	.2516170
#3	-.000179	-.000119	7.397660	.0038996	.0001997	.0216522	.2538846

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0790785	.7434850	.0016186	.0008176	399.8020	.0015275	.1207538
Stddev	.0004881	.0154953	.0000694	.0000333	4.0467	.0007294	.0002541
%RSD	.6172262	2.084145	4.288445	4.067453	1.012170	47.74894	.2104606
#1	.0796145	.7571438	.0016631	.0007865	398.0160	.0023665	.1209972
#2	.0789614	.7266465	.0015386	.0008527	396.9555	.0011718	.1204902
#3	.0786596	.7466648	.0016542	.0008137	404.4344	.0010443	.1207739

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4502560	.0608757	.0005967	.0012074	.0052517	.7225802	.0237991
Stddev	.0131244	.0004381	.0000276	.0004749	.0007700	.0027139	.0008865
%RSD	2.914886	.7196970	4.628335	39.33149	14.66274	.3755865	3.724881
#1	.4351183	.0608007	.0005688	.0014558	.0061386	.7195302	.0234034
#2	.4584489	.0613465	.0006240	.0006598	.0047530	.7234819	.0231794
#3	.4572007	.0604799	.0005972	.0015064	.0048634	.7247285	.0248145

Sample Name: P5330-04 Acquired: 12/23/2024 13:08:02 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7323923	-.006302	.0493989
Stddev	.0024215	.000772	.0001991
%RSD	.3306276	12.25432	.4029842
#1	.7306779	-.007194	.0496097
#2	.7351624	-.005866	.0493727
#3	.7313365	-.005847	.0492142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2594.608	58611.03	12751.57	1791.368	3905.306
Stddev	3.190	136.89	36.08	6.465	5.714
%RSD	.1229413	.2335579	.2829169	.3609132	.1463087
#1	2598.251	58637.97	12710.25	1791.747	3909.908
#2	2592.318	58732.45	12767.66	1797.635	3907.100
#3	2593.254	58462.67	12776.80	1784.721	3898.911

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5337-03 Acquired: 12/23/2024 13:12:31 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.010881	-.008450	-.000125	.0030891	.0008483	-.045100	.0852908
Stddev	.001944	.001225	.000826	.0034132	.0003753	.008991	.0008168
%RSD	17.86613	14.50029	658.4563	110.4920	44.23744	19.93533	.9576860
#1	-.008921	-.009262	-.000728	.0046873	.0012130	-.035992	.0856590
#2	-.010912	-.009047	-.000465	.0054101	.0004633	-.053969	.0858586
#3	-.012809	-.007041	.000816	-.000830	.0008685	-.045338	.0843547

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000118	-.000111	150.7720	.0004940	-.000475	.0018632	.0113103
Stddev	.000009	.000041	.1404	.0000710	.000068	.0012361	.0028231
%RSD	7.902773	37.30522	.0931461	14.36430	14.40666	66.34335	24.96049
#1	-.000129	-.000088	150.8291	.0004766	-.000449	.0029634	.0084775
#2	-.000112	-.000086	150.8749	.0004334	-.000424	.0021004	.0141236
#3	-.000114	-.000159	150.6120	.0005721	-.000553	.0005257	.0113297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036984	.1834162	.0006202	.0007117	336.8922	.0043544	.0083424
Stddev	.0000726	.0140212	.0001378	.0001891	1.5793	.0008006	.0005664
%RSD	1.963488	7.644477	22.22657	26.57389	.4687843	18.38603	6.788998
#1	.0037745	.1897423	.0007500	.0006561	335.6855	.0037965	.0089846
#2	.0036299	.1931598	.0004755	.0005567	336.3115	.0039949	.0081286
#3	.0036907	.1673466	.0006350	.0009224	338.6796	.0052717	.0079142

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.768859	.0279625	.0020456	-.003107	-.003454	5.177351	.0087769
Stddev	.026389	.0006696	.0001950	.000689	.000136	.022204	.0003613
%RSD	1.491887	2.394640	9.531386	22.17263	3.940355	.4288596	4.115884
#1	1.757094	.0277332	.0022210	-.002854	-.003445	5.164791	.0084310
#2	1.750398	.0287167	.0018357	-.003886	-.003323	5.164274	.0091518
#3	1.799084	.0274377	.0020801	-.002580	-.003595	5.202988	.0087479

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5337-03 Acquired: 12/23/2024 13:12:31 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	9.703073	-.029018	.3707885
Stddev	.069825	.000133	.0003846
%RSD	.7196207	.4567918	.1037298
#1	9.651509	-.029030	.3703937
#2	9.675177	-.028881	.3708097
#3	9.782534	-.029145	.3711621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2531.224	58378.01	12866.31	1771.572	3780.820
Stddev	10.263	205.97	34.92	11.720	19.176
%RSD	.4054708	.3528257	.2714385	.6615776	.5071816
#1	2543.032	58531.01	12835.83	1780.608	3802.662
#2	2526.193	58459.21	12858.68	1775.778	3773.041
#3	2524.446	58143.81	12904.42	1758.328	3766.756

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5338-01 Acquired: 12/23/2024 13:16:55 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.008977	-.006400	.0032793	.0034118	.0000119	.0169706	.1515634
Stddev	.003047	.000919	.0014044	.0024520	.0004007	.0030296	.0009798
%RSD	33.93929	14.36100	42.82469	71.87023	3356.721	17.85210	.6464851
#1	-.005601	-.005674	.0025734	.0013067	.0004738	.0141213	.1508602
#2	-.009808	-.006091	.0023680	.0028244	-.000243	.0201530	.1511473
#3	-.011523	-.007433	.0048966	.0061041	-.000195	.0166374	.1526826

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000127	-.000185	.3263525	-.000225	-.000530	.0016474	.0244227
Stddev	.000040	.000082	.0232464	.000336	.000150	.0002714	.0022918
%RSD	31.19096	44.19816	7.123089	148.8724	28.27288	16.47608	9.384058
#1	-.000115	-.000244	.3160586	-.000227	-.000361	.0014526	.0240949
#2	-.000172	-.000219	.3100304	.000111	-.000645	.0019574	.0223124
#3	-.000096	-.000092	.3529685	-.000560	-.000585	.0015321	.0268607

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063029	.0407567	.0006181	.0007196	330.4060	-.000073	.1726461
Stddev	.0000602	.0058560	.0001244	.0001287	2.2991	.000880	.0013014
%RSD	.9558213	14.36812	20.12946	17.88103	.6958301	1210.709	.7537802
#1	.0063025	.0461184	.0006077	.0008455	328.0629	.000877	.1711446
#2	.0062429	.0345077	.0007474	.0005883	330.4969	-.000234	.1733459
#3	.0063634	.0416439	.0004992	.0007250	332.6583	-.000860	.1734479

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1841335	.0389746	.0004180	.0001605	.0004255	.0330372	.0074854
Stddev	.0125492	.0004598	.0001318	.0006942	.0002540	.0019271	.0011834
%RSD	6.815275	1.179786	31.52131	432.4383	59.70308	5.833188	15.80963
#1	.1887730	.0395054	.0004180	-.000254	.0005414	.0351949	.0083005
#2	.1699252	.0387217	.0005497	-.000227	.0006008	.0324296	.0061280
#3	.1937024	.0386968	.0002862	.000962	.0001342	.0314871	.0080277

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5338-01 Acquired: 12/23/2024 13:16:55 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.5457275	-.005949	.0036244
Stddev	.0034355	.000328	.0000709
%RSD	.6295251	5.514833	1.955007
#1	.5460484	-.006231	.0035697
#2	.5489913	-.006028	.0035992
#3	.5421428	-.005589	.0037044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.798	59290.78	12892.87	1804.634	4023.347
Stddev	7.277	132.54	35.42	10.416	5.177
%RSD	.2748489	.2235476	.2747203	.5771648	.1286754
#1	2652.207	59280.76	12853.41	1813.309	4022.963
#2	2651.788	59163.53	12903.27	1793.083	4028.706
#3	2639.398	59428.05	12921.92	1807.512	4018.373

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5338-02 Acquired: 12/23/2024 13:21:22 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.003491	-.001511	-.000694	.0029628	-.001529	.0109956	-.007932
Stddev	.001249	.000968	.000884	.0010687	.000705	.0019635	.000391
%RSD	35.78578	64.07006	127.3113	36.06969	46.08389	17.85751	4.923877
#1	-.004553	-.000488	-.001437	.0026092	-.002329	.0131148	-.007669
#2	-.002114	-.001631	.000283	.0041634	-.001256	.0106339	-.007747
#3	-.003807	-.002413	-.000930	.0021158	-.001002	.0092380	-.008381

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000054	-.000166	.1450933	-.000444	-.000100	.0026287	.0119699
Stddev	.000029	.000080	.0011803	.000203	.000192	.0000448	.0002728
%RSD	53.04514	48.22374	.8134714	45.83062	191.1400	1.702838	2.279168
#1	-.000034	-.000218	.1462342	-.000675	-.000072	.0026799	.0122602
#2	-.000041	-.000074	.1451685	-.000294	-.000305	.0025969	.0119306
#3	-.000087	-.000206	.1438772	-.000361	.000076	.0026093	.0117189

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017764	.0084002	-.000131	.0011371	-.052904	-.000311	.0310770
Stddev	.0002961	.0039327	.000150	.0001828	.020675	.000978	.0001969
%RSD	16.66894	46.81725	114.1982	16.07684	39.08029	314.1493	.6336155
#1	.0014498	.0049767	-.000169	.0013460	-.029119	-.001441	.0308841
#2	.0018521	.0075282	-.000258	.0010584	-.066571	.000254	.0312777
#3	.0020273	.0126958	.000034	.0010067	-.063021	.000253	.0310692

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.136454	-.001145	.0002696	.0000277	.0003218	.0089187	.0075924
Stddev	.021291	.000146	.0000821	.0001103	.0004490	.0057568	.0011753
%RSD	15.60303	12.76613	30.43297	397.6192	139.5386	64.54728	15.47982
#1	-.122193	-.001180	.0002354	.0001005	-.000108	.0032282	.0085273
#2	-.126241	-.000985	.0003633	.0000819	.000788	.0087883	.0079770
#3	-.160927	-.001271	.0002102	-.000099	.000285	.0147396	.0062730

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5338-02 Acquired: 12/23/2024 13:21:22 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.2869590	-.005259	.0000263
Stddev	.0037730	.000721	.0000168
%RSD	1.314812	13.71534	63.65159
#1	.2827533	-.004535	.0000453
#2	.2880775	-.005977	.0000134
#3	.2900463	-.005266	.0000204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2907.316	68402.89	13742.13	2059.958	4767.470
Stddev	5.326	468.79	44.05	20.219	9.338
%RSD	.1831854	.6853336	.3205756	.9815460	.1958741
#1	2904.601	68796.05	13691.36	2077.300	4769.978
#2	2913.452	68528.54	13770.31	2064.825	4775.297
#3	2903.895	67884.08	13764.71	2037.750	4757.133

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5341-02 Acquired: 12/23/2024 13:25:43 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.010132	-.005869	.3081836	.0012564	.0020454	.0456459	.4083550
Stddev	.002079	.000889	.0011437	.0025516	.0003298	.0020086	.0033060
%RSD	20.52407	15.15074	.3711082	203.0958	16.12524	4.400410	.8095840
#1	-.011216	-.006883	.3093786	-.000512	.0017065	.0467890	.4067137
#2	-.011445	-.005500	.3080730	.004182	.0020646	.0468221	.4121604
#3	-.007734	-.005223	.3070992	.000099	.0023653	.0433266	.4061908

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000219	.0395768	25.26716	.0024123	.0125670	.0181028	6.507708
Stddev	.0000183	.0001023	.12991	.0002692	.0001912	.0003561	.007958
%RSD	83.62795	.2583645	.5141353	11.15815	1.521849	1.967252	.1222831
#1	.0000205	.0396326	25.15842	.0021504	.0125886	.0177531	6.507652
#2	.0000409	.0394588	25.41101	.0023981	.0123658	.0184650	6.515694
#3	.0000043	.0396391	25.23204	.0026882	.0127465	.0180902	6.499779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5239810	3.623451	.0251835	.0009463	357.1757	.0000879	6.433924
Stddev	.0039454	.017902	.0000923	.0004131	.9809	.0006001	.045195
%RSD	.7529647	.4940650	.3663506	43.65469	.2746132	682.8823	.7024462
#1	.5220421	3.613932	.0250875	.0012787	357.8014	-.000145	6.420923
#2	.5285207	3.612320	.0252715	.0010765	357.6804	.000770	6.396654
#3	.5213803	3.644102	.0251916	.0004838	356.0452	-.000361	6.484194

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.93117	.0575548	-.000748	-.001343	.0006387	2.063173	.0201160
Stddev	.02475	.0006858	.000162	.000333	.0002124	.016982	.0033713
%RSD	.1128429	1.191517	21.64629	24.83108	33.25637	.8230995	16.75939
#1	21.92398	.0577276	-.000872	-.001407	.0007965	2.049776	.0198798
#2	21.95871	.0581376	-.000808	-.001639	.0007225	2.057471	.0168690
#3	21.91081	.0567992	-.000565	-.000982	.0003972	2.082272	.0235992

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5341-02 Acquired: 12/23/2024 13:25:43 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.9763017	-.004484	.0994749
Stddev	.0035076	.000566	.0007760
%RSD	.3592727	12.63202	.7800991
#1	.9783671	-.004139	.0990033
#2	.9782862	-.004175	.1003706
#3	.9722517	-.005138	.0990510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.759	58506.38	13021.47	1758.198	3826.582
Stddev	13.842	59.20	51.08	6.418	11.753
%RSD	.5448050	.1011938	.3922495	.3650349	.3071381
#1	2555.287	58438.02	13050.56	1752.943	3838.897
#2	2539.265	58539.79	12962.49	1765.351	3825.361
#3	2527.724	58541.33	13051.35	1756.301	3815.487

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02 Acquired: 12/23/2024 13:39:03 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.009905	-.007356	.0067762	.0063876	.0007587	.1013903	.4664316
Stddev	.003326	.000633	.0004983	.0025494	.0004596	.0028009	.0036061
%RSD	33.57669	8.605825	7.353477	39.91103	60.58157	2.762455	.7731321
#1	-.013153	-.006897	.0062108	.0035524	.0011769	.1046123	.4662556
#2	-.010057	-.008078	.0071510	.0071194	.0002666	.0995363	.4701225
#3	-.006506	-.007093	.0069669	.0084912	.0008325	.1000223	.4629166

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001009	.0005487	14.95274	-.000197	-.000277	.0199711	.0608634
Stddev	.0000213	.0000257	.08583	.000275	.000179	.0000722	.0016855
%RSD	21.06822	4.679039	.5740415	139.4624	64.59963	.3614322	2.769350
#1	.0001048	.0005393	14.98775	-.000422	-.000182	.0200003	.0603124
#2	.0000779	.0005290	15.01555	-.000278	-.000484	.0198889	.0595224
#3	.0001199	.0005778	14.85494	.000109	-.000166	.0200242	.0627555

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1603249	4.674857	.0046584	.0008764	433.7294	-.000103	.2266536
Stddev	.0018020	.024835	.0001944	.0001950	2.3103	.000269	.0018736
%RSD	1.123971	.5312506	4.172935	22.25083	.5326690	261.0903	.8266473
#1	.1610262	4.675660	.0046101	.0010573	434.2307	-.000360	.2245396
#2	.1616708	4.699281	.0048725	.0009020	435.7478	-.000125	.2281089
#3	.1582777	4.649630	.0044928	.0006698	431.2095	.000177	.2273125

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.486741	.0536387	.0005910	.0001140	.0016951	1.351233	.0802781
Stddev	.016668	.0005013	.0000888	.0007127	.0002423	.013737	.0038976
%RSD	.6702900	.9346659	15.02431	625.0347	14.29583	1.016650	4.855107
#1	2.470036	.0530895	.0006676	.0007416	.0015403	1.351172	.0833970
#2	2.486813	.0540720	.0004937	-.000661	.0015707	1.365000	.0759087
#3	2.503373	.0537544	.0006117	.000261	.0019744	1.337526	.0815285

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02 Acquired: 12/23/2024 13:39:03 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6594556	-.006232	.0914751
Stddev	.0020077	.000412	.0006264
%RSD	.3044535	6.614979	.6847999
#1	.6571488	-.005955	.0915462
#2	.6608085	-.006036	.0920630
#3	.6604096	-.006706	.0908162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2532.777	57645.35	12948.00	1734.685	3813.751
Stddev	10.667	33.02	88.68	12.752	13.807
%RSD	.4211511	.0572900	.6849306	.7351289	.3620382
#1	2530.127	57607.73	12905.77	1727.068	3814.436
#2	2544.518	57669.56	12888.33	1727.580	3827.203
#3	2523.684	57658.77	13049.91	1749.407	3799.614

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV02 Acquired: 12/23/2024 13:43:28 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.358494	5.232249	4.991716	5.481228	5.451889	10.17155	10.11433
Stddev	.006117	.081836	.015021	.014637	.008017	.02622	.08794
%RSD	.1141565	1.564067	.3009259	.2670436	.1470467	.2577324	.8694871
#1	5.365558	5.299439	4.983425	5.486072	5.452189	10.15913	10.06550
#2	5.354982	5.141111	4.982666	5.464783	5.443726	10.20166	10.21585
#3	5.354944	5.256198	5.009055	5.492829	5.459751	10.15384	10.06164

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2295214	2.498199	23.99836	1.003007	2.515304	1.336708	5.262340
Stddev	.0012627	.005903	.15044	.002622	.005511	.003039	.016548
%RSD	.5501421	.2363028	.6268753	.2613890	.2191153	.2273551	.3144586
#1	.2284997	2.496615	23.85324	1.003939	2.512093	1.336594	5.274258
#2	.2309331	2.493249	24.15360	1.005036	2.512150	1.333728	5.243446
#3	.2291315	2.504733	23.98825	1.000047	2.521668	1.339803	5.269316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.409206	23.59319	2.530092	1.272712	26.61068	2.490792	2.445771
Stddev	.009978	.17112	.005101	.002317	.16503	.013680	.022329
%RSD	.4141795	.7252786	.2016002	.1820725	.6201557	.5492313	.9129533
#1	2.398075	23.41921	2.527618	1.273951	26.63902	2.479911	2.449193
#2	2.417349	23.76129	2.526699	1.274146	26.43332	2.506150	2.466192
#3	2.412194	23.59908	2.535958	1.270039	26.75970	2.486315	2.421929

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.26546	4.644616	5.352562	5.040625	4.965656	5.376765	4.959823
Stddev	.05919	.021754	.011934	.014728	.015383	.028983	.011771
%RSD	.2171036	.4683713	.2229594	.2921788	.3097786	.5390333	.2373170
#1	27.32403	4.621729	5.352176	5.039238	4.948187	5.353881	4.969877
#2	27.20566	4.665024	5.340826	5.026640	4.977175	5.367058	4.946876
#3	27.26670	4.647095	5.364685	5.055998	4.971604	5.409355	4.962718

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV02 Acquired: 12/23/2024 13:43:28 Type: Unk
Method: NON EPA-6010-200.7(v2459) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.065216	5.127415	5.129600
Stddev	.024125	.012146	.031823
%RSD	.4762956	.2368812	.6203747
#1	5.065592	5.114072	5.125183
#2	5.040906	5.130344	5.163400
#3	5.089152	5.137828	5.100217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2686.715	61587.88	12076.76	1877.099	4015.795
Stddev	4.029	157.59	53.78	21.592	8.004
%RSD	.1499474	.2558816	.4453075	1.150265	.1993016
#1	2689.959	61462.91	12103.03	1865.948	4020.727
#2	2687.981	61535.82	12014.89	1863.362	4020.098
#3	2682.206	61764.92	12112.35	1901.986	4006.560

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB02 Acquired: 12/23/2024 13:47:39 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.002919	-.001365	.0000053	-.000209	-.000320	.0063628	-.006776
Stddev	.000486	.001081	.0002696	.000114	.000364	.0010125	.000417
%RSD	16.64493	79.19025	5095.965	54.52111	113.4692	15.91287	6.151590
#1	-.002358	-.000514	-.000064	-.000153	-.000125	.0055202	-.007198
#2	-.003193	-.000999	-.000223	-.000133	-.000740	.0060822	-.006365
#3	-.003206	-.002581	.000303	-.000340	-.000096	.0074860	-.006765

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000560	.0000711	.0036633	-.000146	.0000463	-.000309	-.002085
Stddev	.0000616	.0000396	.0023405	.000092	.0002503	.000237	.005685
%RSD	109.8955	55.69917	63.89160	62.72220	540.6667	76.68343	272.6374
#1	.0000732	.0001164	.0030904	-.000236	.0003031	-.000066	-.006097
#2	.0001071	.0000543	.0016624	-.000053	.0000327	-.000539	.004420
#3	-.000012	.0000427	.0062371	-.000149	-.000197	-.000321	-.004579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000109	-.000196	.0000970	.0011443	.0369126	-.000720	-.000189
Stddev	.000034	.006133	.0000866	.0001461	.0156847	.000210	.000092
%RSD	31.67608	3133.766	89.31105	12.76328	42.49147	29.19971	48.84090
#1	-.000114	-.006634	.0001703	.0012757	.0294648	-.000598	-.000284
#2	-.000072	.000469	.0000014	.0011703	.0263393	-.000600	-.000184
#3	-.000140	.005578	.0001192	.0009870	.0549336	-.000963	-.000099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0919105	.0062151	.0004151	-.000293	.0008825	.0020266	.0049057
Stddev	.0389702	.0001315	.0002218	.000315	.0002770	.0027790	.0010573
%RSD	42.40013	2.115436	53.43872	107.3812	31.38478	137.1272	21.55145
#1	.0481528	.0062198	.0006675	.000068	.0009889	.0050011	.0053588
#2	.1046997	.0060813	.0002511	-.000438	.0010906	-.000503	.0056609
#3	.1228791	.0063441	.0003268	-.000510	.0005681	.001582	.0036974

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB02 Acquired: 12/23/2024 13:47:39 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0000451	-.001269	.0000648
Stddev	.0027562	.000551	.0000253
%RSD	6114.229	43.42222	38.97780
#1	-.002474	-.000635	.0000850
#2	.002989	-.001634	.0000365
#3	-.000380	-.001539	.0000731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2887.346	64615.97	12803.17	1960.435	4712.278
Stddev	3.455	253.30	9.89	18.288	7.902
%RSD	.1196700	.3920066	.0772235	.9328298	.1676806
#1	2891.165	64335.58	12811.98	1939.737	4720.748
#2	2886.438	64828.26	12805.05	1974.407	4710.983
#3	2884.436	64684.06	12792.47	1967.161	4705.105

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01 Acquired: 12/23/2024 13:52:00 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0861863	.0314591	1.761849	-.076954	.0188700	183.2307
Stddev	.0018346	.0026198	.004206	.003656	.0002662	.7039
%RSD	2.128658	8.327530	.2387088	4.751052	1.410595	.3841819
#1	.0852970	.0344626	1.762369	-.072933	.0191171	182.4267
#2	.0849658	.0296450	1.757407	-.077852	.0189048	183.5295
#3	.0882961	.0302697	1.765770	-.080077	.0185882	183.7360

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.159484	.0184001	.0665401	36.15529	.3640654	.4196121
Stddev	.022084	.0000684	.0004255	.05264	.0019781	.0004883
%RSD	.3585303	.3715643	.6394907	.1456022	.5433256	.1163580
#1	6.135010	.0184630	.0662159	36.18601	.3647497	.4190630
#2	6.177923	.0183273	.0670219	36.09450	.3618361	.4199973
#3	6.165519	.0184099	.0663825	36.18535	.3656105	.4197761

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6897832	442.6093	F 41.34850	96.46743	.9686421	.0184063
Stddev	.0030139	3.0767	.08612	.11301	.0026176	.0005653
%RSD	.4369339	.6951186	.2082761	.1171440	.2702372	3.071149
#1	.6864205	445.8942	41.41340	96.35191	.9666565	.0190583
#2	.6906880	439.7951	41.25080	96.47266	.9676613	.0181057
#3	.6922410	442.1385	41.38130	96.57774	.9716085	.0180548

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.026955	.4815357	2.356778	25.41766	.1987329	.0028323
Stddev	.027149	.0006804	.015212	.05833	.0040651	.0002454
%RSD	.6741864	.1412979	.6454640	.2294730	2.045510	8.665358
#1	4.058285	.4821073	2.351636	25.48459	.2028964	.0025672
#2	4.010345	.4817167	2.344804	25.39068	.1947739	.0030517
#3	4.012234	.4807831	2.373895	25.37771	.1985286	.0028778

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01 Acquired: 12/23/2024 13:52:00 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0587955	3.325077	5.640514	F 12.13443	2.338580	.7542672
Stddev	.0019360	.008142	.006656	.01795	.006536	.0030524
%RSD	3.292740	.2448553	.1180121	.1479182	.2795027	.4046819
#1	.0580791	3.334473	5.644743	12.14542	2.333735	.7577029
#2	.0573198	3.320111	5.643959	12.14416	2.346014	.7518681
#3	.0609875	3.320646	5.632841	12.11372	2.335992	.7532306

Elem	Sr4077
Units	ppm
Avg	-.159817
Stddev	.002185
%RSD	1.367189
#1	-.162214
#2	-.157937
#3	-.159301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3510.347	81582.73	17580.47	2457.932	3689.323
Stddev	4.571	88.13	23.87	15.016	6.844
%RSD	.1302093	.1080256	.1357684	.6109022	.1854987
#1	3509.283	81561.27	17564.63	2452.950	3692.781
#2	3515.356	81679.60	17607.92	2474.805	3693.747
#3	3506.402	81507.31	17568.85	2446.040	3681.440

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DLX5 Acquired: 12/23/2024 13:58:54 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0209655	.0061465	.3789338	-.018945	.0036079	47.53064	1.615349
Stddev	.0017891	.0005166	.0020047	.001393	.0009279	.03726	.004859
%RSD	8.533496	8.404573	.5290278	7.355322	25.71835	.0784011	.3008231
#1	.0197264	.0055710	.3785351	-.017804	.0026434	47.53318	1.619564
#2	.0230166	.0065702	.3771584	-.018533	.0044943	47.56656	1.610034
#3	.0201534	.0062982	.3811079	-.020498	.0036859	47.49216	1.616448

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051747	.0085866	9.810417	.0993414	.0863278	.1925470	120.4890
Stddev	.0001033	.0001645	.021556	.0003926	.0003965	.0000487	.1481
%RSD	1.995788	1.915587	.2197299	.3952474	.4593326	.0252776	.1229083
#1	.0051850	.0087387	9.814574	.0995149	.0867639	.1925030	120.5170
#2	.0050666	.0084120	9.787084	.0996174	.0859889	.1925993	120.3289
#3	.0052724	.0086089	9.829591	.0988919	.0862307	.1925387	120.6210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.70961	25.20926	.2040986	.0054699	.9525057	.1276351	.6411716
Stddev	.03121	.04302	.0005047	.0001907	.0140828	.0012274	.0011267
%RSD	.2665581	.1706428	.2472852	3.485552	1.478502	.9616893	.1757305
#1	11.74273	25.17036	.2045507	.0054741	.9362992	.1272173	.6416606
#2	11.68074	25.20196	.2035541	.0052772	.9617655	.1266710	.6419713
#3	11.70536	25.25547	.2041910	.0056584	.9594524	.1290169	.6398830

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.220891	.0573943	.0005724	.0112962	.8879735	1.419317	2.430942
Stddev	.032111	.0005964	.0003659	.0009770	.0002923	.004314	.004009
%RSD	.5161844	1.039175	63.92754	8.648666	.0329174	.3039737	.1649337
#1	6.199930	.0568400	.0001500	.0101683	.8877158	1.415692	2.435281
#2	6.204884	.0573175	.0007755	.0118434	.8879134	1.418171	2.427375
#3	6.257860	.0580254	.0007918	.0118770	.8882911	1.424089	2.430168

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DLX5 Acquired: 12/23/2024 13:58:54 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4387870	.1894101	-.046413
Stddev	.0031885	.0013021	.000212
%RSD	.7266547	.6874434	.4572359
#1	.4380549	.1900084	-.046169
#2	.4360282	.1879164	-.046521
#3	.4422778	.1903055	-.046550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.728	67017.36	13815.00	2041.474	4177.192
Stddev	10.168	219.69	60.11	10.568	13.548
%RSD	.3411321	.3278062	.4350963	.5176823	.3243271
#1	2970.795	66887.32	13758.70	2034.308	4161.859
#2	2991.116	66893.76	13808.00	2036.504	4187.545
#3	2980.274	67271.00	13878.30	2053.611	4182.172

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV03 Acquired: 12/23/2024 14:07:22 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.341906	5.186907	4.937472	5.479522	5.492506	10.21047	10.21066
Stddev	.003715	.063115	.010247	.009797	.002846	.05893	.09806
%RSD	.0695495	1.216813	.2075424	.1787866	.0518083	.5771918	.9603403
#1	5.342144	5.253396	4.945095	5.484540	5.493725	10.17111	10.09852
#2	5.338077	5.127819	4.925823	5.468233	5.489254	10.18209	10.28026
#3	5.345496	5.179504	4.941498	5.485793	5.494538	10.27823	10.25321

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2301634	2.470846	23.97673	1.002685	2.498366	1.338377	5.197875
Stddev	.0018473	.004707	.18286	.004552	.005830	.003740	.012537
%RSD	.8026109	.1904946	.7626526	.4539789	.2333339	.2794735	.2411929
#1	.2285164	2.471848	23.80076	1.001882	2.499575	1.338275	5.183786
#2	.2298131	2.465718	23.96366	.998587	2.492027	1.334689	5.202037
#3	.2321608	2.474970	24.16577	1.007585	2.503496	1.342168	5.207801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.395668	23.40895	2.508543	1.270516	26.11744	2.493330	2.449576
Stddev	.016208	.13736	.004694	.005042	.12280	.014572	.012910
%RSD	.6765572	.5867979	.1871139	.3968412	.4701965	.5844448	.5270487
#1	2.377311	23.26815	2.510327	1.270864	26.25923	2.479441	2.464445
#2	2.401691	23.41610	2.503219	1.265310	26.04499	2.492049	2.443073
#3	2.408002	23.54259	2.512083	1.275375	26.04811	2.508500	2.441210

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.24673	4.661732	5.392769	4.981811	4.989282	5.405926	4.873570
Stddev	.15848	.026929	.011956	.018946	.022473	.045520	.030149
%RSD	.5816623	.5776510	.2217049	.3803002	.4504189	.8420378	.6186228
#1	27.30556	4.634073	5.395139	4.995000	4.967156	5.385897	4.907914
#2	27.06725	4.663257	5.379806	4.960101	4.988604	5.373855	4.851466
#3	27.36739	4.687865	5.403363	4.990333	5.012086	5.458026	4.861331

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV03 Acquired: 12/23/2024 14:07:22 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	4.994778	5.169267	5.163238
Stddev	.021710	.019109	.024865
%RSD	.4346508	.3696596	.4815769
#1	5.004760	5.159608	5.134653
#2	4.969872	5.156916	5.175200
#3	5.009701	5.191277	5.179861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2673.176	61228.81	11971.86	1829.508	4027.510
Stddev	5.484	306.73	71.38	6.845	9.544
%RSD	.2051561	.5009515	.5962199	.3741498	.2369662
#1	2674.387	61190.82	12038.19	1821.830	4026.237
#2	2677.953	61552.76	11981.07	1834.973	4037.627
#3	2667.187	60942.85	11896.33	1831.720	4018.667

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB03 Acquired: 12/23/2024 14:11:32 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000207	.0007776	-.000164	.0013306	.0004296	.0085352	-.005475
Stddev	.001601	.0004794	.000774	.0005324	.0006177	.0046245	.000625
%RSD	775.0026	61.64821	473.4519	40.01423	143.7799	54.18140	11.41200
#1	.000115	.0002748	.000248	.0014439	.0010968	.0138141	-.004994
#2	-.001944	.0008285	-.001057	.0017972	.0003145	.0065927	-.005251
#3	.001209	.0012295	.000318	.0007506	-.000122	.0051988	-.006182

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000895	.0001685	.0155271	-.000136	.0000660	.0003230	.0072239
Stddev	.0000407	.0001001	.0037097	.000376	.0002614	.0000395	.0004964
%RSD	45.46968	59.39057	23.89190	277.2178	396.1083	12.22249	6.872065
#1	.0000959	.0001890	.0120252	.000289	.0002899	.0002999	.0077959
#2	.0000460	.0002568	.0151415	-.000269	.0001293	.0003005	.0069055
#3	.0001267	.0000598	.0194145	-.000426	-.000221	.0003686	.0069702

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009119	-.000970	.0000957	.0011072	.0068866	-.000130	.0000313
Stddev	.0004202	.006241	.0003845	.0002305	.0138382	.001279	.0001053
%RSD	46.08282	643.2719	401.8375	20.81521	200.9440	986.0678	336.3063
#1	.0013578	.006230	.0002008	.0008425	-.005692	.001020	-.000087
#2	.0008546	-.004850	-.000330	.0012638	.004641	.000098	.000115
#3	.0005233	-.004290	.000417	.0012152	.021710	-.001507	.000066

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1300654	.0087835	.0007148	.0004083	.0019449	.0108777	.0011527
Stddev	.0166699	.0010792	.0002199	.0003454	.0003702	.0045787	.0031919
%RSD	12.81656	12.28708	30.76691	84.59891	19.03413	42.09265	276.8983
#1	.1205953	.0098019	.0008716	.0005259	.0023333	.0159572	.0044321
#2	.1202876	.0088964	.0008095	.0000194	.0019052	.0070678	.0009700
#3	.1493134	.0076523	.0004634	.0006794	.0015961	.0096080	-.001944

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB03 Acquired: 12/23/2024 14:11:32 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0011991	-.001914	.0014068
Stddev	.0008069	.000631	.0003546
%RSD	67.28973	32.98447	25.21000
#1	.0021253	-.001390	.0017611
#2	.0008225	-.002614	.0014076
#3	.0006494	-.001736	.0010518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2819.299	64613.37	12942.09	1961.709	4547.616
Stddev	7.759	174.95	30.88	7.920	5.755
%RSD	.2751940	.2707643	.2386067	.4037526	.1265429
#1	2810.652	64411.64	12967.83	1953.073	4541.536
#2	2825.652	64723.65	12907.85	1963.418	4552.977
#3	2821.593	64704.80	12950.60	1968.635	4548.335

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5343-05 Acquired: 12/23/2024 14:15:52 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0163985	-.002826	-.000650	.0042947	.0006344	.0129176	.1465311
Stddev	.0010415	.001138	.001329	.0027004	.0004920	.0052855	.0005945
%RSD	6.351050	40.27085	204.5280	62.87775	77.54335	40.91688	.4057191
#1	.0152626	-.002665	-.001387	.0034697	.0007998	.0188572	.1472081
#2	.0173085	-.004035	.000884	.0073114	.0010225	.0111630	.1460942
#3	.0166245	-.001777	-.001446	.0021031	.0000811	.0087325	.1462910

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000704	.0002299	18.36902	.0601155	.0041754	.0077952	.2891290
Stddev	.0000222	.0000417	.02380	.0004901	.0001365	.0006086	.0049260
%RSD	31.53130	18.12322	.1295880	.8153278	3.267865	7.807413	1.703734
#1	.0000825	.0002730	18.39316	.0596324	.0041733	.0070925	.2947556
#2	.0000448	.0001899	18.34556	.0601019	.0040400	.0081428	.2855933
#3	.0000839	.0002267	18.36835	.0606124	.0043129	.0081504	.2870382

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0866128	5.242194	.2120112	.0011182	283.5077	.0008205	1.633759
Stddev	.0006680	.023312	.0006418	.0001625	1.2486	.0004856	.005639
%RSD	.7712434	.4446913	.3027069	14.52912	.4404245	59.17973	.3451245
#1	.0873738	5.215322	.2118263	.0010449	284.3241	.0013293	1.628502
#2	.0861235	5.254270	.2114823	.0013044	284.1287	.0003619	1.633061
#3	.0863410	5.256990	.2127252	.0010054	282.0703	.0007704	1.639714

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.995852	.3022082	.2664348	-.000020	.0003845	5.121707	.8070458
Stddev	.023359	.0007558	.0011894	.000474	.0003814	.023772	.0047850
%RSD	.2596638	.2501069	.4464170	2378.282	99.17102	.4641323	.5929005
#1	9.021563	.3030620	.2651743	.000436	.0006978	5.096856	.8073708
#2	8.990055	.3019381	.2665929	.000014	-.000040	5.144227	.8021067
#3	8.975937	.3016245	.2675373	-.000510	.000496	5.124037	.8116600

