284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P5051

Project ID : Industrial Wastewater Discharge Permit - Fall 2024

Client : New York City DEP of Environmental Protection/BWS

Lab Sample Number	Client Sample Number
P5051-01	14B-1
P5051-02	14B-2
P5051-03	14B-3
P5051-04	14B-4
P5051-05	P5051-04MS
P5051-06	P5051-04MSD
P5051-07	14B-(1-4)-COMP

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: 12/10/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5051**

	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: **PATEL VAISHALI** **Date:** **12/10/2024**

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LAB CHRONICLE

OrderID:	P5051	**OrderDate:**	12/2/2024 2:00:00 PM
Client:	New York City DEP of Environmental Protection/BWS	**Project:**	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5051-07	**14B-(1-4)-COMP**	**Water**			**12/02/24**			**12/02/24**
			Mercury	245.1		12/10/24	12/10/24	
			Metals ICP-Group1	200.7		12/04/24	12/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P5051 **Order ID:** P5051

Client: New York City DEP of Environmental Protection/BW **Project ID:** Industrial Wastewater Discharge Permit - Fa

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 14B-(1-4)-COMP								
P5051-07	14B-(1-4)-COMP	Water	Aluminum	745000		10.6	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Arsenic	71.8		2.84	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Barium	589		11.3	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Cadmium	2.90	J	0.21	3.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Calcium	36200		51.8	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Chromium	20.8		0.52	5.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Cobalt	8.54	J	0.88	15.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Copper	501		1.52	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Iron	33700		12.4	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Lead	19.5		1.57	6.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Magnesium	8830		61.2	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Manganese	22000		0.87	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Mercury	1.11		0.022	0.20	ug/L
P5051-07	14B-(1-4)-COMP	Water	Nickel	22.9		1.28	20.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Potassium	3270		281	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Selenium	8.83	J	3.07	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Silver	2.62	J	0.83	5.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Sodium	35200		448	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Vanadium	32.8		2.40	20.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Zinc	128		1.44	20.0	ug/L



SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-(1-4)-COMP	SDG No.:	P5051
Lab Sample ID:	P5051-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	745000		1	10.6	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-36-0	Antimony	2.96	UN	1	2.96	25.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-38-2	Arsenic	71.8		1	2.84	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-39-3	Barium	589		1	11.3	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-41-7	Beryllium	0.19	U	1	0.19	3.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-43-9	Cadmium	2.90	J	1	0.21	3.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-70-2	Calcium	36200		1	51.8	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-47-3	Chromium	20.8		1	0.52	5.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-48-4	Cobalt	8.54	J	1	0.88	15.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-50-8	Copper	501		1	1.52	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-89-6	Iron	33700		1	12.4	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-92-1	Lead	19.5		1	1.57	6.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-95-4	Magnesium	8830		1	61.2	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-96-5	Manganese	22000		1	0.87	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-97-6	Mercury	1.11		1	0.022	0.20	ug/L	12/10/24 08:00	12/10/24 11:16	E245.1	
7440-02-0	Nickel	22.9		1	1.28	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-09-7	Potassium	3270		1	281	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7782-49-2	Selenium	8.83	J	1	3.07	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-22-4	Silver	2.62	J	1	0.83	5.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-23-5	Sodium	35200		1	448	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-28-0	Thallium	2.21	U	1	2.21	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-62-2	Vanadium	32.8		1	2.40	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-66-6	Zinc	128		1	1.44	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	

Color Before:	Brown	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	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: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
ICV14	Mercury	4.03	4.0	101	95 - 105	CV	12/10/2024	10:09	LB133852

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV10	Mercury	5.46	5.0	109	90 - 110	CV	12/10/2024	10:29	LB133852
CCV11	Mercury	4.69	5.0	94	90 - 110	CV	12/10/2024	11:26	LB133852
CCV12	Mercury	5.35	5.0	107	90 - 110	CV	12/10/2024	11:44	LB133852

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	2530	2500	101	95 - 105	P	12/05/2024	13:53	LB133769
	Antimony	982	1000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Arsenic	965	1000	96	95 - 105	P	12/05/2024	13:53	LB133769
	Barium	519	520	100	95 - 105	P	12/05/2024	13:53	LB133769
	Beryllium	520	510	102	95 - 105	P	12/05/2024	13:53	LB133769
	Cadmium	500	510	98	95 - 105	P	12/05/2024	13:53	LB133769
	Calcium	9900	10000	99	95 - 105	P	12/05/2024	13:53	LB133769
	Chromium	523	520	101	95 - 105	P	12/05/2024	13:53	LB133769
	Cobalt	505	520	97	95 - 105	P	12/05/2024	13:53	LB133769
	Copper	512	510	100	95 - 105	P	12/05/2024	13:53	LB133769
	Iron	9730	10000	97	95 - 105	P	12/05/2024	13:53	LB133769
	Lead	986	1000	99	95 - 105	P	12/05/2024	13:53	LB133769
	Magnesium	5850	6000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Manganese	519	520	100	95 - 105	P	12/05/2024	13:53	LB133769
	Nickel	508	530	96	95 - 105	P	12/05/2024	13:53	LB133769
	Potassium	9590	9900	97	95 - 105	P	12/05/2024	13:53	LB133769
	Selenium	999	1000	100	95 - 105	P	12/05/2024	13:53	LB133769
	Silver	250	250	100	95 - 105	P	12/05/2024	13:53	LB133769
	Sodium	9810	10000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Thallium	1010	1000	101	95 - 105	P	12/05/2024	13:53	LB133769
	Vanadium	508	500	102	95 - 105	P	12/05/2024	13:53	LB133769
	Zinc	1020	1000	102	95 - 105	P	12/05/2024	13:53	LB133769

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	99.5	100	100	80 - 120	P	12/05/2024	14:05	LB133769
	Antimony	47.1	50.0	94	80 - 120	P	12/05/2024	14:05	LB133769
	Arsenic	20.4	20.0	102	80 - 120	P	12/05/2024	14:05	LB133769
	Barium	102	100	102	80 - 120	P	12/05/2024	14:05	LB133769
	Beryllium	6.14	6.0	102	80 - 120	P	12/05/2024	14:05	LB133769
	Cadmium	5.99	6.0	100	80 - 120	P	12/05/2024	14:05	LB133769
	Calcium	2050	2000	102	80 - 120	P	12/05/2024	14:05	LB133769
	Chromium	9.91	10.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Cobalt	29.7	30.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Copper	21.8	20.0	109	80 - 120	P	12/05/2024	14:05	LB133769
	Iron	98.7	100	99	80 - 120	P	12/05/2024	14:05	LB133769
	Lead	11.8	12.0	98	80 - 120	P	12/05/2024	14:05	LB133769
	Magnesium	2150	2000	108	80 - 120	P	12/05/2024	14:05	LB133769
	Manganese	21.1	20.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Nickel	39.7	40.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Potassium	1950	2000	97	80 - 120	P	12/05/2024	14:05	LB133769
	Selenium	18.9	20.0	94	80 - 120	P	12/05/2024	14:05	LB133769
	Silver	10.1	10.0	101	80 - 120	P	12/05/2024	14:05	LB133769
	Sodium	1970	2000	98	80 - 120	P	12/05/2024	14:05	LB133769
	Thallium	41.8	40.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Vanadium	42.0	40.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Zinc	42.9	40.0	107	80 - 120	P	12/05/2024	14:05	LB133769

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	9910	10000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Antimony	4930	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Arsenic	4940	5000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Barium	9980	10000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Beryllium	247	250	99	90 - 110	P	12/05/2024	14:45	LB133769
	Cadmium	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Calcium	24500	25000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Chromium	996	1000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Cobalt	2440	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Copper	1250	1250	100	90 - 110	P	12/05/2024	14:45	LB133769
	Iron	4910	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Lead	4910	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Magnesium	24400	25000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Manganese	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Nickel	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Potassium	24900	25000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Selenium	4970	5000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	14:45	LB133769
	Sodium	25500	25000	102	90 - 110	P	12/05/2024	14:45	LB133769
	Thallium	4890	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Vanadium	2470	2500	99	90 - 110	P	12/05/2024	14:45	LB133769
	Zinc	2510	2500	100	90 - 110	P	12/05/2024	14:45	LB133769
CCV02	Aluminum	9550	10000	96	90 - 110	P	12/05/2024	15:34	LB133769
	Antimony	4740	5000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Arsenic	4770	5000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Barium	9480	10000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Beryllium	256	250	102	90 - 110	P	12/05/2024	15:34	LB133769
	Cadmium	2500	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Calcium	25500	25000	102	90 - 110	P	12/05/2024	15:34	LB133769
	Chromium	1010	1000	102	90 - 110	P	12/05/2024	15:34	LB133769
	Cobalt	2480	2500	99	90 - 110	P	12/05/2024	15:34	LB133769
	Copper	1200	1250	96	90 - 110	P	12/05/2024	15:34	LB133769
	Iron	4950	5000	99	90 - 110	P	12/05/2024	15:34	LB133769
	Lead	4970	5000	99	90 - 110	P	12/05/2024	15:34	LB133769