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5343-05 Acquired: 12/23/2024 14:15:52 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	3.938437	-.003559	.1600607
Stddev	.027422	.000256	.0008334
%RSD	.6962602	7.183074	.5206650
#1	3.937456	-.003791	.1610192
#2	3.911520	-.003285	.1595078
#3	3.966337	-.003602	.1596550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2595.174	58842.70	12969.62	1772.589	3938.641
Stddev	19.596	122.53	11.07	8.283	20.167
%RSD	.7550791	.2082375	.0853242	.4672632	.5120350
#1	2616.184	58978.23	12956.99	1781.107	3958.550
#2	2591.945	58739.76	12974.25	1764.563	3939.148
#3	2577.393	58810.11	12977.62	1772.098	3918.225

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02DUP Acquired: 12/23/2024 14:20:12 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.011718	-.008347	.0074466	.0056506	-.000012	.1098161	.4669687
Stddev	.001340	.001439	.0006073	.0017642	.000543	.0034497	.0021673
%RSD	11.43566	17.23469	8.155157	31.22104	4514.823	3.141304	.4641272
#1	-.010505	-.008832	.0078090	.0050258	-.000111	.1062681	.4653828
#2	-.011492	-.006729	.0067455	.0076422	-.000498	.1131582	.4660850
#3	-.013156	-.009481	.0077853	.0042839	.000574	.1100219	.4694383

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000951	.0004947	14.94674	-.000109	-.000437	.0205758	.0690715
Stddev	.0000303	.0000352	.06416	.000138	.000284	.0003316	.0071907
%RSD	31.81136	7.120503	.4292428	126.4107	64.98838	1.611546	10.41048
#1	.0001155	.0005176	14.90567	-.000065	-.000691	.0201932	.0765962
#2	.0000604	.0005124	14.91388	.000002	-.000490	.0207796	.0622694
#3	.0001095	.0004541	15.02067	-.000264	-.000130	.0207546	.0683488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1597812	4.700320	.0048660	.0007911	435.9724	.0001742	.2259666
Stddev	.0017005	.036185	.0002739	.0000671	1.4115	.0008675	.0025398
%RSD	1.064242	.7698515	5.629741	8.485375	.3237497	497.8850	1.123967
#1	.1580545	4.702935	.0046730	.0008659	434.4062	.0011284	.2249633
#2	.1598349	4.662898	.0047455	.0007713	437.1460	-.000039	.2288547
#3	.1614541	4.735127	.0051795	.0007361	436.3651	-.000567	.2240816

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.583864	.0550674	.0008898	-.000291	.0022719	1.401631	.0811355
Stddev	.033804	.0002963	.0002723	.000498	.0001311	.004402	.0017119
%RSD	1.308256	.5381292	30.59961	171.4789	5.768747	.3140919	2.109873
#1	2.622874	.0553370	.0006189	-.000768	.0022223	1.396585	.0823569
#2	2.565540	.0547501	.0008871	.000226	.0021729	1.404686	.0791788
#3	2.563180	.0551152	.0011634	-.000329	.0024205	1.403621	.0818706

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02DUP Acquired: 12/23/2024 14:20:12 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6676392	-.007121	.0921604
Stddev	.0036046	.000485	.0002981
%RSD	.5398960	6.808853	.3234695
#1	.6650394	-.007521	.0918507
#2	.6661242	-.007260	.0921852
#3	.6717540	-.006581	.0924453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2490.871	56868.22	12874.39	1706.515	3755.742
Stddev	4.774	57.47	50.10	6.103	5.751
%RSD	.1916750	.1010660	.3891548	.3576155	.1531304
#1	2485.593	56801.99	12882.57	1700.340	3749.105
#2	2494.889	56904.95	12919.90	1706.663	3758.850
#3	2492.132	56897.73	12820.70	1712.542	3759.270

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02LX5 Acquired: 12/23/2024 14:24:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.004134	-.001665	.0009627	.0010179	-.000452	.0237295	.0883178
Stddev	.002129	.000362	.0007672	.0016339	.000659	.0029554	.0004189
%RSD	51.49932	21.76532	79.69265	160.5173	145.8802	12.45464	.4743255
#1	-.005713	-.001504	.0010827	.0008597	.000276	.0253646	.0878448
#2	-.004977	-.002080	.0016628	.0027252	-.000622	.0255062	.0886420
#3	-.001713	-.001411	.0001426	-.000531	-.001008	.0203179	.0884664

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000468	.0000957	3.144629	-.000325	-.000094	.0043038	.0176648
Stddev	.0000252	.0000643	.016722	.000168	.000116	.0002352	.0048109
%RSD	53.71478	67.17370	.5317782	51.74426	123.3256	5.464219	27.23434
#1	.0000196	.0001029	3.125320	-.000385	.000034	.0045456	.0121484
#2	.0000691	.0001562	3.154364	-.000135	-.000192	.0040759	.0198561
#3	.0000518	.0000282	3.154204	-.000456	-.000125	.0042900	.0209900

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0332135	.9913499	.0010033	.0010009	83.19494	.0000604	.0447990
Stddev	.0002110	.0109136	.0004257	.0003279	.26162	.0003150	.0007047
%RSD	.6353099	1.100886	42.42840	32.76427	.3144674	521.5180	1.572913
#1	.0331080	.9787580	.0005333	.0006279	83.48941	-.000238	.0454490
#2	.0334564	.9972105	.0013629	.0012440	83.10609	.000029	.0440502
#3	.0330760	.9980813	.0011136	.0011309	82.98931	.000390	.0448979

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5658458	.0143073	.0002920	.0002307	.0008870	.2715241	.0188168
Stddev	.0367968	.0003578	.0000834	.0008111	.0002440	.0050105	.0013422
%RSD	6.502967	2.500665	28.55516	351.6331	27.51036	1.845344	7.133043
#1	.5593766	.0140480	.0002472	-.000424	.0007425	.2744348	.0192121
#2	.5327127	.0141584	.0002406	.001138	.0011688	.2657384	.0173213
#3	.6054482	.0147155	.0003882	-.000021	.0007499	.2743990	.0199169

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02LX5 Acquired: 12/23/2024 14:24:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.1326955	.0009357	.0188692
Stddev	.0006175	.0008404	.0000877
%RSD	.4653758	89.81472	.4649402
#1	.1322313	-.000034	.0187790
#2	.1324589	.001385	.0189543
#3	.1333964	.001456	.0188743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2690.360	61055.34	12816.55	1836.925	4150.894
Stddev	8.463	315.64	38.99	14.956	7.241
%RSD	.3145839	.5169808	.3041922	.8141891	.1744350
#1	2696.852	60690.89	12822.32	1819.926	4156.914
#2	2693.441	61241.04	12775.01	1848.064	4152.908
#3	2680.788	61234.09	12852.34	1842.784	4142.859

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02MS Acquired: 12/23/2024 14:28:57 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.9063952	1.950109	.9635732	2.221415	.8071919	2.091182	.5434998
Stddev	.0043892	.025819	.0015835	.004404	.0055904	.005534	.0031639
%RSD	.4842461	1.323992	.1643337	.1982433	.6925727	.2646455	.5821250
#1	.9087736	1.925180	.9638404	2.224998	.8016778	2.085107	.5398496
#2	.9013302	1.976735	.9650060	2.216499	.8070422	2.095937	.5454549
#3	.9090819	1.948410	.9618731	2.222749	.8128556	2.092501	.5451949

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1742890	.2013843	12.36243	.4270284	.2056001	.3327082	3.429838
Stddev	.0004620	.0003858	.05448	.0017055	.0004684	.0007353	.033929
%RSD	.2650983	.1915917	.4406726	.3993837	.2278299	.2209976	.9892172
#1	.1738709	.2014279	12.30138	.4276175	.2053642	.3333345	3.392212
#2	.1747850	.2017465	12.37982	.4283613	.2052966	.3318986	3.458105
#3	.1742110	.2009786	12.40609	.4251065	.2061396	.3328914	3.439196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3099900	5.369201	.5269662	.0799292	306.4134	.3001823	.3691620
Stddev	.0019089	.012643	.0007733	.0001347	1.5579	.0010247	.0010169
%RSD	.6158035	.2354810	.1467450	.1685713	.5084201	.3413504	.2754737
#1	.3077982	5.364240	.5277205	.0800547	306.0982	.2992435	.3702371
#2	.3108830	5.383572	.5270028	.0797869	308.1047	.3000280	.3682155
#3	.3112887	5.359790	.5261752	.0799461	305.0372	.3012754	.3690333

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.70046	.2817924	.4223138	.6410147	.1810601	1.824789	6.093320
Stddev	.03638	.0011806	.0009325	.0014224	.0006955	.005858	.024195
%RSD	.2655188	.4189448	.2208125	.2218973	.3841022	.3209989	.3970722
#1	13.66866	.2804398	.4217903	.6420580	.1807826	1.818180	6.066209
#2	13.69258	.2826156	.4217607	.6415916	.1818514	1.829338	6.112717
#3	13.74013	.2823217	.4233904	.6393945	.1805461	1.826849	6.101035

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02MS Acquired: 12/23/2024 14:28:57 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4815685	.2031446	.2686267
Stddev	.0037468	.0007920	.0014402
%RSD	.7780479	.3898697	.5361352
#1	.4777785	.2023211	.2669679
#2	.4852706	.2039008	.2693539
#3	.4816565	.2032119	.2695584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2565.524	58445.55	12515.58	1759.710	3863.449
Stddev	10.177	129.69	36.55	6.219	6.140
%RSD	.3966742	.2218920	.2920329	.3534018	.1589156
#1	2565.572	58565.94	12556.28	1765.596	3863.993
#2	2575.678	58308.23	12485.55	1753.205	3869.299
#3	2555.324	58462.49	12504.91	1760.328	3857.056

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02MSD Acquired: 12/23/2024 14:33:06 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.9075642	1.999891	.9772554	2.213332	.8021190	2.106433	.5478929
Stddev	.0061168	.020782	.0032901	.011146	.0035529	.008123	.0009179
%RSD	.6739839	1.039149	.3366671	.5035898	.4429354	.3856435	.1675290
#1	.9126632	2.023628	.9755106	2.226186	.8057805	2.097076	.5484744
#2	.9007820	1.991072	.9752053	2.207471	.8018909	2.110539	.5468347
#3	.9092474	1.984973	.9810504	2.206340	.7986857	2.111683	.5483695

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1778209	.2040776	12.58004	.4302778	.2071762	.3324936	3.454068
Stddev	.0007045	.0006623	.01154	.0008799	.0003555	.0008352	.017460
%RSD	.3961575	.3245356	.0917101	.2044960	.1716048	.2511962	.5054767
#1	.1770666	.2038053	12.56681	.4312467	.2068542	.3334579	3.448063
#2	.1784617	.2035947	12.58533	.4300583	.2071167	.3320020	3.440403
#3	.1779344	.2048326	12.58799	.4295285	.2075578	.3320208	3.473737

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3157259	5.482829	.5330792	.0804729	311.8794	.3034352	.3713636
Stddev	.0008990	.025829	.0015187	.0005386	1.2446	.0013849	.0007078
%RSD	.2847340	.4710800	.2848923	.6693076	.3990709	.4564081	.1905863
#1	.3148927	5.454172	.5324378	.0803035	312.6385	.3050012	.3708206
#2	.3156063	5.504312	.5319864	.0810759	310.4430	.3029327	.3721641
#3	.3166787	5.490004	.5348134	.0800394	312.5566	.3023717	.3711061

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.62920	.2868073	.4221931	.6501694	.1823009	1.804023	6.221979
Stddev	.01836	.0008386	.0007084	.0019636	.0010788	.003853	.004199
%RSD	.1347411	.2923979	.1677846	.3020100	.5917483	.2135827	.0674895
#1	13.65037	.2861759	.4229935	.6492682	.1822553	1.799676	6.219900
#2	13.61753	.2877589	.4216470	.6488182	.1812456	1.807020	6.226812
#3	13.61971	.2864872	.4219386	.6524218	.1834017	1.805372	6.219225

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02MSD Acquired: 12/23/2024 14:33:06 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4892916	.2037442	.2704756
Stddev	.0068960	.0008073	.0005721
%RSD	1.409389	.3962515	.2115186
#1	.4942893	.2045948	.2710654
#2	.4814241	.2029885	.2699230
#3	.4921615	.2036494	.2704384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.573	58211.00	12314.15	1772.376	3858.345
Stddev	3.550	53.85	24.21	10.309	7.327
%RSD	.1374035	.0925158	.1966031	.5816483	.1898918
#1	2579.474	58154.05	12338.79	1760.696	3860.254
#2	2585.570	58261.11	12290.40	1776.223	3864.527
#3	2585.674	58217.84	12313.25	1780.208	3850.252

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02A Acquired: 12/23/2024 14:37:15 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.9093993	1.970235	.9679252	2.218917	.8045117	2.101482	.5478538
Stddev	.0049248	.024244	.0054660	.000802	.0016017	.003969	.0028275
%RSD	.5415399	1.230520	.5647139	.0361654	.1990914	.1888887	.5161036
#1	.9037278	1.972479	.9646894	2.218879	.8032720	2.098339	.5482413
#2	.9125936	1.944947	.9648502	2.219738	.8063202	2.100164	.5504676
#3	.9118765	1.993280	.9742361	2.218134	.8039430	2.105943	.5448526

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1765125	.2021439	12.49006	.4284439	.2061910	.3321690	3.447355
Stddev	.0002505	.0010049	.03646	.0010086	.0006467	.0002364	.006071
%RSD	.1419174	.4971276	.2918869	.2354147	.3136403	.0711689	.1761041
#1	.1764826	.2015337	12.46615	.4275422	.2057310	.3323416	3.454361
#2	.1767767	.2015943	12.53202	.4282563	.2059116	.3322658	3.443650
#3	.1762783	.2033038	12.47201	.4295331	.2069304	.3318995	3.444053

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3142546	5.457709	.5286947	.0800542	310.1734	.3026028	.3690724
Stddev	.0014830	.018317	.0020657	.0002793	1.7860	.0003276	.0012908
%RSD	.4719215	.3356223	.3907102	.3488355	.5758100	.1082615	.3497304
#1	.3138681	5.441279	.5276317	.0798688	308.1383	.3022334	.3675889
#2	.3158926	5.477459	.5273771	.0799183	310.9014	.3027165	.3696897
#3	.3130031	5.454389	.5310754	.0803753	311.4804	.3028583	.3699386

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.64808	.2847098	.4217212	.6448197	.1822843	1.822539	6.114702
Stddev	.03694	.0014041	.0009367	.0032722	.0007114	.011689	.024046
%RSD	.2706316	.4931734	.2221198	.5074595	.3902730	.6413502	.3932426
#1	13.67431	.2862971	.4210169	.6420942	.1830952	1.809120	6.098597
#2	13.60584	.2842023	.4213625	.6439161	.1817651	1.827993	6.103167
#3	13.66409	.2836300	.4227843	.6484487	.1819926	1.830504	6.142342

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-02A Acquired: 12/23/2024 14:37:15 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4835771	.2043350	.2702981
Stddev	.0011051	.0018189	.0011463
%RSD	.2285196	.8901441	.4240883
#1	.4823377	.2059305	.2706461
#2	.4844594	.2047201	.2712301
#3	.4839343	.2023544	.2690181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.760	58456.21	12377.96	1766.524	3872.559
Stddev	6.353	58.06	30.12	5.414	6.811
%RSD	.2461628	.0993226	.2433020	.3064728	.1758818
#1	2584.896	58408.90	12363.01	1760.602	3879.991
#2	2573.445	58521.00	12358.25	1771.219	3866.615
#3	2583.939	58438.72	12412.63	1767.751	3871.071

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17 Acquired: 12/23/2024 14:41:25 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6780557	1.802131	.9328962	1.539624	.3698856	136.3845
Stddev	.0028773	.009555	.0017690	.005257	.0023757	.1564
%RSD	.4243447	.5301905	.1896244	.3414168	.6422837	.1146602
#1	.6811741	1.793714	.9333721	1.540218	.3675391	136.2430
#2	.6774892	1.812517	.9343786	1.544558	.3698282	136.3580
#3	.6755038	1.800161	.9309379	1.534096	.3722895	136.5524

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3318325	.1370483	.2297308	111.0214	.3278200	.5031647
Stddev	.0011897	.0002237	.0004959	.0477	.0011866	.0005618
%RSD	.3585091	.1632029	.2158590	.0430049	.3619641	.1116457
#1	.3304620	.1367904	.2292905	110.9940	.3272722	.5037904
#2	.3325984	.1371878	.2296340	111.0765	.3291815	.5030002
#3	.3324371	.1371669	.2302680	110.9937	.3270063	.5027036

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.353171	467.3792	3.721958	89.39191	.6410625	.0813007
Stddev	.003061	1.5089	.011940	.14985	.0004621	.0003457
%RSD	.2261777	.3228483	.3208080	.1676333	.0720854	.4252632
#1	1.355000	468.7827	3.708172	89.33339	.6405580	.0816983
#2	1.354874	465.7833	3.729028	89.56219	.6414653	.0810707
#3	1.349637	467.5716	3.728674	89.28015	.6411642	.0811332

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.36684	1.648019	.7037633	11.30813	.6950360	.3359037
Stddev	.07670	.002382	.0011049	.03182	.0022570	.0011567
%RSD	.2525798	.1445239	.1569983	.2813751	.3247235	.3443561
#1	30.27878	1.645271	.7044254	11.28893	.6976243	.3370744
#2	30.41903	1.649470	.7043766	11.34486	.6934781	.3358754
#3	30.40272	1.649318	.7024877	11.29060	.6940058	.3347615

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17 Acquired: 12/23/2024 14:41:25 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6338080	8.692808	7.804104	F 15.56147	4.931256	.2248261
Stddev	.0013381	.022346	.005794	.01416	.014484	.0008988
%RSD	.2111192	.2570641	.0742474	.0909893	.2937185	.3997866
#1	.6334755	8.667398	7.800271	15.55123	4.935885	.2238225
#2	.6326675	8.701622	7.801271	15.57763	4.915023	.2250987
#3	.6352810	8.709402	7.810769	15.55555	4.942859	.2255570

Elem	Sr4077
Units	ppm
Avg	-.000550
Stddev	.002795
%RSD	508.0217
#1	-.003641
#2	.001797
#3	.000194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3014.452	70653.83	15175.68	2106.770	3626.663
Stddev	7.133	33.52	12.23	7.376	6.982
%RSD	.2366169	.0474397	.0806220	.3501262	.1925294
#1	3007.184	70618.84	15161.88	2098.349	3623.170
#2	3021.441	70685.65	15179.96	2109.876	3634.702
#3	3014.732	70657.00	15185.19	2112.086	3622.115

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17DUP Acquired: 12/23/2024 14:45:32 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6685628	1.763014	.9187069	1.500705	.3629177	136.6090
Stddev	.0051144	.018766	.0029154	.001214	.0021550	.4249
%RSD	.7649796	1.064454	.3173351	.0808788	.5937844	.3109990
#1	.6670634	1.780593	.9153658	1.501472	.3639779	136.1527
#2	.6742593	1.743251	.9200206	1.501338	.3604381	136.9932
#3	.6643658	1.765197	.9207343	1.499306	.3643372	136.6810

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3311202	.1360752	.2267346	110.8205	.3274500	.4977662
Stddev	.0013228	.0004830	.0005849	.1741	.0011279	.0015326
%RSD	.3994834	.3549454	.2579896	.1571440	.3444387	.3078930
#1	.3297322	.1365143	.2261639	110.6552	.3287184	.4959968
#2	.3323663	.1361534	.2267070	111.0023	.3270719	.4986262
#3	.3312620	.1355578	.2273328	110.8040	.3265598	.4986757

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.331363	466.5845	3.701520	88.96392	.6320771	.0808776
Stddev	.002535	.7724	.012990	.22851	.0012448	.0002369
%RSD	.1904162	.1655422	.3509293	.2568601	.1969312	.2928502
#1	1.328566	467.1456	3.687608	88.83907	.6306928	.0806048
#2	1.332016	465.7036	3.713332	89.22766	.6324341	.0810310
#3	1.333509	466.9044	3.703619	88.82503	.6331043	.0809970

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.97136	1.650520	.7061865	11.26489	.6942646	.3330143
Stddev	.07402	.004955	.0012975	.04277	.0006252	.0003839
%RSD	.2469633	.3001983	.1837382	.3796603	.0900487	.1152931
#1	29.88594	1.645344	.7047335	11.23302	.6940868	.3331556
#2	30.01648	1.655219	.7065967	11.31350	.6937477	.3325797
#3	30.01167	1.650997	.7072294	11.24816	.6949595	.3333075

Sample Name: P5306-17DUP Acquired: 12/23/2024 14:45:32 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.6216647	8.699929	7.852018	F 15.15518	4.790597	.2235298
Stddev	.0010171	.025038	.003848	.02538	.006315	.0014404
%RSD	.1636041	.2877931	.0490053	.1674822	.1318152	.6443723
#1	.6221022	8.672252	7.856454	15.18138	4.789999	.2218671
#2	.6223899	8.721006	7.850004	15.13070	4.784603	.2243259
#3	.6205021	8.706528	7.849594	15.15346	4.797190	.2243963

Elem	Sr4077
Units	ppm
Avg	.0006906
Stddev	.0025133
%RSD	363.9277
#1	-.002004
#2	.002970
#3	.001106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3049.490	70658.21	15182.11	2079.686	3675.023
Stddev	1.690	99.09	34.51	1.924	2.176
%RSD	.0554171	.1402318	.2272941	.0925097	.0592109
#1	3049.524	70559.85	15168.63	2078.564	3675.850
#2	3047.783	70656.76	15156.39	2081.907	3672.555
#3	3051.162	70758.01	15221.33	2078.586	3676.664

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17LX5 Acquired: 12/23/2024 14:49:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.1524986	.3882438	.1933414	.3600565	.0824531	31.08621	.0697297
Stddev	.0020053	.0098928	.0008554	.0030246	.0001955	.11262	.0005252
%RSD	1.314956	2.548102	.4424291	.8400408	.2371506	.3622895	.7531682
#1	.1542100	.3957626	.1942615	.3612254	.0822689	30.95625	.0694688
#2	.1502922	.3770366	.1925702	.3566219	.0826583	31.14708	.0703343
#3	.1529936	.3919323	.1931925	.3623223	.0824321	31.15529	.0693861

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0328247	.0425486	26.25800	.0797349	.1002271	.3325448	112.8652
Stddev	.0001167	.0002744	.11253	.0004029	.0004273	.0009576	.2193
%RSD	.3553986	.6449440	.4285733	.5053399	.4263283	.2879482	.1942773
#1	.0329431	.0425802	26.14712	.0796895	.1000424	.3325598	112.8661
#2	.0328211	.0422597	26.37212	.0801586	.0999232	.3315799	113.0840
#3	.0327099	.0428058	26.25474	.0793566	.1007157	.3334948	112.6454

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8871077	20.65443	.1293897	.0197825	6.231585	.3877864	.1640672
Stddev	.0044010	.07923	.0004321	.0002712	.028962	.0009416	.0002996
%RSD	.4961101	.3836099	.3339183	1.371054	.4647538	.2428241	.1826097
#1	.8868161	20.56911	.1290457	.0200254	6.239655	.3871515	.1640574
#2	.8916473	20.72570	.1298746	.0194898	6.255655	.3888683	.1643716
#3	.8828598	20.66847	.1292489	.0198321	6.199444	.3873394	.1637726

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.571335	.1769128	.0782493	.1263252	2.033587	1.766461	3.007688
Stddev	.052178	.0011926	.0006166	.0007139	.004919	.003992	.010645
%RSD	2.029202	.6741410	.7879568	.5651391	.2418838	.2259641	.3539271
#1	2.511966	.1775056	.0781985	.1271459	2.029115	1.763597	3.014586
#2	2.592128	.1776930	.0776596	.1258471	2.038856	1.764766	2.995428
#3	2.609910	.1755400	.0788896	.1259827	2.032790	1.771020	3.013049

Sample Name: P5306-17LX5 Acquired: 12/23/2024 14:49:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.9292194	.0488491	-.005500
Stddev	.0024183	.0001819	.000204
%RSD	.2602537	.3723421	3.710378
#1	.9300562	.0487075	-.005491
#2	.9264938	.0490542	-.005300
#3	.9311082	.0487855	-.005708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2844.416	64644.40	13478.98	1927.668	4180.324
Stddev	10.089	113.47	44.70	10.997	5.270
%RSD	.3546877	.1755281	.3316441	.5704622	.1260772
#1	2847.534	64600.55	13476.40	1935.639	4185.762
#2	2852.577	64559.40	13435.63	1915.122	4179.971
#3	2833.136	64773.25	13524.92	1932.242	4175.239

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17MS Acquired: 12/23/2024 14:53:43 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.385184	3.641658	1.811778	3.206630	1.073482	138.9138
Stddev	.007361	.009518	.003046	.002386	.002305	.2756
%RSD	.5314241	.2613652	.1681276	.0744173	.2147203	.1983840
#1	1.378147	3.630670	1.808263	3.203930	1.076020	138.7328
#2	1.384573	3.647369	1.813428	3.208456	1.071519	138.7777
#3	1.392832	3.646934	1.813643	3.207504	1.072905	139.2310

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4864857	.2718531	.4102659	111.7307	.6339986	.6861742
Stddev	.0009304	.0011861	.0006437	.3935	.0019999	.0018524
%RSD	.1912390	.4363154	.1568979	.3521924	.3154472	.2699568
#1	.4856308	.2718824	.4105074	111.6361	.6340566	.6868117
#2	.4863497	.2706527	.4095364	111.3931	.6319703	.6840873
#3	.4874765	.2730244	.4107540	112.1629	.6359689	.6876237

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.571274	462.5067	3.847143	90.68533	1.102284	.1428445
Stddev	.004341	1.5588	.017441	.43211	.000933	.0006098
%RSD	.2763040	.3370247	.4533375	.4764944	.0846517	.4269094
#1	1.575618	461.3111	3.840918	90.59298	1.101638	.1423789
#2	1.566935	464.2697	3.833669	90.30686	1.101861	.1435348
#3	1.571268	461.9393	3.866842	91.15615	1.103354	.1426199

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.68836	1.875539	.8450421	20.53489	.8719782	.6830750
Stddev	.10506	.002717	.0021188	.08227	.0004893	.0014518
%RSD	.3315442	.1448883	.2507299	.4006537	.0561086	.2125398
#1	31.60407	1.873802	.8429888	20.44931	.8718605	.6844049
#2	31.80607	1.874144	.8472208	20.61340	.8725155	.6815262
#3	31.65496	1.878670	.8449167	20.54198	.8715584	.6832940

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17MS Acquired: 12/23/2024 14:53:43 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.284052	8.864222	8.643724	F 20.47001	4.797772	.3940495
Stddev	.006532	.019866	.012936	.00402	.005300	.0013230
%RSD	.5087255	.2241200	.1496630	.0196357	.1104779	.3357354
#1	1.277628	8.853214	8.629582	20.47464	4.797781	.3932005
#2	1.283839	8.852297	8.646627	20.46748	4.803068	.3955738
#3	1.290688	8.887156	8.654962	20.46790	4.792467	.3933741

Elem	Sr4077
Units	ppm
Avg	.1646834
Stddev	.0015943
%RSD	.9681081
#1	.1649042
#2	.1629902
#3	.1661558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2994.953	70414.52	14927.88	2070.750	3620.439
Stddev	5.210	80.22	48.70	3.627	3.754
%RSD	.1739515	.1139325	.3262225	.1751388	.1036837
#1	2990.200	70452.68	14908.18	2073.679	3622.892
#2	3000.523	70468.54	14983.35	2071.876	3622.308
#3	2994.135	70322.33	14892.12	2066.693	3616.118

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV04 Acquired: 12/23/2024 15:06:19 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.212520	5.277374	4.871822	5.342638	5.314485	10.03629	9.721366
Stddev	.022367	.113310	.011460	.024420	.022756	.02668	.073003
%RSD	.4291019	2.147095	.2352261	.4570799	.4281869	.2658333	.7509569
#1	5.194511	5.192631	4.861690	5.326060	5.301031	10.05630	9.747437
#2	5.205491	5.233413	4.869517	5.331174	5.301665	10.00600	9.638906
#3	5.237557	5.406077	4.884259	5.370681	5.340759	10.04657	9.777754

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2259269	2.448787	23.39792	.9983512	2.460146	1.303605	5.151923
Stddev	.0008740	.006675	.04511	.0025939	.006084	.004524	.040649
%RSD	.3868389	.2726027	.1928003	.2598227	.2473031	.3470673	.7890048
#1	.2258528	2.443718	23.40993	.9983763	2.454806	1.299410	5.198760
#2	.2250924	2.446292	23.34801	.9957448	2.458864	1.303005	5.125840
#3	.2268356	2.456350	23.43580	1.000933	2.466769	1.308399	5.131170

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.325168	23.13130	2.475837	1.246197	24.23622	2.440202	2.346349
Stddev	.007603	.13748	.003855	.002647	.24692	.007782	.006681
%RSD	.3270055	.5943359	.1556884	.2124099	1.018816	.3189056	.2847480
#1	2.330667	23.02156	2.473608	1.243776	24.49881	2.448441	2.338776
#2	2.316491	23.08683	2.473614	1.245792	24.20115	2.432977	2.348861
#3	2.328344	23.28551	2.480288	1.249024	24.00871	2.439187	2.351411

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.37729	4.513904	5.293206	4.943145	4.824996	5.352190	4.796495
Stddev	.15956	.020279	.024406	.015606	.016489	.015496	.036437
%RSD	.6049079	.4492640	.4610837	.3157164	.3417418	.2895321	.7596537
#1	26.53965	4.509090	5.274646	4.928173	4.843593	5.335285	4.776784
#2	26.37153	4.496465	5.284121	4.941946	4.812161	5.355566	4.774160
#3	26.22069	4.536158	5.320852	4.959316	4.819233	5.365721	4.838541

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV04 Acquired: 12/23/2024 15:06:19 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	4.892968	4.935283	4.946066
Stddev	.035869	.032719	.031783
%RSD	.7330698	.6629566	.6425860
#1	4.870494	4.972403	4.982717
#2	4.874076	4.922814	4.926107
#3	4.934334	4.910632	4.929373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2694.941	60650.41	12002.26	1816.945	4036.564
Stddev	4.409	30.41	26.71	8.414	6.969
%RSD	.1636165	.0501380	.2225512	.4630588	.1726385
#1	2697.588	60659.30	11999.48	1823.451	4040.478
#2	2697.384	60675.39	12030.26	1807.444	4040.696
#3	2689.851	60616.55	11977.06	1819.941	4028.518

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB04 Acquired: 12/23/2024 15:10:30 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.002136	.0006992	-.000164	.0003386	-.000699	.0057105	-.007070
Stddev	.001083	.0006754	.000772	.0027826	.000814	.0065331	.000526
%RSD	50.69546	96.60837	471.1085	821.9208	116.4661	114.4064	7.445947
#1	-.002558	.0001180	-.001010	.0025078	-.001605	.0055407	-.007424
#2	-.002944	.0014402	.000015	.0013067	-.000459	-.000736	-.006465
#3	-.000906	.0005393	.000503	-.002799	-.000032	.012327	-.007321

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000903	.0000206	.0109808	-.000412	-.000135	.0003474	.0057993
Stddev	.0000675	.0000606	.0034807	.000134	.000129	.0003563	.0036940
%RSD	74.78528	294.1931	31.69773	32.47864	95.49134	102.5488	63.69700
#1	.0000338	.0000754	.0108538	-.000323	-.000029	.0001578	.0086497
#2	.0001651	.0000310	.0145232	-.000347	-.000097	.0001260	.0071223
#3	.0000720	-.000045	.0075654	-.000566	-.000279	.0007584	.0016260

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002684	-.001383	.0001241	.0011346	.0395202	-.000012	.0001643
Stddev	.0000840	.006977	.0002335	.0001995	.0130534	.001336	.0001259
%RSD	31.27851	504.4182	188.1489	17.58581	33.02976	11385.52	76.63268
#1	.0003590	.001228	.0003864	.0013582	.0289693	-.001525	.0002824
#2	.0001933	.003912	-.000061	.0010707	.0541178	.000488	.0000318
#3	.0002529	-.009289	.000047	.0009748	.0354736	.001002	.0001789

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2108281	.0071658	.0006585	.0003173	.0014197	.0096932	.0037054
Stddev	.0355071	.0003859	.0001390	.0010964	.0002840	.0053625	.0016670
%RSD	16.84174	5.385862	21.10212	345.4982	20.00458	55.32205	44.98734
#1	.2035717	.0069546	.0007280	.0005809	.0010919	.0043452	.0037578
#2	.1795096	.0076112	.0007490	-.000887	.0015923	.0150701	.0053457
#3	.2494028	.0069314	.0004985	.001258	.0015749	.0096643	.0020129

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB04 Acquired: 12/23/2024 15:10:30 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0025376	-.003128	.0005800
Stddev	.0008471	.000201	.0001091
%RSD	33.38361	6.437791	18.80386
#1	.0016678	-.003156	.0007012
#2	.0033600	-.003315	.0005491
#3	.0025849	-.002915	.0004897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2830.099	64163.72	12695.55	1936.473	4590.825
Stddev	2.554	33.36	32.91	4.082	.256
%RSD	.0902316	.0519934	.2592214	.2108153	.0055809
#1	2827.192	64139.47	12726.68	1931.794	4590.743
#2	2831.126	64149.92	12661.11	1938.317	4591.112
#3	2831.979	64201.77	12698.85	1939.308	4590.619

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17MSD Acquired: 12/23/2024 15:14:51 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.371897	3.651956	1.833506	3.180764	1.049079	144.4549
Stddev	.001759	.019317	.003915	.001963	.001665	.4298
%RSD	.1281842	.5289577	.2135257	.0617200	.1586806	.2975082
#1	1.369868	3.669410	1.829064	3.179609	1.050804	144.2499
#2	1.372980	3.655257	1.835002	3.183031	1.047482	144.1660
#3	1.372843	3.631201	1.836452	3.179652	1.048950	144.9488

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4920004	.2771067	.4158621	115.2019	.6381064	.6965271
Stddev	.0002423	.0002715	.0006783	.1675	.0011135	.0003172
%RSD	.0492501	.0979770	.1631026	.1454346	.1745044	.0455425
#1	.4918445	.2773696	.4152227	115.2139	.6389963	.6961614
#2	.4922796	.2768274	.4165735	115.0287	.6368577	.6966924
#3	.4918772	.2771232	.4157900	115.3631	.6384652	.6967275

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590821	462.9094	3.909087	92.66793	1.114073	.1422596
Stddev	.002263	1.6798	.003968	.26735	.002199	.0005521
%RSD	.1422809	.3628749	.1015052	.2885077	.1974185	.3880590
#1	1.593197	464.6978	3.906176	92.64452	1.111579	.1425610
#2	1.590576	461.3649	3.907478	92.41305	1.115735	.1416225
#3	1.588691	462.6653	3.913606	92.94622	1.114906	.1425954

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.55385	1.914604	.8487157	20.24352	.8717033	.6780627
Stddev	.05663	.008221	.0046284	.09066	.0050801	.0013632
%RSD	.1794751	.4294039	.5453385	.4478342	.5827753	.2010382
#1	31.56889	1.912733	.8533429	20.14536	.8775550	.6796172
#2	31.60144	1.907479	.8440861	20.26110	.8684241	.6774997
#3	31.49121	1.923599	.8487180	20.32410	.8691308	.6770712

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17MSD Acquired: 12/23/2024 15:14:51 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.294382	9.194196	9.353419	F 20.85356	4.865478	.3910911
Stddev	.001540	.013647	.030725	.02347	.014369	.0017724
%RSD	.1189486	.1484292	.3284911	.1125695	.2953261	.4531858
#1	1.293525	9.182257	9.347964	20.82646	4.849195	.3891277
#2	1.296159	9.191258	9.325786	20.86784	4.870858	.3915730
#3	1.293461	9.209072	9.386506	20.86637	4.876380	.3925728

Elem	Sr4077
Units	ppm
Avg	.1733096
Stddev	.0026984
%RSD	1.556957
#1	.1701951
#2	.1747880
#3	.1749456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.788	70195.67	14678.47	2094.006	3606.307
Stddev	1.905	89.10	38.54	7.788	7.282
%RSD	.0632581	.1269338	.2625676	.3719151	.2019145
#1	3010.169	70116.80	14636.74	2085.133	3614.237
#2	3012.925	70292.32	14712.72	2099.706	3604.765
#3	3009.269	70177.88	14685.96	2097.180	3599.920