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV02	Magnesium	24900	25000	100	90 - 110	P	12/05/2024	15:34	LB133769
	Manganese	2510	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Nickel	2480	2500	99	90 - 110	P	12/05/2024	15:34	LB133769
	Potassium	22600	25000	90	90 - 110	P	12/05/2024	15:34	LB133769
	Selenium	4780	5000	96	90 - 110	P	12/05/2024	15:34	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	15:34	LB133769
	Sodium	22800	25000	91	90 - 110	P	12/05/2024	15:34	LB133769
	Thallium	4980	5000	100	90 - 110	P	12/05/2024	15:34	LB133769
	Vanadium	2490	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Zinc	2450	2500	98	90 - 110	P	12/05/2024	15:34	LB133769
CCV03	Aluminum	9830	10000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Antimony	4840	5000	97	90 - 110	P	12/05/2024	16:42	LB133769
	Arsenic	4860	5000	97	90 - 110	P	12/05/2024	16:42	LB133769
	Barium	9790	10000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Beryllium	256	250	102	90 - 110	P	12/05/2024	16:42	LB133769
	Cadmium	2520	2500	101	90 - 110	P	12/05/2024	16:42	LB133769
	Calcium	25300	25000	101	90 - 110	P	12/05/2024	16:42	LB133769
	Chromium	1020	1000	102	90 - 110	P	12/05/2024	16:42	LB133769
	Cobalt	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Copper	1220	1250	98	90 - 110	P	12/05/2024	16:42	LB133769
	Iron	4940	5000	99	90 - 110	P	12/05/2024	16:42	LB133769
	Lead	5020	5000	100	90 - 110	P	12/05/2024	16:42	LB133769
	Magnesium	25000	25000	100	90 - 110	P	12/05/2024	16:42	LB133769
	Manganese	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Nickel	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Potassium	23700	25000	95	90 - 110	P	12/05/2024	16:42	LB133769
	Selenium	4890	5000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Silver	1240	1250	99	90 - 110	P	12/05/2024	16:42	LB133769
	Sodium	24100	25000	96	90 - 110	P	12/05/2024	16:42	LB133769
	Thallium	5160	5000	103	90 - 110	P	12/05/2024	16:42	LB133769
	Vanadium	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Zinc	2520	2500	101	90 - 110	P	12/05/2024	16:42	LB133769
CCV04	Aluminum	9350	10000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Antimony	4630	5000	93	90 - 110	P	12/05/2024	17:41	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV04	Arsenic	4670	5000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Barium	9340	10000	93	90 - 110	P	12/05/2024	17:41	LB133769
	Beryllium	255	250	102	90 - 110	P	12/05/2024	17:41	LB133769
	Cadmium	2480	2500	99	90 - 110	P	12/05/2024	17:41	LB133769
	Calcium	25000	25000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Chromium	997	1000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Cobalt	2440	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Copper	1170	1250	94	90 - 110	P	12/05/2024	17:41	LB133769
	Iron	4760	5000	95	90 - 110	P	12/05/2024	17:41	LB133769
	Lead	4910	5000	98	90 - 110	P	12/05/2024	17:41	LB133769
	Magnesium	24300	25000	97	90 - 110	P	12/05/2024	17:41	LB133769
	Manganese	2450	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Nickel	2450	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Potassium	26100	25000	104	90 - 110	P	12/05/2024	17:41	LB133769
	Selenium	4700	5000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Silver	1200	1250	96	90 - 110	P	12/05/2024	17:41	LB133769
	Sodium	25600	25000	102	90 - 110	P	12/05/2024	17:41	LB133769
	Thallium	5020	5000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Vanadium	2440	2500	97	90 - 110	P	12/05/2024	17:41	LB133769
	Zinc	2380	2500	95	90 - 110	P	12/05/2024	17:41	LB133769
CCV05	Aluminum	9350	10000	94	90 - 110	P	12/05/2024	18:39	LB133769
	Antimony	4500	5000	90	90 - 110	P	12/05/2024	18:39	LB133769
	Arsenic	4580	5000	92	90 - 110	P	12/05/2024	18:39	LB133769
	Barium	9210	10000	92	90 - 110	P	12/05/2024	18:39	LB133769
	Beryllium	266	250	106	90 - 110	P	12/05/2024	18:39	LB133769
	Cadmium	2540	2500	102	90 - 110	P	12/05/2024	18:39	LB133769
	Calcium	25500	25000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Chromium	1030	1000	103	90 - 110	P	12/05/2024	18:39	LB133769
	Cobalt	2490	2500	99	90 - 110	P	12/05/2024	18:39	LB133769
	Copper	1140	1250	91	90 - 110	P	12/05/2024	18:39	LB133769
	Iron	4770	5000	95	90 - 110	P	12/05/2024	18:39	LB133769
	Lead	5000	5000	100	90 - 110	P	12/05/2024	18:39	LB133769
	Magnesium	24800	25000	99	90 - 110	P	12/05/2024	18:39	LB133769
	Manganese	2470	2500	99	90 - 110	P	12/05/2024	18:39	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2490	2500	99	90 - 110	P	12/05/2024	18:39	LB133769
	Potassium	25400	25000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Selenium	4560	5000	91	90 - 110	P	12/05/2024	18:39	LB133769
	Silver	1210	1250	97	90 - 110	P	12/05/2024	18:39	LB133769
	Sodium	24800	25000	99	90 - 110	P	12/05/2024	18:39	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Vanadium	2460	2500	98	90 - 110	P	12/05/2024	18:39	LB133769
	Zinc	2390	2500	96	90 - 110	P	12/05/2024	18:39	LB133769
CCV06	Aluminum	9230	10000	92	90 - 110	P	12/05/2024	19:45	LB133769
	Antimony	4550	5000	91	90 - 110	P	12/05/2024	19:45	LB133769
	Arsenic	4640	5000	93	90 - 110	P	12/05/2024	19:45	LB133769
	Barium	9070	10000	91	90 - 110	P	12/05/2024	19:45	LB133769
	Beryllium	270	250	108	90 - 110	P	12/05/2024	19:45	LB133769
	Cadmium	2590	2500	104	90 - 110	P	12/05/2024	19:45	LB133769
	Calcium	25600	25000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Chromium	1030	1000	103	90 - 110	P	12/05/2024	19:45	LB133769
	Cobalt	2530	2500	101	90 - 110	P	12/05/2024	19:45	LB133769
	Copper	1160	1250	92	90 - 110	P	12/05/2024	19:45	LB133769
	Iron	4750	5000	95	90 - 110	P	12/05/2024	19:45	LB133769
	Lead	5080	5000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Magnesium	24800	25000	99	90 - 110	P	12/05/2024	19:45	LB133769
	Manganese	2490	2500	100	90 - 110	P	12/05/2024	19:45	LB133769
	Nickel	2530	2500	101	90 - 110	P	12/05/2024	19:45	LB133769
	Potassium	24800	25000	99	90 - 110	P	12/05/2024	19:45	LB133769
	Selenium	4610	5000	92	90 - 110	P	12/05/2024	19:45	LB133769
	Silver	1210	1250	97	90 - 110	P	12/05/2024	19:45	LB133769
	Sodium	23900	25000	96	90 - 110	P	12/05/2024	19:45	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Vanadium	2460	2500	98	90 - 110	P	12/05/2024	19:45	LB133769
	Zinc	2360	2500	95	90 - 110	P	12/05/2024	19:45	LB133769
CCV07	Aluminum	9400	10000	94	90 - 110	P	12/05/2024	20:23	LB133769
	Antimony	4510	5000	90	90 - 110	P	12/05/2024	20:23	LB133769
	Arsenic	4600	5000	92	90 - 110	P	12/05/2024	20:23	LB133769
	Barium	9140	10000	91	90 - 110	P	12/05/2024	20:23	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV07	Beryllium	264	250	106	90 - 110	P	12/05/2024	20:23	LB133769
	Cadmium	2600	2500	104	90 - 110	P	12/05/2024	20:23	LB133769
	Calcium	26300	25000	105	90 - 110	P	12/05/2024	20:23	LB133769
	Chromium	1050	1000	105	90 - 110	P	12/05/2024	20:23	LB133769
	Cobalt	2530	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Copper	1150	1250	92	90 - 110	P	12/05/2024	20:23	LB133769
	Iron	4830	5000	97	90 - 110	P	12/05/2024	20:23	LB133769
	Lead	5080	5000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Magnesium	25600	25000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Manganese	2540	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Nickel	2540	2500	102	90 - 110	P	12/05/2024	20:23	LB133769
	Potassium	25200	25000	101	90 - 110	P	12/05/2024	20:23	LB133769
	Selenium	4550	5000	91	90 - 110	P	12/05/2024	20:23	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	20:23	LB133769
	Sodium	24900	25000	100	90 - 110	P	12/05/2024	20:23	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Vanadium	2510	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Zinc	2430	2500	97	90 - 110	P	12/05/2024	20:23	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	2570	2500	103	95 - 105	P	12/06/2024	12:14	LB133790
	Antimony	1020	1000	102	95 - 105	P	12/06/2024	12:14	LB133790
	Arsenic	995	1000	100	95 - 105	P	12/06/2024	12:14	LB133790
	Barium	516	520	99	95 - 105	P	12/06/2024	12:14	LB133790
	Beryllium	518	510	102	95 - 105	P	12/06/2024	12:14	LB133790
	Cadmium	503	510	99	95 - 105	P	12/06/2024	12:14	LB133790
	Calcium	10100	10000	101	95 - 105	P	12/06/2024	12:14	LB133790
	Chromium	526	520	101	95 - 105	P	12/06/2024	12:14	LB133790
	Cobalt	512	520	98	95 - 105	P	12/06/2024	12:14	LB133790
	Copper	528	510	104	95 - 105	P	12/06/2024	12:14	LB133790
	Iron	9870	10000	99	95 - 105	P	12/06/2024	12:14	LB133790
	Lead	1000	1000	100	95 - 105	P	12/06/2024	12:14	LB133790
	Magnesium	5930	6000	99	95 - 105	P	12/06/2024	12:14	LB133790
	Manganese	521	520	100	95 - 105	P	12/06/2024	12:14	LB133790
	Nickel	514	530	97	95 - 105	P	12/06/2024	12:14	LB133790
	Potassium	9770	9900	99	95 - 105	P	12/06/2024	12:14	LB133790
	Selenium	1030	1000	103	95 - 105	P	12/06/2024	12:14	LB133790
	Silver	253	250	101	95 - 105	P	12/06/2024	12:14	LB133790
	Sodium	9550	10000	96	95 - 105	P	12/06/2024	12:14	LB133790
	Thallium	1040	1000	104	95 - 105	P	12/06/2024	12:14	LB133790
	Vanadium	513	500	102	95 - 105	P	12/06/2024	12:14	LB133790
	Zinc	1030	1000	103	95 - 105	P	12/06/2024	12:14	LB133790

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	105	100	105	80 - 120	P	12/06/2024	12:20	LB133790
	Antimony	51.1	50.0	102	80 - 120	P	12/06/2024	12:20	LB133790
	Arsenic	19.8	20.0	99	80 - 120	P	12/06/2024	12:20	LB133790
	Barium	96.9	100	97	80 - 120	P	12/06/2024	12:20	LB133790
	Beryllium	6.20	6.0	103	80 - 120	P	12/06/2024	12:20	LB133790
	Cadmium	5.98	6.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Calcium	2050	2000	102	80 - 120	P	12/06/2024	12:20	LB133790
	Chromium	10.0	10.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Cobalt	29.5	30.0	98	80 - 120	P	12/06/2024	12:20	LB133790
	Copper	22.1	20.0	111	80 - 120	P	12/06/2024	12:20	LB133790
	Iron	98.1	100	98	80 - 120	P	12/06/2024	12:20	LB133790
	Lead	10.5	12.0	88	80 - 120	P	12/06/2024	12:20	LB133790
	Magnesium	2140	2000	107	80 - 120	P	12/06/2024	12:20	LB133790
	Manganese	20.6	20.0	103	80 - 120	P	12/06/2024	12:20	LB133790
	Nickel	39.5	40.0	99	80 - 120	P	12/06/2024	12:20	LB133790
	Potassium	1890	2000	95	80 - 120	P	12/06/2024	12:20	LB133790
	Selenium	18.0	20.0	90	80 - 120	P	12/06/2024	12:20	LB133790
	Silver	10.6	10.0	106	80 - 120	P	12/06/2024	12:20	LB133790
	Sodium	1810	2000	90	80 - 120	P	12/06/2024	12:20	LB133790
	Thallium	40.1	40.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Vanadium	39.8	40.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Zinc	42.2	40.0	105	80 - 120	P	12/06/2024	12:20	LB133790

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	10000	10000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Antimony	4950	5000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Arsenic	5010	5000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Barium	9800	10000	98	90 - 110	P	12/06/2024	13:09	LB133790
	Beryllium	249	250	100	90 - 110	P	12/06/2024	13:09	LB133790
	Cadmium	2520	2500	101	90 - 110	P	12/06/2024	13:09	LB133790
	Calcium	24700	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Chromium	1020	1000	102	90 - 110	P	12/06/2024	13:09	LB133790
	Cobalt	2510	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Copper	1280	1250	102	90 - 110	P	12/06/2024	13:09	LB133790
	Iron	4940	5000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Lead	5020	5000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Magnesium	24800	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Manganese	2440	2500	98	90 - 110	P	12/06/2024	13:09	LB133790
	Nickel	2510	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Potassium	24700	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Selenium	5060	5000	101	90 - 110	P	12/06/2024	13:09	LB133790
	Silver	1250	1250	100	90 - 110	P	12/06/2024	13:09	LB133790
	Sodium	24300	25000	97	90 - 110	P	12/06/2024	13:09	LB133790
	Thallium	5050	5000	101	90 - 110	P	12/06/2024	13:09	LB133790
	Vanadium	2500	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Zinc	2550	2500	102	90 - 110	P	12/06/2024	13:09	LB133790
CCV02	Aluminum	9810	10000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Antimony	4850	5000	97	90 - 110	P	12/06/2024	13:38	LB133790
	Arsenic	4880	5000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Barium	9400	10000	94	90 - 110	P	12/06/2024	13:38	LB133790
	Beryllium	244	250	98	90 - 110	P	12/06/2024	13:38	LB133790
	Cadmium	2460	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Calcium	24200	25000	97	90 - 110	P	12/06/2024	13:38	LB133790
	Chromium	1010	1000	101	90 - 110	P	12/06/2024	13:38	LB133790
	Cobalt	2450	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Copper	1250	1250	100	90 - 110	P	12/06/2024	13:38	LB133790
	Iron	4810	5000	96	90 - 110	P	12/06/2024	13:38	LB133790
	Lead	4900	5000	98	90 - 110	P	12/06/2024	13:38	LB133790