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17A Acquired: 12/23/2024 15:18:54 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.379943	3.616384	1.842951	3.202648	1.045984	151.2190
Stddev	.001710	.020159	.004616	.005552	.002802	.1871
%RSD	.1239018	.5574299	.2504869	.1733499	.2679060	.1237489
#1	1.380250	3.639640	1.844623	3.208368	1.047214	151.0142
#2	1.381478	3.603887	1.837732	3.197281	1.047962	151.2619
#3	1.378100	3.605624	1.846499	3.202296	1.042778	151.3810

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4962520	.2756976	.4185021	117.7382	.6390655	.7034697
Stddev	.0004884	.0005581	.0001861	.2498	.0025474	.0018622
%RSD	.0984219	.2024127	.0444552	.2121875	.3986156	.2647206
#1	.4963583	.2751138	.4184114	117.6690	.6361247	.7015680
#2	.4966786	.2762257	.4183787	117.5303	.6404835	.7035513
#3	.4957192	.2757532	.4187161	118.0153	.6405885	.7052898

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.596703	473.8481	3.954150	93.55312	1.121333	.1441788
Stddev	.001983	1.9512	.007220	.26050	.002029	.0006656
%RSD	.1241688	.4117875	.1826053	.2784466	.1809772	.4616718
#1	1.596675	471.7436	3.961133	93.39650	1.119080	.1435391
#2	1.594734	475.5972	3.946714	93.40903	1.123017	.1448676
#3	1.598699	474.2035	3.954604	93.85382	1.121903	.1441295

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.44660	1.942139	.8583311	20.48988	.8733545	.6811855
Stddev	.11012	.002967	.0065908	.02095	.0070350	.0004332
%RSD	.3393940	.1527557	.7678560	.1022218	.8055174	.0635912
#1	32.53407	1.941122	.8545650	20.50719	.8652425	.6815617
#2	32.48278	1.939813	.8544869	20.46660	.8777819	.6807120
#3	32.32293	1.945480	.8659413	20.49586	.8770392	.6812830

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5306-17A Acquired: 12/23/2024 15:18:54 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	1.296437	9.531856	F 10.58641	F 21.04770	4.884805	.3918579
Stddev	.002799	.008970	.02597	.07245	.006264	.0014334
%RSD	.2159216	.0941039	.2453523	.3442171	.1282242	.3657881
#1	1.295747	9.538676	10.56045	21.12973	4.891834	.3934929
#2	1.294047	9.521695	10.61240	21.02088	4.879814	.3912631
#3	1.299517	9.535197	10.58639	20.99247	4.882768	.3908177

Elem	Sr4077
Units	ppm
Avg	.1696928
Stddev	.0029354
%RSD	1.729808
#1	.1729585
#2	.1672740
#3	.1688458

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.427	70424.09	14844.23	2075.355	3598.445
Stddev	.926	38.37	14.11	8.237	3.639
%RSD	.0307907	.0544853	.0950508	.3969140	.1011308
#1	3006.565	70431.02	14836.92	2069.677	3602.287
#2	3007.308	70382.72	14860.50	2084.803	3597.998
#3	3008.406	70458.52	14835.28	2071.586	3595.051

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DUP Acquired: 12/23/2024 15:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0856871	.0349344	1.779834	-.074997	.0180589	186.4042
Stddev	.0028235	.0052634	.001210	.003932	.0016656	.3622
%RSD	3.295135	15.06639	.0679772	5.243219	9.222870	.1942893
#1	.0874914	.0410027	1.780586	-.070644	.0196556	185.9919
#2	.0824332	.0321905	1.778439	-.076056	.0181891	186.5498
#3	.0871366	.0316099	1.780479	-.078291	.0163321	186.6710

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.111020	.0187163	.0686527	36.59774	.3702134	.4258182
Stddev	.045871	.0000735	.0002809	.11785	.0005313	.0007347
%RSD	.7506301	.3925202	.4092121	.3220109	.1434980	.1725471
#1	6.083235	.0187996	.0686542	36.51915	.3708073	.4259918
#2	6.085859	.0186607	.0689329	36.54082	.3697835	.4250122
#3	6.163966	.0186885	.0683710	36.73324	.3700493	.4264506

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6943298	445.6692	F 41.21477	97.12287	.9826523	.0199327
Stddev	.0003363	1.1904	.10027	.22805	.0004532	.0004293
%RSD	.0484278	.2671134	.2432832	.2348014	.0461182	2.153832
#1	.6946258	445.3377	41.18332	97.21620	.9825240	.0196122
#2	.6943994	444.6796	41.32699	96.86296	.9822770	.0197653
#3	.6939642	446.9902	41.13399	97.28944	.9831558	.0204204

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.974201	.4874140	2.326786	25.57196	.1846114	.0026445
Stddev	.024876	.0009809	.000645	.06053	.0016072	.0004158
%RSD	.6259249	.2012466	.0277195	.2366956	.8706024	15.72193
#1	3.945908	.4881756	2.327336	25.50320	.1847183	.0027811
#2	3.984058	.4863071	2.326946	25.59544	.1829533	.0029748
#3	3.992638	.4877592	2.326076	25.61722	.1861625	.0021776

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DUP Acquired: 12/23/2024 15:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0609891	3.397927	6.402620	F 12.25703	2.341395	.7504604
Stddev	.0016874	.002894	.037554	.00614	.014592	.0024254
%RSD	2.766757	.0851663	.5865480	.0500909	.6232371	.3231855
#1	.0629260	3.394608	6.385365	12.25118	2.330424	.7481545
#2	.0598376	3.399925	6.376794	12.25648	2.335804	.7529898
#3	.0602036	3.399248	6.445701	12.26342	2.357956	.7502368

Elem	Sr4077
Units	ppm
Avg	-.161463
Stddev	.001346
%RSD	.8336292
#1	-.162340
#2	-.159913
#3	-.162137

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3458.657	80102.51	17428.04	2378.352	3630.449
Stddev	4.182	134.87	21.55	4.502	4.435
%RSD	.1209263	.1683715	.1236547	.1892795	.1221506
#1	3454.803	80030.56	17425.09	2380.482	3625.658
#2	3458.063	80258.10	17450.90	2381.392	3631.277
#3	3463.104	80018.87	17408.11	2373.180	3634.411

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01LX5 Acquired: 12/23/2024 15:27:36 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0191071	.0060548	.3896725	-.017932	.0049338	48.47154	1.601875
Stddev	.0007699	.0005414	.0001578	.000961	.0002323	.06505	.002580
%RSD	4.029243	8.941380	.0405049	5.357533	4.707717	.1341937	.1610715
#1	.0194656	.0055625	.3896716	-.018274	.0046673	48.39955	1.599407
#2	.0196323	.0059672	.3895152	-.018674	.0050408	48.48900	1.604554
#3	.0182233	.0066346	.3898308	-.016847	.0050933	48.52609	1.601664

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051614	.0090726	9.959005	.1008394	.0888176	.1994160	121.5179
Stddev	.0000157	.0000839	.002524	.0005015	.0001199	.0018382	.5049
%RSD	.3036856	.9247441	.0253487	.4972980	.1349789	.9218071	.4155344
#1	.0051764	.0089797	9.956851	.1005956	.0887248	.1985012	121.4631
#2	.0051627	.0090952	9.958382	.1014162	.0887750	.1982146	122.0480
#3	.0051451	.0091429	9.961783	.1005065	.0889529	.2015321	121.0426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.67356	25.57460	.2102842	.0065979	.9349858	.1301710	.6303924
Stddev	.04506	.05095	.0004403	.0000624	.0098648	.0020144	.0046136
%RSD	.3860046	.1992404	.2093958	.9453809	1.055072	1.547498	.7318653
#1	11.62575	25.52814	.2105385	.0065381	.9278707	.1324246	.6308506
#2	11.71524	25.62910	.2097757	.0066625	.9308396	.1295432	.6347598
#3	11.67968	25.56657	.2105383	.0065932	.9462469	.1285453	.6255667

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.293428	.0534188	.0004249	.0116600	.8974221	1.522451	2.522707
Stddev	.028050	.0007728	.0004787	.0013139	.0036432	.008827	.002102
%RSD	.4456965	1.446605	112.6819	11.26861	.4059630	.5798047	.0833148
#1	6.262301	.0533939	.0006189	.0121200	.8932302	1.528154	2.521101
#2	6.316744	.0542038	.0007761	.0126820	.8998243	1.512283	2.525086
#3	6.301239	.0526589	-.000120	.0101779	.8992118	1.526916	2.521935

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01LX5 Acquired: 12/23/2024 15:27:36 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4543984	.1884860	-.047714
Stddev	.0030822	.0006062	.000484
%RSD	.6783042	.3215942	1.013960
#1	.4558432	.1885171	-.047696
#2	.4564928	.1890760	-.048206
#3	.4508592	.1878649	-.047239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.295	66418.98	13792.77	2023.127	4064.706
Stddev	2.480	239.32	30.32	12.918	3.109
%RSD	.0854526	.3603230	.2198253	.6385090	.0764836
#1	2901.689	66310.20	13816.66	2018.080	4063.801
#2	2905.021	66253.36	13758.66	2013.495	4068.167
#3	2900.173	66693.37	13802.98	2037.807	4062.150

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MS Acquired: 12/23/2024 15:31:42 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7138541	1.899494	2.677783	1.436046	.6377798	188.7007
Stddev	.0008144	.010934	.003693	.002086	.0032167	.9610
%RSD	.1140773	.5756415	.1379001	.1452501	.5043588	.5092789
#1	.7147190	1.893533	2.673617	1.437558	.6367011	187.7820
#2	.7131021	1.892836	2.680655	1.433667	.6352411	188.6211
#3	.7137410	1.912114	2.679076	1.436914	.6413972	189.6991

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.227840	.1398574	.2583562	37.28036	.6446000	.6183758
Stddev	.041927	.0002826	.0000907	.11799	.0003869	.0008042
%RSD	.6732174	.2020879	.0351215	.3165026	.0600176	.1300529
#1	6.183755	.1395816	.2583133	37.14494	.6449923	.6175493
#2	6.267211	.1401464	.2582949	37.33510	.6445888	.6184226
#3	6.232554	.1398442	.2584605	37.36104	.6442188	.6191557

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9074452	441.6049	F 41.16145	98.97538	1.457019	.0764871
Stddev	.0022598	4.3055	.23379	.32267	.000784	.0006376
%RSD	.2490324	.9749638	.5679880	.3260119	.0537886	.8335767
#1	.9078561	441.7570	40.91669	98.60937	1.457827	.0763702
#2	.9094714	437.2254	41.38245	99.09799	1.456967	.0759160
#3	.9050081	445.8323	41.18522	99.21877	1.456262	.0771750

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.103290	.6887234	2.423770	33.13018	.3428548	.3150607
Stddev	.038767	.0022065	.000961	.08669	.0052715	.0006407
%RSD	.6351832	.3203757	.0396377	.2616640	1.537535	.2033677
#1	6.122855	.6867648	2.423961	33.17648	.3438240	.3144712
#2	6.058639	.6882913	2.424621	33.03018	.3371659	.3149682
#3	6.128376	.6911139	2.422728	33.18390	.3475745	.3157427

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MS Acquired: 12/23/2024 15:31:42 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7339304	3.525742	7.144444	F 17.71677	2.307271	.8906883
Stddev	.0020007	.007600	.031330	.04459	.012024	.0025210
%RSD	.2725999	.2155446	.4385287	.2516902	.5211278	.2830449
#1	.7327513	3.522698	7.108486	17.73259	2.307973	.8917154
#2	.7327995	3.520136	7.165865	17.66643	2.294912	.8878159
#3	.7362405	3.534391	7.158982	17.75130	2.318929	.8925337

Elem	Sr4077
Units	ppm
Avg	-.018071
Stddev	.003285
%RSD	18.17636
#1	-.018567
#2	-.014567
#3	-.021080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3430.642	79754.78	17053.83	2358.051	3611.272
Stddev	.592	46.36	26.29	4.192	1.450
%RSD	.0172432	.0581327	.1541409	.1777771	.0401552
#1	3431.116	79702.94	17083.52	2353.314	3612.921
#2	3430.831	79792.28	17033.54	2359.559	3610.700
#3	3429.979	79769.13	17044.42	2361.281	3610.196

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSD Acquired: 12/23/2024 15:36:14 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7055691	1.897646	2.654344	1.419664	.6341046	188.3594
Stddev	.0023689	.024176	.005884	.006297	.0013308	1.1067
%RSD	.3357374	1.273991	.2216876	.4435373	.2098694	.5875512
#1	.7029925	1.913099	2.647558	1.418023	.6352058	187.1385
#2	.7060624	1.869786	2.657431	1.414351	.6326258	189.2966
#3	.7076525	1.910054	2.658042	1.426619	.6344822	188.6432

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.256517	.1402511	.2572558	37.43901	.6449800	.6155466
Stddev	.048836	.0001110	.0005638	.08971	.0021490	.0018290
%RSD	.7805568	.0791227	.2191792	.2396114	.3331947	.2971397
#1	6.221445	.1401484	.2569938	37.35260	.6468837	.6143695
#2	6.312294	.1403688	.2568707	37.53169	.6426496	.6146164
#3	6.235812	.1402360	.2579030	37.43275	.6454067	.6176537

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8991579	440.1953	F 41.25648	99.20677	1.447217	.0762159
Stddev	.0005500	2.0960	.20149	.34178	.004470	.0001899
%RSD	.0611657	.4761474	.4883787	.3445136	.3089022	.2491397
#1	.8993746	439.8059	41.37897	98.82967	1.443576	.0760328
#2	.8995666	438.3214	41.02393	99.49611	1.445868	.0762030
#3	.8985326	442.4587	41.36653	99.29454	1.452207	.0764119

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.140129	.6914865	2.397296	33.20510	.3391033	.3130663
Stddev	.000225	.0029796	.005331	.06279	.0025716	.0001154
%RSD	.0036607	.4309047	.2223891	.1890997	.7583386	.0368520
#1	6.140374	.6897942	2.401194	33.20050	.3391297	.3131986
#2	6.139933	.6949269	2.391221	33.14473	.3365186	.3130144
#3	6.140079	.6897383	2.399475	33.27006	.3416615	.3129861

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSD Acquired: 12/23/2024 15:36:14 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7251512	3.632805	8.109876	F 17.64453	2.271198	.8931762
Stddev	.0019786	.011719	.026868	.09465	.008148	.0015580
%RSD	.2728584	.3225960	.3312995	.5364512	.3587588	.1744294
#1	.7259580	3.621989	8.091613	17.61090	2.272090	.8914146
#2	.7228967	3.645256	8.097289	17.57127	2.262641	.8943729
#3	.7265990	3.631170	8.140727	17.75140	2.278864	.8937411

Elem	Sr4077
Units	ppm
Avg	-.012253
Stddev	.002297
%RSD	18.74422
#1	-.012662
#2	-.009779
#3	-.014317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3450.121	79858.32	17003.36	2365.901	3634.418
Stddev	6.794	165.13	37.41	7.512	12.148
%RSD	.1969168	.2067793	.2199977	.3175186	.3342601
#1	3457.776	79741.41	17031.03	2357.229	3646.262
#2	3444.806	80047.23	16960.80	2370.410	3635.005
#3	3447.782	79786.34	17018.24	2370.065	3621.986

Sample Name: P5355-01A Acquired: 12/23/2024 15:40:45 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7337203	1.993349	2.712536	1.485728	.6570867	191.7273
Stddev	.0033733	.013306	.006052	.003585	.0042759	.5160
%RSD	.4597601	.6675246	.2231127	.2412822	.6507322	.2691407
#1	.7366457	1.983743	2.717080	1.489769	.6619380	191.9300
#2	.7344850	2.008536	2.705666	1.482930	.6554558	192.1111
#3	.7300302	1.987767	2.714861	1.484485	.6538662	191.1407

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.286622	.1449616	.2654684	37.74466	.6613591	.6284551
Stddev	.049427	.0002824	.0005663	.04962	.0014574	.0013425
%RSD	.7862312	.1948157	.2133290	.1314670	.2203702	.2136189
#1	6.308073	.1449072	.2661057	37.71528	.6610339	.6295616
#2	6.321699	.1452673	.2652766	37.80195	.6629517	.6269616
#3	6.230093	.1447104	.2650228	37.71675	.6600917	.6288420

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9118781	445.1326	F 41.51841	100.4754	1.479805	.0795232
Stddev	.0016920	1.9996	.13700	.2493	.002689	.0001873
%RSD	.1855496	.4492136	.3299632	.2481265	.1817405	.2355789
#1	.9114656	447.3993	41.44639	100.2255	1.481695	.0797224
#2	.9104305	444.3801	41.67639	100.7241	1.476726	.0794968
#3	.9137382	443.6184	41.43245	100.4766	1.480995	.0793505

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.234950	.7018568	2.406131	33.81551	.3422057	.3238781
Stddev	.030737	.0014394	.003305	.05808	.0026341	.0012270
%RSD	.4929737	.2050858	.1373622	.1717440	.7697335	.3788623
#1	6.265373	.7008921	2.409515	33.83395	.3452459	.3251409
#2	6.235566	.7035113	2.402910	33.75045	.3406061	.3238031
#3	6.203909	.7011670	2.405969	33.86213	.3407652	.3226902

Sample Name: P5355-01A Acquired: 12/23/2024 15:40:45 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.7549289	3.743868	9.482679	F 18.08639	2.317235	.9024006
Stddev	.0013443	.001266	.050163	.02644	.007412	.0020640
%RSD	.1780649	.0338167	.5289933	.1461725	.3198817	.2287174
#1	.7547438	3.743503	9.429819	18.06821	2.311621	.9047812
#2	.7536867	3.745277	9.488599	18.11672	2.325638	.9013061
#3	.7563561	3.742825	9.529619	18.07426	2.314448	.9011144

Elem	Sr4077
Units	ppm
Avg	-.012981
Stddev	.001168
%RSD	8.996854
#1	-.014315
#2	-.012485
#3	-.012142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3408.732	79081.37	16925.56	2360.353	3582.235
Stddev	9.620	42.34	35.41	2.176	7.553
%RSD	.2822272	.0535449	.2092309	.0921791	.2108453
#1	3398.680	79061.28	16911.11	2357.956	3574.213
#2	3417.853	79052.81	16899.65	2362.203	3589.210
#3	3409.663	79130.02	16965.91	2360.899	3583.283

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DUPDLX5 Acquired: 12/23/2024 15:49:45 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0188032	.0076235	.3872600	-.019882	.0037801	48.49781	1.584677
Stddev	.0020302	.0004451	.0014267	.002039	.0011458	.01851	.001703
%RSD	10.79710	5.837838	.3683981	10.25728	30.31143	.0381609	.1074612
#1	.0166173	.0079040	.3856252	-.018820	.0026794	48.47875	1.584268
#2	.0206297	.0071103	.3882531	-.022233	.0036945	48.51570	1.586547
#3	.0191625	.0078561	.3879017	-.018593	.0049662	48.49897	1.583216

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052023	.0091338	9.975456	.1014232	.0884150	.1976651	120.8268
Stddev	.0000824	.0000799	.021935	.0002200	.0002615	.0009850	.5191
%RSD	1.584712	.8743076	.2198926	.2169556	.2958250	.4982932	.4296331
#1	.0052626	.0092083	9.950198	.1016629	.0881324	.1976628	120.4111
#2	.0052358	.0090495	9.989722	.1012303	.0886486	.1986512	120.6606
#3	.0051083	.0091437	9.986449	.1013763	.0884639	.1966813	121.4086

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.66608	25.51869	.2095597	.0063140	.9898872	.1292809	.6249505
Stddev	.01282	.03140	.0002154	.0004160	.0118280	.0017678	.0020135
%RSD	.1098919	.1230399	.1027919	6.588918	1.194882	1.367397	.3221915
#1	11.65185	25.51137	.2093154	.0061519	.9766472	.1289955	.6270238
#2	11.66966	25.49160	.2096415	.0060035	.9936039	.1276732	.6230026
#3	11.67673	25.55310	.2097222	.0067867	.9994104	.1311740	.6248251

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.230391	.0485598	.0003892	.0118538	.9015329	1.589509	2.512634
Stddev	.022789	.0004276	.0000711	.0003691	.0022941	.009281	.007949
%RSD	.3657653	.8805513	18.28016	3.114103	.2544615	.5838998	.3163472
#1	6.204177	.0481079	.0003504	.0122535	.8990863	1.584708	2.503888
#2	6.245488	.0486136	.0004713	.0117823	.9036356	1.583611	2.514598
#3	6.241507	.0489580	.0003458	.0115256	.9018767	1.600207	2.519417

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01DUPDLX5 Acquired: 12/23/2024 15:49:45 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4532977	.1887408	-.047549
Stddev	.0026685	.0012086	.000588
%RSD	.5886793	.6403226	1.237664
#1	.4549837	.1874857	-.047096
#2	.4502212	.1898967	-.047336
#3	.4546883	.1888400	-.048214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2871.672	65424.95	13470.58	1984.497	4028.219
Stddev	5.802	93.43	32.33	10.342	6.351
%RSD	.2020282	.1427976	.2399953	.5211540	.1576611
#1	2865.506	65412.19	13441.12	1978.667	4026.161
#2	2872.489	65524.10	13465.46	1996.439	4035.344
#3	2877.023	65338.56	13505.16	1978.387	4023.152

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01LDLX25 Acquired: 12/23/2024 15:53:52 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0036007	.0003283	.0805486	-.004006	.0004478	10.68301	.3388738
Stddev	.0020784	.0022885	.0008763	.001846	.0010485	.01810	.0027277
%RSD	57.72246	697.0517	1.087861	46.08699	234.1683	.1694115	.8049287
#1	.0026232	.0010434	.0808689	-.001972	-.000549	10.70260	.3410481
#2	.0021913	-.002232	.0812197	-.005577	.001541	10.67953	.3397601
#3	.0059877	.002174	.0795573	-.004468	.000352	10.66691	.3358132

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012038	.0014931	2.219284	.0224405	.0178936	.0444904	26.60945
Stddev	.0000604	.0000733	.010135	.0000958	.0001016	.0002477	.09509
%RSD	5.018707	4.912743	.4566770	.4268314	.5676405	.5567220	.3573549
#1	.0012666	.0015439	2.225350	.0223726	.0178340	.0444536	26.63893
#2	.0011987	.0014090	2.224918	.0223989	.0178359	.0442631	26.68631
#3	.0011461	.0015264	2.207584	.0225500	.0180109	.0447544	26.50311

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.595334	5.593255	.0422782	.0021046	.2355216	.0276104	.1387678
Stddev	.013412	.034819	.0001262	.0002829	.0145266	.0008077	.0006167
%RSD	.5167652	.6225188	.2985623	13.44013	6.167860	2.925330	.4444091
#1	2.602166	5.621339	.0424027	.0018061	.2191976	.0283034	.1394695
#2	2.603955	5.604131	.0421503	.0023686	.2403418	.0278045	.1383122
#3	2.579882	5.554297	.0422816	.0021390	.2470254	.0267234	.1385216

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.444665	.0105358	.0000784	.0018520	.1985127	.3384557	.5016198
Stddev	.015297	.0005336	.0002159	.0005879	.0012957	.0044384	.0016899
%RSD	1.058851	5.064461	275.5186	31.74483	.6527006	1.311377	.3368885
#1	1.427530	.0100045	.0001909	.0012646	.1973368	.3347642	.4998843
#2	1.449522	.0105314	-.000171	.0018510	.1982995	.3372225	.5032601
#3	1.456944	.0110716	.000215	.0024404	.1999017	.3433803	.5017150

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01LDLX25 Acquired: 12/23/2024 15:53:52 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0879154	.0389239	-.010143
Stddev	.0032623	.0002454	.000018
%RSD	3.710698	.6304506	.1765047
#1	.0842751	.0390293	-.010123
#2	.0905745	.0390989	-.010157
#3	.0888965	.0386434	-.010150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2810.370	63582.61	12909.76	1923.093	4338.242
Stddev	3.228	64.00	51.80	3.717	6.661
%RSD	.1148636	.1006540	.4012767	.1932664	.1535336
#1	2811.820	63597.31	12876.32	1926.940	4330.749
#2	2812.618	63512.54	12883.53	1919.521	4343.491
#3	2806.671	63637.98	12969.44	1922.819	4340.487

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV05 Acquired: 12/23/2024 16:06:39 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.375618	5.082290	4.919396	5.499302	5.491012	10.27005	9.909651
Stddev	.008401	.082867	.010092	.020486	.013701	.01198	.081442
%RSD	.1562867	1.630507	.2051382	.3725204	.2495091	.1166062	.8218403
#1	5.381059	5.099251	4.917986	5.520021	5.506671	10.28307	10.00309
#2	5.365942	4.992255	4.910084	5.479057	5.485131	10.25951	9.87213
#3	5.379854	5.155365	4.930118	5.498826	5.481234	10.26756	9.85374

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2274521	2.474183	23.69466	1.007502	2.494947	1.344477	5.244169
Stddev	.0004357	.006098	.01445	.006525	.006324	.001096	.023047
%RSD	.1915795	.2464743	.0609969	.6476703	.2534750	.0815480	.4394783
#1	.2278117	2.472868	23.67834	1.009583	2.494928	1.345021	5.233847
#2	.2275771	2.468849	23.69981	1.000190	2.488633	1.345196	5.228086
#3	.2269675	2.480831	23.70584	1.012733	2.501281	1.343215	5.270572

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.357766	23.22892	2.511067	1.269764	24.98082	2.489970	2.354131
Stddev	.001488	.06905	.004647	.000951	.12391	.002686	.010647
%RSD	.0630995	.2972579	.1850707	.0749038	.4960359	.1078550	.4522771
#1	2.358208	23.14919	2.511262	1.270099	25.12192	2.493020	2.358185
#2	2.358982	23.26814	2.506325	1.268691	24.88968	2.488928	2.342052
#3	2.356107	23.26942	2.515613	1.270503	24.93087	2.487961	2.362156

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.07638	4.566373	5.396685	4.966164	4.920661	5.494860	4.864609
Stddev	.10867	.010130	.003490	.019801	.005870	.057180	.036883
%RSD	.4013434	.2218478	.0646681	.3987092	.1192881	1.040602	.7581974
#1	27.10799	4.571404	5.400471	4.965186	4.925350	5.452565	4.875267
#2	26.95540	4.573004	5.393597	4.946871	4.922556	5.472101	4.823570
#3	27.16573	4.554712	5.395987	4.986435	4.914078	5.559915	4.894989

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV05 Acquired: 12/23/2024 16:06:39 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	4.941949	5.073581	5.077684
Stddev	.026243	.008693	.020554
%RSD	.5310349	.1713475	.4047967
#1	4.953315	5.082041	5.059120
#2	4.911938	5.074030	5.074159
#3	4.960593	5.064671	5.099773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.549	60027.49	11976.69	1783.558	3969.484
Stddev	5.366	184.10	42.87	14.977	7.528
%RSD	.2041303	.3066856	.3579272	.8397447	.1896583
#1	2622.865	59883.71	11932.54	1768.041	3963.070
#2	2629.258	60234.97	11979.40	1797.930	3977.773
#3	2633.525	59963.77	12018.15	1784.704	3967.608

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB05 Acquired: 12/23/2024 16:10:50 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000615	.0000353	-.000185	.0011355	-.000102	.0030972	-.009936
Stddev	.000807	.0009852	.000694	.0006291	.000794	.0013178	.000385
%RSD	131.0984	2787.271	375.6477	55.40428	780.6899	42.54925	3.877927
#1	-.001458	-.001090	.000300	.0015835	-.000140	.0021650	-.010342
#2	-.000536	.000451	.000125	.0004163	-.000876	.0046049	-.009575
#3	.000149	.000744	-.000979	.0014067	.000711	.0025217	-.009891

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000650	-.000006	.0026142	-.000167	-.000071	.0002794	-.000962
Stddev	.0000384	.000036	.0027658	.000113	.000072	.0005733	.002728
%RSD	59.03858	655.6079	105.7960	67.49860	101.5009	205.2096	283.6600
#1	.0000688	.000023	.0010080	-.000092	-.000140	-.000264	.001628
#2	.0001013	.000006	.0058078	-.000112	.000004	.000224	-.000704
#3	.0000249	-.000046	.0010268	-.000296	-.000076	.000878	-.003809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000059	-.006320	.0000787	.0011817	.0125848	-.000573	.0000727
Stddev	.000282	.005497	.0000450	.0001675	.0234973	.001044	.0000652
%RSD	476.8072	86.98452	57.25148	14.17548	186.7123	182.1624	89.68443
#1	.000062	-.000060	.0000367	.0013592	-.007327	.000556	.0000080
#2	.000142	-.008539	.0001263	.0011596	.006580	-.000773	.0001384
#3	-.000381	-.010360	.0000730	.0010264	.038502	-.001503	.0000716

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0959957	.0060579	.0007051	.0001114	.0002070	.0087658	.0002457
Stddev	.0311060	.0001238	.0001951	.0002542	.0000930	.0028894	.0004532
%RSD	32.40347	2.043703	27.66990	228.2342	44.91583	32.96213	184.4948
#1	.0601500	.0059783	.0006805	-.000137	.0001122	.0086280	.0004258
#2	.1158924	.0059948	.0009114	.000371	.0002981	.0059477	.0005811
#3	.1119447	.0062005	.0005235	.000100	.0002108	.0117216	-.000270

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB05 Acquired: 12/23/2024 16:10:50 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000502	-.002367	-.000022
Stddev	.002898	.000458	.000013
%RSD	577.7923	19.33419	58.86629
#1	-.001102	-.002846	-.000033
#2	-.003053	-.002322	-.000008
#3	.002650	-.001934	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2745.343	63389.76	12880.59	1899.804	4474.363
Stddev	3.099	102.14	20.18	4.537	3.738
%RSD	.1128871	.1611327	.1566535	.2387955	.0835416
#1	2742.041	63345.57	12892.14	1895.989	4471.359
#2	2745.802	63317.17	12892.34	1904.820	4478.549
#3	2748.188	63506.56	12857.29	1898.603	4473.180

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSDLX5 Acquired: 12/23/2024 16:15:11 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.1835360	.4158862	.5771657	.3873618	.1676838	48.84567	1.647138
Stddev	.0019248	.0096614	.0012901	.0023484	.0023359	.08802	.002490
%RSD	1.048731	2.323089	.2235221	.6062556	1.393021	.1801954	.1511554
#1	.1829186	.4222699	.5778439	.3888957	.1667625	48.75510	1.644792
#2	.1819957	.4206177	.5756780	.3885314	.1703398	48.93089	1.646873
#3	.1856938	.4047710	.5779753	.3846582	.1659491	48.85101	1.649750

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0377511	.0491806	10.12375	.1763754	.1281816	.2543174	122.0740
Stddev	.0001406	.0000726	.01798	.0004978	.0001355	.0009643	.5254
%RSD	.3723503	.1475096	.1776447	.2822262	.1057404	.3791541	.4304266
#1	.0377122	.0491786	10.10399	.1769501	.1281965	.2548158	121.5039
#2	.0376341	.0492541	10.13915	.1760807	.1280393	.2532059	122.1793
#3	.0379070	.0491090	10.12813	.1760954	.1283091	.2549304	122.5389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.58936	25.49633	.3084873	.0217644	1.514444	.1835394	.6534737
Stddev	.02923	.10726	.0005604	.0002473	.017797	.0003329	.0009478
%RSD	.2522049	.4206855	.1816485	1.136381	1.175168	.1813965	.1450392
#1	11.55769	25.40383	.3082185	.0217906	1.497869	.1837426	.6539938
#2	11.61530	25.61391	.3081120	.0215051	1.512209	.1831552	.6540476
#3	11.59508	25.47125	.3091314	.0219976	1.533253	.1837205	.6523798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.387480	.1003273	.0840379	.1524618	.9638624	2.063116	3.589615
Stddev	.051468	.0002139	.0001671	.0005090	.0016313	.016097	.014528
%RSD	.6136234	.2132265	.1988320	.3338435	.1692411	.7802139	.4047264
#1	8.329073	.1004360	.0842264	.1521982	.9620880	2.044630	3.597118
#2	8.407182	.1000809	.0839792	.1530485	.9642021	2.070689	3.598857
#3	8.426187	.1004651	.0839081	.1521386	.9652970	2.074030	3.572869

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSDLX5 Acquired: 12/23/2024 16:15:11 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4326906	.2296706	-.010102
Stddev	.0043586	.0009747	.000511
%RSD	1.007317	.4243903	5.060994
#1	.4294928	.2285469	-.009513
#2	.4376552	.2302868	-.010430
#3	.4309238	.2301782	-.010364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2888.652	65690.21	13752.86	1975.051	4085.655
Stddev	1.847	91.50	26.68	6.003	1.552
%RSD	.0639431	.1392853	.1939798	.3039359	.0379885
#1	2890.008	65789.93	13751.50	1975.020	4087.433
#2	2886.548	65610.13	13726.88	1969.064	4084.571
#3	2889.399	65670.56	13780.19	1981.069	4084.960

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSDDLX5 Acquired: 12/23/2024 16:19:16 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.1809166	.4102732	.5726948	.3810220	.1648690	48.15463	1.631287
Stddev	.0045688	.0076663	.0012864	.0034902	.0023410	.05104	.006501
%RSD	2.525351	1.868594	.2246229	.9160099	1.419889	.1059974	.3985250
#1	.1756847	.4158613	.5718994	.3842857	.1643269	48.12326	1.631369
#2	.1829456	.4015334	.5720060	.3773426	.1674335	48.12711	1.637747
#3	.1841194	.4134250	.5741789	.3814377	.1628467	48.21353	1.624746

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0375087	.0487775	10.00241	.1745918	.1272321	.2516835	120.2108
Stddev	.0002619	.0001405	.01643	.0005658	.0001046	.0006539	.1598
%RSD	.6981911	.2881179	.1642411	.3240822	.0821867	.2598184	.1329747
#1	.0372178	.0488031	9.98398	.1750783	.1271893	.2524173	120.0273
#2	.0375825	.0486258	10.01552	.1739709	.1271557	.2514708	120.3201
#3	.0377257	.0489034	10.00772	.1747263	.1273513	.2511624	120.2850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.47662	25.17485	.3057266	.0213899	1.491928	.1816113	.6506971
Stddev	.02969	.06260	.0003892	.0002575	.013959	.0011022	.0019239
%RSD	.2587136	.2486602	.1272980	1.203724	.9356475	.6069242	.2956595
#1	11.45105	25.11389	.3052914	.0212226	1.478937	.1806386	.6494195
#2	11.50918	25.17169	.3060412	.0216864	1.506686	.1828085	.6529097
#3	11.46964	25.23897	.3058472	.0212608	1.490160	.1813866	.6497620

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.283173	.0974779	.0830553	.1506577	.9317597	1.791832	3.557702
Stddev	.006900	.0003443	.0002278	.0005832	.0025245	.006243	.019713
%RSD	.0832983	.3531813	.2743279	.3870754	.2709428	.3484019	.5540932
#1	8.290857	.0970885	.0832332	.1503294	.9305258	1.791474	3.554522
#2	8.277509	.0976034	.0831341	.1503126	.9346639	1.785776	3.539772
#3	8.281153	.0977418	.0827985	.1513310	.9300896	1.798247	3.578811

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01MSDDLX5 Acquired: 12/23/2024 16:19:16 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4266610	.2266308	-.009487
Stddev	.0033281	.0007011	.000437
%RSD	.7800358	.3093453	4.601820
#1	.4304000	.2265782	-.009256
#2	.4255603	.2273568	-.009215
#3	.4240227	.2259576	-.009991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2905.305	65867.41	13756.92	1979.731	4099.478
Stddev	5.833	73.31	17.27	4.199	3.842
%RSD	.2007743	.1113067	.1255357	.2120917	.0937314
#1	2899.697	65898.09	13775.15	1984.196	4095.174
#2	2904.878	65920.40	13740.80	1979.133	4102.563
#3	2911.340	65783.74	13754.82	1975.863	4100.699

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01ADLX5 Acquired: 12/23/2024 16:23:21 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.1830964	.4243507	.5813450	.3875290	.1653644	48.77893	1.621712
Stddev	.0015516	.0019791	.0007817	.0024776	.0019776	.05860	.007263
%RSD	.8474282	.4663702	.1344570	.6393388	1.195909	.1201356	.4478594
#1	.1813171	.4223011	.5810523	.3882211	.1632762	48.76826	1.615086
#2	.1841677	.4245004	.5807519	.3847789	.1672087	48.84213	1.629477
#3	.1838046	.4262507	.5822307	.3895869	.1656084	48.72640	1.620575