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV02	Magnesium	24400	25000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Manganese	2360	2500	95	90 - 110	P	12/06/2024	13:38	LB133790
	Nickel	2450	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Potassium	23900	25000	96	90 - 110	P	12/06/2024	13:38	LB133790
	Selenium	4940	5000	99	90 - 110	P	12/06/2024	13:38	LB133790
	Silver	1230	1250	98	90 - 110	P	12/06/2024	13:38	LB133790
	Sodium	23500	25000	94	90 - 110	P	12/06/2024	13:38	LB133790
	Thallium	4910	5000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Vanadium	2440	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Zinc	2500	2500	100	90 - 110	P	12/06/2024	13:38	LB133790
CCV03	Aluminum	9820	10000	98	90 - 110	P	12/06/2024	14:42	LB133790
	Antimony	4780	5000	96	90 - 110	P	12/06/2024	14:42	LB133790
	Arsenic	4820	5000	96	90 - 110	P	12/06/2024	14:42	LB133790
	Barium	9370	10000	94	90 - 110	P	12/06/2024	14:42	LB133790
	Beryllium	245	250	98	90 - 110	P	12/06/2024	14:42	LB133790
	Cadmium	2450	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Calcium	24200	25000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Chromium	1000	1000	100	90 - 110	P	12/06/2024	14:42	LB133790
	Cobalt	2430	2500	97	90 - 110	P	12/06/2024	14:42	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	14:42	LB133790
	Iron	4770	5000	95	90 - 110	P	12/06/2024	14:42	LB133790
	Lead	4880	5000	98	90 - 110	P	12/06/2024	14:42	LB133790
	Magnesium	24300	25000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Manganese	2360	2500	94	90 - 110	P	12/06/2024	14:42	LB133790
	Nickel	2440	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Potassium	23300	25000	93	90 - 110	P	12/06/2024	14:42	LB133790
	Selenium	4870	5000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Silver	1210	1250	97	90 - 110	P	12/06/2024	14:42	LB133790
	Sodium	24900	25000	100	90 - 110	P	12/06/2024	14:42	LB133790
	Thallium	4850	5000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Vanadium	2450	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Zinc	2470	2500	99	90 - 110	P	12/06/2024	14:42	LB133790
CCV04	Aluminum	9820	10000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Antimony	4780	5000	96	90 - 110	P	12/06/2024	15:40	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV04	Arsenic	4870	5000	97	90 - 110	P	12/06/2024	15:40	LB133790
	Barium	9560	10000	96	90 - 110	P	12/06/2024	15:40	LB133790
	Beryllium	250	250	100	90 - 110	P	12/06/2024	15:40	LB133790
	Cadmium	2500	2500	100	90 - 110	P	12/06/2024	15:40	LB133790
	Calcium	24600	25000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Chromium	1020	1000	102	90 - 110	P	12/06/2024	15:40	LB133790
	Cobalt	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Copper	1240	1250	100	90 - 110	P	12/06/2024	15:40	LB133790
	Iron	4880	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Lead	4960	5000	99	90 - 110	P	12/06/2024	15:40	LB133790
	Magnesium	24800	25000	99	90 - 110	P	12/06/2024	15:40	LB133790
	Manganese	2420	2500	97	90 - 110	P	12/06/2024	15:40	LB133790
	Nickel	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Potassium	23500	25000	94	90 - 110	P	12/06/2024	15:40	LB133790
	Selenium	4910	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Silver	1230	1250	98	90 - 110	P	12/06/2024	15:40	LB133790
	Sodium	25600	25000	102	90 - 110	P	12/06/2024	15:40	LB133790
	Thallium	4910	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Vanadium	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Zinc	2430	2500	97	90 - 110	P	12/06/2024	15:40	LB133790
CCV05	Aluminum	9800	10000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Antimony	4730	5000	95	90 - 110	P	12/06/2024	16:35	LB133790
	Arsenic	4810	5000	96	90 - 110	P	12/06/2024	16:35	LB133790
	Barium	9510	10000	95	90 - 110	P	12/06/2024	16:35	LB133790
	Beryllium	250	250	100	90 - 110	P	12/06/2024	16:35	LB133790
	Cadmium	2460	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Calcium	24500	25000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Chromium	1010	1000	100	90 - 110	P	12/06/2024	16:35	LB133790
	Cobalt	2440	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	16:35	LB133790
	Iron	4850	5000	97	90 - 110	P	12/06/2024	16:35	LB133790
	Lead	4890	5000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Magnesium	24500	25000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Manganese	2420	2500	97	90 - 110	P	12/06/2024	16:35	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Potassium	23200	25000	93	90 - 110	P	12/06/2024	16:35	LB133790
	Selenium	4850	5000	97	90 - 110	P	12/06/2024	16:35	LB133790
	Silver	1220	1250	98	90 - 110	P	12/06/2024	16:35	LB133790
	Sodium	25300	25000	101	90 - 110	P	12/06/2024	16:35	LB133790
	Thallium	4820	5000	96	90 - 110	P	12/06/2024	16:35	LB133790
	Vanadium	2470	2500	99	90 - 110	P	12/06/2024	16:35	LB133790
	Zinc	2380	2500	95	90 - 110	P	12/06/2024	16:35	LB133790
CCV06	Aluminum	9980	10000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Antimony	4840	5000	97	90 - 110	P	12/06/2024	17:27	LB133790
	Arsenic	4950	5000	99	90 - 110	P	12/06/2024	17:27	LB133790
	Barium	9680	10000	97	90 - 110	P	12/06/2024	17:27	LB133790
	Beryllium	253	250	101	90 - 110	P	12/06/2024	17:27	LB133790
	Cadmium	2540	2500	102	90 - 110	P	12/06/2024	17:27	LB133790
	Calcium	24900	25000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Chromium	1030	1000	103	90 - 110	P	12/06/2024	17:27	LB133790
	Cobalt	2510	2500	100	90 - 110	P	12/06/2024	17:27	LB133790
	Copper	1260	1250	101	90 - 110	P	12/06/2024	17:27	LB133790
	Iron	4910	5000	98	90 - 110	P	12/06/2024	17:27	LB133790
	Lead	5020	5000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Magnesium	25000	25000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Manganese	2440	2500	98	90 - 110	P	12/06/2024	17:27	LB133790
	Nickel	2520	2500	101	90 - 110	P	12/06/2024	17:27	LB133790
	Potassium	23700	25000	95	90 - 110	P	12/06/2024	17:27	LB133790
	Selenium	5000	5000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Silver	1250	1250	100	90 - 110	P	12/06/2024	17:27	LB133790
	Sodium	22500	25000	90	90 - 110	P	12/06/2024	17:27	LB133790
	Thallium	4930	5000	99	90 - 110	P	12/06/2024	17:27	LB133790
	Vanadium	2520	2500	101	90 - 110	P	12/06/2024	17:27	LB133790
	Zinc	2480	2500	99	90 - 110	P	12/06/2024	17:27	LB133790
CCV07	Aluminum	9730	10000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Antimony	4710	5000	94	90 - 110	P	12/06/2024	18:21	LB133790
	Arsenic	4810	5000	96	90 - 110	P	12/06/2024	18:21	LB133790
	Barium	9300	10000	93	90 - 110	P	12/06/2024	18:21	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV07	Beryllium	251	250	101	90 - 110	P	12/06/2024	18:21	LB133790
	Cadmium	2490	2500	100	90 - 110	P	12/06/2024	18:21	LB133790
	Calcium	24400	25000	98	90 - 110	P	12/06/2024	18:21	LB133790
	Chromium	1010	1000	101	90 - 110	P	12/06/2024	18:21	LB133790
	Cobalt	2470	2500	99	90 - 110	P	12/06/2024	18:21	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	18:21	LB133790
	Iron	4760	5000	95	90 - 110	P	12/06/2024	18:21	LB133790
	Lead	4930	5000	99	90 - 110	P	12/06/2024	18:21	LB133790
	Magnesium	24500	25000	98	90 - 110	P	12/06/2024	18:21	LB133790
	Manganese	2400	2500	96	90 - 110	P	12/06/2024	18:21	LB133790
	Nickel	2470	2500	99	90 - 110	P	12/06/2024	18:21	LB133790
	Potassium	22800	25000	91	90 - 110	P	12/06/2024	18:21	LB133790
	Selenium	4860	5000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Silver	1220	1250	98	90 - 110	P	12/06/2024	18:21	LB133790
	Sodium	26000	25000	104	90 - 110	P	12/06/2024	18:21	LB133790
	Thallium	4870	5000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Vanadium	2460	2500	98	90 - 110	P	12/06/2024	18:21	LB133790
	Zinc	2440	2500	98	90 - 110	P	12/06/2024	18:21	LB133790

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Metals

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CRDL STANDARD FOR AA & ICP

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	99.1	100	99	40 - 160	P	12/05/2024	14:14	LB133769
	Antimony	45.8	50.0	92	40 - 160	P	12/05/2024	14:14	LB133769
	Arsenic	20.0	20.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Barium	102	100	102	40 - 160	P	12/05/2024	14:14	LB133769
	Beryllium	6.35	6.0	106	40 - 160	P	12/05/2024	14:14	LB133769
	Cadmium	6.02	6.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Calcium	2110	2000	105	40 - 160	P	12/05/2024	14:14	LB133769
	Chromium	9.82	10.0	98	40 - 160	P	12/05/2024	14:14	LB133769
	Cobalt	30.3	30.0	101	40 - 160	P	12/05/2024	14:14	LB133769
	Copper	21.6	20.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Iron	99.2	100	99	40 - 160	P	12/05/2024	14:14	LB133769
	Lead	11.8	12.0	98	40 - 160	P	12/05/2024	14:14	LB133769
	Magnesium	2190	2000	110	40 - 160	P	12/05/2024	14:14	LB133769
	Manganese	21.7	20.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Nickel	40.2	40.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Potassium	1880	2000	94	40 - 160	P	12/05/2024	14:14	LB133769
	Selenium	18.9	20.0	95	40 - 160	P	12/05/2024	14:14	LB133769
	Silver	10.0	10.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Sodium	1940	2000	97	40 - 160	P	12/05/2024	14:14	LB133769
	Thallium	43.9	40.0	110	40 - 160	P	12/05/2024	14:14	LB133769
	Vanadium	43.1	40.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Zinc	42.8	40.0	107	40 - 160	P	12/05/2024	14:14	LB133769
CRI01	Aluminum	105	100	104	40 - 160	P	12/06/2024	12:28	LB133790
	Antimony	50.1	50.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Arsenic	20.2	20.0	101	40 - 160	P	12/06/2024	12:28	LB133790
	Barium	97.5	100	98	40 - 160	P	12/06/2024	12:28	LB133790
	Beryllium	6.20	6.0	103	40 - 160	P	12/06/2024	12:28	LB133790
	Cadmium	5.89	6.0	98	40 - 160	P	12/06/2024	12:28	LB133790
	Calcium	2060	2000	103	40 - 160	P	12/06/2024	12:28	LB133790
	Chromium	10.0	10.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Cobalt	29.5	30.0	98	40 - 160	P	12/06/2024	12:28	LB133790
	Copper	22.0	20.0	110	40 - 160	P	12/06/2024	12:28	LB133790
	Iron	96.6	100	97	40 - 160	P	12/06/2024	12:28	LB133790
	Lead	11.1	12.0	93	40 - 160	P	12/06/2024	12:28	LB133790
	Magnesium	2160	2000	108	40 - 160	P	12/06/2024	12:28	LB133790
	Manganese	21.0	20.0	105	40 - 160	P	12/06/2024	12:28	LB133790

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Metals

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CRDL STANDARD FOR AA & ICP

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Nickel	40.0	40.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Potassium	1910	2000	96	40 - 160	P	12/06/2024	12:28	LB133790
	Selenium	19.8	20.0	99	40 - 160	P	12/06/2024	12:28	LB133790
	Silver	10.3	10.0	103	40 - 160	P	12/06/2024	12:28	LB133790
	Sodium	1810	2000	90	40 - 160	P	12/06/2024	12:28	LB133790
	Thallium	41.4	40.0	104	40 - 160	P	12/06/2024	12:28	LB133790
	Vanadium	40.3	40.0	101	40 - 160	P	12/06/2024	12:28	LB133790
	Zinc	42.4	40.0	106	40 - 160	P	12/06/2024	12:28	LB133790
CRA	Mercury	0.038	0.05	76	40 - 160	CV	12/10/2024	10:39	LB133852