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0381330	.0494223	10.07278	.1765159	.1284895	.2547303	120.9412
Stddev	.0001431	.0002731	.02166	.0007818	.0001520	.0004362	.4811
%RSD	.3752815	.5525862	.2150619	.4428975	.1182957	.1712430	.3977747
#1	.0382973	.0492616	10.05929	.1759572	.1283460	.2546601	120.4204
#2	.0380658	.0492676	10.09777	.1761812	.1284739	.2543335	121.0342
#3	.0380358	.0497376	10.06129	.1774093	.1286488	.2551974	121.3689

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.57372	25.45808	.3097169	.0215462	1.456834	.1824975	.6559674
Stddev	.04749	.06910	.0011416	.0001451	.004801	.0022867	.0029737
%RSD	.4102862	.2714396	.3685905	.6734945	.3295641	1.253009	.4533268
#1	11.51939	25.37832	.3089855	.0214290	1.451867	.1820351	.6580261
#2	11.60731	25.49999	.3091328	.0215011	1.461450	.1849801	.6525581
#3	11.59446	25.49592	.3110323	.0217085	1.457184	.1804774	.6573180

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.258299	.0980581	.0831363	.1527325	.9457459	1.923473	3.601410
Stddev	.030122	.0003644	.0001635	.0012077	.0037196	.008927	.008771
%RSD	.3647430	.3716577	.1966732	.7907545	.3932972	.4641173	.2435549
#1	8.232201	.0984685	.0830531	.1528152	.9429962	1.913721	3.595280
#2	8.291260	.0977723	.0830312	.1538967	.9499781	1.925454	3.597492
#3	8.251435	.0979336	.0833247	.1514855	.9442633	1.931243	3.611457

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: P5355-01ADLX5 Acquired: 12/23/2024 16:23:21 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.4433578	.2275087	-.010571
Stddev	.0039178	.0008463	.000350
%RSD	.8836772	.3719804	3.309880
#1	.4468219	.2275849	-.010361
#2	.4391059	.2283143	-.010377
#3	.4441456	.2266269	-.010975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.599	65788.21	13623.63	1994.730	4063.864
Stddev	2.324	102.77	13.13	5.539	7.080
%RSD	.0805147	.1562097	.0963900	.2776671	.1742287
#1	2884.756	65840.96	13627.45	1997.421	4063.444
#2	2889.210	65853.88	13609.01	1998.409	4071.145
#3	2885.830	65669.77	13634.42	1988.360	4057.003

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: LR1 Acquired: 12/23/2024 16:27:31 Type: Unk
Method: NON EPA-6010-200.7(v2549) 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	.0004189	.1083534	-.013516	-.248959	-.012853	1851.127	.0041178
Stddev	.0020751	.0073493	.004755	.022604	.003298	10.032	.0010008
%RSD	495.3617	6.782724	35.18353	9.079363	25.66275	.5419238	24.30451
#1	-.001966	.1044007	-.012680	-.258093	-.009797	1840.235	.0052320
#2	.001412	.1168332	-.009234	-.223218	-.016349	1859.988	.0038267
#3	.001811	.1038264	-.018634	-.265568	-.012413	1853.158	.0032949

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087282	.1617458	1919.202	-.005019	.0422196	.5704173	909.0097
Stddev	.0000616	.0002065	6.030	.000936	.0008178	.0093916	5.8207
%RSD	.7052282	.1276652	.3142105	18.64146	1.937062	1.646452	.6403368
#1	.0087426	.1615088	1923.744	-.004013	.0413218	.5710048	910.7427
#2	.0087813	.1618420	1921.502	-.005181	.0424151	.5607457	913.7671
#3	.0086608	.1618866	1912.360	-.005863	.0429220	.5795014	902.5193

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.084445	1947.346	.0244192	-.014707	1922.657	.0440897	.2418941
Stddev	.000976	1.998	.0006340	.000792	6.550	.0013465	.0009886
%RSD	1.156325	.1026235	2.596409	5.387816	.3406777	3.053963	.4086730
#1	-.083589	1948.072	.0247360	-.015508	1929.674	.0449679	.2412870
#2	-.084238	1948.879	.0248324	-.013924	1921.594	.0447616	.2430348
#3	-.085508	1945.085	.0236892	-.014688	1916.704	.0425394	.2413604

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1417.297	-.003621	-.017193	.0199129	-.042403	.1212643	.0971414
Stddev	.514	.011343	.000746	.0015890	.000593	.0117252	.0144671
%RSD	.0362688	313.2699	4.340706	7.979878	1.398282	9.669148	14.89278
#1	1417.870	.004305	-.016333	.0211377	-.041754	.1112689	.1138178
#2	1416.876	.001446	-.017575	.0181174	-.042917	.1183532	.0896516
#3	1417.146	-.016614	-.017672	.0204838	-.042538	.1341709	.0879548

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: LR1 Acquired: 12/23/2024 16:27:31 Type: Unk
Method: NON EPA-6010-200.7(v2549) 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	-.213967	-.316093	-.897518
Stddev	.015647	.000811	.005786
%RSD	7.312827	.2566558	.6446402
#1	-.213398	-.316048	-.899326
#2	-.229891	-.316926	-.902184
#3	-.198612	-.315305	-.891044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1579.676	37941.15	9861.666	1082.295	2159.505
Stddev	4.899	50.41	25.857	6.266	5.209
%RSD	.3101213	.1328560	.2621963	.5789249	.2412054
#1	1579.323	37888.10	9891.075	1075.120	2163.480
#2	1584.742	37946.94	9842.500	1086.686	2161.427
#3	1574.963	37988.41	9851.422	1085.080	2153.608

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: LR2 Acquired: 12/23/2024 16:32:28 Type: Unk
Method: NON EPA-6010-200.7(v2549) 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	.0062920	-.018243	240.9870	.0110972	-.004063	.2764579
Stddev	.0027202	.001376	.7781	.0020918	.001761	.1213782
%RSD	43.23258	7.541724	.3228824	18.85010	43.34871	43.90479
#1	.0092724	-.017266	241.6296	.0127551	-.004182	.4100812
#2	.0056604	-.017647	241.2094	.0117895	-.005762	.2462698
#3	.0039431	-.019816	240.1218	.0087470	-.002245	.1730226

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	-.002031	-.007692	.6832963	.0159006	-.038092
Stddev	-----	.000006	.000090	.1574849	.0001453	.000221
%RSD	-----	.2853818	1.170394	23.04783	.9139358	.5812839
#1	^ -----	-.002037	-.007591	.8556923	.0157350	-.038142
#2	^ -----	-.002026	-.007763	.6472103	.0160069	-.038284
#3	^ -----	-.002029	-.007722	.5469862	.0159600	-.037850

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 311.5135	.1267931	41.70397	.2516574	48.54567	.0047339
Stddev	.9160	.0680376	.16081	.1562188	.15666	.0002468
%RSD	.2940604	53.66032	.3855908	62.07598	.3227029	5.214323
#1	312.1669	.2006890	41.69375	.4249911	48.68333	.0044502
#2	310.4664	.1129460	41.86964	.2082441	48.57847	.0048992
#3	311.9072	.0667442	41.54851	.1217369	48.37521	.0048524

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6666898	-.014932	F 22.08494	.5267514	.0013773	-.006849
Stddev	.1329476	.001338	.11465	.0992419	.0001531	.000459
%RSD	19.94144	8.959667	.5191235	18.84036	11.11867	6.706864
#1	.8119736	-.014206	22.21712	.6370624	.0015369	-.006758
#2	.6369958	-.016475	22.01245	.4984765	.0013633	-.007347
#3	.5511001	-.014113	22.02525	.4447153	.0012316	-.006442

Sample Name: LR2 Acquired: 12/23/2024 16:32:28 Type: Unk
Method: NON EPA-6010-200.7(v2549) 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	-.005238	-.044516	.0037816	1.262692	-.028130	-.001121
Stddev	.000435	.000419	.0014562	.013700	.003364	.000443
%RSD	8.309155	.9414391	38.50802	1.085007	11.95958	39.52328
#1	-.005679	-.044360	.0032129	1.250219	-.024281	-.001564
#2	-.005227	-.044197	.0026955	1.260502	-.030507	-.001123
#3	-.004808	-.044991	.0054363	1.277356	-.029603	-.000677

Elem	Sr4077
Units	ppm
Avg	.0019534
Stddev	.0000608
%RSD	3.112360
#1	.0018839
#2	.0019799
#3	.0019965

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2331.551	61298.63	12946.51	1751.527	4059.418
Stddev	14.024	24.14	51.91	.303	13.884
%RSD	.6015038	.0393867	.4009542	.0173134	.3420316
#1	2342.204	61272.04	12949.34	1751.330	4074.112
#2	2336.786	61319.19	12893.25	1751.375	4057.627
#3	2315.662	61304.65	12996.96	1751.876	4046.517

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165733TB Acquired: 12/23/2024 16:36:34 Type: Unk
Method: NON EPA-6010-200.7(v2550) 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	-.006474	-.005393	.0081410	.0041655	-.000165	.0924088
Stddev	.001706	.001236	.0034181	.0006620	.001239	.0188868
%RSD	26.35693	22.92412	41.98604	15.89363	749.2844	20.43827
#1	-.004879	-.005830	.0079261	.0046211	.000298	.1139124
#2	-.008273	-.003998	.0048354	.0044693	-.001570	.0848041
#3	-.006270	-.006352	.0116614	.0034061	.000776	.0785098

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032703	-.000044	-.000194	.0899460	.0007693	-.000309
Stddev	.0049980	.000020	.000033	.0131262	.0000463	.000104
%RSD	152.8278	44.07726	16.84705	14.59345	6.022849	33.52664
#1	.0088753	-.000067	-.000228	.1034682	.0007455	-.000224
#2	.0016584	-.000031	-.000163	.0891143	.0007396	-.000279
#3	-.000723	-.000035	-.000190	.0772553	.0008226	-.000425

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091732	.0831049	.0095849	.0556820	.0024885	.0009868
Stddev	.0039157	.0159079	.0025518	.0177935	.0008932	.0001486
%RSD	42.68607	19.14190	26.62327	31.95550	35.89070	15.05719
#1	.0071664	.1012689	.0124478	.0762245	.0022561	.0008361
#2	.0066677	.0763920	.0087571	.0450719	.0017346	.0009911
#3	.0136855	.0716539	.0075498	.0457498	.0034749	.0011332

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 284.6169	.0000975	.0053611	.2008492	-.000201	.0001104
Stddev	.7862	.0008906	.0005314	.0380550	.000310	.0001398
%RSD	.2762460	913.7667	9.912729	18.94705	154.5320	126.5659
#1	283.8231	.0000106	.0059440	.2436237	-.000508	.0001792
#2	285.3954	.0010283	.0049035	.1881760	.000113	-.000050
#3	284.6323	-.000746	.0052359	.1707477	-.000207	.000202

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: PB165733TB Acquired: 12/23/2024 16:36:34 Type: Unk
Method: NON EPA-6010-200.7(v2550) 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	.0009794	.0010627	.0384117	.0115053	F .0643750	-.006451
Stddev	.0008112	.0002572	.0027677	.0022583	.0047629	.000548
%RSD	82.82363	24.20258	7.205277	19.62811	7.398663	8.487316
#1	.0000893	.0011314	.0356529	.0102272	.0669999	-.006113
#2	.0011719	.0012785	.0383941	.0141128	.0672480	-.006158
#3	.0016770	.0007781	.0411882	.0101760	.0588772	-.007083

Elem	Sr4077
Units	ppm
Avg	-.000053
Stddev	.000014
%RSD	26.22311
#1	-.000070
#2	-.000044
#3	-.000046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2538.318	56997.76	12311.29	1739.026	3835.844
Stddev	5.096	22.00	92.82	1.232	4.020
%RSD	.2007775	.0385943	.7539229	.0708597	.1047914
#1	2534.394	56978.30	12405.55	1737.663	3833.688
#2	2544.078	56993.35	12308.33	1740.060	3840.481
#3	2536.481	57021.63	12219.99	1739.356	3833.362

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV06 Acquired: 12/23/2024 16:54:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.354328	5.270296	5.025637	5.462373	5.440392	10.33987	10.06312
Stddev	.009707	.056495	.005802	.015435	.013749	.03524	.04201
%RSD	.1812911	1.071960	.1154531	.2825700	.2527214	.3408512	.4175094
#1	5.345559	5.292699	5.029011	5.448836	5.428944	10.30030	10.02662
#2	5.352667	5.312155	5.018937	5.459101	5.436589	10.35143	10.10905
#3	5.364758	5.206035	5.028963	5.479181	5.455642	10.36788	10.05368

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2425152	2.537690	24.53011	1.036304	2.541297	1.346081	5.221849
Stddev	.0005977	.004959	.06947	.005455	.004380	.001554	.005597
%RSD	.2464495	.1954116	.2832121	.5263497	.1723706	.1154157	.1071869
#1	.2422168	2.537838	24.45409	1.033487	2.540885	1.344304	5.217314
#2	.2421255	2.532659	24.54597	1.032834	2.537137	1.347182	5.220130
#3	.2432033	2.542573	24.59029	1.042591	2.545868	1.346757	5.228105

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.431776	24.17160	2.557230	1.282194	24.73932	2.536180	2.338966
Stddev	.004791	.06031	.004995	.005416	.08989	.004209	.008885
%RSD	.1970000	.2495130	.1953359	.4224372	.3633506	.1659592	.3798836
#1	2.429878	24.12876	2.558445	1.281662	24.82029	2.531344	2.335560
#2	2.437225	24.14546	2.551739	1.277062	24.75507	2.538182	2.332286
#3	2.428225	24.24057	2.561505	1.287856	24.64259	2.539014	2.349050

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.55279	4.773409	5.406974	5.077435	5.006414	5.360837	4.975482
Stddev	.04590	.007248	.006723	.007780	.006692	.040362	.001979
%RSD	.1728512	.1518316	.1243356	.1532278	.1336715	.7529117	.0397682
#1	26.52078	4.768302	5.399339	5.084662	5.000290	5.321726	4.973512
#2	26.53220	4.770221	5.409575	5.069200	5.013557	5.358441	4.977469
#3	26.60537	4.781704	5.412008	5.078442	5.005395	5.402344	4.975464

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCV06 Acquired: 12/23/2024 16:54:37 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	5.033577	5.009135	5.124944
Stddev	.004347	.009106	.048428
%RSD	.0863599	.1817931	.9449390
#1	5.038578	5.005611	5.079168
#2	5.030701	5.019476	5.175647
#3	5.031452	5.002317	5.120018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2649.975	59134.60	11359.96	1821.181	3954.612
Stddev	4.441	201.39	4.86	5.737	6.920
%RSD	.1675830	.3405677	.0427992	.3150283	.1749928
#1	2653.965	59157.86	11365.57	1827.511	3956.158
#2	2650.769	59323.36	11357.00	1819.707	3960.628
#3	2645.190	58922.60	11357.30	1816.324	3947.049

Sample Name: CCB06 Acquired: 12/23/2024 16:58:48 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	.0001387	-.000472	-.000341	.0002891	-.001627	.0056701	-.006458
Stddev	.0025497	.000848	.000422	.0019770	.001346	.0025154	.000289
%RSD	1838.535	179.6179	123.5002	683.7423	82.74577	44.36202	4.481471
#1	.0009838	-.000884	-.000407	.0025558	-.001683	.0041087	-.006754
#2	-.002726	.000503	.000109	-.001079	-.002944	.0043297	-.006176
#3	.002159	-.001036	-.000727	-.000609	-.000254	.0085718	-.006445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000471	.0000839	.0099015	-.000220	-.000059	-.000072	.0019901
Stddev	.0000516	.0000831	.0024546	.000230	.000119	.000628	.0017406
%RSD	109.6538	98.97254	24.79016	104.8752	202.7760	877.4744	87.46711
#1	-.000004	.0001517	.0104640	-.000247	.000005	-.000361	.0022929
#2	.000099	-.000009	.0072145	.000023	-.000197	.000649	.0035594
#3	.000046	.000109	.0120260	-.000435	.000015	-.000503	.0001179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000878	-.001030	.0001744	.0010677	.0796915	.0010087	-.000186
Stddev	.0000645	.004212	.0003125	.0002993	.0241840	.0007761	.000154
%RSD	73.46958	408.9925	179.1883	28.02911	30.34699	76.93914	82.87223
#1	.0001599	.001368	.0005330	.0013291	.0560129	.0002282	-.000030
#2	.0000355	.001436	.0000297	.0011327	.0787105	.0017803	-.000189
#3	.0000681	-.005893	-.000040	.0007413	.1043510	.0010175	-.000337

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1361565	.0060899	.0006950	-.000181	.0011218	.0083085	-.001546
Stddev	.0124392	.0001505	.0002797	.000313	.0000607	.0032109	.001056
%RSD	9.135925	2.470727	40.24244	173.5168	5.411908	38.64663	68.30619
#1	.1218838	.0061487	.0009820	.000128	.0011779	.0110762	-.002693
#2	.1418961	.0062021	.0004232	-.000171	.0011302	.0090612	-.000616
#3	.1446895	.0059189	.0006799	-.000499	.0010574	.0047880	-.001328

Reviewed By:kareem
On:12/27/2024
11:00:25 AM
Inst Id :P4
LB :LB134066

Sample Name: CCB06 Acquired: 12/23/2024 16:58:48 Type: Unk
Method: NON EPA-6010-200.7(v2459) 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	-.000545	-.003664	.0004225
Stddev	.002150	.000835	.0001164
%RSD	394.2080	22.78604	27.54295
#1	.000836	-.003370	.0005322
#2	.000550	-.003017	.0004347
#3	-.003022	-.004607	.0003005

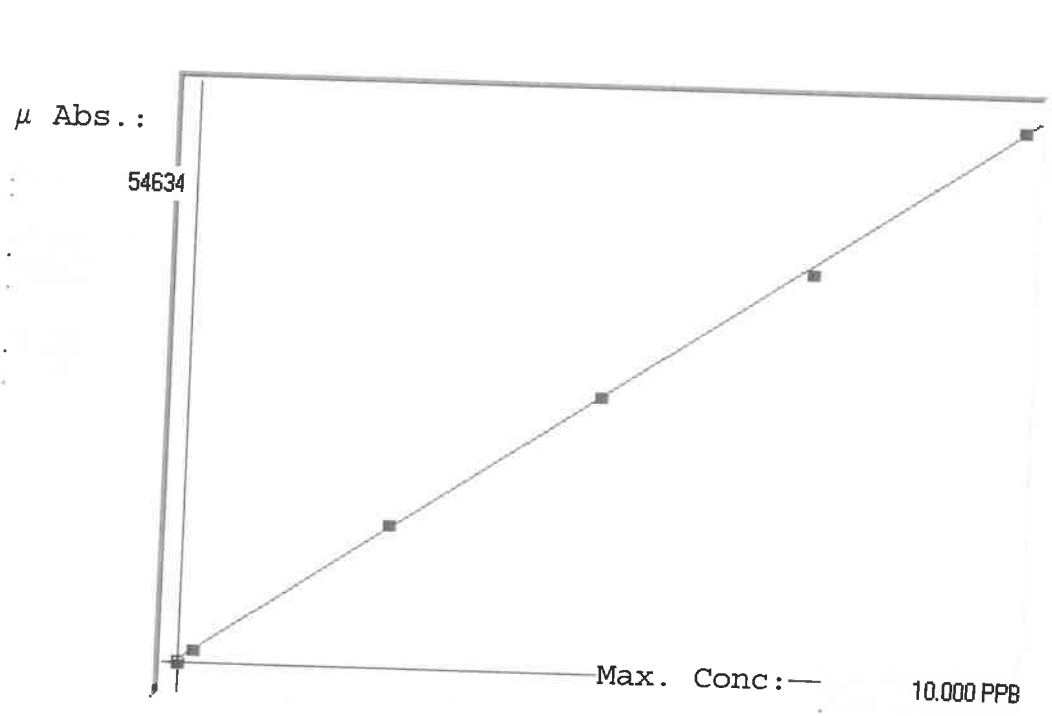
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2816.552	62766.96	12145.25	1943.606	4532.700
Stddev	.494	82.66	22.92	9.387	7.122
%RSD	.0175531	.1316910	.1887267	.4829428	.1571277
#1	2817.084	62671.54	12118.99	1932.858	4524.881
#2	2816.106	62816.59	12161.19	1947.765	4534.404
#3	2816.467	62812.75	12155.58	1950.195	4538.816

Reviewed By:mohan
On:12/20/2024 9:49:50 PM
Inst Id :CV1
LB :LB134050

LB134050

7471B

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	0/0
0.0	0.000	-0.035	-0.035	95	0.000	95					1
0.2	0.200	0.198	-0.002	1356	0.0 %	1356					1
2.5	2.500	2.570	0.070	14180	0.0 %	14180					3
5.0	5.000	5.034	0.034	27500	0.0 %	27500					1
7.5	7.500	7.379	-0.121	40177	0.0 %	40177					2
10.0	10.000	10.053	0.053	54634	0.0 %	54634					1

Reviewed By:mohan
On:12/20/2024 9:49:50 PM
Inst Id :CV1
LB :LB134050

LB134050 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 20 Dec 2024 13:55:55

Sample ID	Extended ID	µAbs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	95	-	0.00007471B		PPB	20 Dec 2024 13:58:41	S	Std
0.2 - 1	S0-2	1356	-	0.20007471B		PPB	20 Dec 2024 14:00:58	S	Std
2.5 - 1	S2.5	14180	-	2.50007471B		PPB	20 Dec 2024 14:03:15	S	Std
5.0 - 1	S5	27500	-	5.00007471B		PPB	20 Dec 2024 14:05:31	S	Std
7.5 - 1	S7.5	40177	-	7.50007471B		PPB	20 Dec 2024 14:07:50	S	Std
10.0 - 1	S10	54634	-	10.00007471B		PPB	20 Dec 2024 14:10:09	S	Std
ICV28 - 1	ICV28	21957	4.0089		7471B	PPB	20 Dec 2024 14:13:22	U	SMPL
ICB28 - 1	ICB28	-52	-0.0624		7471B	PPB	20 Dec 2024 14:15:37	U	SMPL
CCV57 - 1	CCV57	27568	5.0468		7471B	PPB	20 Dec 2024 14:17:54	U	SMPL
CCB57 - 1	CCB57	-85	-0.0685		7471B	PPB	20 Dec 2024 14:20:10	U	SMPL
CRA - 1	CRA	1337	0.1945		7471B	PPB	20 Dec 2024 14:22:29	U	SMPL
HighStd - 1	HighStd	55443	10.2031		7471B	PPB	20 Dec 2024 14:24:44	U	SMPL
ChkStd - 1	ChkStd	36455	6.6907		7471B	PPB	20 Dec 2024 14:26:59	U	SMPL
PB165798BL - 1	PBS	-237	-0.0966		7471B	PPB	20 Dec 2024 14:29:23	U	SMPL
PB165798BS - 1	LCSS	23496	4.2935		7471B	PPB	20 Dec 2024 14:31:46	U	SMPL
P5316-01 - 1	TT-304-IDWSO-20241217-1	13	-0.0504		7471B	PPB	20 Dec 2024 14:34:02	U	SMPL
P5339-01 - 1	TR-06-12182024	1565	0.2367		7471B	PPB	20 Dec 2024 14:36:21	U	SMPL
P5355-01 - 1	RBR251688	5629	0.9885		7471B	PPB	20 Dec 2024 14:38:38	U	SMPL
P5362-01 - 1	WC-SOIL-20241219	2794	0.4641		7471B	PPB	20 Dec 2024 14:40:56	U	SMPL
CCV58 - 1	CCV58	26905	4.9241		7471B	PPB	20 Dec 2024 14:43:13	U	SMPL
CCB58 - 1	CCB58	-113	-0.0737		7471B	PPB	20 Dec 2024 14:45:28	U	SMPL
P5365-01 - 1	TAPFTA-SB01I-4.5-121924-00-T1	912	0.1159		7471B	PPB	20 Dec 2024 14:47:47	U	SMPL
P5365-01DUP - 1	TAPFTA-SB01I-4.5-121924-00-T1DUP	922	0.1178		7471B	PPB	20 Dec 2024 14:50:02	U	SMPL
P5365-01MS - 1	TAPFTA-SB01I-4.5-121924-00-T1MS	22381	4.0873		7471B	PPB	20 Dec 2024 14:52:18	U	SMPL
P5365-01MSD - 1	TAPFTA-SB01I-4.5-121924-00-T1MSD	23970	4.3812		7471B	PPB	20 Dec 2024 14:54:34	U	SMPL
P5365-01LX5 - 1		-200	-0.0898		7471B	PPB	20 Dec 2024 14:56:53	U	SMPL
P5365-01A - 1		23305	4.2582		7471B	PPB	20 Dec 2024 14:59:12	U	SMPL
CCV59 - 1	CCV59	26801	4.9049		7471B	PPB	20 Dec 2024 15:01:28	U	SMPL
CCB59 - 1	CCB59	-76	-0.0668		7471B	PPB	20 Dec 2024 15:03:48	U	SMPL

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165786

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOC K #2 2. N/A

Start Digest Date: 12/20/2024 **Time :** 10:45 **Temp :** 96 °C

End Digest Date: 12/20/2024 **Time :** 12:50 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 2

Dig Technician Signature: SLG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
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#2 CELL #33 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/20/24 13:50	SLG. met digestion	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165786

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Pr Pc
P5316-01	TT-304-IDWSO-20241217-1	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	1
P5337-01	ETGI-357	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	2
P5339-01	TR-06-12182024	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	3
P5355-01	RBR251688	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	4
P5355-01MS	RBR251688MS	N/A	2.17	100	Brown	Yellow	Medium	N/A	M6000,M6009	6
P5355-01MSD	RBR251688MSD	N/A	2.30	100	Brown	Yellow	Medium	N/A	M6000,M6009	7
P5355-01DUP	RBR251688DUP	N/A	2.43	100	Brown	Yellow	Medium	N/A	N/A	5
PB165786BL	PBS786	N/A	2.26	100	Colorless	Colorless	Fine	N/A	N/A	8
PB165786BS	LCS786	N/A	2.26	100	Colorless	Colorless	Fine	N/A	M6000,M6009	9

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165786 **WorkList ID :** 186525 **Department :** Digestion **Date :** 12-20-2024 09:39:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5316-01	TT-304-IDWSO-20241217-1	Solid	Metals ICP-Group1	Cool 4 deg C	TETR06		12/17/2024	6010D
P5337-01	ETGI-357	Solid	Metals Group3	Cool 4 deg C	PSEG03	N11	12/18/2024	6010D
P5339-01	TR-06-12182024	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG05	N12	12/18/2024	6010D
P5355-01	RBR251688	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	N13	12/19/2024	6010D

Date/Time 12/20/24 10:15
Raw Sample Received by: sla.met digestion
Raw Sample Relinquished by: cf

Date/Time 12/20/24 11:15
Raw Sample Received by: cf
Raw Sample Relinquished by: sla.met.digestion

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB165798

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 12/20/2024 **Time :** 10:15 **Temp :** 94 °C

End Digest Date: 12/20/2024 **Time :** 10:45 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83736
CCV	30mL	MP83738
CRA	30mL	MP83740
Blank Spike	0.48mL	MP83729
Matrix Spike	0.48mL	MP83729

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP83742
KMnO4 (5%)	4.5mL	MP83692
Hydroxylamine HCL (12%)	2.0mL	MP83694
PTFE Boiling Stones	----------	M4583
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	MP83730
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83731
2.5 ppb	S2.5	30mL	MP83732
5.0 ppb	S5.0	30mL	MP83733
7.5 ppb	S7.5	30mL	MP83734
10.0 ppb	S10.0	30mL	MP83735
ICV	ICV	30mL	MP83736
ICB	ICB	30mL	MP83737
CCV	CCV	30mL	MP83738
CCB	CCB	30mL	MP83739
CRI	CRI	30mL	MP83740
CHK STD	CHK STD	30mL	MP83741

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/20/24 11:57	MB - Dig - Lab	MB - Hood Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB165798

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P5316-01	TT-304-IDWSO-20241217-1	0.59	35	NA	N/A	3-1
P5339-01	TR-06-12182024	0.50	35	NA	N/A	2
P5355-01	RBR251688	0.54	35	NA	N/A	3
P5362-01	WC-SOIL-20241219	0.59	35	NA	N/A	4
P5365-01	TAPFTA-SB01I-4.5-121924-00-T1	0.59	35	NA	N/A	5
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-T1DUP	0.58	35	NA	N/A	6
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-T1MS	0.54	35	NA	MP83729	7
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-T1MSD	0.56	35	NA	MP83729	8
PB165798BL	PBS798	0.54	35	NA	N/A	9
PB165798BS	LCS798	0.57	35	NA	MP83729	10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 122024_7471 **WorkList ID :** 186532 **Department :** Digestion **Date :** 12-20-2024 09:25:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5362-01	WC-SOIL-20241219	Solid	Mercury	Cool 4 deg C	PARS02	N21	12/19/2024	7471B
P5316-01	TT-304-IDWSO-20241217-1	Solid	Mercury	Cool 4 deg C	TETR06		12/17/2024	7471B
P5365-01	TAPFTA-SB01I-4.5-121924-00-T1	Solid	Mercury	Cool 4 deg C	WEST04	N21	12/19/2024	7471B
P5355-01	RBR251688	Solid	Mercury	Cool 4 deg C	PSEG03	N13	12/19/2024	7471B
P5339-01	TR-06-12182024	Solid	Mercury	Cool 4 deg C	PSEG05	N12	12/18/2024	7471B

Date/Time 12/20/24 @ 9:50

Raw Sample Received by: MG - NIA - Lab

Raw Sample Relinquished by: MG - NIA Lab

Date/Time 12/20/24 @ 10:35

Raw Sample Received by: MG - NIA - Lab

Raw Sample Relinquished by: MG - NIA - Lab

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/19/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 12/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133993

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5316-01	TT-304-IDWSO-20241217-1	1	1.15	8.64	9.79	7.08	68.6	
P5316-02	TT-304-IDWSO-20241217-2	2	1.19	8.62	9.81	7.6	74.4	
P5316-03	TT-304-IDWSO-20241217-3	3	1.16	8.82	9.98	8.11	78.8	
P5316-04	TT-304-IDWSO-20241217-4	4	1.16	8.58	9.74	7.36	72.3	
P5321-01	SS055P-SD06-121324-00	5	1.16	8.61	9.77	7.14	69.5	
P5321-02	SS050P-SD21-121324-00	6	1.13	8.85	9.98	8.23	80.2	
P5321-03	SS050P-SD22-121724-00	7	1.18	8.77	9.95	8.25	80.6	
P5321-04	SS050P-SD20-121724-00	8	1.14	8.82	9.96	6.56	61.5	
P5330-01	TP-5	9	1.17	8.54	9.71	9.33	95.6	
P5330-02	TP-5-EPH	10	1.11	8.78	9.89	9.5	95.6	
P5330-03	TP-5-VOC	11	1.19	8.61	9.8	9.44	95.8	
P5337-01	ETGI-357	24	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P5338-01	USED-OIL-DEBRIS	25	1.00	1.00	2.00	2.00	100.0	oily-debris
P5338-02	USED-MOBILE-TRANSFORMER-OIL	26	1.00	1.00	2.00	2.00	100.0	oil sample
P5339-01	TR-06-12182024	27	1.16	8.77	9.93	8.74	86.4	
P5339-02	TR-06-12182024-E2	28	1.17	8.82	9.99	9.19	90.9	
P5341-02	STORMWATER-SOLID-COMP	12	1.15	8.81	9.96	5.91	54.0	sludge sample
P5342-01	CHRT26634	13	1.14	8.40	9.54	7.05	70.4	
P5342-02	CHRT26634-E2	14	1.16	8.75	9.91	7.00	66.7	
P5342-03	HT2651	15	1.16	8.75	9.91	8.91	88.6	
P5342-04	HT2651-E2	16	1.19	8.50	9.69	8.82	89.8	
P5342-05	RB21198	17	1.17	8.80	9.97	8.09	78.6	
P5342-06	RB21198-E2	18	1.12	8.87	9.99	7.66	73.7	
P5343-01	VNJ210	19	1.14	8.63	9.77	8.08	80.4	
P5343-02	VNJ210-E2	20	1.15	8.81	9.96	8.9	88.0	
P5343-03	VNJ281	21	1.17	8.53	9.7	8.55	86.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/19/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 12/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133993

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5343-04	VNJ281-E2	22	1.13	8.72	9.85	8.83	88.3	
P5343-05	OILY-RAGS-274	23	1.14	8.58	9.72	9.22	94.2	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 133993

WorkList Name : %1-121824 **WorkList ID :** 186438 **Department :** Wet-Chemistry **Date :** 12-18-2024 12:12:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5316-01	TT-304-IDWSO-20241217-1	Solid	Percent Solids	Cool 4 deg C	TETR06	L51	12/17/2024	Chemtech -SO
P5316-02	TT-304-IDWSO-20241217-2	Solid	Percent Solids	Cool 4 deg C	TETR06	L51	12/17/2024	Chemtech -SO
P5316-03	TT-304-IDWSO-20241217-3	Solid	Percent Solids	Cool 4 deg C	TETR06	L51	12/17/2024	Chemtech -SO
P5316-04	TT-304-IDWSO-20241217-4	Solid	Percent Solids	Cool 4 deg C	TETR06	L51	12/17/2024	Chemtech -SO
P5321-01	SS055P-SD06-121324-00	Solid	Percent Solids	Cool 4 deg C	TETR06	L51	12/17/2024	Chemtech -SO
P5321-02	SS050P-SD21-121324-00	Solid	Percent Solids	Cool 4 deg C	WEST04	L41	12/13/2024	Chemtech -SO
P5321-03	SS050P-SD22-121724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	L41	12/13/2024	Chemtech -SO
P5321-04	SS050P-SD20-121724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	L41	12/17/2024	Chemtech -SO
P5330-01	TP-5	Solid	Percent Solids	Cool 4 deg C	WEST04	L41	12/17/2024	Chemtech -SO
P5330-02	TP-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/18/2024	Chemtech -SO
P5330-03	TP-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/18/2024	Chemtech -SO
P5337-01	ETGI-357	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	12/18/2024	Chemtech -SO
P5338-01	USED-OIL-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	12/18/2024	Chemtech -SO
P5338-02	USED-MOBILE-TRANSFORME	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	12/18/2024	Chemtech -SO
P5339-01	TR-06-12182024	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	12/18/2024	Chemtech -SO
P5339-02	TR-06-12182024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N12	12/18/2024	Chemtech -SO
P5341-02	STORMWATER-SOLID-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG05	N12	12/18/2024	Chemtech -SO
P5342-01	CHRT26634	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5342-02	CHRT26634-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5342-03	HT2651	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5342-04	HT2651-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO

Date/Time 12-18-24 16:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 12-18-24 17:40

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

VB 133993

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-121824 **WorkList ID :** 186438 **Department :** Wet-Chemistry **Date :** 12-18-2024 12:12:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5342-05	RB21198	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5342-06	RB21198-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5343-01	VNJ210	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5343-02	VNJ210-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5343-03	VNJ281	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5343-04	VNJ281-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO
P5343-05	OILY-RAGS-274	Solid	Percent Solids	Cool 4 deg C	PSEG03	N12	12/18/2024	Chemtech -SO

Date/Time 12-18-24 16:30

Raw Sample Received by: SB WC

Raw Sample Relinquished by: CP SM

Date/Time 12-18-24 17:40

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SB WC

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 # LB134050

Review By	jaswal	Review On	12/20/2024 9:49:17 PM
Supervise By	mohan	Supervise On	12/20/2024 9:49:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP83730,MP83731,MP83732,MP83733,MP83734,MP83735
ICV Standard	MP83736
CCV Standard	MP83738
ICSA Standard	
CRI Standard	MP83740
LCS Standard	
Chk Standard	MP83737,MP83739,MP83741,MP83743

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/20/24 13:58		Mohan	OK
2	S0.2	S0.2	CAL2	12/20/24 14:00		Mohan	OK
3	S2.5	S2.5	CAL3	12/20/24 14:03		Mohan	OK
4	S5	S5	CAL4	12/20/24 14:05		Mohan	OK
5	S7.5	S7.5	CAL5	12/20/24 14:07		Mohan	OK
6	S10	S10	CAL6	12/20/24 14:10		Mohan	OK
7	ICV28	ICV28	ICV	12/20/24 14:13		Mohan	OK
8	ICB28	ICB28	ICB	12/20/24 14:15		Mohan	OK
9	CCV57	CCV57	CCV	12/20/24 14:17		Mohan	OK
10	CCB57	CCB57	CCB	12/20/24 14:20		Mohan	OK
11	CRA	CRA	CRDL	12/20/24 14:22		Mohan	OK
12	HighStd	HighStd	HIGH STD	12/20/24 14:24		Mohan	OK
13	ChkStd	ChkStd	SAM	12/20/24 14:26		Mohan	OK
14	PB165798BL	PB165798BL	MB	12/20/24 14:29		Mohan	OK
15	PB165798BS	PB165798BS	LCS	12/20/24 14:31		Mohan	OK
16	P5316-01	TT-304-IDWSO-2024	SAM	12/20/24 14:34		Mohan	OK
17	P5339-01	TR-06-12182024	SAM	12/20/24 14:36		Mohan	OK
18	P5355-01	RBR251688	SAM	12/20/24 14:38		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 # LB134050