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB14	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	10:17	LB133852

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	10:34	LB133852
CCB11	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	11:31	LB133852
CCB12	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	11:49	LB133852

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	14:10	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:10	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:10	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	14:10	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	14:10	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	14:10	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	14:10	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	14:50	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:50	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:50	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	14:50	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	14:50	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	14:50	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	14:50	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
CCB02	Aluminum	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	15:41	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	15:41	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	15:41	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	15:41	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	15:41	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	15:41	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	15:41	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
CCB03	Aluminum	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	16:46	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	16:46	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	16:46	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	16:46	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	16:46	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	16:46	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	16:46	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
CCB04	Aluminum	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	17:47	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	17:47	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	17:47	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	17:47	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	17:47	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	17:47	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	17:47	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
CCB05	Aluminum	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	18:43	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	18:43	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	18:43	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	18:43	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	18:43	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	18:43	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	18:43	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
CCB06	Aluminum	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	19:50	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	19:50	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	19:50	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	19:50	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	19:50	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	19:50	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	19:50	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
CCB07	Aluminum	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	20:27	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	20:27	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	20:27	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	20:27	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	20:27	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	20:27	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	20:27	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	12:24	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	12:24	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	12:24	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	12:24	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	12:24	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	12:24	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	12:24	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	13:13	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:13	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:13	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	13:13	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	13:13	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	13:13	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	13:13	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
CCB02	Aluminum	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	13:42	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:42	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:42	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	13:42	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	13:42	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	13:42	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	13:42	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
CCB03	Aluminum	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	14:46	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	14:46	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	14:46	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	14:46	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	14:46	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	14:46	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	14:46	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
CCB04	Aluminum	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	15:44	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	15:44	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	15:44	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	15:44	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	15:44	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	15:44	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	15:44	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
CCB05	Aluminum	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	16:39	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	16:39	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	16:39	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	16:39	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	16:39	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	16:39	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	16:39	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
CCB06	Aluminum	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	17:31	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	17:31	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	17:31	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	17:31	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	17:31	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	17:31	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	17:31	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
CCB07	Aluminum	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	18:27	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	18:27	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	18:27	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	18:27	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	18:27	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	18:27	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	18:27	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790

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Metals
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PREPARATION BLANK SUMMARY

Client: New York City DEP of Environmental Protecti **SDG No.:** P5051

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165519BL		**WATER**		**Batch Number:**	**PB165519**		**Prep Date:**	**12/10/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	12/10/2024	10:53	LB133852

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: New York City DEP of Environmental Protecti **SDG No.:** P5051

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165365BL		**WATER**		**Batch Number:**	**PB165365**		**Prep Date:**	**12/04/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Antimony	25.0	<25.0	U	25.0	P	12/05/2024	19:04	LB133769
	Arsenic	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Barium	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Beryllium	3.00	<3.00	U	3.00	P	12/05/2024	19:04	LB133769
	Cadmium	3.00	<3.00	U	3.00	P	12/05/2024	19:04	LB133769
	Calcium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Chromium	5.00	<5.00	U	5.00	P	12/05/2024	19:04	LB133769
	Cobalt	15.0	<15.0	U	15.0	P	12/05/2024	19:04	LB133769
	Copper	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Iron	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Lead	6.00	<6.00	U	6.00	P	12/05/2024	19:04	LB133769
	Magnesium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Manganese	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Nickel	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Potassium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Selenium	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Silver	5.00	<5.00	U	5.00	P	12/05/2024	19:04	LB133769
	Sodium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Thallium	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Vanadium	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Zinc	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	272000	255000	107	216000	294000	12/05/2024	14:18	LB133769
	Antimony	-2.09			-50	50	12/05/2024	14:18	LB133769
	Arsenic	6.49			-20	20	12/05/2024	14:18	LB133769
	Barium	5.08	6.0	85	-94	106	12/05/2024	14:18	LB133769
	Beryllium	1.48			-6	6	12/05/2024	14:18	LB133769
	Cadmium	6.34	1.0	634	-5	7	12/05/2024	14:18	LB133769
	Calcium	261000	245000	106	208000	282000	12/05/2024	14:18	LB133769
	Chromium	57.9	52.0	111	42	62	12/05/2024	14:18	LB133769
	Cobalt	2.71			-30	30	12/05/2024	14:18	LB133769
	Copper	4.69	2.0	234	-18	22	12/05/2024	14:18	LB133769
	Iron	101000	101000	100	85600	116500	12/05/2024	14:18	LB133769
	Lead	7.21			-12	12	12/05/2024	14:18	LB133769
	Magnesium	283000	255000	111	216000	294000	12/05/2024	14:18	LB133769
	Manganese	1.73	7.0	25	-13	27	12/05/2024	14:18	LB133769
	Nickel	0.60	2.0	30	-38	42	12/05/2024	14:18	LB133769
	Potassium	41.3			0	0	12/05/2024	14:18	LB133769
	Selenium	-19.1			-20	20	12/05/2024	14:18	LB133769
	Silver	-5.85			-10	10	12/05/2024	14:18	LB133769
	Sodium	78.0			0	0	12/05/2024	14:18	LB133769
	Thallium	13.8			-40	40	12/05/2024	14:18	LB133769
	Vanadium	11.4			-40	40	12/05/2024	14:18	LB133769
	Zinc	8.24			-40	40	12/05/2024	14:18	LB133769
ICSAB01	Aluminum	253000	247000	102	209000	285000	12/05/2024	14:33	LB133769
	Antimony	590	618	96	525	711	12/05/2024	14:33	LB133769
	Arsenic	108	104	104	88.4	120	12/05/2024	14:33	LB133769
	Barium	515	537	96	437	637	12/05/2024	14:33	LB133769
	Beryllium	512	495	103	420	570	12/05/2024	14:33	LB133769
	Cadmium	991	972	102	826	1120	12/05/2024	14:33	LB133769
	Calcium	238000	235000	101	199000	271000	12/05/2024	14:33	LB133769
	Chromium	545	542	101	460	624	12/05/2024	14:33	LB133769
	Cobalt	499	476	105	404	548	12/05/2024	14:33	LB133769
	Copper	462	511	90	434	588	12/05/2024	14:33	LB133769
	Iron	93900	99300	95	84400	114500	12/05/2024	14:33	LB133769
	Lead	59.3	49.0	121	37	61	12/05/2024	14:33	LB133769
	Magnesium	259000	248000	104	210000	286000	12/05/2024	14:33	LB133769
	Manganese	496	507	98	430	584	12/05/2024	14:33	LB133769
	Nickel	1020	954	107	810	1100	12/05/2024	14:33	LB133769
	Potassium	28.1			0	0	12/05/2024	14:33	LB133769
	Selenium	32.5	46.0	71	26	66	12/05/2024	14:33	LB133769
	Silver	190	201	94	170	232	12/05/2024	14:33	LB133769
	Sodium	93.7			0	0	12/05/2024	14:33	LB133769
	Thallium	92.2	108	85	68	148	12/05/2024	14:33	LB133769

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Vanadium	498	491	101	417	565	12/05/2024	14:33	LB133769
	Zinc	953	952	100	809	1095	12/05/2024	14:33	LB133769
ICSA	Aluminum	258000	255000	101	216000	294000	12/05/2024	14:37	LB133769
	Antimony	-47.6			-50	50	12/05/2024	14:37	LB133769
	Arsenic	-11.5			-20	20	12/05/2024	14:37	LB133769
	Barium	-19.2	6.0	320	-94	106	12/05/2024	14:37	LB133769
	Beryllium	2.10			-6	6	12/05/2024	14:37	LB133769
	Cadmium	1.10	1.0	110	-5	7	12/05/2024	14:37	LB133769
	Calcium	257000	245000	105	208000	282000	12/05/2024	14:37	LB133769
	Chromium	51.3	52.0	99	42	62	12/05/2024	14:37	LB133769
	Cobalt	3.32			-30	30	12/05/2024	14:37	LB133769
	Copper	-1.04	2.0	52	-18	22	12/05/2024	14:37	LB133769
	Iron	101000	101000	100	85600	116500	12/05/2024	14:37	LB133769
	Lead	12.2			-12	12	12/05/2024	14:37	LB133769
	Magnesium	262000	255000	103	216000	294000	12/05/2024	14:37	LB133769
	Manganese	3.37	7.0	48	-13	27	12/05/2024	14:37	LB133769
	Nickel	-2.58	2.0	129	-38	42	12/05/2024	14:37	LB133769
	Potassium	-671			0	0	12/05/2024	14:37	LB133769
	Selenium	-22.5			-20	20	12/05/2024	14:37	LB133769
	Silver	3.21			-10	10	12/05/2024	14:37	LB133769
	Sodium	423			0	0	12/05/2024	14:37	LB133769
	Thallium	-14.7			-40	40	12/05/2024	14:37	LB133769
	Vanadium	37.2			-40	40	12/05/2024	14:37	LB133769
	Zinc	9.03			-40	40	12/05/2024	14:37	LB133769
ICSAB	Aluminum	257000	247000	104	209000	285000	12/05/2024	14:41	LB133769
	Antimony	558	618	90	525	711	12/05/2024	14:41	LB133769
	Arsenic	69.6	104	67	88.4	120	12/05/2024	14:41	LB133769
	Barium	522	537	97	437	637	12/05/2024	14:41	LB133769
	Beryllium	545	495	110	420	570	12/05/2024	14:41	LB133769
	Cadmium	1030	972	106	826	1120	12/05/2024	14:41	LB133769
	Calcium	256000	235000	109	199000	271000	12/05/2024	14:41	LB133769
	Chromium	597	542	110	460	624	12/05/2024	14:41	LB133769
	Cobalt	511	476	107	404	548	12/05/2024	14:41	LB133769
	Copper	518	511	101	434	588	12/05/2024	14:41	LB133769
	Iron	99800	99300	100	84400	114500	12/05/2024	14:41	LB133769
	Lead	44.7	49.0	91	37	61	12/05/2024	14:41	LB133769
	Magnesium	261000	248000	105	210000	286000	12/05/2024	14:41	LB133769
	Manganese	538	507	106	430	584	12/05/2024	14:41	LB133769
	Nickel	1030	954	108	810	1100	12/05/2024	14:41	LB133769
	Potassium	-884			0	0	12/05/2024	14:41	LB133769
	Selenium	23.2	46.0	50	26	66	12/05/2024	14:41	LB133769
	Silver	192	201	96	170	232	12/05/2024	14:41	LB133769

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Sodium	156			0	0	12/05/2024	14:41	LB133769
	Thallium	101	108	94	68	148	12/05/2024	14:41	LB133769
	Vanadium	521	491	106	417	565	12/05/2024	14:41	LB133769
	Zinc	1090	952	114	809	1095	12/05/2024	14:41	LB133769
ICSA01	Aluminum	267000	255000	105	216000	294000	12/06/2024	12:50	LB133790
	Antimony	-2.00			-50	50	12/06/2024	12:50	LB133790
	Arsenic	6.39			-20	20	12/06/2024	12:50	LB133790
	Barium	1.82	6.0	30	-94	106	12/06/2024	12:50	LB133790
	Beryllium	1.48			-6	6	12/06/2024	12:50	LB133790
	Cadmium	4.33	1.0	433	-5	7	12/06/2024	12:50	LB133790
	Calcium	250000	245000	102	208000	282000	12/06/2024	12:50	LB133790
	Chromium	58.3	52.0	112	42	62	12/06/2024	12:50	LB133790
	Cobalt	2.43			-30	30	12/06/2024	12:50	LB133790
	Copper	-0.59	2.0	30	-18	22	12/06/2024	12:50	LB133790
	Iron	101000	101000	100	85600	116500	12/06/2024	12:50	LB133790
	Lead	11.9			-12	12	12/06/2024	12:50	LB133790
	Magnesium	273000	255000	107	216000	294000	12/06/2024	12:50	LB133790
	Manganese	4.87	7.0	70	-13	27	12/06/2024	12:50	LB133790
	Nickel	32.9	2.0	1645	-38	42	12/06/2024	12:50	LB133790
	Potassium	14.1			0	0	12/06/2024	12:50	LB133790
	Selenium	-18.6			-20	20	12/06/2024	12:50	LB133790
	Silver	-1.23			-10	10	12/06/2024	12:50	LB133790
	Sodium	120			0	0	12/06/2024	12:50	LB133790
	Thallium	-2.74			-40	40	12/06/2024	12:50	LB133790
	Vanadium	8.34			-40	40	12/06/2024	12:50	LB133790
	Zinc	-6.25			-40	40	12/06/2024	12:50	LB133790
ICSAB01	Aluminum	264000	247000	107	209000	285000	12/06/2024	12:55	LB133790
	Antimony	608	618	98	525	711	12/06/2024	12:55	LB133790
	Arsenic	106	104	102	88.4	120	12/06/2024	12:55	LB133790
	Barium	501	537	93	437	637	12/06/2024	12:55	LB133790
	Beryllium	507	495	102	420	570	12/06/2024	12:55	LB133790
	Cadmium	1010	972	104	826	1120	12/06/2024	12:55	LB133790
	Calcium	246000	235000	105	199000	271000	12/06/2024	12:55	LB133790
	Chromium	561	542	104	460	624	12/06/2024	12:55	LB133790
	Cobalt	508	476	107	404	548	12/06/2024	12:55	LB133790
	Copper	486	511	95	434	588	12/06/2024	12:55	LB133790
	Iron	99200	99300	100	84400	114500	12/06/2024	12:55	LB133790
	Lead	60.5	49.0	124	37	61	12/06/2024	12:55	LB133790
	Magnesium	268000	248000	108	210000	286000	12/06/2024	12:55	LB133790
	Manganese	495	507	98	430	584	12/06/2024	12:55	LB133790
	Nickel	1030	954	108	810	1100	12/06/2024	12:55	LB133790
	Potassium	-35.5			0	0	12/06/2024	12:55	LB133790

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	33.1	46.0	72	26	66	12/06/2024	12:55	LB133790
	Silver	196	201	98	170	232	12/06/2024	12:55	LB133790
	Sodium	104			0	0	12/06/2024	12:55	LB133790
	Thallium	81.4	108	75	68	148	12/06/2024	12:55	LB133790
	Vanadium	501	491	102	417	565	12/06/2024	12:55	LB133790
	Zinc	942	952	99	809	1095	12/06/2024	12:55	LB133790
ICSA	Aluminum	249000	255000	98	216000	294000	12/06/2024	13:00	LB133790
	Antimony	-7.98			-50	50	12/06/2024	13:00	LB133790
	Arsenic	-32.4			-20	20	12/06/2024	13:00	LB133790
	Barium	-61.5	6.0	1025	-94	106	12/06/2024	13:00	LB133790
	Beryllium	3.42			-6	6	12/06/2024	13:00	LB133790
	Cadmium	2.74	1.0	274	-5	7	12/06/2024	13:00	LB133790
	Calcium	246000	245000	100	208000	282000	12/06/2024	13:00	LB133790
	Chromium	58.9	52.0	113	42	62	12/06/2024	13:00	LB133790
	Cobalt	3.44			-30	30	12/06/2024	13:00	LB133790
	Copper	0.47	2.0	23	-18	22	12/06/2024	13:00	LB133790
	Iron	96500	101000	96	85600	116500	12/06/2024	13:00	LB133790
	Lead	-15.2			-12	12	12/06/2024	13:00	LB133790
	Magnesium	252000	255000	99	216000	294000	12/06/2024	13:00	LB133790
	Manganese	2.53	7.0	36	-13	27	12/06/2024	13:00	LB133790
	Nickel	31.5	2.0	1575	-38	42	12/06/2024	13:00	LB133790
	Potassium	-1660			0	0	12/06/2024	13:00	LB133790
	Selenium	-11.4			-20	20	12/06/2024	13:00	LB133790
	Silver	9.42			-10	10	12/06/2024	13:00	LB133790
	Sodium	475			0	0	12/06/2024	13:00	LB133790
	Thallium	-11.5			-40	40	12/06/2024	13:00	LB133790
	Vanadium	3.28			-40	40	12/06/2024	13:00	LB133790
	Zinc	132			-40	40	12/06/2024	13:00	LB133790
ICSAB	Aluminum	254000	247000	103	209000	285000	12/06/2024	13:04	LB133790
	Antimony	579	618	94	525	711	12/06/2024	13:04	LB133790
	Arsenic	107	104	103	88.4	120	12/06/2024	13:04	LB133790
	Barium	440	537	82	437	637	12/06/2024	13:04	LB133790
	Beryllium	526	495	106	420	570	12/06/2024	13:04	LB133790
	Cadmium	1010	972	104	826	1120	12/06/2024	13:04	LB133790
	Calcium	250000	235000	106	199000	271000	12/06/2024	13:04	LB133790
	Chromium	585	542	108	460	624	12/06/2024	13:04	LB133790
	Cobalt	504	476	106	404	548	12/06/2024	13:04	LB133790
	Copper	522	511	102	434	588	12/06/2024	13:04	LB133790
	Iron	97400	99300	98	84400	114500	12/06/2024	13:04	LB133790
	Lead	50.0	49.0	102	37	61	12/06/2024	13:04	LB133790
	Magnesium	257000	248000	104	210000	286000	12/06/2024	13:04	LB133790
	Manganese	511	507	101	430	584	12/06/2024	13:04	LB133790

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Nickel	1050	954	110	810	1100	12/06/2024	13:04	LB133790
	Potassium	-1380			0	0	12/06/2024	13:04	LB133790
	Selenium	59.2	46.0	129	26	66	12/06/2024	13:04	LB133790
	Silver	193	201	96	170	232	12/06/2024	13:04	LB133790
	Sodium	520			0	0	12/06/2024	13:04	LB133790
	Thallium	80.1	108	74	68	148	12/06/2024	13:04	LB133790
	Vanadium	512	491	104	417	565	12/06/2024	13:04	LB133790
	Zinc	1200	952	126	809	1095	12/06/2024	13:04	LB133790

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metals
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MATRIX SPIKE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5068-07 **client id:** 14B-(1-4)-COMPMS

Percent Solids for Sample: NA **Spiked ID:** P5068-07MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	908000		849000		1000	5916		P
Antimony	ug/L	75 - 125	287		25.0	U	400	72	N	P
Arsenic	ug/L	75 - 125	492		81.0		400	103		P
Barium	ug/L	75 - 125	816		658		100	157		P
Beryllium	ug/L	75 - 125	108		3.00	U	100	108		P
Cadmium	ug/L	75 - 125	103		3.07		100	100		P
Calcium	ug/L	75 - 125	41000		37900		500	625		P
Chromium	ug/L	75 - 125	219		21.8		200	99		P
Cobalt	ug/L	75 - 125	109		8.61	J	100	101		P
Copper	ug/L	75 - 125	720		562		150	106		P
Iron	ug/L	75 - 125	39500		36100		1500	228		P
Lead	ug/L	75 - 125	470		22.6		500	90		P
Magnesium	ug/L	75 - 125	10000		8490		1000	155		P
Manganese	ug/L	75 - 125	26600	D	25900	D	100	660		P
Nickel	ug/L	75 - 125	272		25.3		250	99		P
Potassium	ug/L	75 - 125	9450		3350		5000	122		P
Selenium	ug/L	75 - 125	1040		10.1		1000	103		P
Silver	ug/L	75 - 125	47.3		3.01	J	37.5	118		P
Sodium	ug/L	75 - 125	38100		34400		1500	246		P
Thallium	ug/L	75 - 125	822		20.0	U	1000	82		P
Vanadium	ug/L	75 - 125	191		36.5		150	103		P
Zinc	ug/L	75 - 125	260		142		100	119		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5068-07 **client id:** 14B-(1-4)-COMPMSD

Percent Solids for Sample: NA **Spiked ID:** P5068-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	911000		849000		1000	6245		P
Antimony	ug/L	75 - 125	283		25.0	U	400	71	N	P
Arsenic	ug/L	75 - 125	492		81.0		400	103		P
Barium	ug/L	75 - 125	802		658		100	143		P
Beryllium	ug/L	75 - 125	107		3.00	U	100	107		P
Cadmium	ug/L	75 - 125	102		3.07		100	99		P
Calcium	ug/L	75 - 125	40600		37900		500	558		P
Chromium	ug/L	75 - 125	216		21.8		200	97		P
Cobalt	ug/L	75 - 125	107		8.61	J	100	99		P
Copper	ug/L	75 - 125	713		562		150	101		P
Iron	ug/L	75 - 125	39000		36100		1500	194		P
Lead	ug/L	75 - 125	467		22.6		500	89		P
Magnesium	ug/L	75 - 125	9950		8490		1000	147		P
Manganese	ug/L	75 - 125	26800	D	25900	D	100	866		P
Nickel	ug/L	75 - 125	267		25.3		250	97		P
Potassium	ug/L	75 - 125	9280		3350		5000	119		P
Selenium	ug/L	75 - 125	1030		10.1		1000	102		P
Silver	ug/L	75 - 125	46.9		3.01	J	37.5	117		P
Sodium	ug/L	75 - 125	37400		34400		1500	198		P
Thallium	ug/L	75 - 125	817		20.0	U	1000	82		P
Vanadium	ug/L	75 - 125	189		36.5		150	102		P
Zinc	ug/L	75 - 125	257		142		100	115		P

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metals
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MATRIX SPIKE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5192-02 **client id:** EFF-WASTE WATERMS

Percent Solids for Sample: NA **Spiked ID:** P5192-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.62		0.20	U	4.0	90		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5192-02 **client id:** EFF-WASTE WATERMSD

Percent Solids for Sample: NA **Spiked ID:** P5192-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.93		0.20	U	4.0	98		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Level:** LOW **Client ID:** 14B-(1-4)-COMPA

Sample ID: P5068-07 **Spiked ID:** P5068-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	85 - 115	284		25.0	U	400	71		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5068-07 **Client ID:** 14B-(1-4)-COMPDUP

Percent Solids for Sample: NA **Duplicate ID** P5068-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	849000		863000		2		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	81.0		81.9		1		P
Barium	ug/L	20	658		655		0		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.07		3.33		8		P
Calcium	ug/L	20	37900		38000		0		P
Chromium	ug/L	20	21.8		22.1		1		P
Cobalt	ug/L	20	8.61	J	8.69	J	1		P
Copper	ug/L	20	562		571		2		P
Iron	ug/L	20	36100		36100		0		P
Lead	ug/L	20	22.6		21.9		3		P
Magnesium	ug/L	20	8490		8540		1		P
Manganese	ug/L	20	25900	D	27000	D	4		P
Nickel	ug/L	20	25.3		25.6		1		P
Potassium	ug/L	20	3350		3380		1		P
Selenium	ug/L	20	10.1		10.8		7		P
Silver	ug/L	20	3.01	J	3.04	J	1		P
Sodium	ug/L	20	34400		34200		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	36.5		36.6		0		P
Zinc	ug/L	20	142		144		1		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5068-07MS **Client ID:** 14B-(1-4)-COMPMSD

Percent Solids for Sample: NA **Duplicate ID** P5068-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	908000		911000		0		P
Antimony	ug/L	20	287		283		1		P
Arsenic	ug/L	20	492		492		0		P
Barium	ug/L	20	816		802		2		P
Beryllium	ug/L	20	108		107		1		P
Cadmium	ug/L	20	103		102		1		P
Calcium	ug/L	20	41000		40600		1		P
Chromium	ug/L	20	219		216		1		P
Cobalt	ug/L	20	109		107		2		P
Copper	ug/L	20	720		713		1		P
Iron	ug/L	20	39500		39000		1		P
Lead	ug/L	20	470		467		1		P
Magnesium	ug/L	20	10000		9950		1		P
Manganese	ug/L	20	26600	D	26800	D	1		P
Nickel	ug/L	20	272		267		2		P
Potassium	ug/L	20	9450		9280		2		P
Selenium	ug/L	20	1040		1030		1		P
Silver	ug/L	20	47.3		46.9		1		P
Sodium	ug/L	20	38100		37400		2		P
Thallium	ug/L	20	822		817		1		P
Vanadium	ug/L	20	191		189		1		P
Zinc	ug/L	20	260		257		1		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5192-02 **Client ID:** EFF-WASTE WATERDUP