Review By	jaswal	Review On	12/20/2024 9:49:17 PM
Supervise By	mohan	Supervise On	12/20/2024 9:49:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP83730,MP83731,MP83732,MP83733,MP83734,MP83735
ICV Standard	MP83736
CCV Standard	MP83738
ICSA Standard	
CRI Standard	MP83740
LCS Standard	
Chk Standard	MP83737,MP83739,MP83741,MP83743

19	P5362-01	WC-SOIL-20241219	SAM	12/20/24 14:40		Mohan	OK
20	CCV58	CCV58	CCV	12/20/24 14:43		Mohan	OK
21	CCB58	CCB58	CCB	12/20/24 14:45		Mohan	OK
22	P5365-01	TAPFTA-SB01I-4.5-12	SAM	12/20/24 14:47		Mohan	OK
23	P5365-01DUP	TAPFTA-SB01I-4.5-12	DUP	12/20/24 14:50		Mohan	OK
24	P5365-01MS	TAPFTA-SB01I-4.5-12	MS	12/20/24 14:52		Mohan	OK
25	P5365-01MSD	TAPFTA-SB01I-4.5-12	MSD	12/20/24 14:54		Mohan	OK
26	P5365-01L	TAPFTA-SB01I-4.5-12	SD	12/20/24 14:56		Mohan	OK
27	P5365-01A	TAPFTA-SB01I-4.5-12	PS	12/20/24 14:59		Mohan	OK
28	CCV59	CCV59	CCV	12/20/24 15:01		Mohan	OK
29	CCB59	CCB59	CCB	12/20/24 15:03		Mohan	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 # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/20/24 15:41		Kareem	OK
2	S1	S1	CAL2	12/20/24 15:46		Kareem	OK
3	S2	S2	CAL3	12/20/24 15:50		Kareem	OK
4	S3	S3	CAL4	12/20/24 15:54		Kareem	OK
5	S4	S4	CAL5	12/20/24 15:58		Kareem	OK
6	S5	S5	CAL6	12/20/24 16:03		Kareem	OK
7	ICV01	ICV01	ICV	12/20/24 16:07	ICV fail for Ba,Mg,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	12/20/24 16:11		Kareem	OK
9	ICB01	ICB01	ICB	12/20/24 16:21		Kareem	OK
10	CRI01	CRI01	CRDL	12/20/24 16:26		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/20/24 16:30		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/20/24 16:34		Kareem	OK
13	ICSADL	ICSADL	ICSA	12/20/24 16:38		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	12/20/24 16:43		Kareem	OK
15	CCV01	CCV01	CCV	12/20/24 16:47		Kareem	OK
16	CCB01	CCB01	CCB	12/20/24 16:51		Kareem	OK
17	P5312-01	SOIL-VNJ-222	SAM	12/20/24 16:55		Kareem	OK
18	P5343-01	VNJ210	SAM	12/20/24 17:00		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

19	P5316-01	TT-304-IDWSO-2024	SAM	12/20/24 17:04		Kareem	OK
20	P5343-03	VNJ281	SAM	12/20/24 17:08		Kareem	OK
21	P5312-03	CONCRETE-VNJ-222	SAM	12/20/24 17:12		Kareem	OK
22	P5279-02	ROCKAWAY-PARK	SAM	12/20/24 17:16		Kareem	OK
23	P5192-02	EFF-WASTE WATER	SAM	12/20/24 17:21		Kareem	OK
24	P5327-01	12175-12176-12177-1	SAM	12/20/24 17:25		Kareem	OK
25	CCV02	CCV02	CCV	12/20/24 17:29		Kareem	OK
26	CCB02	CCB02	CCB	12/20/24 17:34		Kareem	OK
27	PB165738BL	PB165738BL	MB	12/20/24 17:38		Kareem	OK
28	PB165738BS	PB165738BS	LCS	12/20/24 17:42	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
29	PB165754BL	PB165754BL	MB	12/20/24 17:46		Kareem	OK
30	PB165754BS	PB165754BS	LCS	12/20/24 17:51	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
31	PB165720BL	PB165720BL	MB	12/20/24 17:55		Kareem	OK
32	PB165720BS	PB165720BS	LCS	12/20/24 17:59	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
33	PB165679TB	PB165679TB	MB	12/20/24 18:03		Kareem	OK
34	PB165680TB	PB165680TB	MB	12/20/24 18:08		Kareem	OK
35	CCV03	CCV03	CCV	12/20/24 18:12		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

36	CCB03	CCB03	CCB	12/20/24 18:16		Kareem	OK
37	P5341-01	STORMWATER-AQ-C	SAM	12/20/24 18:21		Kareem	OK
38	P5341-03RE	TOTE-425RE	SAM	12/20/24 18:25	NOT USE	Kareem	Not Ok
39	P5343-06	PUMP-WATER-271	SAM	12/20/24 18:29		Kareem	OK
40	P5291-13RE	WC-20241213RE	SAM	12/20/24 18:33	NOT USE	Kareem	Not Ok
41	P5299-01	SB-01	SAM	12/20/24 18:38		Kareem	OK
42	P5327-01DUP	12175-12176-12177-1	DUP	12/20/24 18:42		Kareem	OK
43	P5327-01L	12175-12176-12177-1	SD	12/20/24 18:46		Kareem	OK
44	P5327-01MS	12175-12176-12177-1	MS	12/20/24 18:50	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
45	P5327-01MSD	12175-12176-12177-1	MSD	12/20/24 18:54	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
46	P5327-01A	12175-12176-12177-1	PS	12/20/24 18:58	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
47	CCV04	CCV04	CCV	12/20/24 19:02		Kareem	OK
48	CCB04	CCB04	CCB	12/20/24 19:11		Kareem	OK
49	P5343-06L	PUMP-WATER-271L	SD	12/20/24 19:16		Kareem	OK
50	P5343-06DUP	PUMP-WATER-271DU	DUP	12/20/24 19:20		Kareem	OK
51	P5343-06MS	PUMP-WATER-271MS	MS	12/20/24 19:24	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

52	P5343-06MSD	PUMP-WATER-271MS	MSD	12/20/24 19:28	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
53	P5343-06A	PUMP-WATER-271A	PS	12/20/24 19:32	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
54	P5291-13DUP	WC-20241213DUP	DUP	12/20/24 19:37		Kareem	OK
55	P5291-13L	WC-20241213L	SD	12/20/24 19:41		Kareem	OK
56	P5291-13MS	WC-20241213MS	MS	12/20/24 19:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
57	P5291-13MSD	WC-20241213MSD	MSD	12/20/24 19:49	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
58	P5291-13A	WC-20241213A	PS	12/20/24 19:53	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
59	CCV05	CCV05	CCV	12/20/24 19:57		Kareem	OK
60	CCB05	CCB05	CCB	12/20/24 20:01		Kareem	OK
61	P5299-02	SB-02	SAM	12/20/24 20:06		Kareem	OK
62	P5299-03	SB-01	SAM	12/20/24 20:10		Kareem	OK
63	P5299-04	SB-02	SAM	12/20/24 20:14		Kareem	OK
64	P5299-04DUP	SB-02DUP	DUP	12/20/24 20:18		Kareem	OK
65	P5299-04L	SB-02L	SD	12/20/24 20:22		Kareem	OK
66	P5299-04MS	SB-02MS	MS	12/20/24 20:26	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE 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 # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

67	P5299-04MSD	SB-02MSD	MSD	12/20/24 20:30	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
68	P5299-04A	SB-02A	PS	12/20/24 20:34	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
69	PB165722BL	PB165722BL	MB	12/20/24 20:38		Kareem	OK
70	PB165722BS	PB165722BS	LCS	12/20/24 20:43	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
71	CCV06	CCV06	CCV	12/20/24 20:47		Kareem	OK
72	CCB06	CCB06	CCB	12/20/24 20:51		Kareem	OK
73	P5330-01	TP-5	SAM	12/20/24 20:55		Kareem	OK
74	P5342-01	CHRT26634	SAM	12/20/24 20:59		Kareem	OK
75	P5342-03	HT2651	SAM	12/20/24 21:04		Kareem	OK
76	P5342-05	RB21198	SAM	12/20/24 21:08		Kareem	OK
77	P5343-03DUP	VNJ281DUP	DUP	12/20/24 21:12		Kareem	OK
78	P5343-03L	VNJ281L	SD	12/20/24 21:16		Kareem	OK
79	P5343-03MSD	VNJ281MSD	MSD	12/20/24 21:24	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
80	P5343-03A	VNJ281A	PS	12/20/24 21:28	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
81	PB165753BL	PB165753BL	MB	12/20/24 21:32		Kareem	OK
82	CCV07	CCV07	CCV	12/20/24 21:37		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

83	CCB07	CCB07	CCB	12/20/24 22:04		Kareem	OK
84	PB165753BS	PB165753BS	LCS	12/20/24 22:08	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
85	P5337-01	ETGI-357	SAM	12/20/24 22:12		Kareem	OK
86	P5339-01	TR-06-12182024	SAM	12/20/24 22:17		Kareem	OK
87	P5355-01	RBR251688	SAM	12/20/24 22:21	MS/MSD fail for more than parameters	Kareem	Not Ok
88	P5355-01DUP	RBR251688DUP	DUP	12/20/24 22:25	MS/MSD fail for more than parameters	Kareem	Not Ok
89	P5355-01L	RBR251688L	SD	12/20/24 22:29	MS/MSD fail for more than parameters	Kareem	Not Ok
90	P5355-01MS	RBR251688MS	MS	12/20/24 22:33	MS/MSD fail for more than parameters	Kareem	Not Ok
91	P5355-01MSD	RBR251688MSD	MSD	12/20/24 22:38	MS/MSD fail for more than parameters	Kareem	Not Ok
92	P5355-01A	RBR251688A	PS	12/20/24 22:42	MS/MSD fail for more than parameters	Kareem	Not Ok
93	PB165786BL	PB165786BL	MB	12/20/24 22:46		Kareem	OK
94	CCV08	CCV08	CCV	12/20/24 23:01		Kareem	OK
95	CCB08	CCB08	CCB	12/20/24 23:12		Kareem	OK
96	PB165786BS	PB165786BS	LCS	12/20/24 23:17	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
97	P5341-03	TOTE-425	SAM	12/20/24 23:21		Kareem	OK
98	P5291-13	WC-20241213	SAM	12/20/24 23:25		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134054

Review By	jaswal	Review On	12/25/2024 1:47:05 AM
Supervise By	kareem	Supervise On	12/27/2024 10:17:53 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83513,MP83514

99	LR1	LR1	HIGH STD	12/20/24 23:29		Kareem	OK
100	LR2	LR2	HIGH STD	12/20/24 23:41		Kareem	OK
101	P5343-03MS	VNJ281MS	MS	12/20/24 23:46	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
102	CCV09	CCV09	CCV	12/20/24 23:55		Kareem	OK
103	CCB09	CCB09	CCB	12/21/24 00:05		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134066

Review By	mohan	Review On	12/26/2024 10:44:26 PM
Supervise By	kareem	Supervise On	12/27/2024 11:00:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83565,MP83566

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/23/24 10:51		Kareem	OK
2	S1	S1	CAL2	12/23/24 10:56		Kareem	OK
3	S2	S2	CAL3	12/23/24 11:00		Kareem	OK
4	S3	S3	CAL4	12/23/24 11:04		Kareem	OK
5	S4	S4	CAL5	12/23/24 11:09		Kareem	OK
6	S5	S5	CAL6	12/23/24 11:13		Kareem	OK
7	ICV01	ICV01	ICV	12/23/24 11:17		Kareem	OK
8	LLICV01	LLICV01	LLICV	12/23/24 11:37		Kareem	OK
9	ICB01	ICB01	ICB	12/23/24 11:44		Kareem	OK
10	CRI01	CRI01	CRDL	12/23/24 11:51		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/23/24 11:55		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/23/24 12:06		Kareem	OK
13	ICSADL	ICSADL	ICSA	12/23/24 12:10		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	12/23/24 12:14		Kareem	OK
15	CCV01	CCV01	CCV	12/23/24 12:31		Kareem	OK
16	CCB01	CCB01	CCB	12/23/24 12:35		Kareem	OK
17	PB165789BL	PB165789BL	MB	12/23/24 12:51		Kareem	OK
18	PB165789BS	PB165789BS	LCS	12/23/24 12:55	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134066

Review By	mohan	Review On	12/26/2024 10:44:26 PM
Supervise By	kareem	Supervise On	12/27/2024 11:00:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83565,MP83566

19	PB165659BL	PB165659BL	MB	12/23/24 12:59		Kareem	OK
20	PB165659BS	PB165659BS	LCS	12/23/24 13:03	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
21	P5330-04	TP-5	SAM	12/23/24 13:08		Kareem	OK
22	P5337-03	ETGI-357	SAM	12/23/24 13:12		Kareem	OK
23	P5338-01	USED-OIL-DEBRIS	SAM	12/23/24 13:16		Kareem	OK
24	P5338-02	USED-MOBILE-TRAN	SAM	12/23/24 13:21		Kareem	OK
25	P5341-02	STORMWATER-SOLI	SAM	12/23/24 13:25		Kareem	OK
26	P5355-02	RBR251688	SAM	12/23/24 13:39		Kareem	OK
27	CCV02	CCV02	CCV	12/23/24 13:43		Kareem	OK
28	CCB02	CCB02	CCB	12/23/24 13:47		Kareem	OK
29	P5355-01	RBR251688	SAM	12/23/24 13:52		Kareem	OK
30	P5355-01DL	RBR251688DL	SAM	12/23/24 13:58	NOT USE	Kareem	Not Ok
31	CCV03	CCV03	CCV	12/23/24 14:07		Kareem	OK
32	CCB03	CCB03	CCB	12/23/24 14:11		Kareem	OK
33	P5343-05	OILY-RAGS-274	SAM	12/23/24 14:15		Kareem	OK
34	P5355-02DUP	RBR251688DUP	DUP	12/23/24 14:20		Kareem	OK
35	P5355-02L	RBR251688L	SD	12/23/24 14:24		Kareem	OK
36	P5355-02MS	RBR251688MS	MS	12/23/24 14:28	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134066

Review By	mohan	Review On	12/26/2024 10:44:26 PM
Supervise By	kareem	Supervise On	12/27/2024 11:00:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83565,MP83566

37	P5355-02MSD	RBR251688MSD	MSD	12/23/24 14:33	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
38	P5355-02A	RBR251688A	PS	12/23/24 14:37	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
39	P5306-17	OU4-VSL-06R-12122	SAM	12/23/24 14:41		Kareem	OK
40	P5306-17DUP	OU4-VSL-06R-12122	DUP	12/23/24 14:45		Kareem	OK
41	P5306-17L	OU4-VSL-06R-12122	SD	12/23/24 14:49		Kareem	OK
42	P5306-17MS	OU4-VSL-06R-12122	MS	12/23/24 14:53	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
43	CCV04	CCV04	CCV	12/23/24 15:06		Kareem	OK
44	CCB04	CCB04	CCB	12/23/24 15:10		Kareem	OK
45	P5306-17MSD	OU4-VSL-06R-12122	MSD	12/23/24 15:14	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
46	P5306-17A	OU4-VSL-06R-12122	PS	12/23/24 15:18	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
47	P5355-01DUP	RBR251688DUP	DUP	12/23/24 15:22		Kareem	OK
48	P5355-01L	RBR251688L	SD	12/23/24 15:27		Kareem	OK
49	P5355-01MS	RBR251688MS	MS	12/23/24 15:31	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P5355-01MSD	RBR251688MSD	MSD	12/23/24 15:36	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134066

Review By	mohan	Review On	12/26/2024 10:44:26 PM
Supervise By	kareem	Supervise On	12/27/2024 11:00:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83565,MP83566

51	P5355-01A	RBR251688A	PS	12/23/24 15:40	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
52	P5355-01DUPDL	RBR251688DUPDL	DUP	12/23/24 15:49	NOT USE	Kareem	Not Ok
53	P5355-01LDL	RBR251688LDL	SD	12/23/24 15:53	NOT USE	Kareem	Not Ok
54	CCV05	CCV05	CCV	12/23/24 16:06		Kareem	OK
55	CCB05	CCB05	CCB	12/23/24 16:10		Kareem	OK
56	P5355-01MSDL	RBR251688MSDL	MS	12/23/24 16:15	NOT USE	Kareem	Not Ok
57	P5355-01MSDDL	RBR251688MSDDL	MSD	12/23/24 16:19	NOT USE	Kareem	Not Ok
58	P5355-01ADL	RBR251688ADL	PS	12/23/24 16:23	NOT USE	Kareem	Not Ok
59	LR1	LR1	HIGH STD	12/23/24 16:27		Kareem	OK
60	LR2	LR2	HIGH STD	12/23/24 16:32		Kareem	OK
61	PB165733TB	PB165733TB	MB	12/23/24 16:36		Kareem	OK
62	CCV06	CCV06	CCV	12/23/24 16:54		Kareem	OK
63	CCB06	CCB06	CCB	12/23/24 16:58		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : P5316

Test : Mercury,Metals ICP-Group1

Prepbatch ID : PB165786,PB165798,

Sequence ID/Qc Batch ID: LB134050,LB134054,LB134054,LB134054,LB134066,

Standard ID :
MP83498,MP83500,MP83513,MP83514,MP83552,MP83553,MP83554,MP83555,MP83556,MP83557,MP83558,MP83559,MP83560,MP83561,MP83562,MP83565,MP83566,MP83729,MP83730,MP83731,MP83732,MP83733,MP83734,MP83735,MP83736,MP83737,MP83738,MP83739,MP83740,MP83741,MP83743,

Chemical ID :
M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5393,M5429,M5466,M5467,M5497,M5515,M5585,M5658,M5697,M5698,M5747,M5748,M5768,M5798,M5799,M5800,M5801,M5802,M5806,M5814,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5882,M5953,M5959,M5962,M5970,M5978,M5982,M5985,M6000,M6009,M6021,M6023,M6028,M6030,M6033,M6121,M6125,M6126,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83498	12/09/2024	01/03/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83514	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 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
514	CAL BLK (S0/ICB/CCB)	MP83552	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = 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)	MP83553	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5467 + 5.00000ml of M5802 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M5982 + 455.00000ml of MP83500 = 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	MP83554	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 50.00000ml of MP83500 + 50.00000ml of MP83553 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP83555	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 25.00000ml of MP83553 + 75.00000ml of MP83500 = 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	MP83556	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 16.00000ml of MP83553 + 184.00000ml of MP83500 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP83557	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 0.00600ml of M5816 + 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M5978 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5497 + 1.00000ml of M5768 + 1.00000ml of M5806 + 2.00000ml of M5818 + 77.68000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP83558	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 2.00000ml of MP83557 + 98.00000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP83559	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5466 + 0.25000ml of M5218 + 0.25000ml of M5982 + 10.00000ml of M5295 + 89.77500ml of MP83500 = 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	MP83560	12/06/2024	12/28/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP83561	12/06/2024	12/28/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5296 + 0.10000ml of M5970 + 0.10000ml of M5982 + 10.00000ml of M5130 + 10.00000ml of M5223 + 79.50000ml of MP83500 = 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
911	ICP AES CCV SOLN	MP83562	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 50.00000ml of MP83500 + 50.00000ml of MP83553 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83565	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = 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
903	ICP AES RINSE SOLN	MP83566	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/11/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83729	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = 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
1340	Hg 0.00 PPB STD	MP83730	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83731	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83729 = 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
1342	Hg 2.5 PPB STD	MP83732	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP83729 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP83733	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83729 = 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
1344	Hg 7.5 PPB STD	MP83734	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP83729 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP83735	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83729 = 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
1346	Hg ICV SOLUTION	MP83736	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83737	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 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
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83738	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP83729 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83739	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP83740	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83729 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP83741	12/20/2024	12/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/20/2024

FROM 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP83729 = 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
68	STANNOUS CHLORIDE SOLUTION	MP83743	12/20/2024	12/21/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/20/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = 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 #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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	12/28/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5130

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	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

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 #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	12/28/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5223

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

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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	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

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 #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

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	10/12/2022 / bin	09/19/2022 / bin	M5393

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	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

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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.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	02/28/2025	01/20/2024 / jaswal	06/12/2023 / jaswal	M5585

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

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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.	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.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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.	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

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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.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

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	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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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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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

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.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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

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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	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/30/2026	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6000

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	03/17/2028	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6009

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

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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.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

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

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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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

R 8/15/24

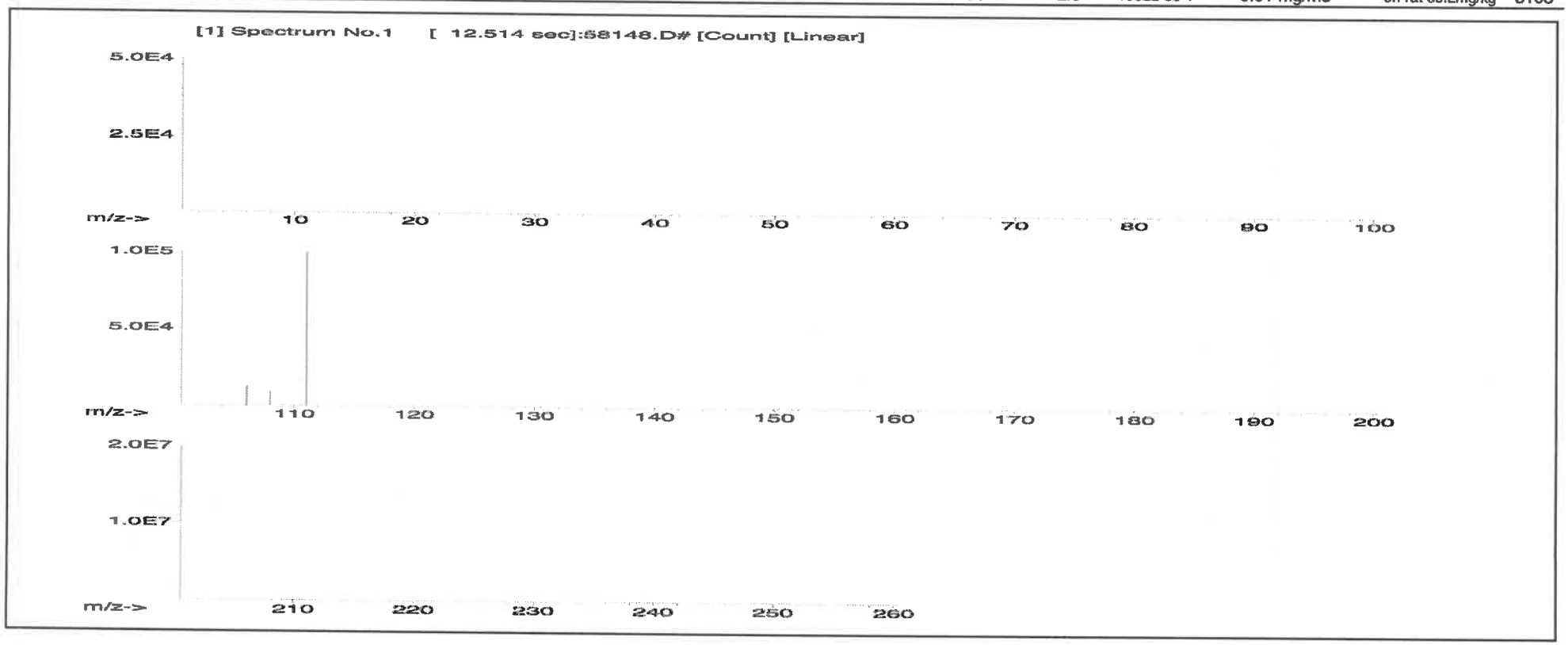
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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
Pedro Rentas		
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



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Certified Reference Material CRM

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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	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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Christiansburg, VA 24073 USA
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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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Christiansburg, VA 24073 USA
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Calcium, Ca	5 000 ± 22 µg/mL
Chromium, Cr	200.0 ± 1.0 µg/mL	Cobalt, Co	500.0 ± 2.4 µg/mL
Copper, Cu	250.0 ± 1.0 µg/mL	Iron, Fe	1 000 ± 4 µg/mL
Magnesium, Mg	5 000 ± 20 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Potassium, K	5 000 ± 19 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 18 µg/mL
Vanadium, V	499.7 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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 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

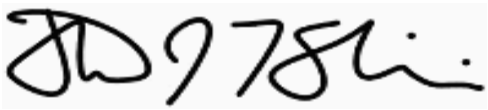
- Sealed TCT Bag Open Date: _____

- 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

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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

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u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

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- 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

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- 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.

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- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

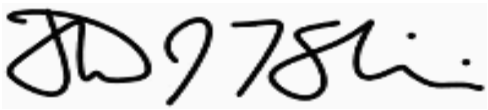
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

RD:05/14/2024

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
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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
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X_a = mean of Assay Method A with

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- 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.

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- 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

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
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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



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M5062
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte 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

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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



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.

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

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

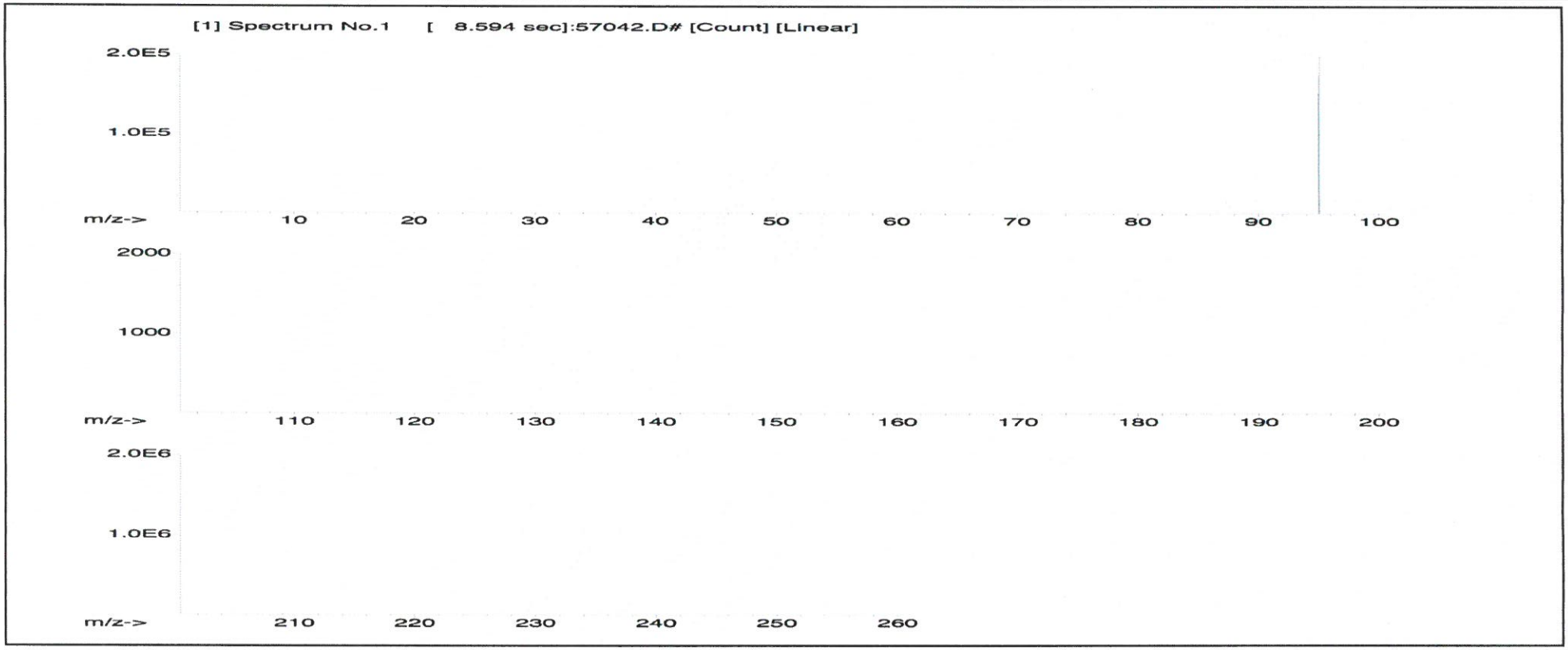
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By: Lawrence Barry 051722

Reviewed By: Pedro L. Rentas 051722

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	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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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	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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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



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.

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

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

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.

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Certified Reference Material CRM

M5288 R: 07/21/2022

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

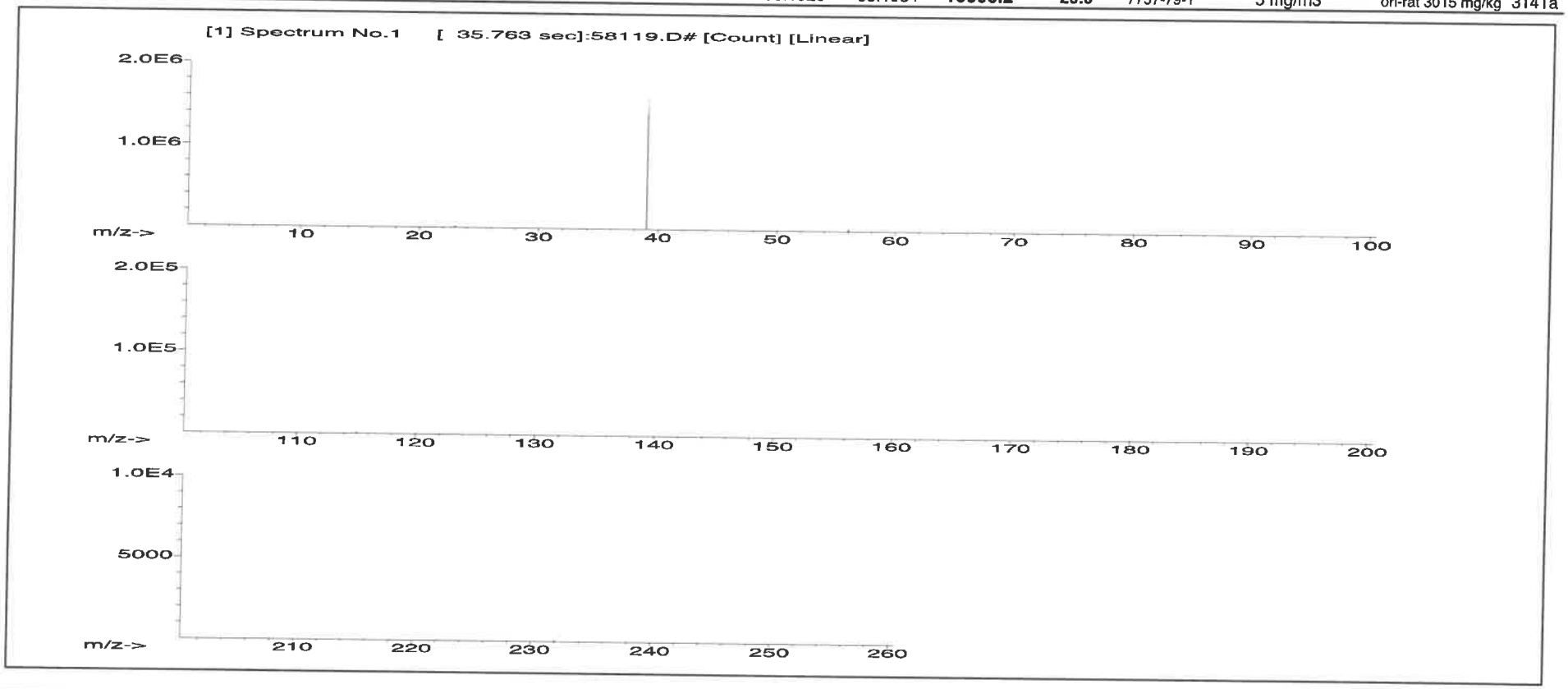
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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



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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	<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).