Percent Solids for Sample: NA **Duplicate ID** P5192-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			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

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5192-02MS **Client ID:** EFF-WASTE WATERMSD

Percent Solids for Sample: NA **Duplicate ID** P5192-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.62		3.93		8		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: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165365BS							
Aluminum	ug/L	1000	962		96	85 - 115	P
Antimony	ug/L	400	358		90	85 - 115	P
Arsenic	ug/L	400	360		90	85 - 115	P
Barium	ug/L	100	96.2		96	85 - 115	P
Beryllium	ug/L	100	93.4		93	85 - 115	P
Cadmium	ug/L	100	102		102	85 - 115	P
Calcium	ug/L	500	557	J	111	85 - 115	P
Chromium	ug/L	200	214		107	85 - 115	P
Cobalt	ug/L	100	102		102	85 - 115	P
Copper	ug/L	150	145		97	85 - 115	P
Iron	ug/L	1500	1450		97	85 - 115	P
Lead	ug/L	500	501		100	85 - 115	P
Magnesium	ug/L	1000	1050		105	85 - 115	P
Manganese	ug/L	100	108		108	85 - 115	P
Nickel	ug/L	250	255		102	85 - 115	P
Potassium	ug/L	5000	4900		98	85 - 115	P
Selenium	ug/L	1000	901		90	85 - 115	P
Silver	ug/L	37.5	37.1		99	85 - 115	P
Sodium	ug/L	1500	1280		85	85 - 115	P
Thallium	ug/L	1000	1020		102	85 - 115	P
Vanadium	ug/L	150	157		105	85 - 115	P
Zinc	ug/L	100	101		101	85 - 115	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165519BS							
Mercury	ug/L	4.0	3.96		99	85 - 115	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

14B-(1-4)-COMPL

Lab Name: Chemtech Consulting Group **Contract:** NEWY17

Lab Code: CHEM **Lb No.:** lb133790 **Lab Sample ID :** P5068-07L **SDG No.:** P5051

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	849000		895000		6		P
Antimony	25.0	U	125	U			P
Arsenic	81.0		74.3		8		P
Barium	658		645		2		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.07		2.23	J	27		P
Calcium	37900		39000		3		P
Chromium	21.8		22.9	J	5		P
Cobalt	8.61	J	8.80	J	2		P
Copper	562		642		14		P
Iron	36100		35300		2		P
Lead	22.6		35.2		55		P
Magnesium	8490		8720		3		P
Manganese	24200	OR	25800		6		P
Nickel	25.3		26.4	J	5		P
Potassium	3350		2790	J	17		P
Selenium	10.1		50.0	U	100.0		P
Silver	3.01	J	4.28	J	42		P
Sodium	34400		29800		13		P
Thallium	20.0	U	100	U			P
Vanadium	36.5		37.8	J	4		P
Zinc	142		136		4		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

EFF-WASTE WATERL

Lab Name: Chemtech Consulting Group **Contract:** NEWY17

Lab Code: CHEM **Lb No.:** lb133852 **Lab Sample ID :** P5192-02L **SDG No.:** P5051

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	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
Potassium	766.490	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	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
Potassium	766.490	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	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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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	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
Potassium	766.490	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	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
Potassium	766.490	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	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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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	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
Potassium	766.490	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	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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SAMPLE PREPARATION SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Method:**

Case No.: P5051 **SAS No.:** P5051

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165365**						
P5051-07	14B-(1-4)-COMP	SAM	WATER	12/04/2024	50.0	25.0	
P5068-07DUP	14B-(1-4)-COMPDUP	DUP	WATER	12/04/2024	50.0	25.0	
P5068-07MS	14B-(1-4)-COMPMS	MS	WATER	12/04/2024	50.0	25.0	
P5068-07MSD	14B-(1-4)-COMPMSD	MSD	WATER	12/04/2024	50.0	25.0	
PB165365BL	PB165365BL	MB	WATER	12/04/2024	50.0	25.0	
PB165365BS	PB165365BS	LCS	WATER	12/04/2024	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Method:**

Case No.: P5051 **SAS No.:** P5051

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165519**						
P5051-07	14B-(1-4)-COMP	SAM	WATER	12/10/2024	30.0	30.0	
P5192-02DUP	EFF-WASTE WATERDUP	DUP	WATER	12/10/2024	30.0	30.0	
P5192-02MS	EFF-WASTE WATERMS	MS	WATER	12/10/2024	30.0	30.0	
P5192-02MSD	EFF-WASTE WATERMSD	MSD	WATER	12/10/2024	30.0	30.0	
PB165519BL	PB165519BL	MB	WATER	12/10/2024	30.0	30.0	
PB165519BS	PB165519BS	LCS	WATER	12/10/2024	30.0	30.0	

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ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

Instrument id number: **Method:** **Run number:** LB133769

Start date: 12/05/2024 **End date:** 12/05/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1353	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1541	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1642	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1741	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165365BL	PB165365BL	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165365BS	PB165365BS	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1945	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1950	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2023	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2027	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

Instrument id number: **Method:** **Run number:** LB133790

Start date: 12/06/2024 **End date:** 12/06/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1152	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1157	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1214	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1313	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5051-07	14B-(1-4)-COMP	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07DUP	14B-(1-4)-COMPDUP	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1442	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1446	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07L	14B-(1-4)-COMPL	5	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07MS	14B-(1-4)-COMPMS	1	1455	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07MSD	14B-(1-4)-COMPMSD	1	1459	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07A	14B-(1-4)-COMPA	1	1503	Sb
CCV04	CCV04	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07DUP	14B-(1-4)-COMPDUP	5	1657	Mn
P5068-07MS	14B-(1-4)-COMPMS	5	1705	Mn
P5068-07MSD	14B-(1-4)-COMPMSD	5	1709	Mn
CCV06	CCV06	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1827	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

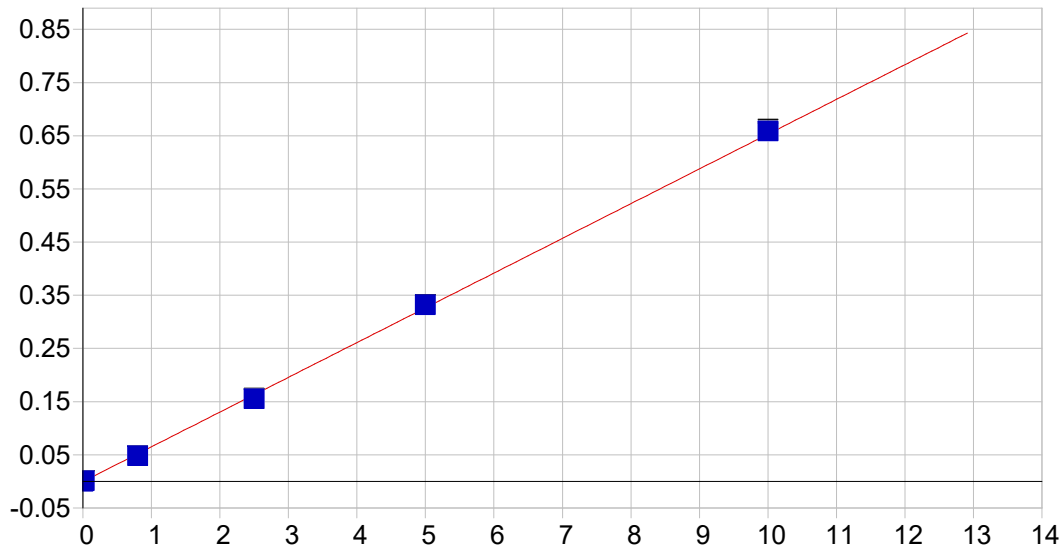
Instrument id number: **Method:** **Run number:** LB133852

Start date: 12/10/2024 **End date:** 12/10/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0937	HG
S0.05	S0.05	1	0942	HG
S0.2	S0.2	1	0944	HG
S2.5	S2.5	1	0947	HG
S5	S5	1	0949	HG
S7.5	S7.5	1	0951	HG
S10	S10	1	0959	HG
ICV14	ICV14	1	1009	HG
ICB14	ICB14	1	1017	HG
CCV10	CCV10	1	1029	HG
CCB10	CCB10	1	1034	HG
CRA	CRA	1	1039	HG
PB165519BL	PB165519BL	1	1053	HG
PB165519BS	PB165519BS	1	1102	HG
P5051-07	14B-(1-4)-COMP	1	1116	HG
CCV11	CCV11	1	1126	HG
CCB11	CCB11	1	1131	HG
P5192-02DUP	EFF-WASTE WATERDUP	1	1133	HG
P5192-02MS	EFF-WASTE WATERMS	1	1135	HG
P5192-02MSD	EFF-WASTE WATERMSD	1	1137	HG
P5192-02L	EFF-WASTE WATERL	5	1140	HG
CCV12	CCV12	1	1144	HG
CCB12	CCB12	1	1149	HG

METAL
RAW DATA

Reviewed By:
On:
Inst Id :P4
LB :LB133769



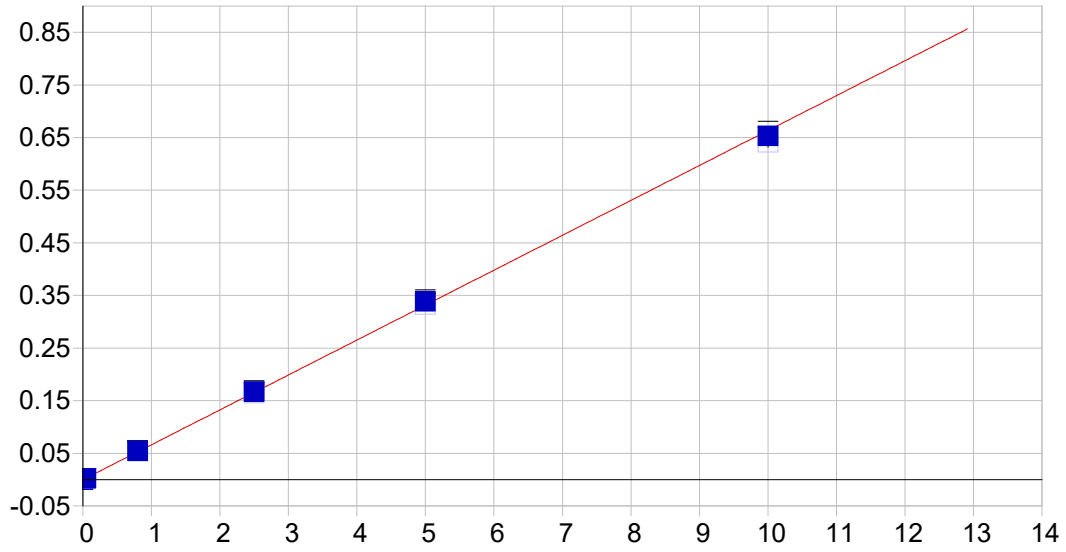
As 189.042 {479}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000289	Re-Slope:	1.000000
A1 (Gain):	0.065332	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999658	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.002514		
Predicted MQL:	0.008381		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00029	.000	1
S1	.02000	.02063	.001	3.15	.00105	.000	1
S3	2.5000	2.3842	-.116	-4.63	.15530	.001	1
S4	5.0000	5.0862	.086	1.72	.33165	.001	1
S5	10.000	10.091	.091	.911	.65828	.003	1
S2	.80000	.73790	-.062	-7.76	.04786	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



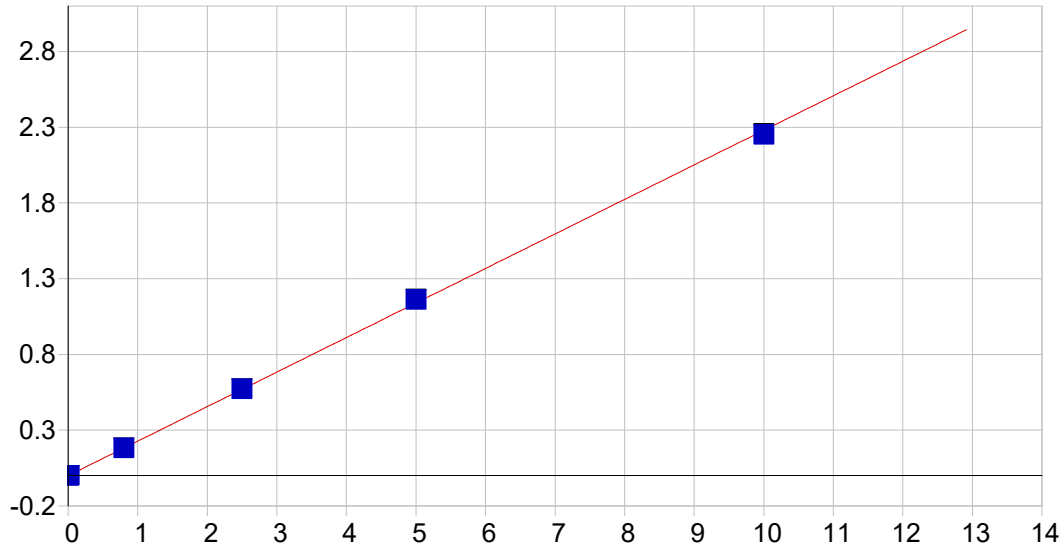
Tl 190.856 {477}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000223	Re-Slope:	1.000000
A1 (Gain):	0.066362	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.001934		
Predicted MQL:	0.006448		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00022	.000	1
S1	.04000	.04086	.001	2.15	.00232	.000	1
S3	2.5000	2.5209	.021	.837	.16401	.002	1
S4	5.0000	5.1067	.107	2.13	.33255	.003	1
S5	10.000	9.8465	-.154	-1.54	.64099	.009	1
S2	.80000	.82510	.025	3.14	.05355	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



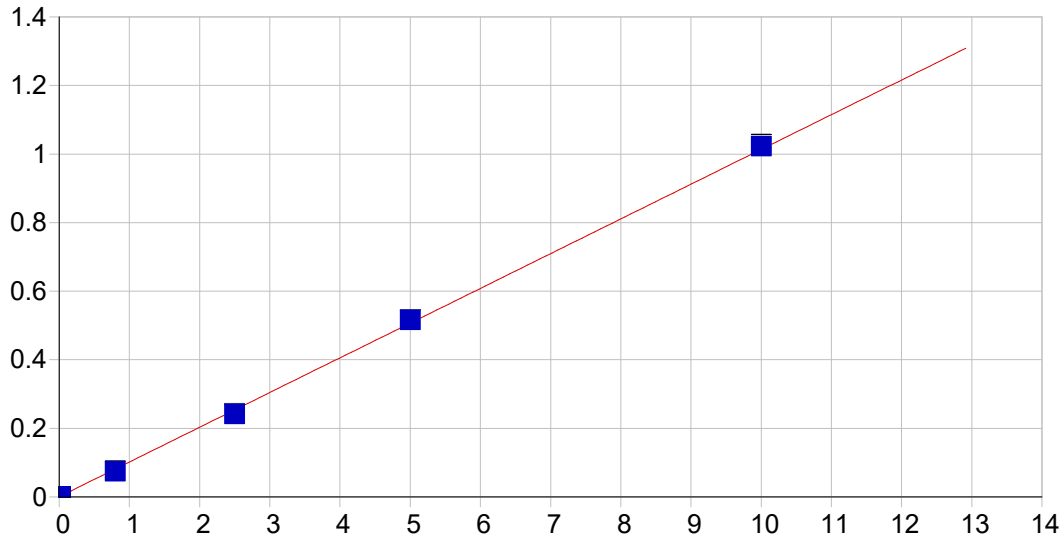
Pb 220.353 {453}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000469	Re-Slope:	1.000000
A1 (Gain):	0.228010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.001139		
Predicted MQL:	0.003797		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00047	.000	1
S1	.01200	.01283	.001	6.90	.00240	.000	1
S3	2.5000	2.5137	.014	.549	.57206	.001	1
S4	5.0000	5.0998	.100	2.00	1.1611	.003	1
S5	10.000	9.8821	-.118	-1.18	2.2502	.005	1
S2	.80000	.80360	.004	.450	.18256	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



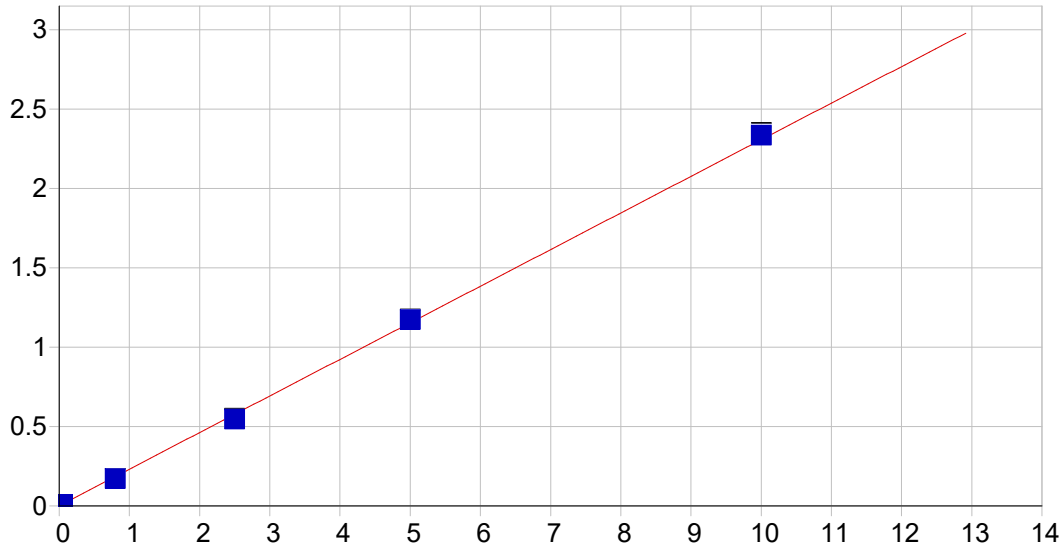
Se 196.090 {472}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000483	Re-Slope:	1.000000
A1 (Gain):	0.101288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999624	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	0.002109		
Predicted MQL:	0.007029		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00048	.000	1
S1	.02000	.01845	-.002	-7.77	.00235	.000	1
S3	2.5000	2.3809	-.119	-4.77	.24157	.002	1
S4	5.0000	5.0932	.093	1.86	.51623	.000	1
S5	10.000	10.093	.093	.932	1.0225	.006	1
S2	.80000	.73434	-.066	-8.21	.07484	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



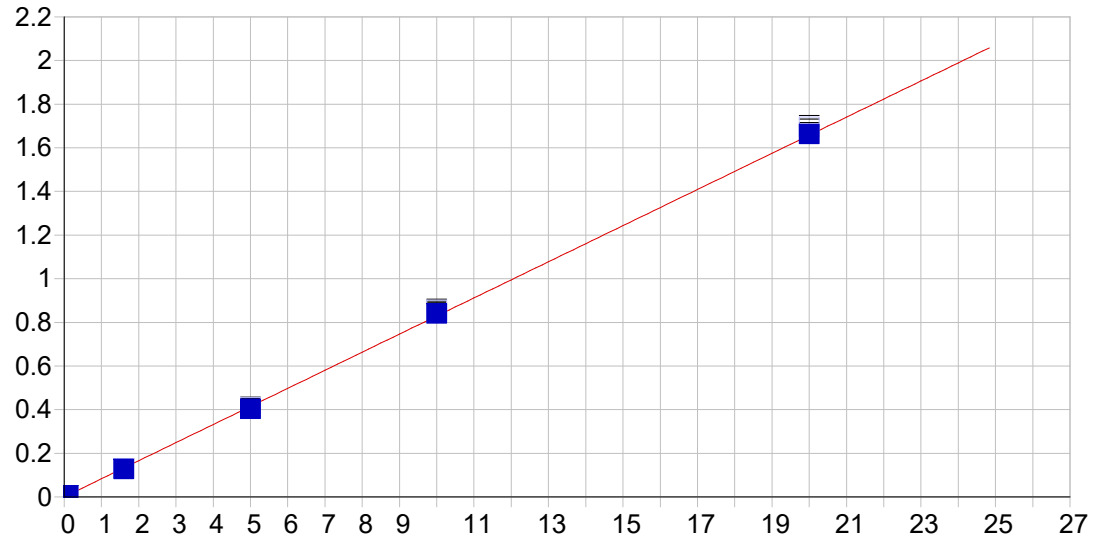
Sb 206.833 {463}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000727	Re-Slope:	1.000000
A1 (Gain):	0.230666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999565	Status:	OK.
Std Error of Est:	0.000253		
Predicted MDL:	0.001123		
Predicted MQL:	0.003742		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00073	.000	1
S1	.05000	.04477	-.005	-10.5	.01108	.000	1
S3	2.5000	2.3622	-.138	-5.51	.54717	.004	1
S4	5.0000	5.0818	.082	1.64	1.1761	.003	1
S5	10.000	10.125	.125	1.25	2.3424	.011	1
S2	.80000	.73654	-.063	-7.93	.17112	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



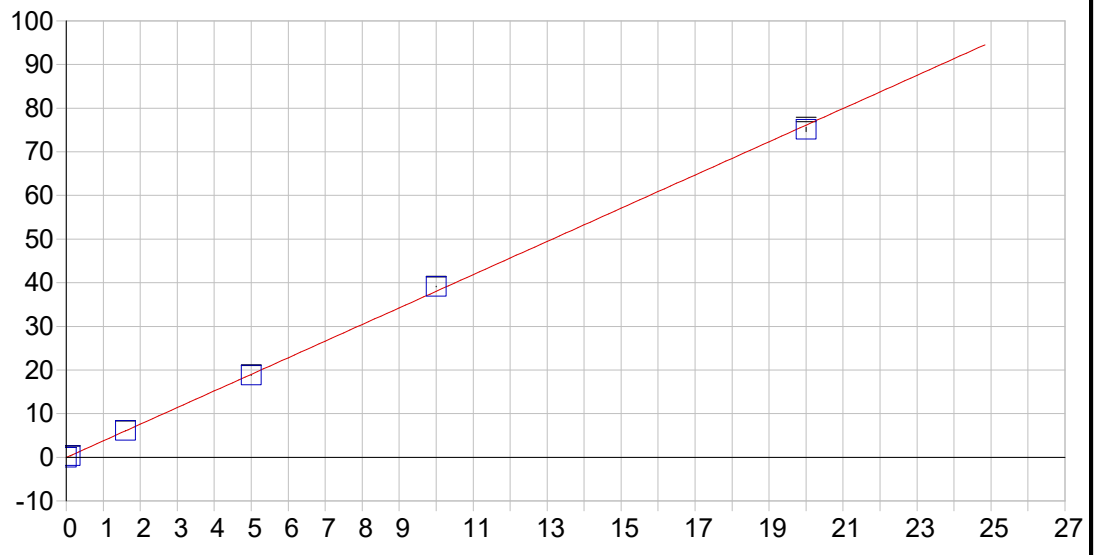
Al 396.152 { 85}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000318	Re-Slope:	1.000000
A1 (Gain):	0.082873	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000093		
Predicted MDL:	0.004478		
Predicted MQL:	0.014925		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00032	.000	1
S1	.10000	.09679	-.003	-3.21	.00898	.000	1
S3	5.0000	4.8580	-.142	-2.84	.41096	.001	1
S4	10.000	10.140	.140	1.40	.85670	.004	1
S5	20.000	20.064	.064	.322	1.6953	.008	1
S2	1.6000	1.5413	-.059	-3.67	.13062	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