Part # **58119** Lot # **071122**

Printed: 8/2/2022, 11:20:01 PM

R : 4/20/21

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.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(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

Absolute Standards, Inc.
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R: 09/08/22 (BA)

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M5387 . M5389 . M5390 . M5391 . M5392

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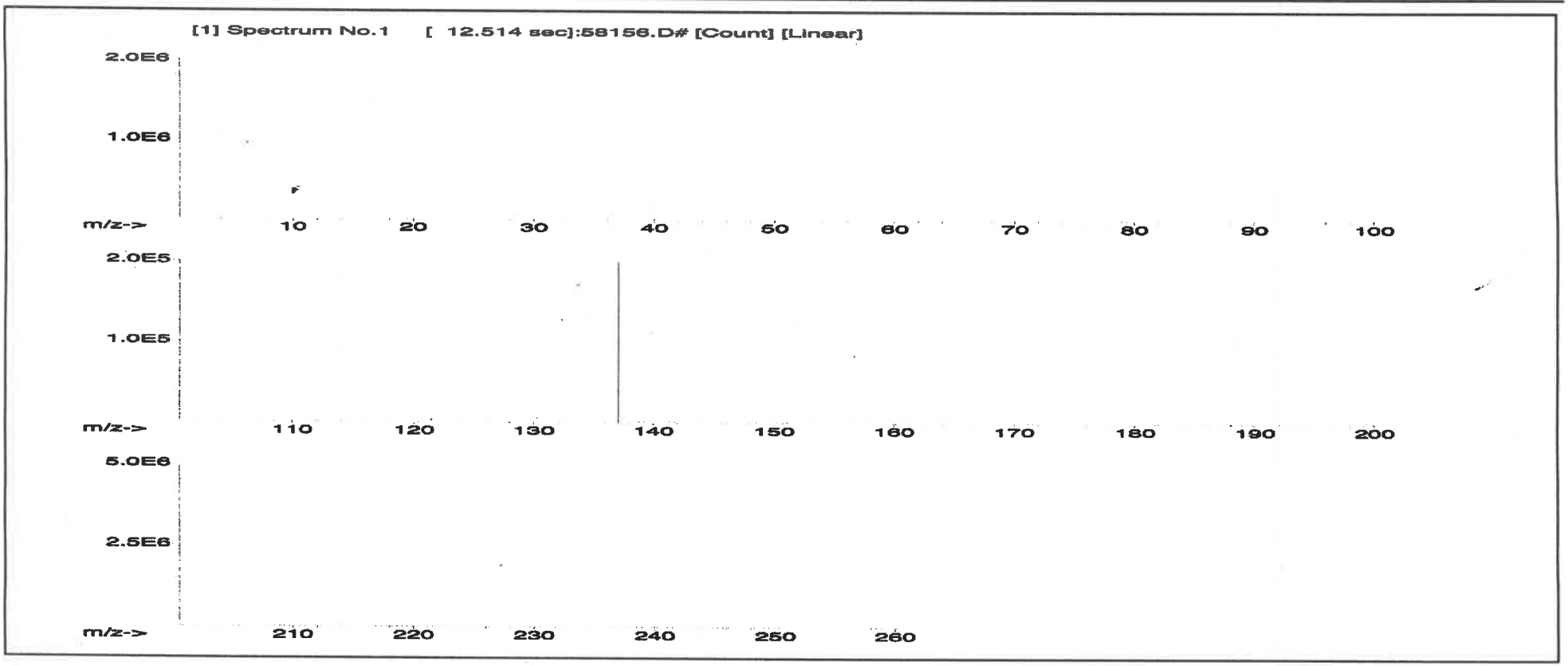
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
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	072122
Reviewed By:	Pedro L. Rentas	072122

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	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

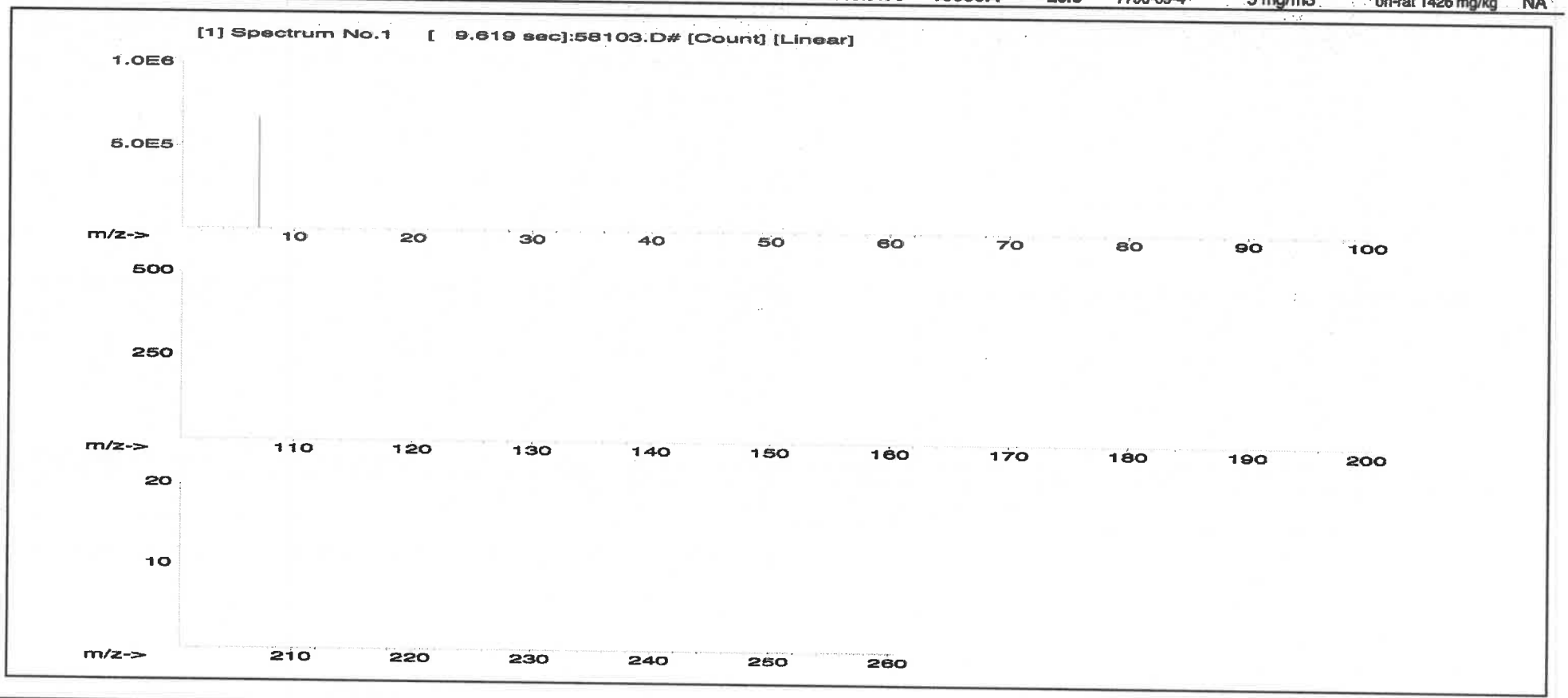
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M 5466
R: 03/01/23 BH

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CERTIFIED WEIGHT REPORT:

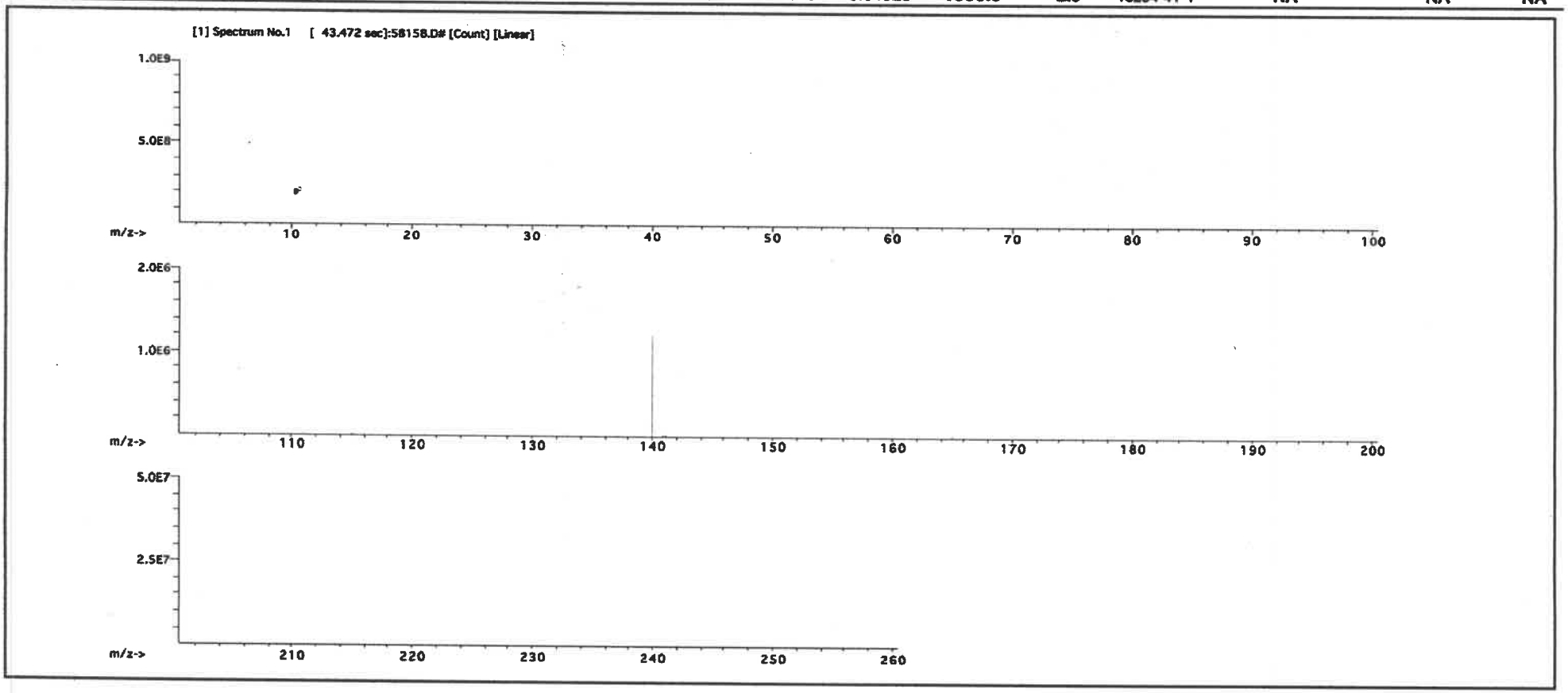
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #			
Solvent:	20510011	Nitric Acid		
2%	20.0 (mL)	Nitric Acid		
	5E-05	Balance Uncertainty		
	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	061322
Reviewed By:	Pedro L. Rentas	061322

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	3.04923	1000.0	2.0	10294-41-4	NA	NA	NA



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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	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:

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.
* 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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M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

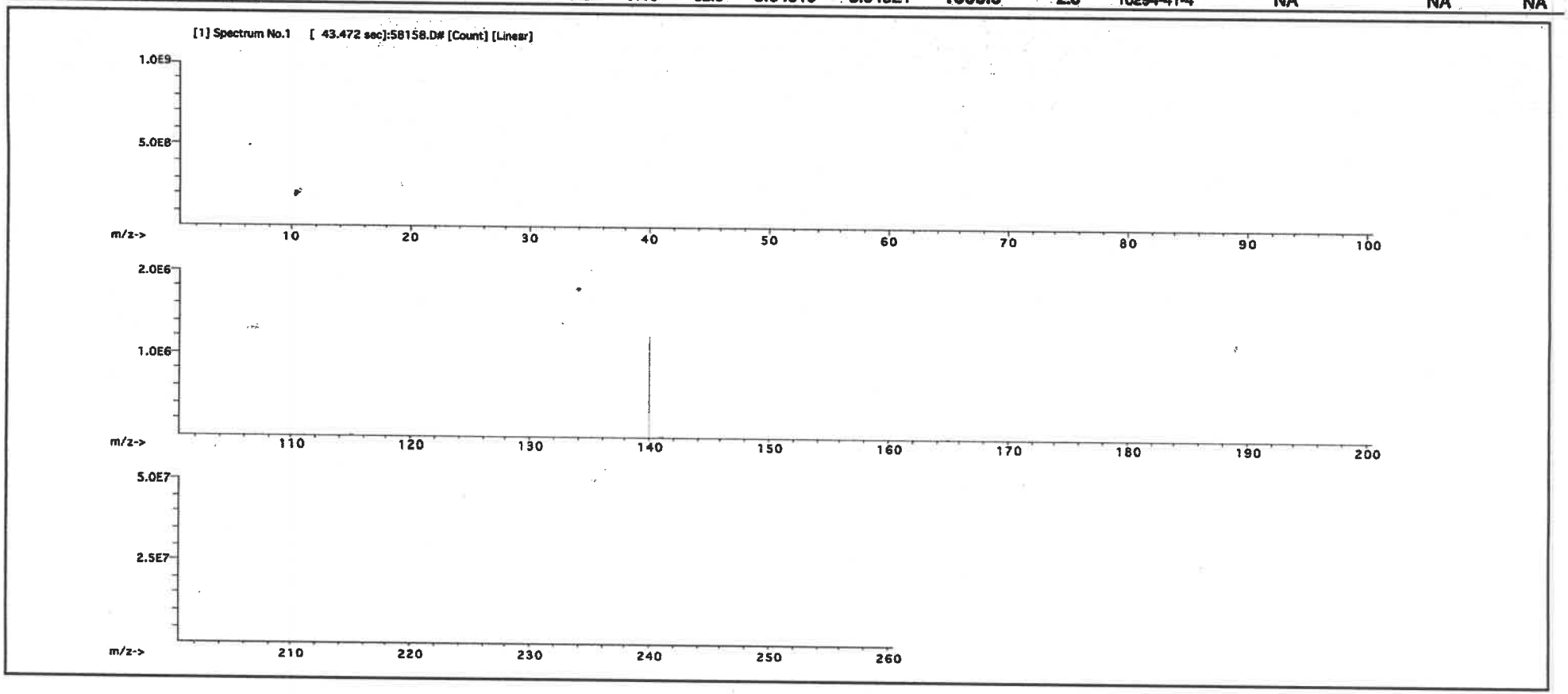
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



ICP-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.
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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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M5497 - M5498 R: 03/17/23 (BF)

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

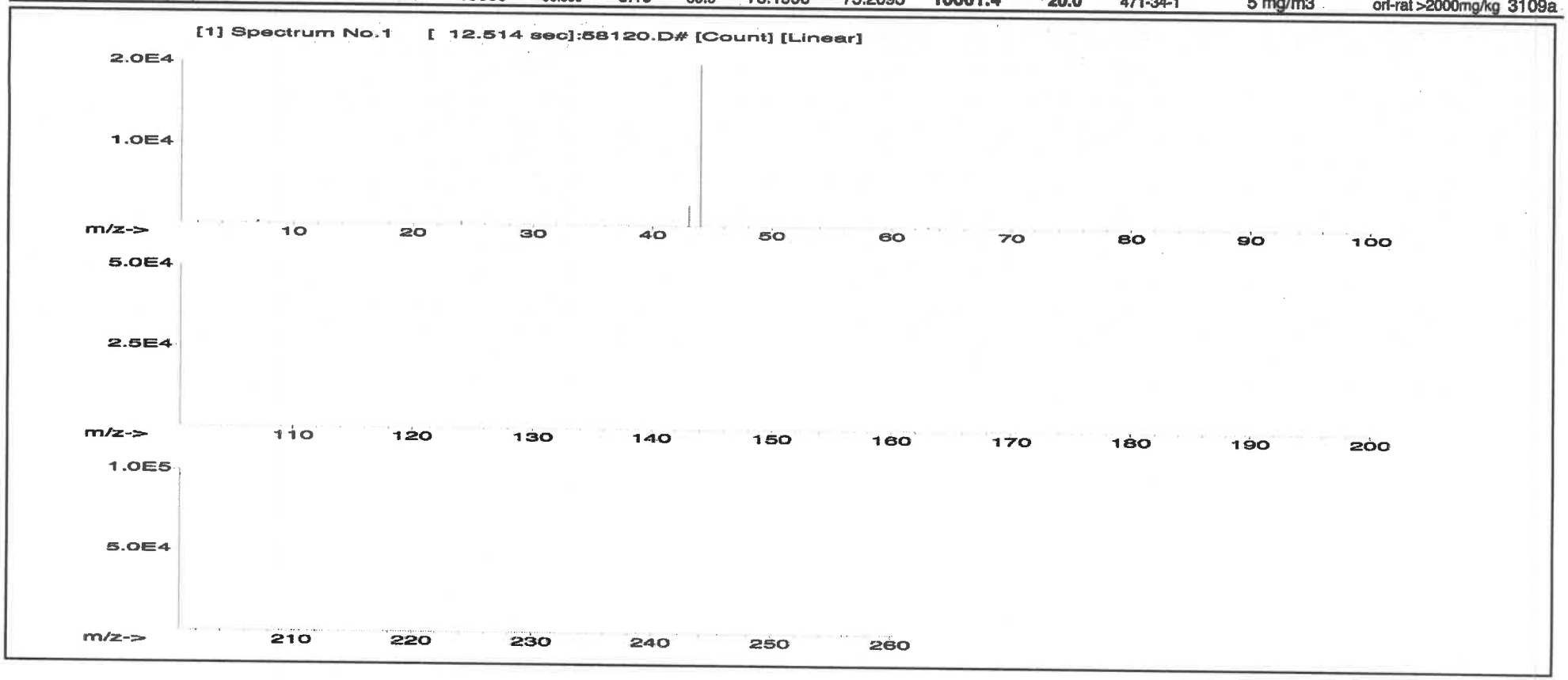
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

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

Pedro Rentas
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.

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5514 , M5515 R: 03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

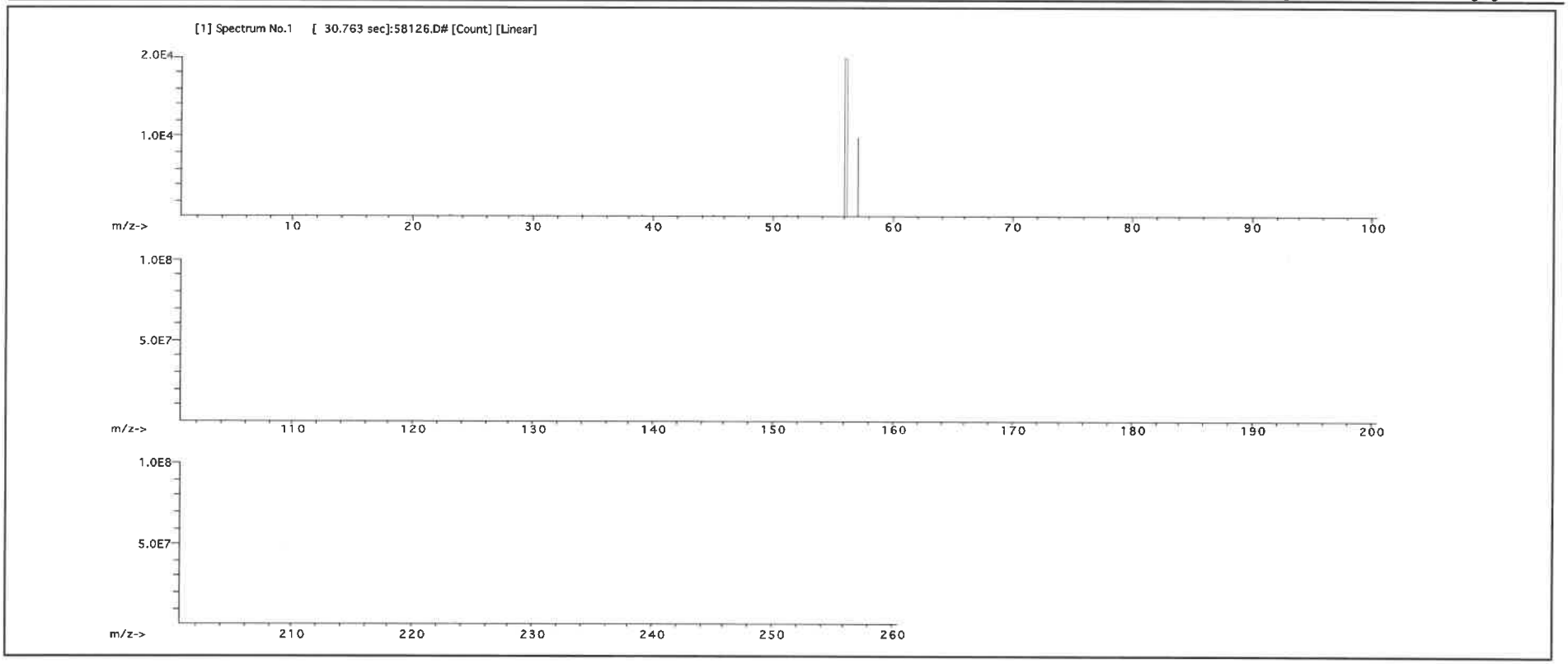
Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1

	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

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	2224912-500	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



PASS METALS

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	<0.05
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:

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).

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-55118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

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Certified Reference Material CRM

M5658 R ! 8/25/23

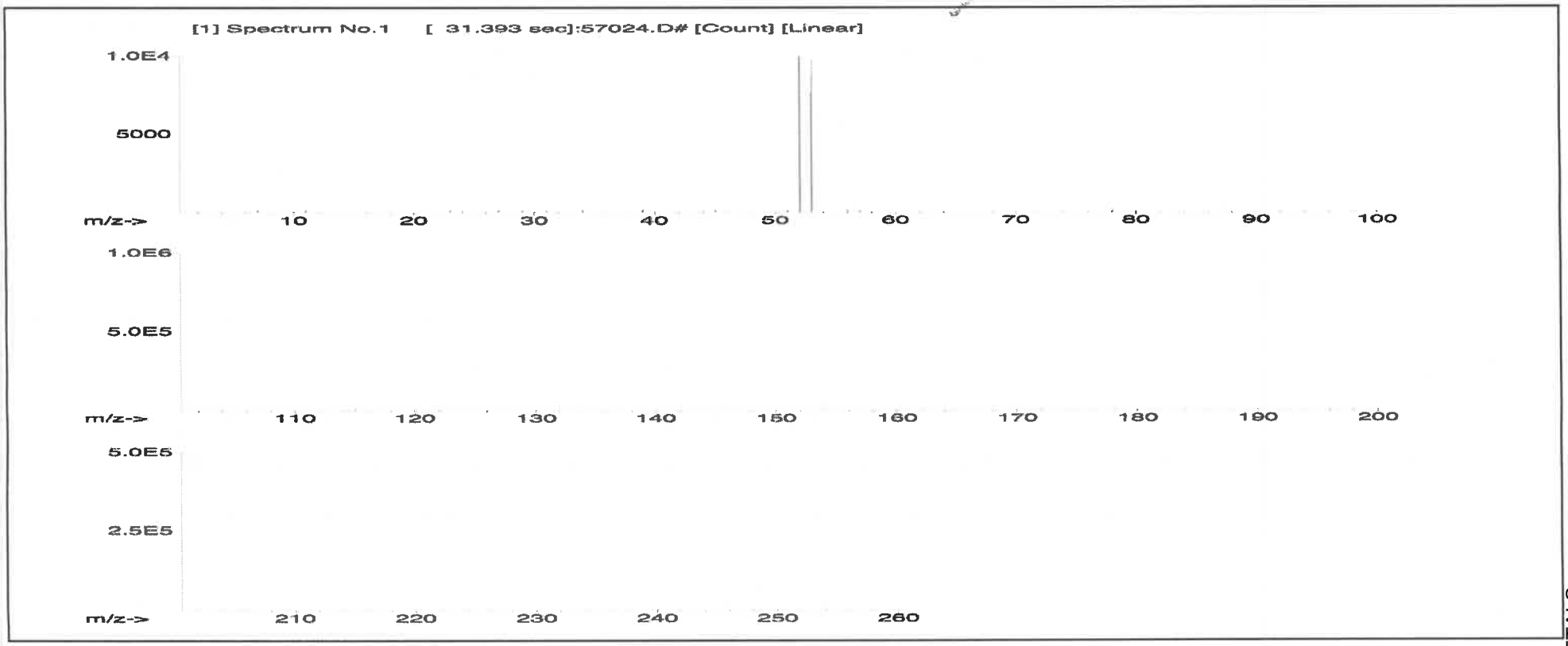
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AR-1539 Certificate Number
https://Absolutestandards.com

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.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5697 R: 10/27/23

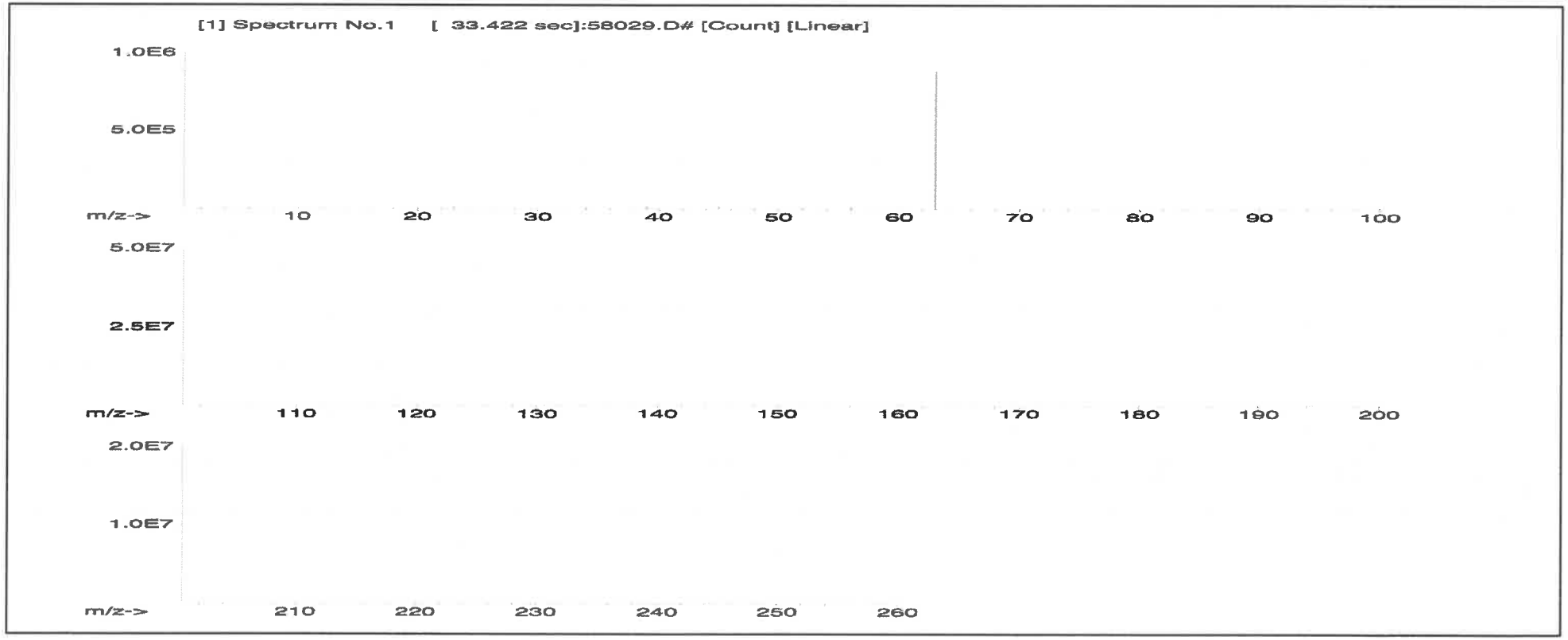
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CERTIFIED WEIGHT REPORT:

		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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M5648 R: 10/27/23

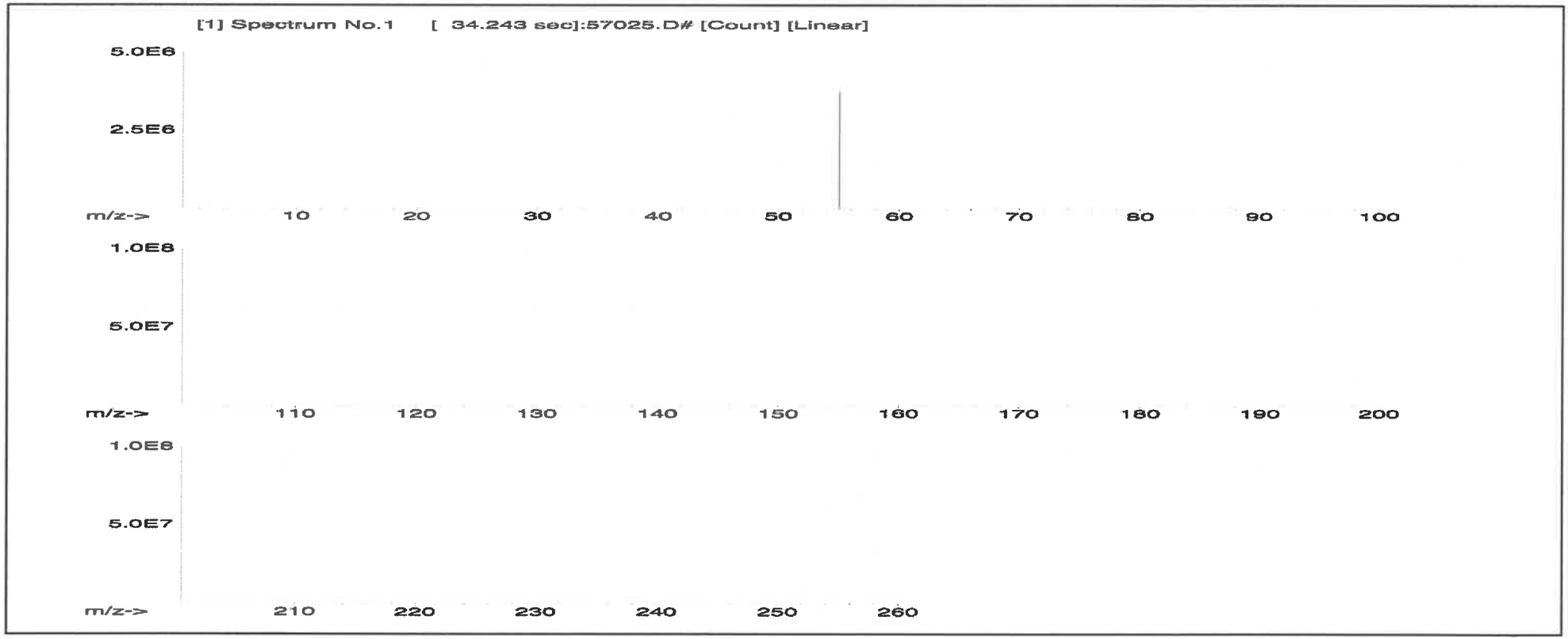
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CERTIFIED WEIGHT REPORT:

		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:

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art # **58025** Lot # **102623**

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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

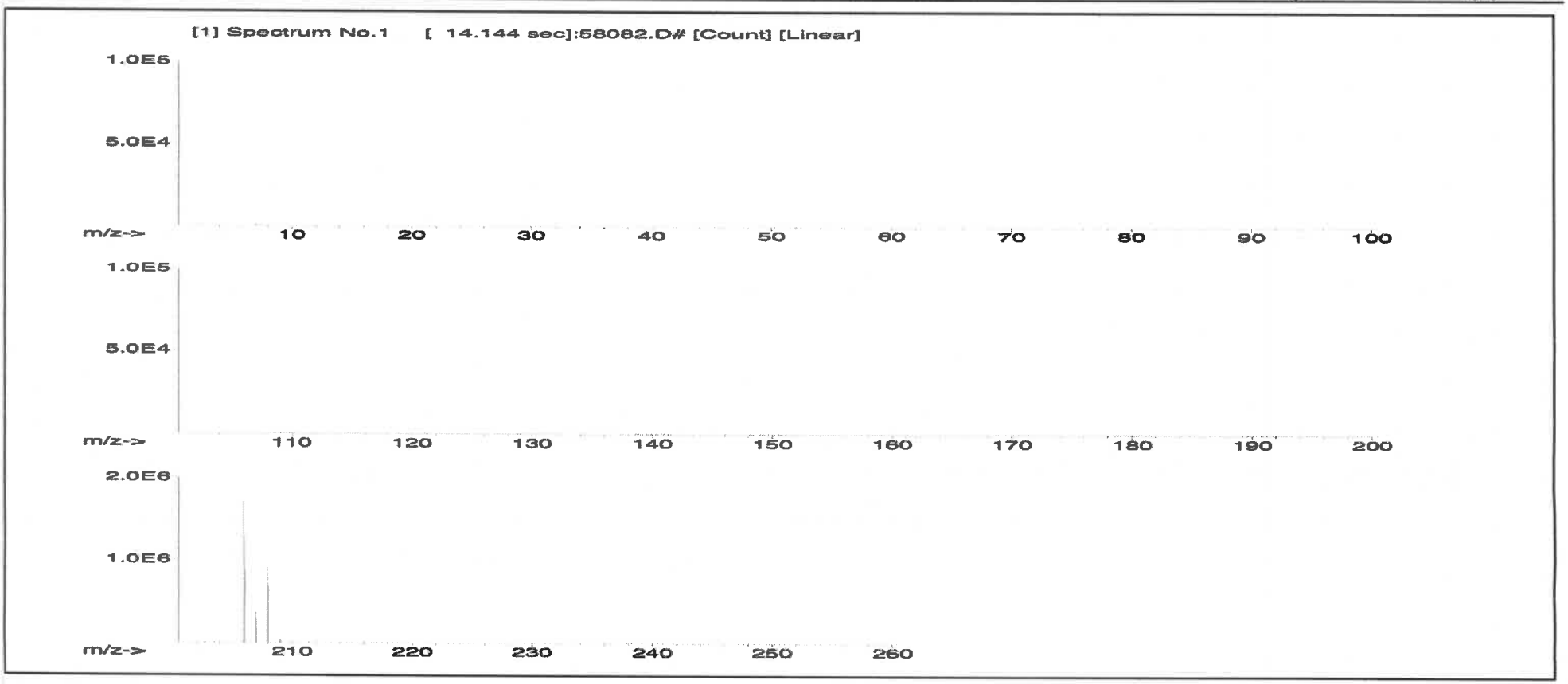
Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.41 5E-05 Balance Uncertainty 0.06 Flask Uncertainty

	Lot #	
Solvent:	24002546	Nitric Acid
2%	60.0 (mL)	Nitric Acid

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.

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R: 12/20/23 M5748

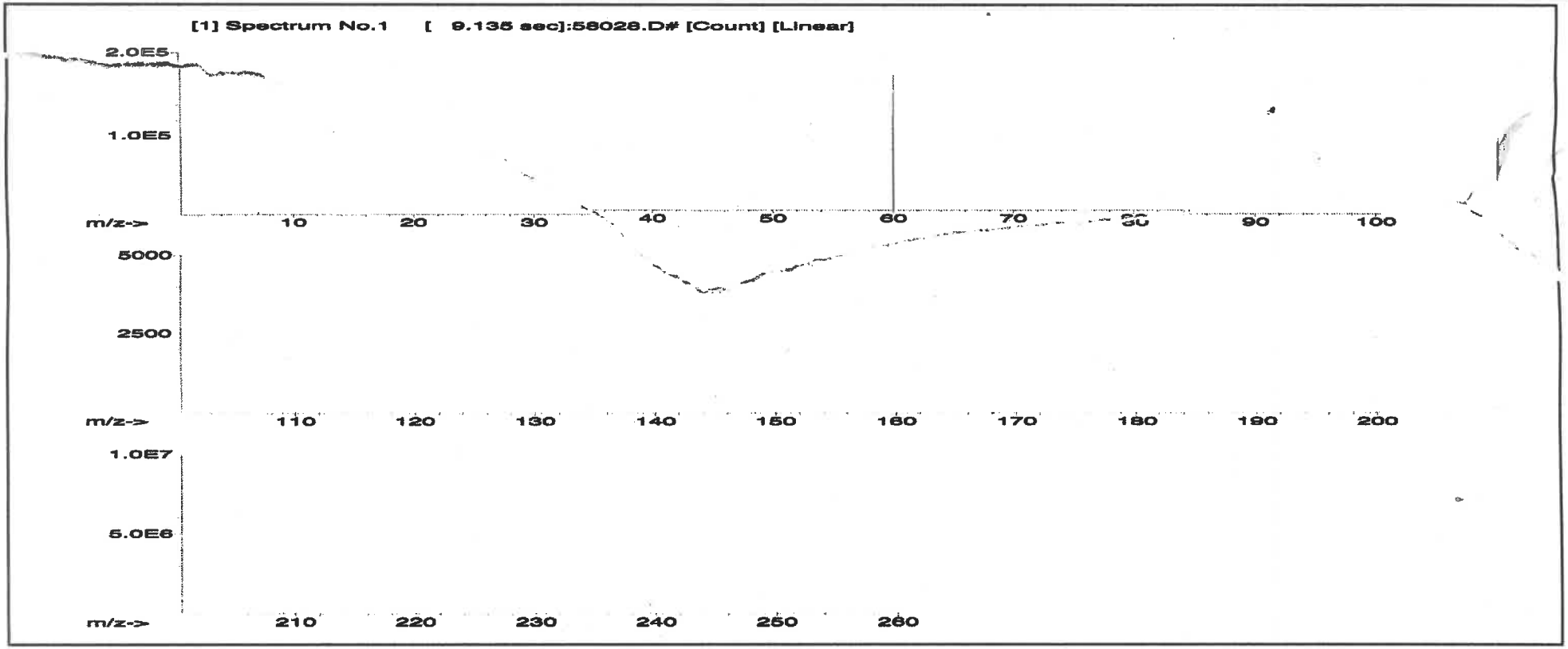
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CERTIFIED WEIGHT REPORT:

		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.

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M5768 M5769 (BP) R:1/3/24

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AR-1539 Certificate Number
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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

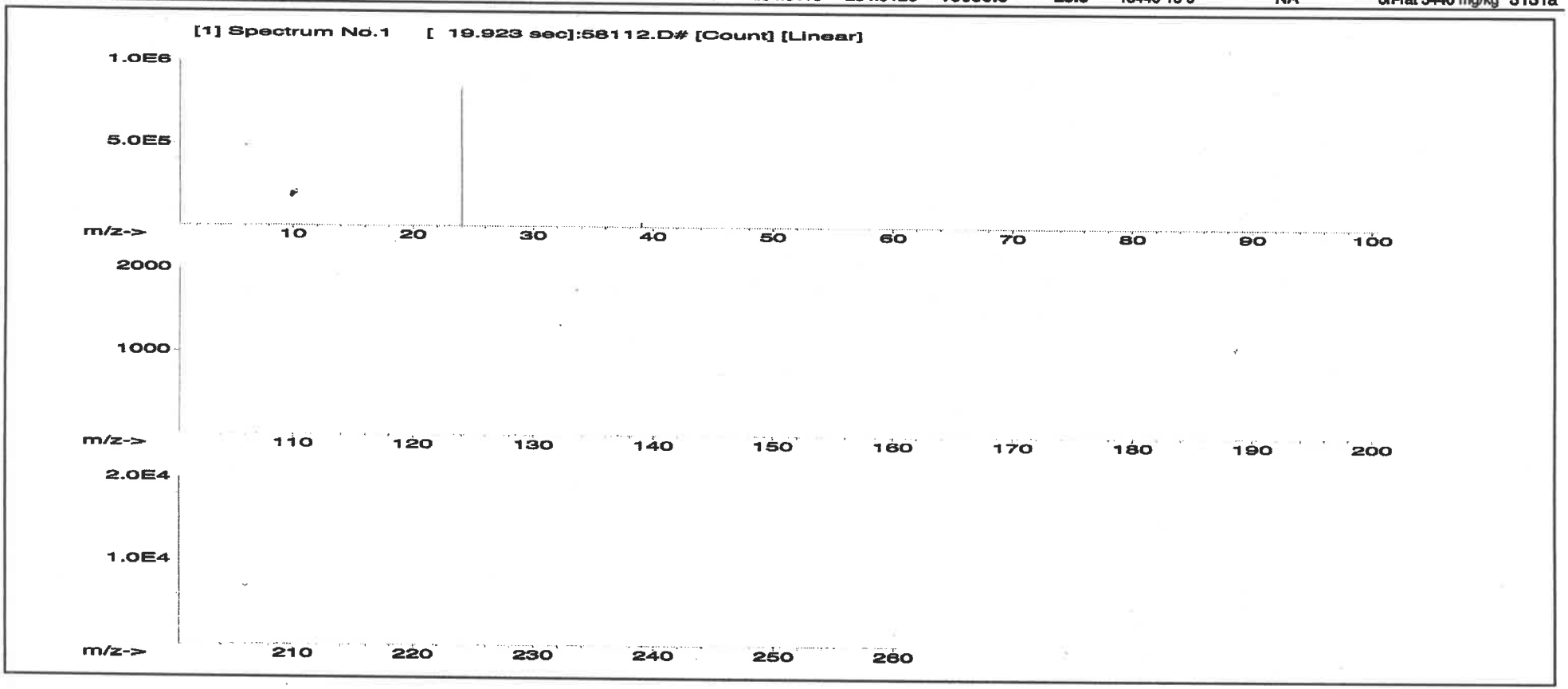
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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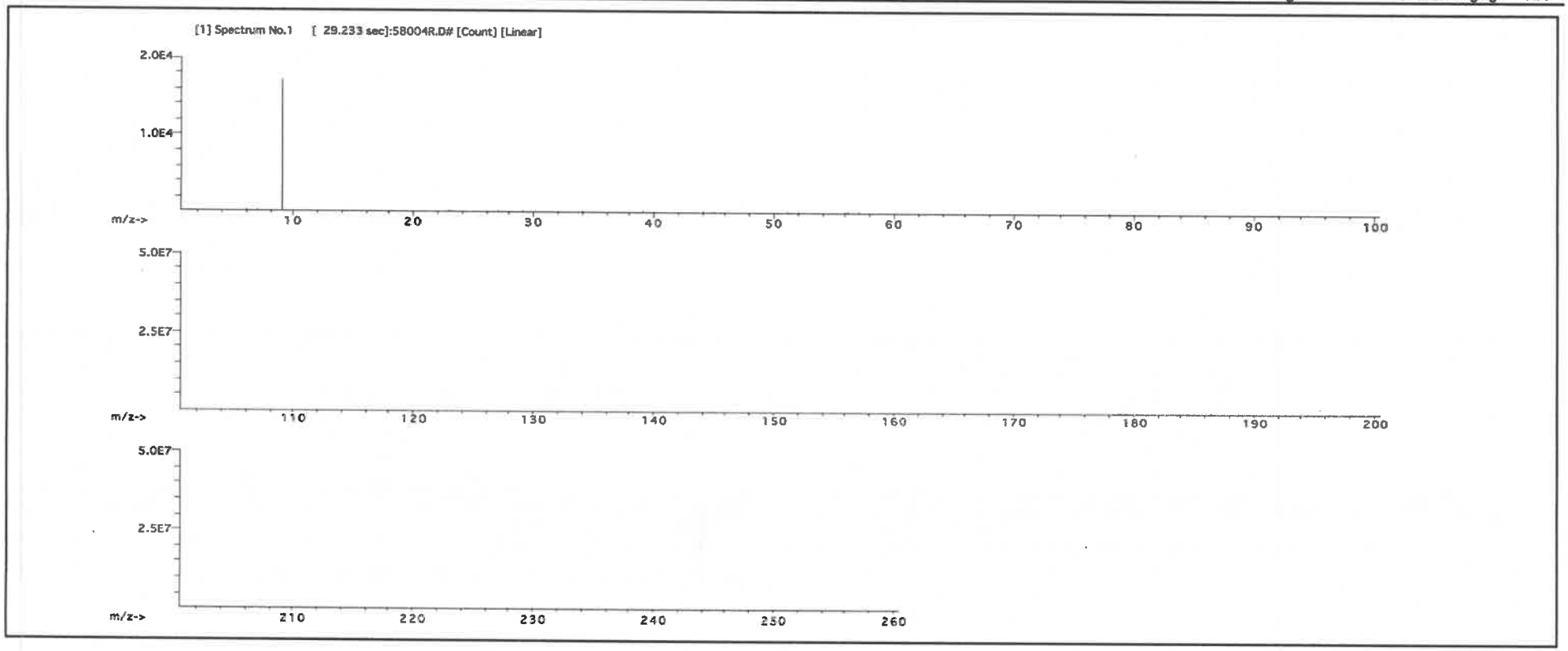
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**			
Lot Number:	**102523**	24002546	Nitric Acid	
Description:	**Beryllium (Be)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

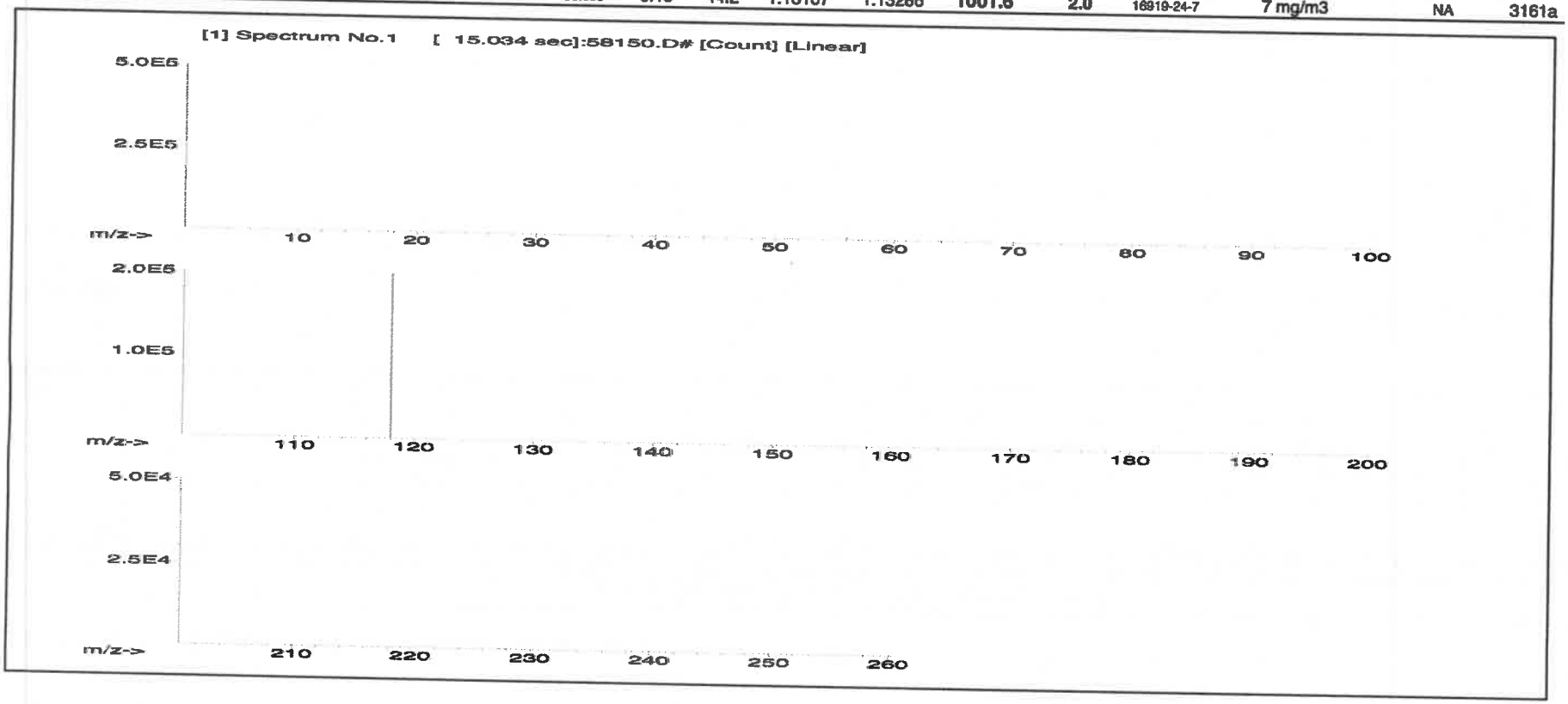
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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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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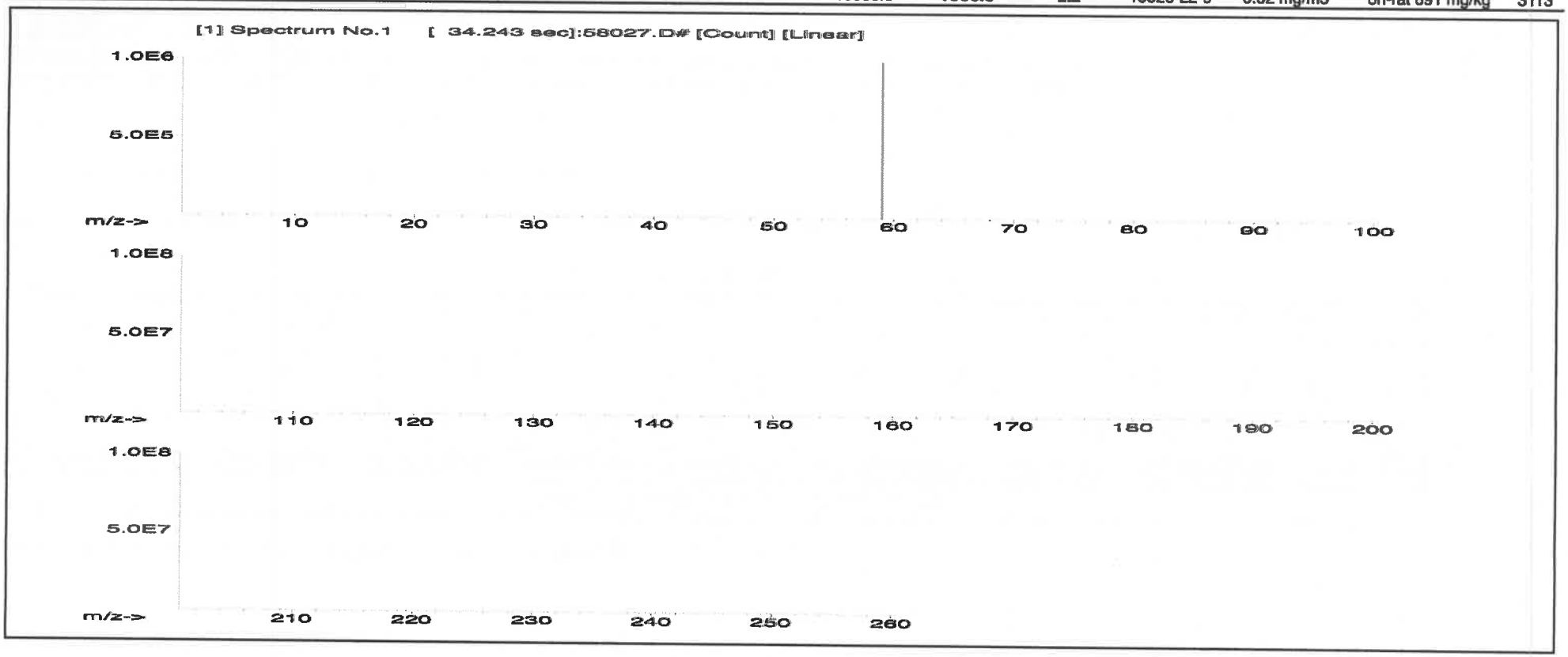
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CERTIFIED WEIGHT REPORT:

		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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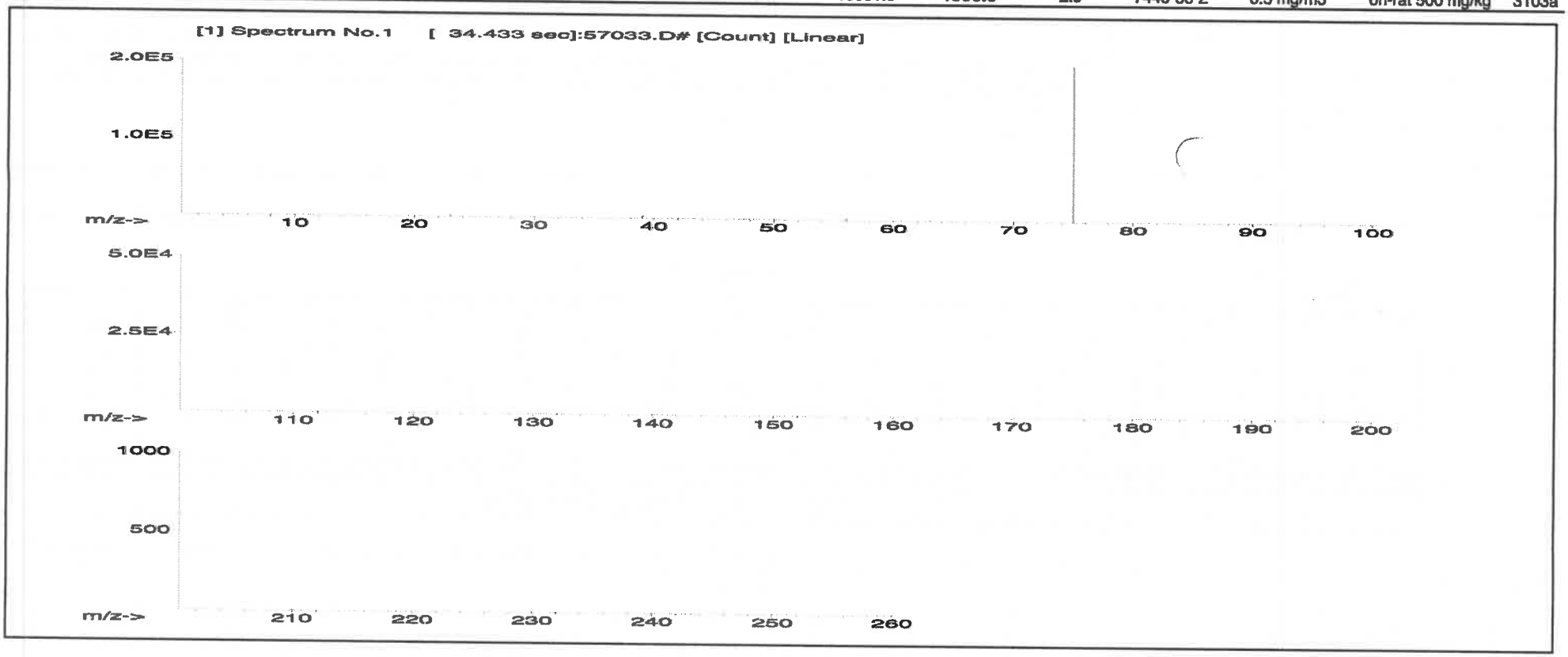
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	2.0	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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

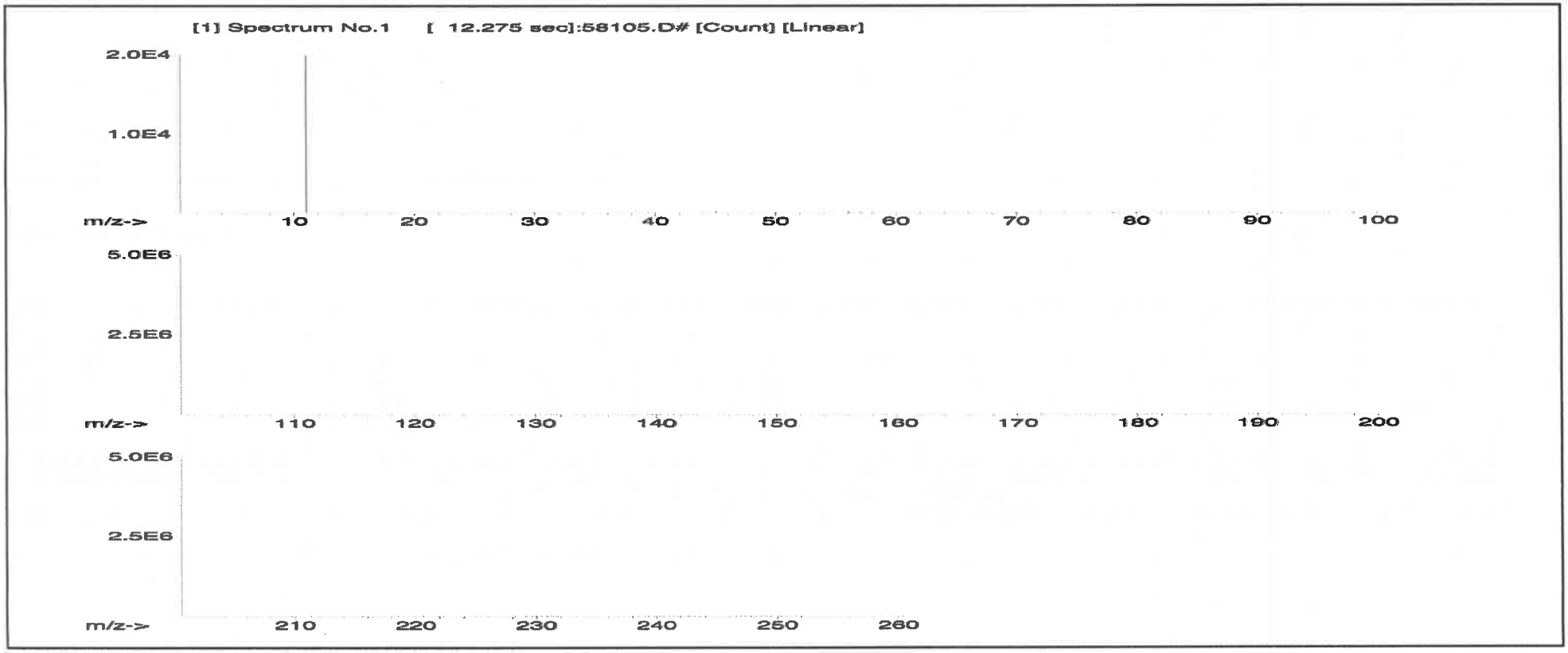
	Lot #			
Solvent:	MKBQ8597V	Ammonium hydroxide		
	2.0%	40.0 (mL)	Ammonium hydroxide	

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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* 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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R1 02/09/24. M5815

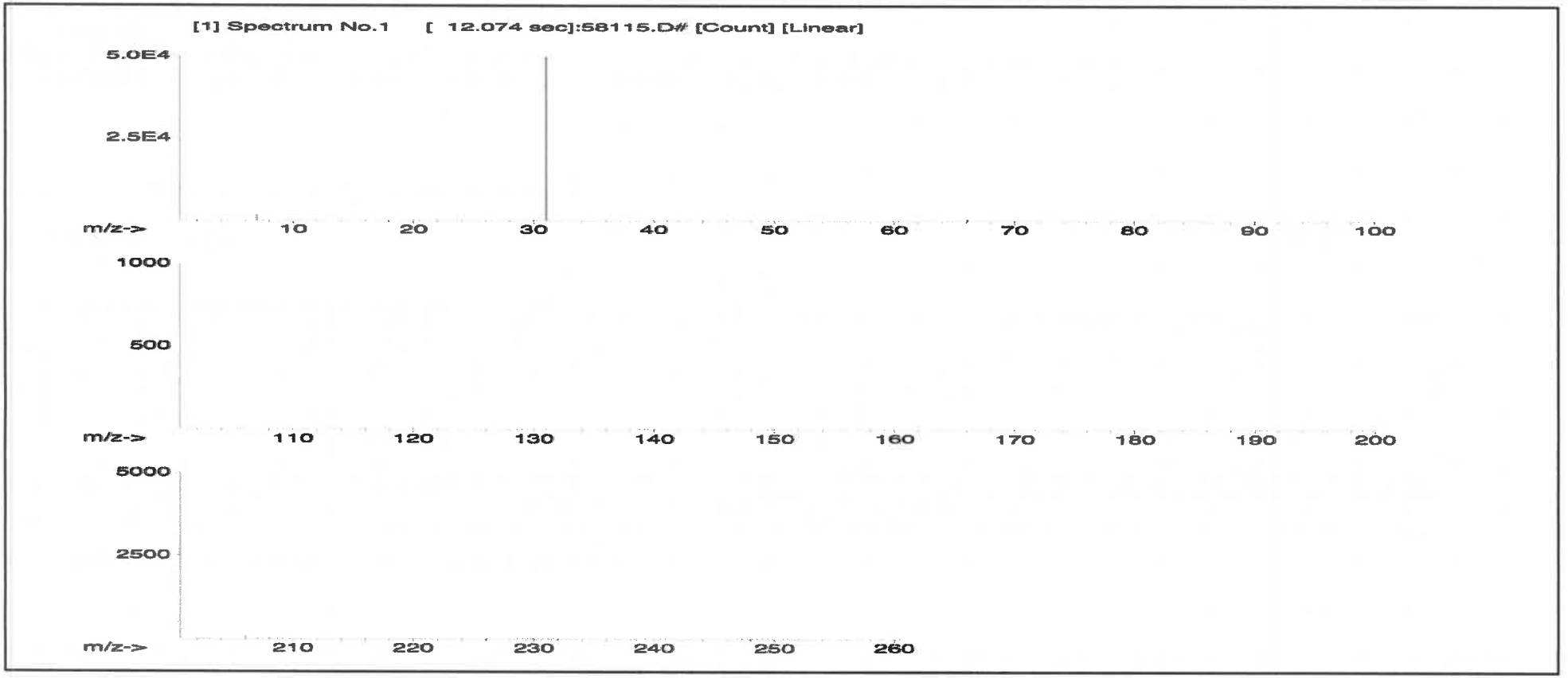
ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT:

Part Number:	**57115**		**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**				
Description:	**Phosphorous (P)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5816

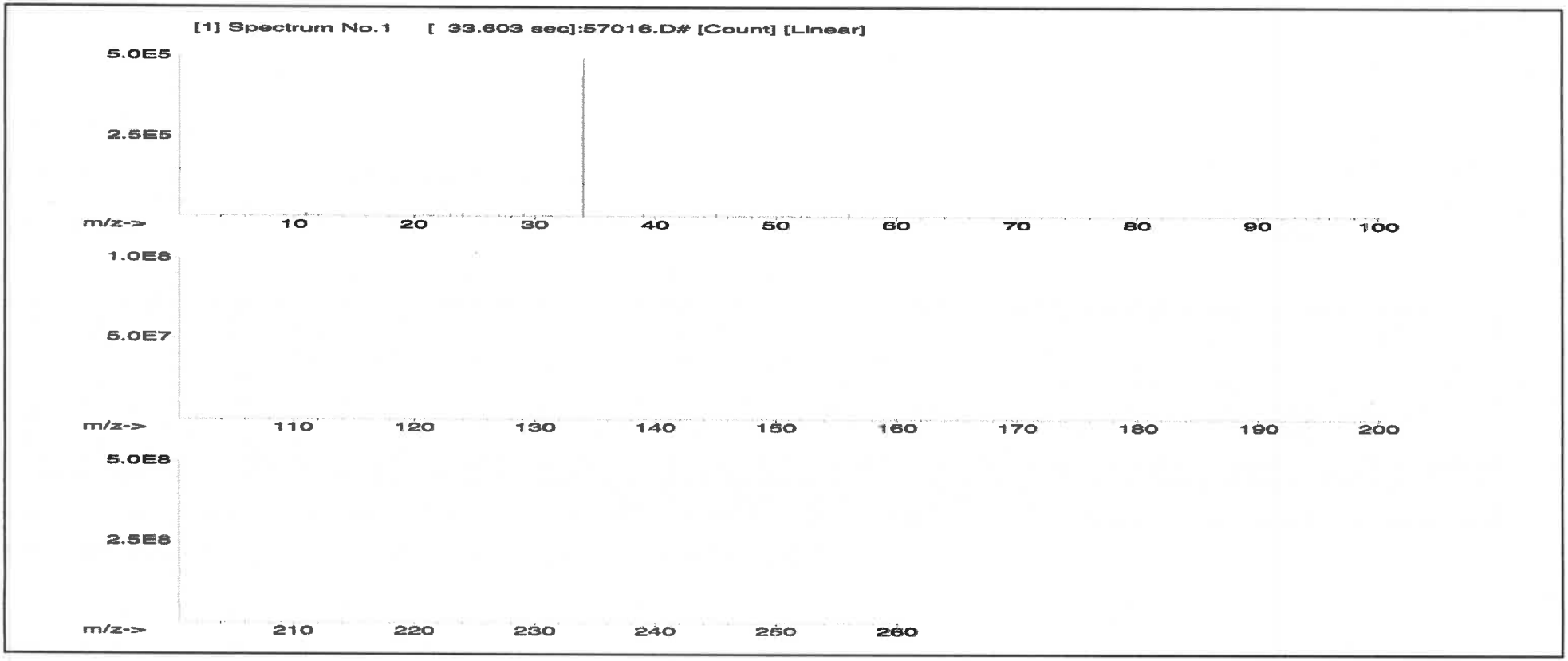
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**		**Lot #**	
Lot Number:	**122923**	**Solvent:**	122923	ASTM Type 1 Water
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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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.
* All standard containers are meticulously cleaned prior to use.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

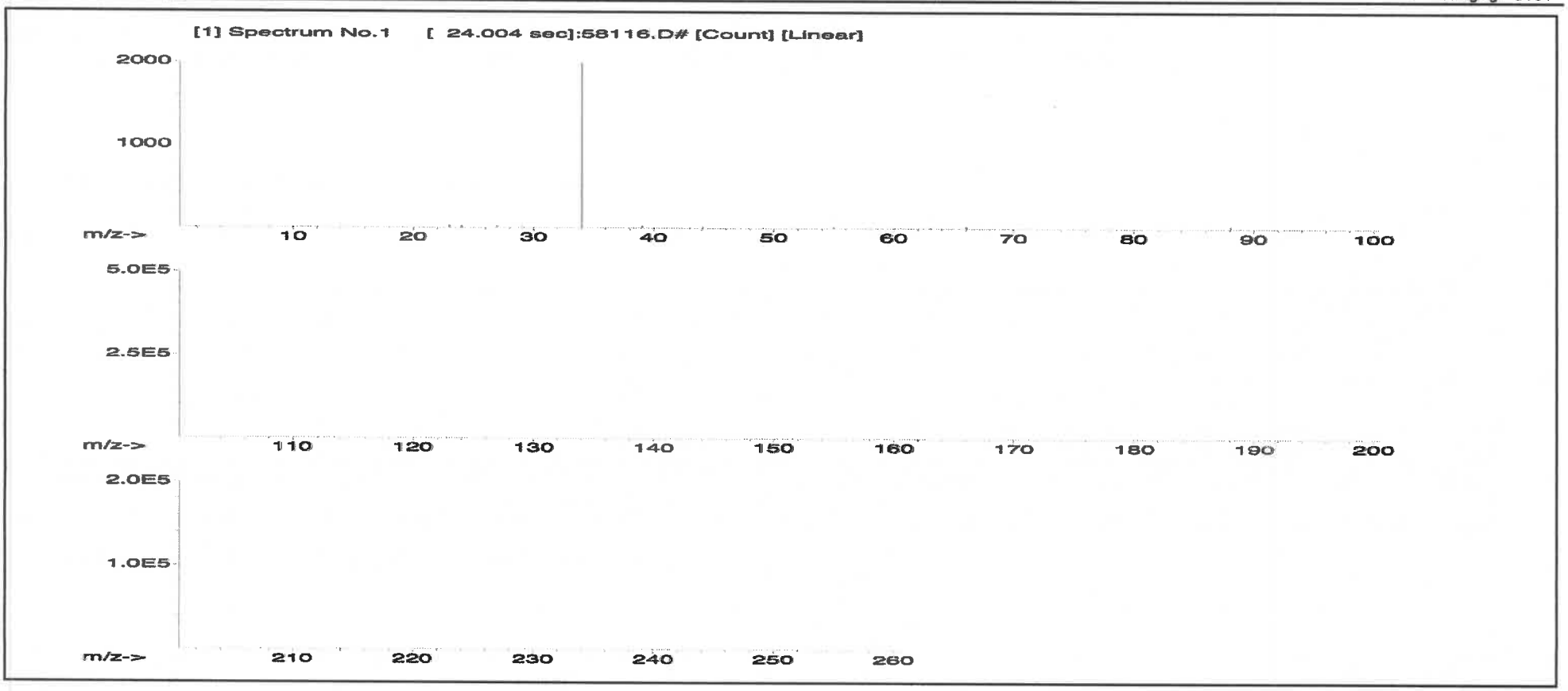
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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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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* 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 M.5818

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CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
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

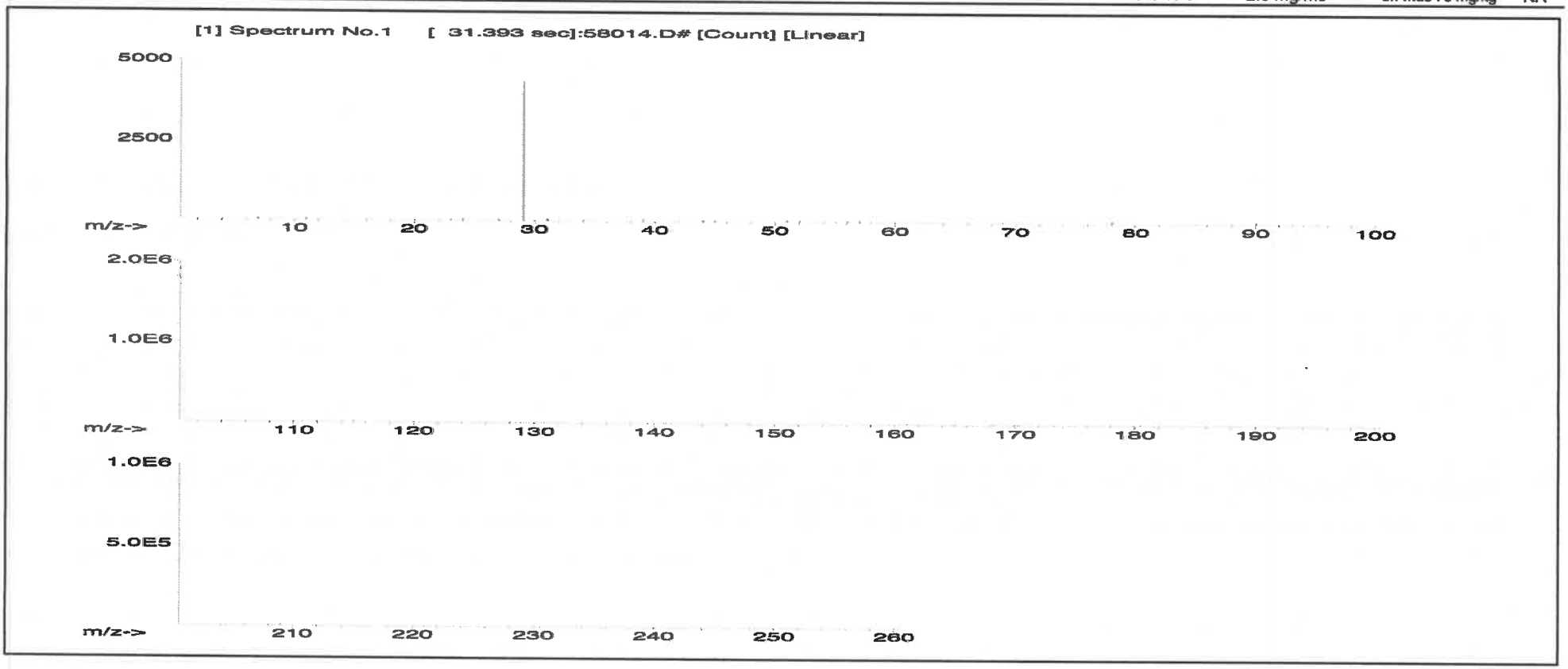
Solvent: 24002546 Nitric Acid
2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122023

Pedro Rentas
Reviewed By: Pedro L. Rentas 122023

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 hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/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	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5819

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

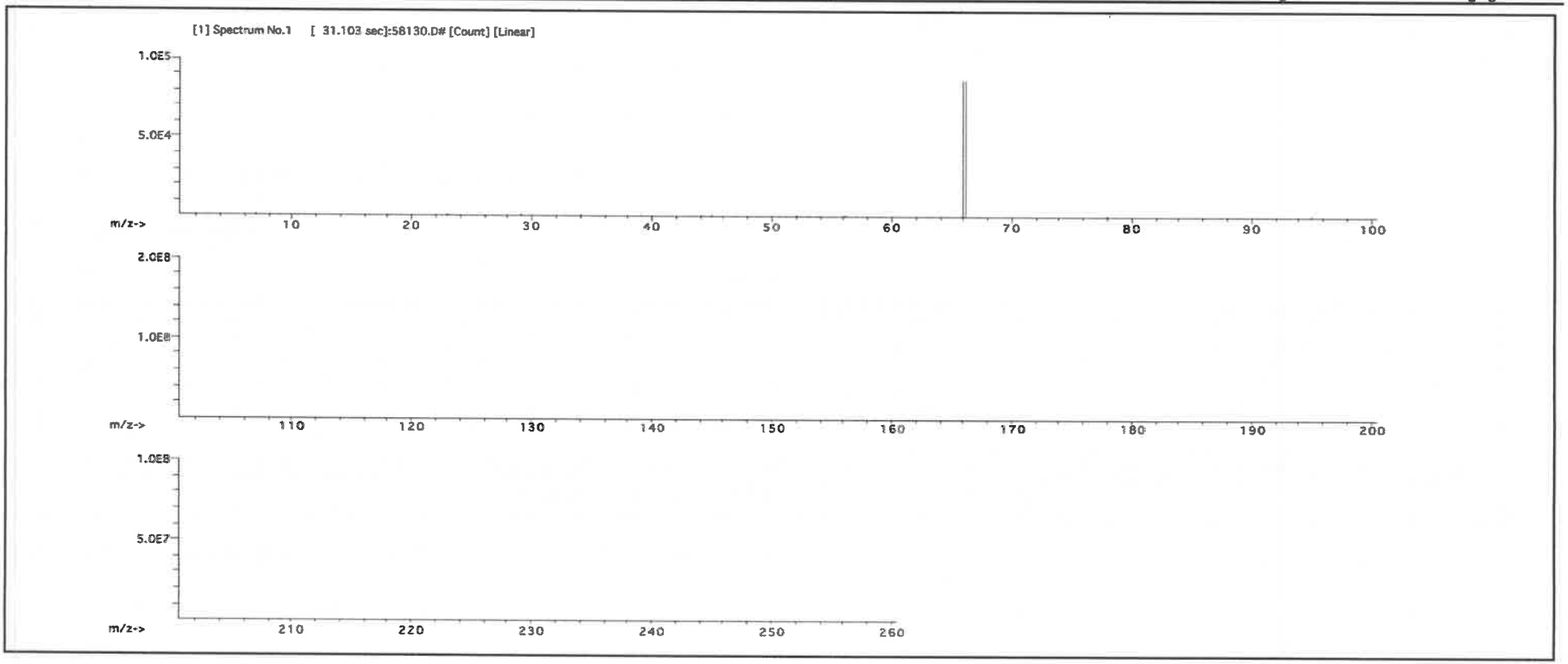
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

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. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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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	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5820

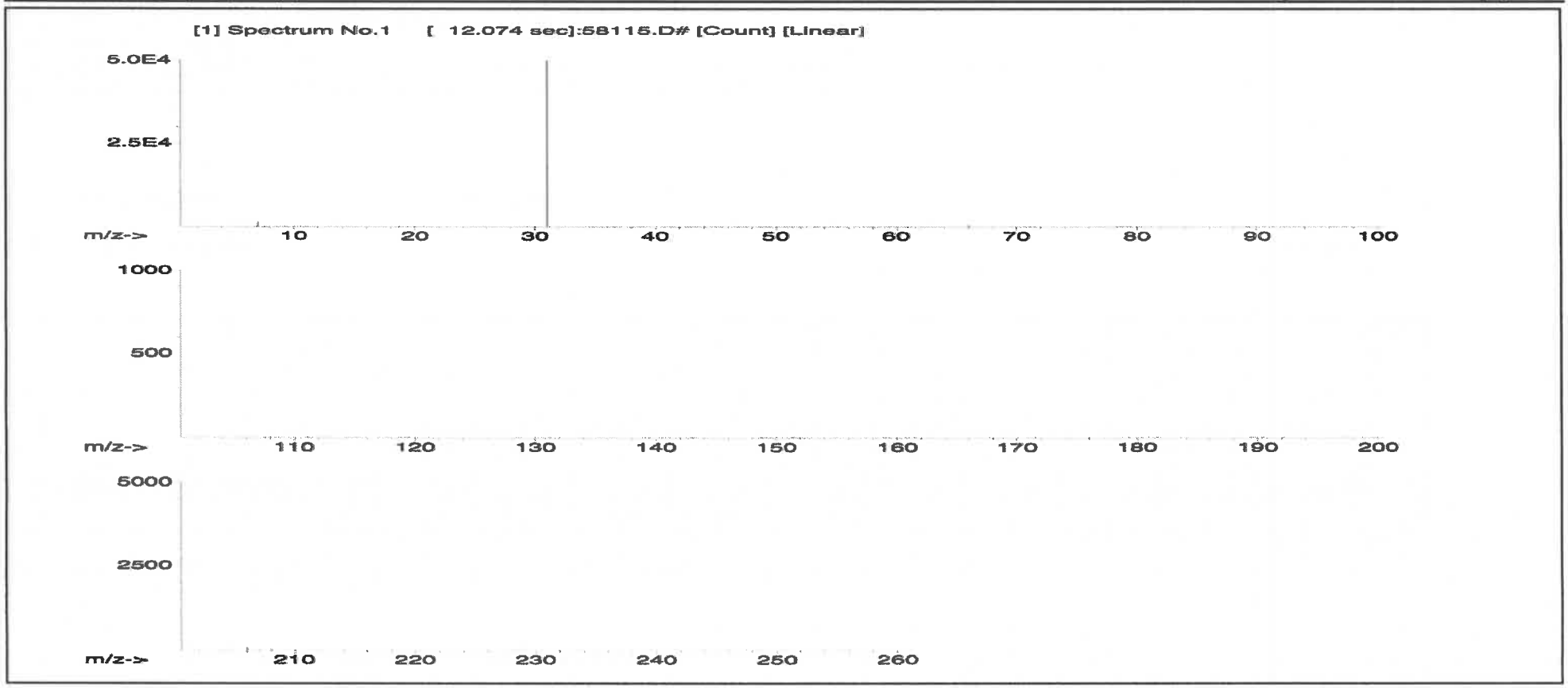
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

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:

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).

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 - 32
MSS53
3/30/23

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

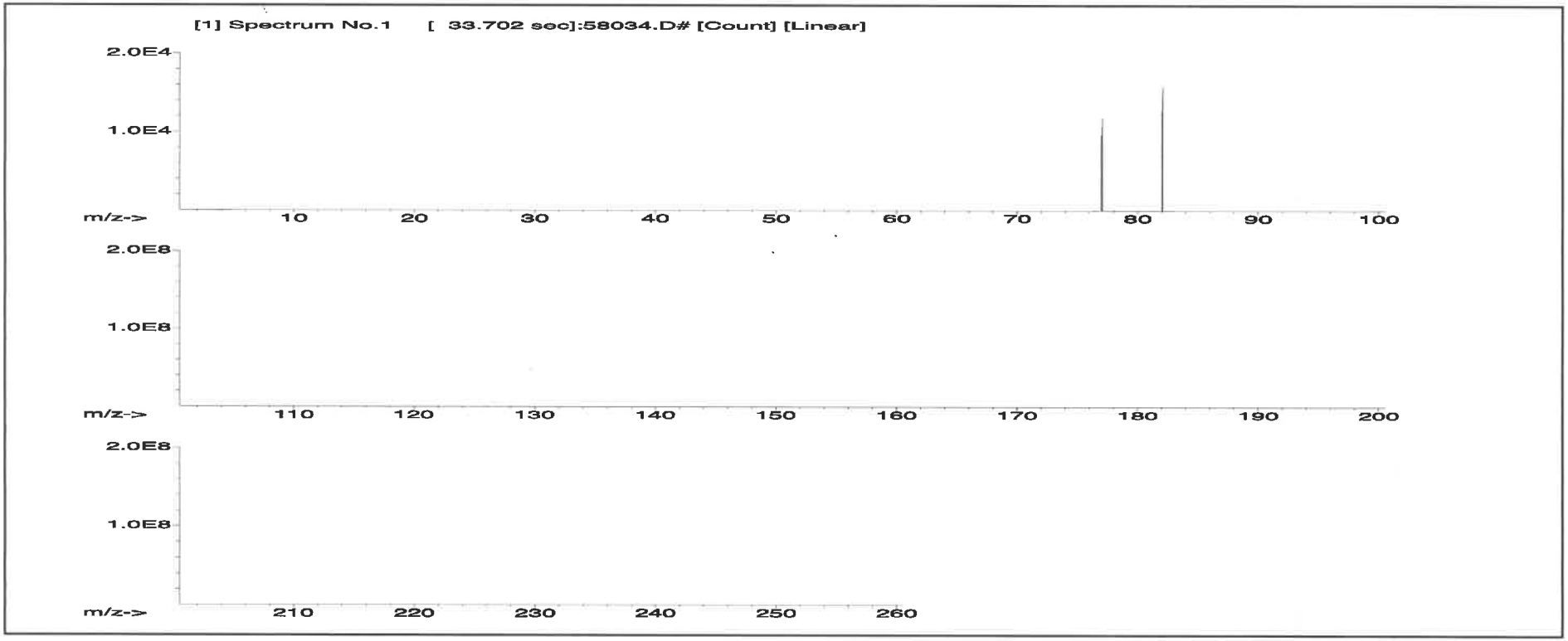
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
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):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

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 (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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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	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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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:

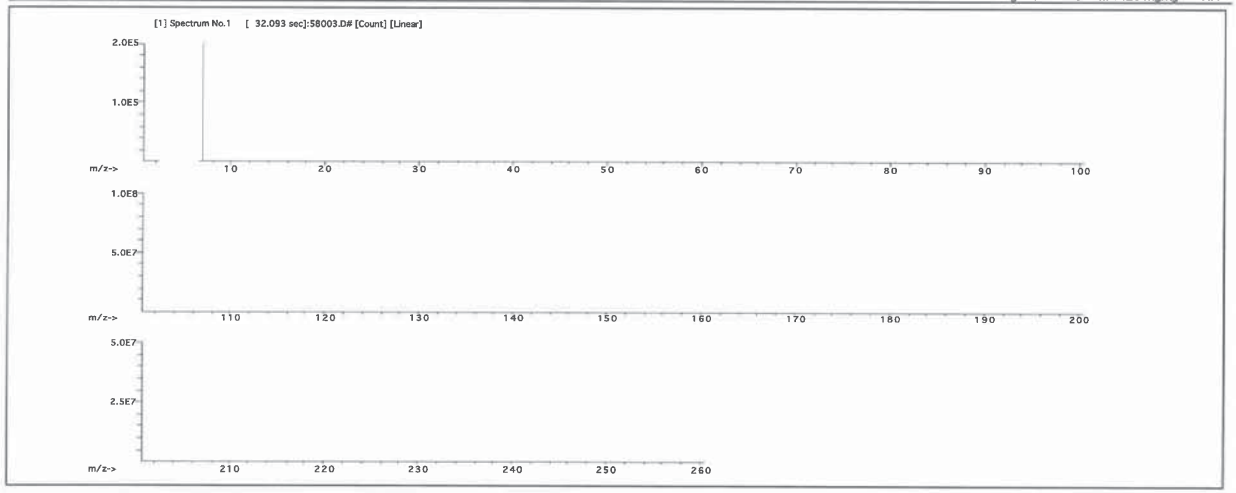
Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

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 Ti Metal
Starting Material:	
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**1002 ± 4 µg/mL**
	ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{Char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$$w_i = (1/u_{Char\ i})^2 \,/\, (\Sigma(1/u_{Char\ i})^2)$$

CRM/RM Expanded Uncertainty ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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)

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=Z (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

45982 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)

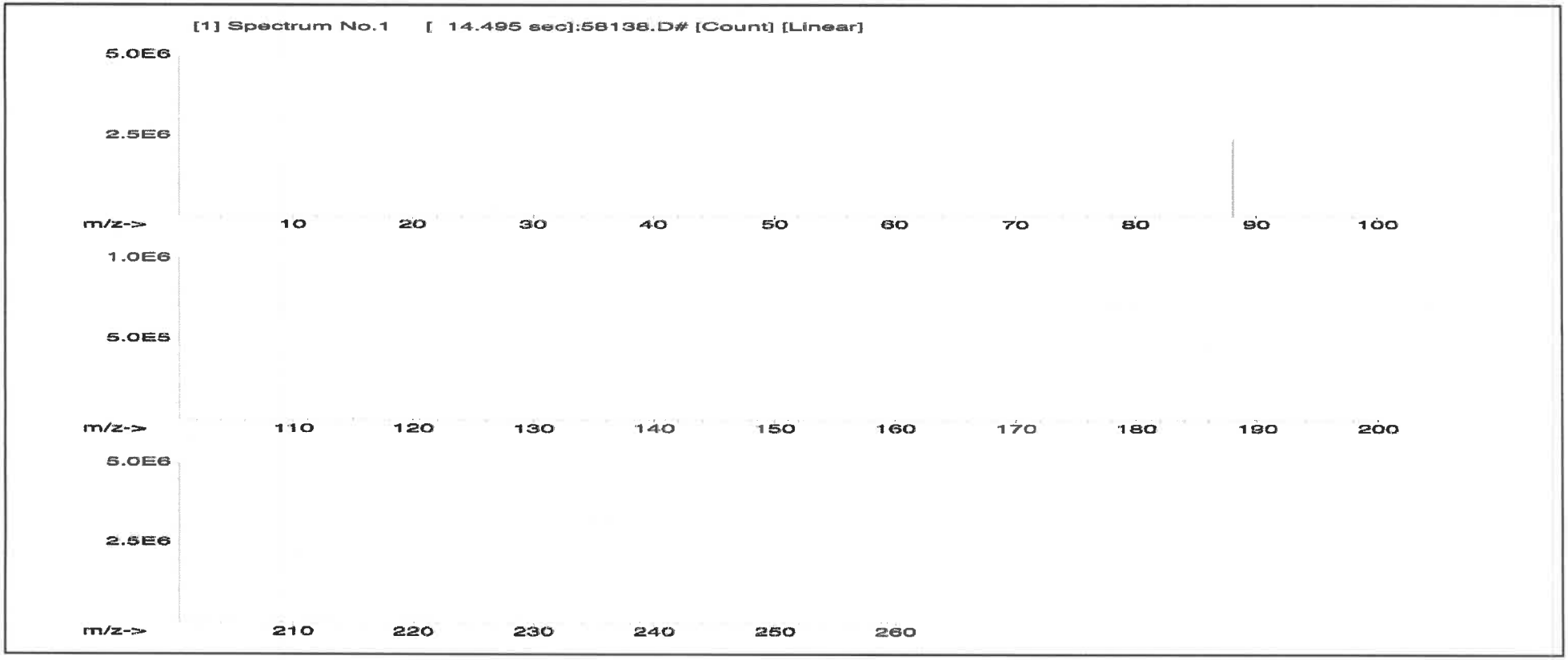
Expiration Date: 031527
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.100	Flask Uncertainty		

Formulated By: Benson Chan 031524

Reviewed By: Pedro L. Rentas 031524

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. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



P53 16-METALS

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	T	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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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

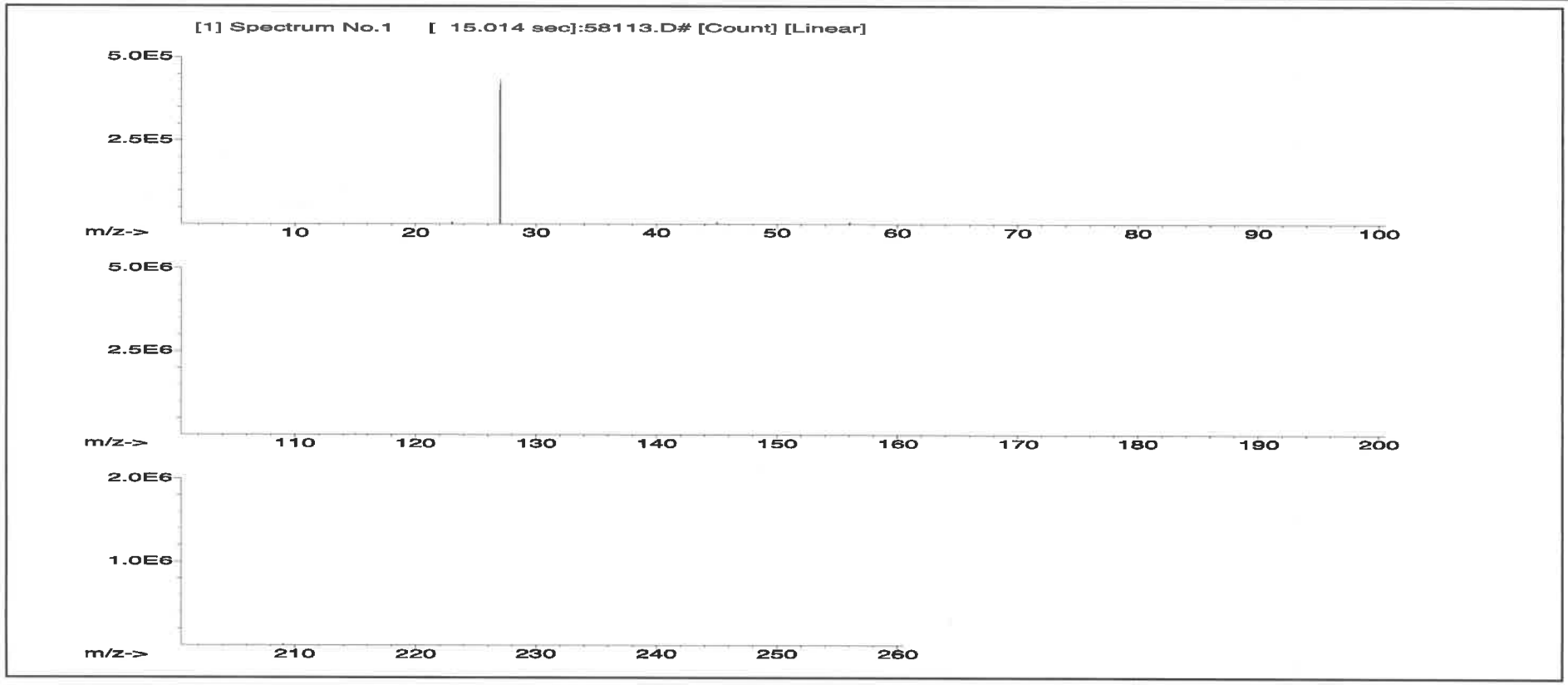
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito		
Formulated By:	Giovanni Esposito	011623
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	011623

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	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	1
ACS – Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

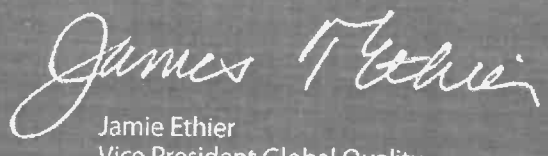
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



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

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

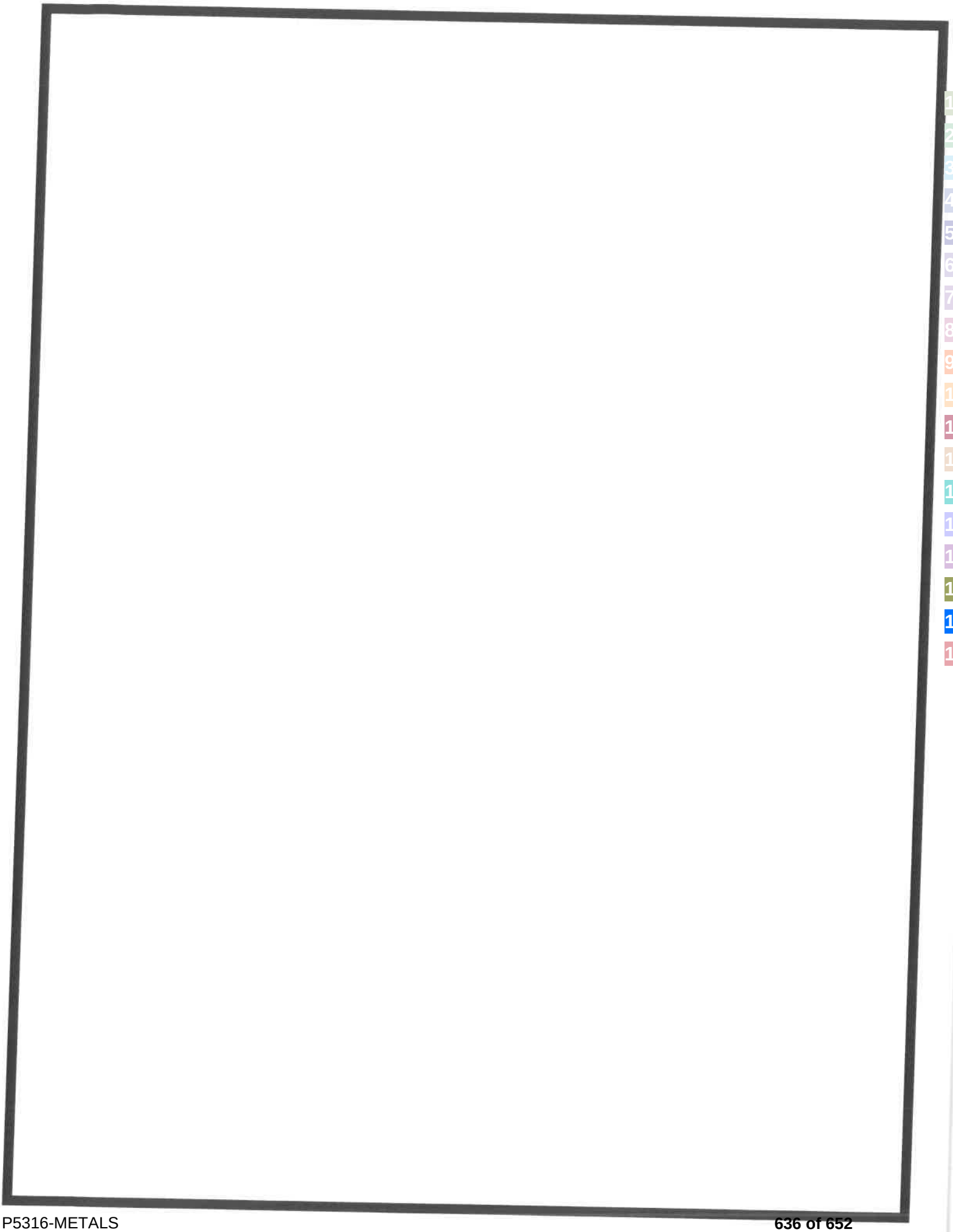
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



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

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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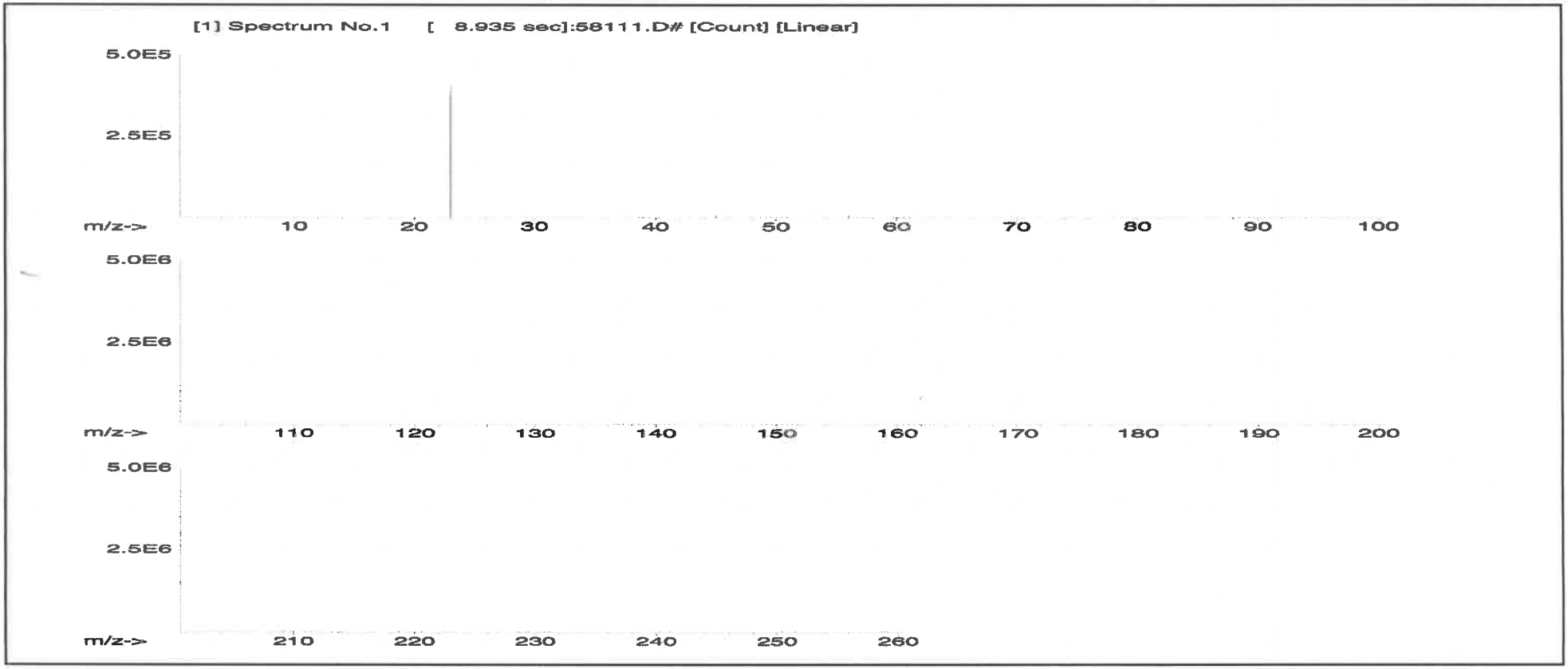
CERTIFIED WEIGHT REPORT:

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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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	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

R: 01/03/24 M5802, M5803

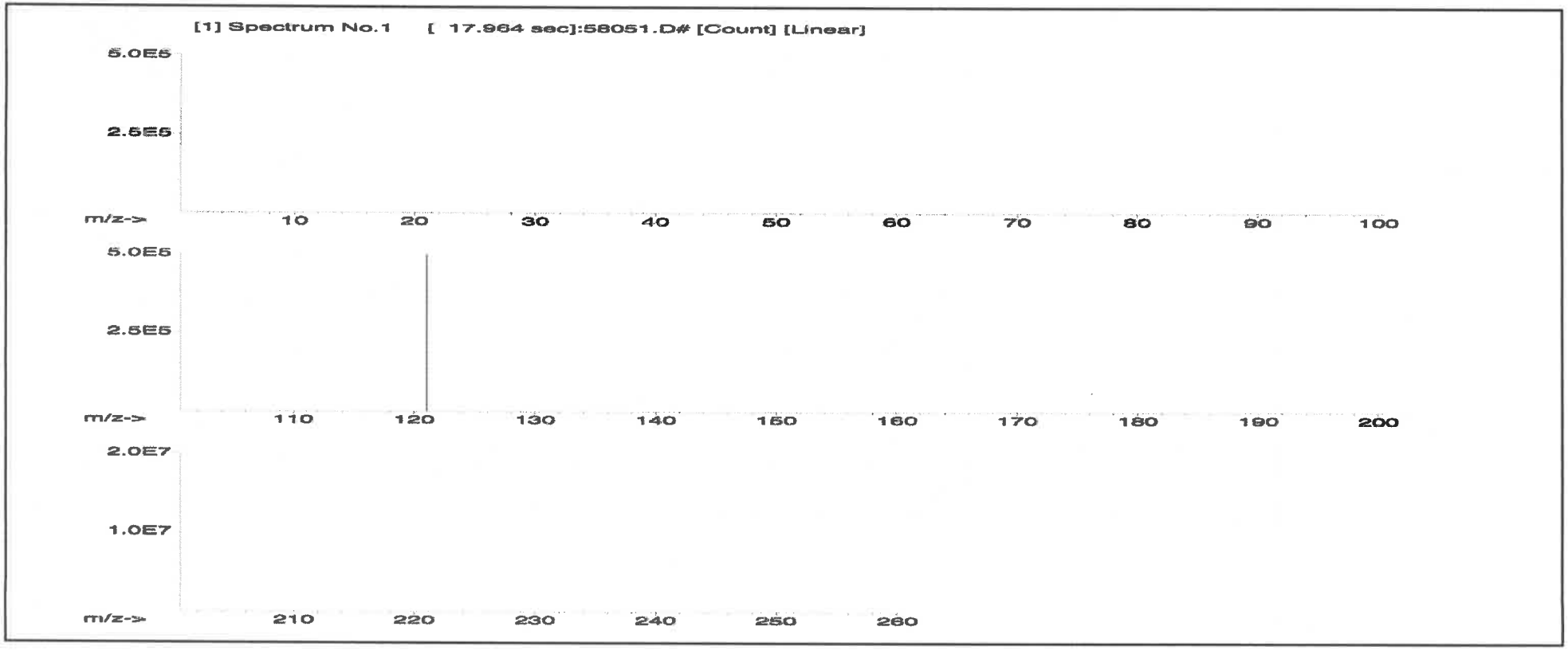
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57051**	24002546	Nitric Acid		
Lot Number:	**120523**				
Description:	**Antimony (Sb)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	120526				
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	120523
Reviewed By:	Pedro L. Rentas	120523

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	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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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 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).

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Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

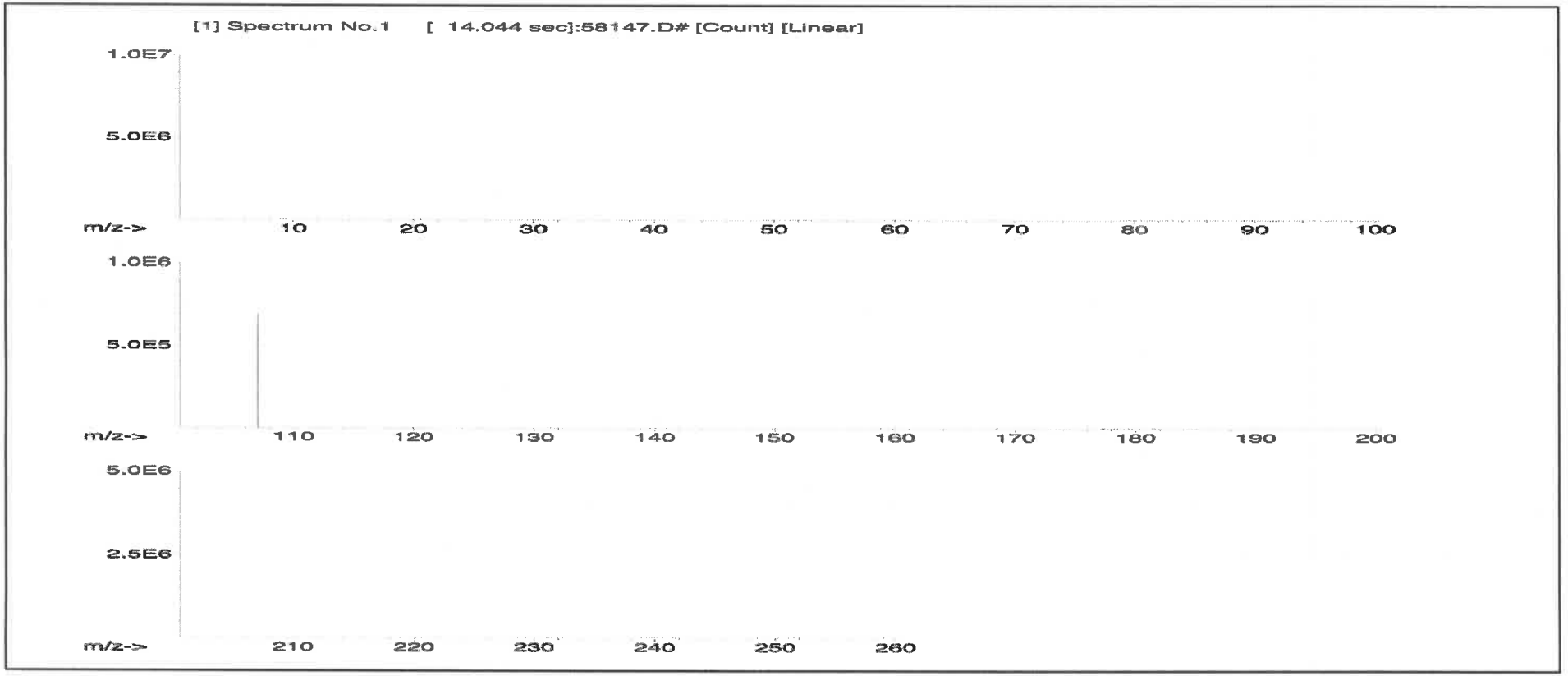
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance 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



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	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

M6023

R ! 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (Tl)

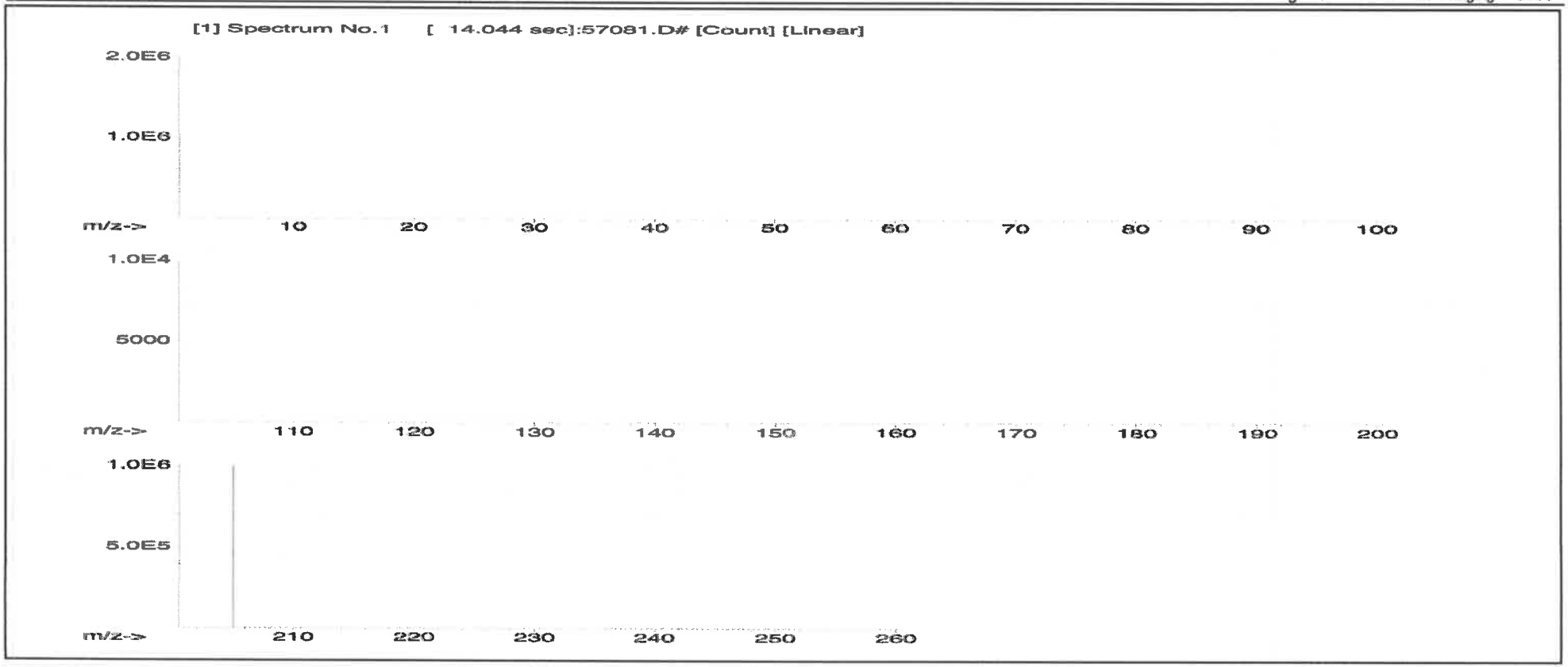
Expiration Date: 062727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.1

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.10	Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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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	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.
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Certified Reference Material CRM

M6021

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AR-1539 Certificate Number
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Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
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	

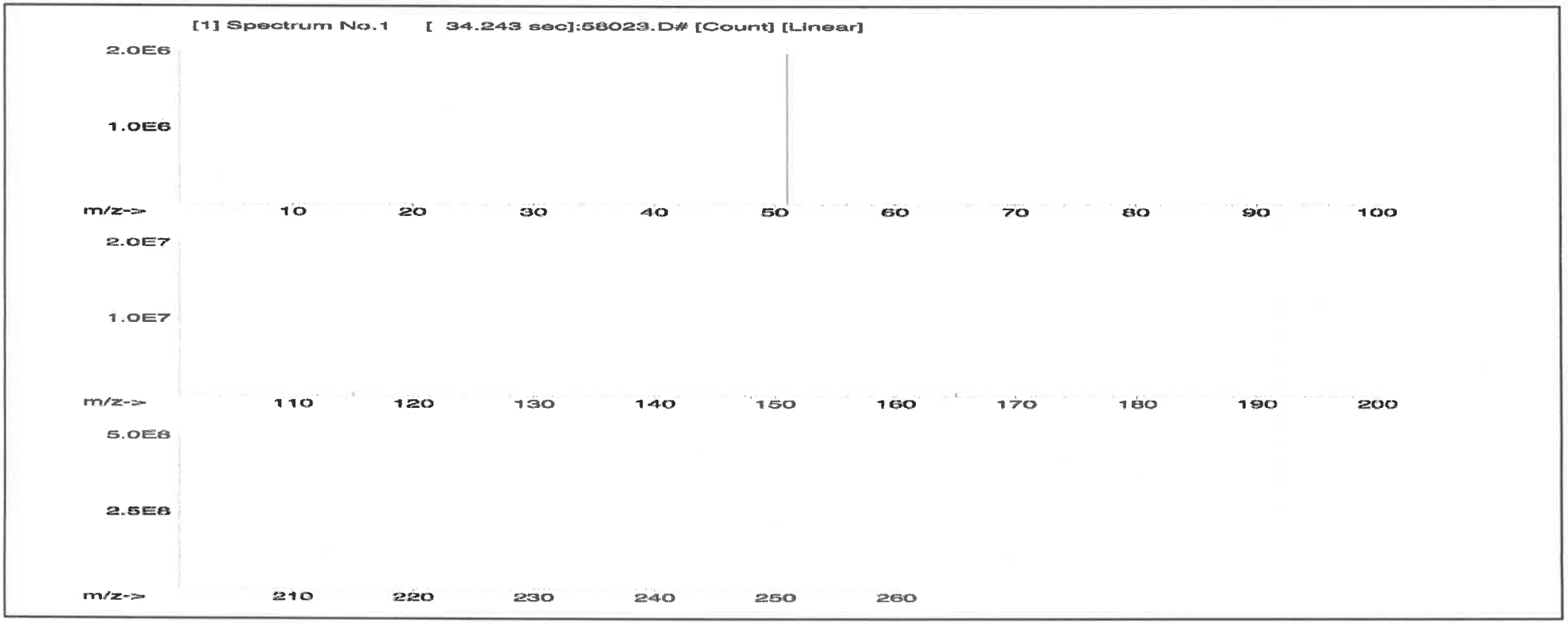
Aleah O'Brady

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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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	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

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SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P5316
COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: SEE CONTRACT PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: Soil IDW	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie.wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 48hrs DAYS*
HARD COPY: 48hrs DAYS*
EDD 48hrs DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
	NYSDEC 375-6.8(b) VOC	% Solids	NYSDEC 375-6.8(b) Metals	NYSDEC-375-6.8(b) PCB/Pest; NYSDEC 375-6.8(b) SVOCs					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TT-304-IDWSO-20241217-1	SOIL	X		12/17/24	13:00	6	3	1	1	1						
2.	TT-304-IDWSO-20241217-2	SOIL	X		12/17/24	13:05	4	3	1								
3.	TT-304-IDWSO-20241217-3	SOIL	X		12/17/24	13:10	4	3	1								
4.	TT-304-IDWSO-20241217-4	SOIL	X		12/17/24	13:15	4	3	1								
5.	TT-304-IDWSO-20241217-5	SOIL	X		12/17/24	13:20	4	3	1								
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: 1 2 3 4 5 6 7 8 9

COMMENTS: <-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	12/17/24 1400	1. 1530 12-17-24
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	12-17-24 1830	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.9c
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:
Comments: 48 hrs TAT - CTO-WE13 Drilling Soil IDW Sampling - NYSDEC 375-6.8(b) VOC

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5316 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 12/17/2024 3:44:00 PM
Project Name : CTO WE13
Receive DateTime : 12/17/2024 ~~12:00:00~~ 18:30 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P5316-01	TT-304-IDWSO-20241217-1	Solid	12/17/2024	13:00						
					VOCMS Group4		8260D	~~10~~ Bus. Days	2 days	
P5316-02	TT-304-IDWSO-20241217-2	Solid	12/17/2024	13:05						
					VOCMS Group4		8260D	~~10~~ Bus. Days		
P5316-03	TT-304-IDWSO-20241217-3	Solid	12/17/2024	13:10						
					VOCMS Group4		8260D	~~10~~ Bus. Days		
P5316-04	TT-304-IDWSO-20241217-4	Solid	12/17/2024	13:15						
					VOCMS Group4		8260D	~~10~~ Bus. Days		
~~P5316-05~~	~~TT-304-IDWSO-20241217-5~~	~~Solid~~	~~12/17/2024~~	~~13:20~~						
					~~VOCMS Group4~~		~~8260D~~	~~10 Bus. Days~~		

Relinguished By : [signature]
Date / Time : 12-18-24 1045

Received By : [signature]
Date / Time : 12-17-24 10:45

Storage Area : VOA Refridgerator Room