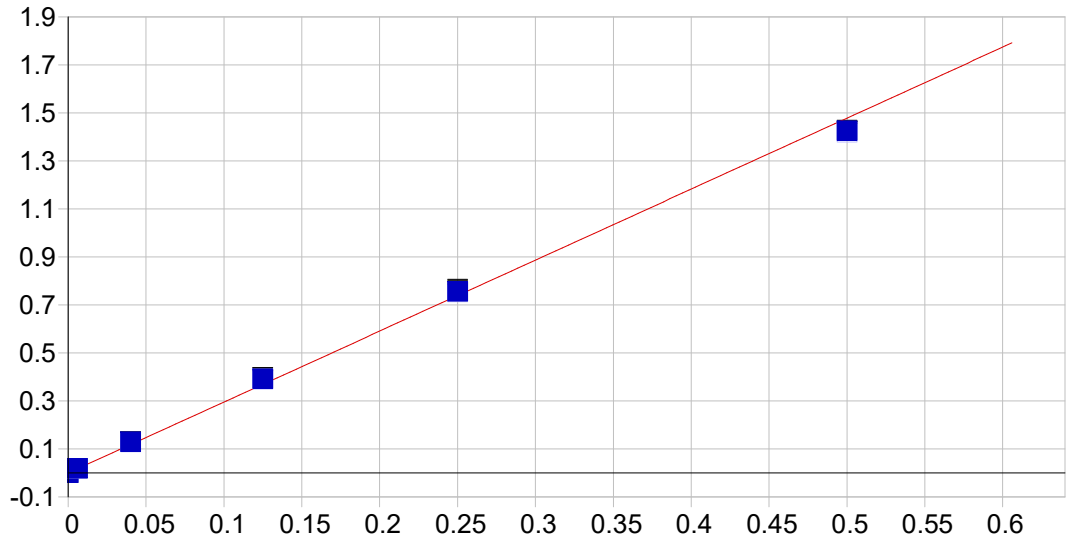
Ba 493.409 { 68}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.039219	Re-Slope:	1.000000
A1 (Gain):	3.807540	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999833	Status:	OK.
Std Error of Est:	0.005161		
Predicted MDL:	0.000389		
Predicted MQL:	0.001296		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.03924	.002	1
S1	.10000	.10304	.003	3.04	.35312	.002	1
S3	5.0000	4.9561	-.044	-.878	18.831	.065	1
S4	10.000	10.286	.286	2.86	39.126	.086	1
S5	20.000	19.738	-.262	-1.31	75.115	.516	1
S2	1.6000	1.6164	.016	1.03	6.1154	.020	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



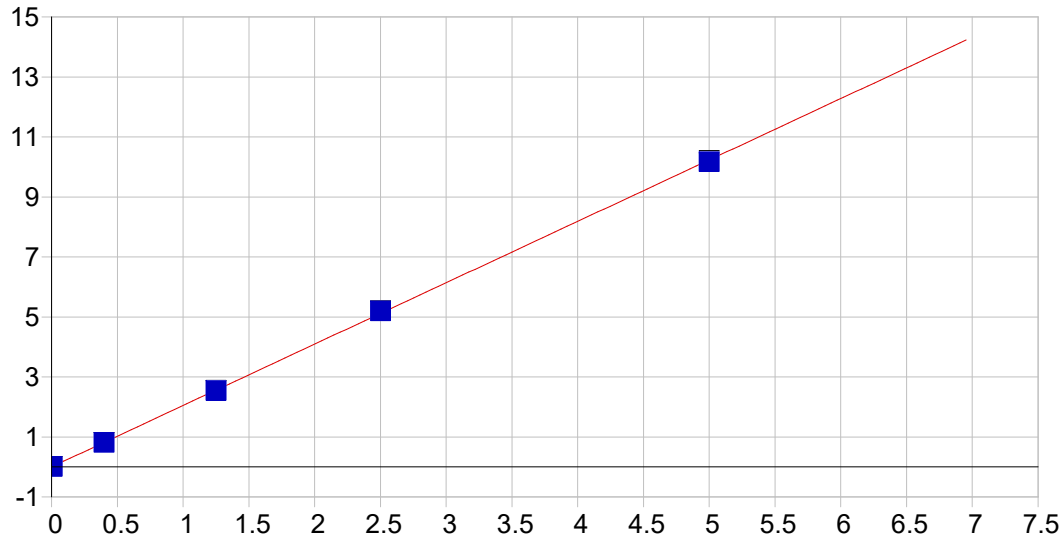
Be 234.861 {144}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000661	Re-Slope:	1.000000
A1 (Gain):	2.957728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999093	Status:	OK.
Std Error of Est:	0.000361		
Predicted MDL:	0.000065		
Predicted MQL:	0.000216		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00066	.000	1
S1	.00600	.00662	.001	10.4	.01880	.000	1
S3	.12500	.13263	.008	6.10	.38997	.005	1
S4	.25000	.25587	.006	2.35	.75282	.009	1
S5	.50000	.48214	-.018	-3.57	1.4187	.003	1
S2	.04000	.04374	.004	9.35	.12818	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



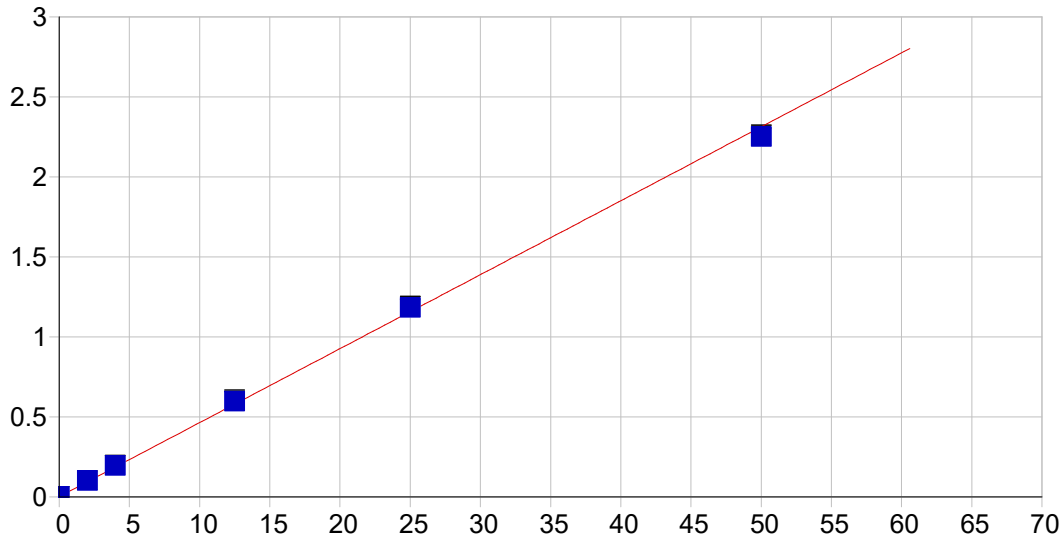
Cd 226.502 {449}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000232	Re-Slope:	1.000000
A1 (Gain):	2.046327	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000178		
Predicted MDL:	0.000097		
Predicted MQL:	0.000324		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00023	.000	1
S1	.00600	.00601	.000	.106	.01212	.000	1
S3	1.2500	1.2436	-.006	-.512	2.5467	.007	1
S4	2.5000	2.5390	.039	1.56	5.1996	.011	1
S5	5.0000	4.9687	-.031	-.625	10.176	.035	1
S2	.40000	.39866	-.001	-.334	.81623	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



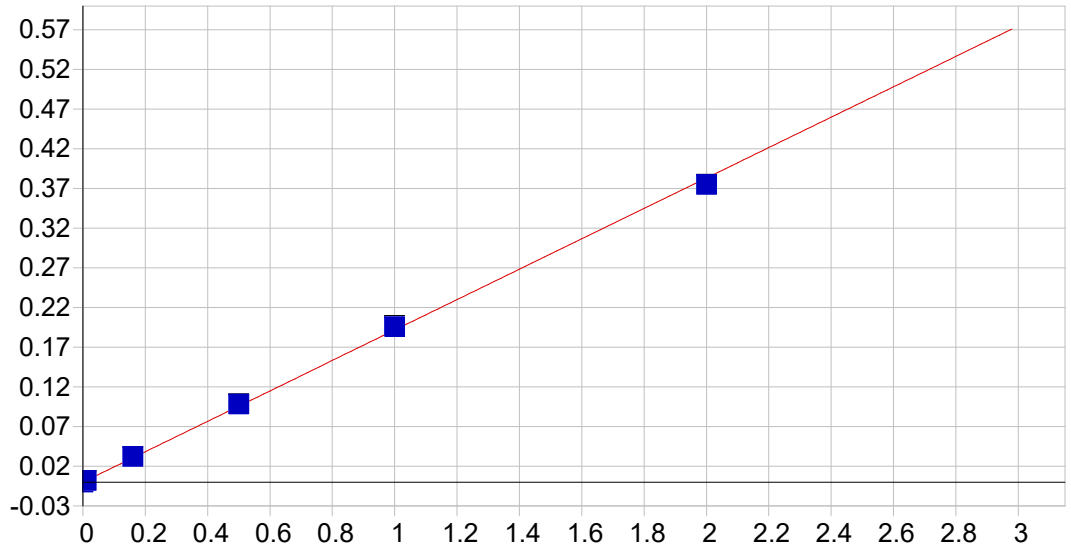
Ca 373.690 { 90}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002289	Re-Slope:	1.000000
A1 (Gain):	0.046215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999557	Status:	OK.
Std Error of Est:	0.000728		
Predicted MDL:	0.007612		
Predicted MQL:	0.025375		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00032	-.000	.000	.00227	.000	1
S2	4.0000	4.2074	.207	5.19	.19673	.001	1
S3	12.500	12.887	.387	3.10	.59786	.008	1
S4	25.000	25.559	.559	2.23	1.1835	.009	1
S5	50.000	48.686	-1.31	-2.63	2.2523	.010	1
S1	2.0000	2.1614	.161	8.07	.10218	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



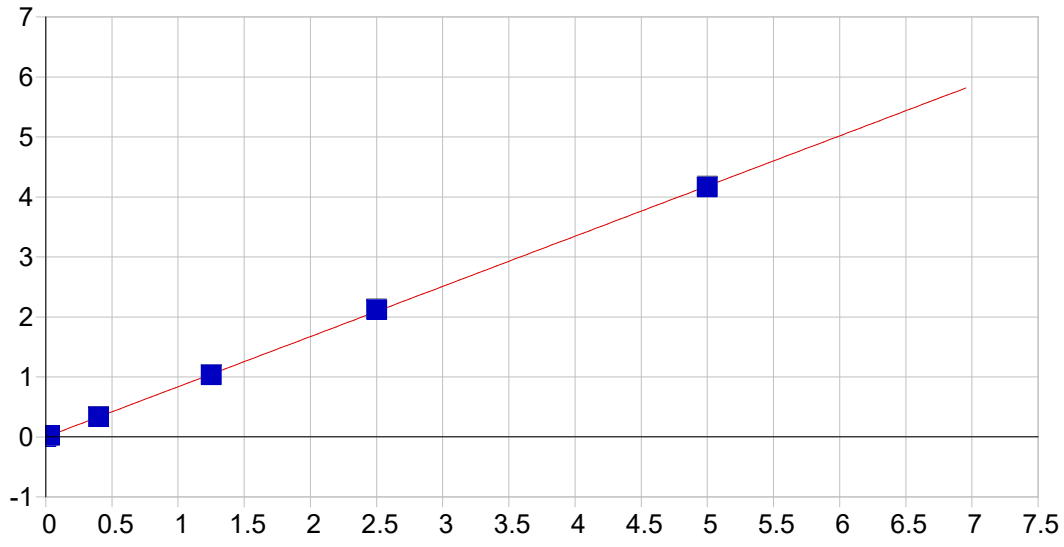
Cr 267.716 {126}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.191637	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999722	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000395		
Predicted MQL:	0.001315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00000	.000	1
S1	.01000	.00998	-.000	-.162	.00192	.000	1
S3	.50000	.51256	.013	2.51	.09826	.000	1
S4	1.0000	1.0231	.023	2.31	.19612	.001	1
S5	2.0000	1.9575	-.042	-2.12	.37525	.000	1
S2	.16000	.16684	.007	4.28	.03199	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



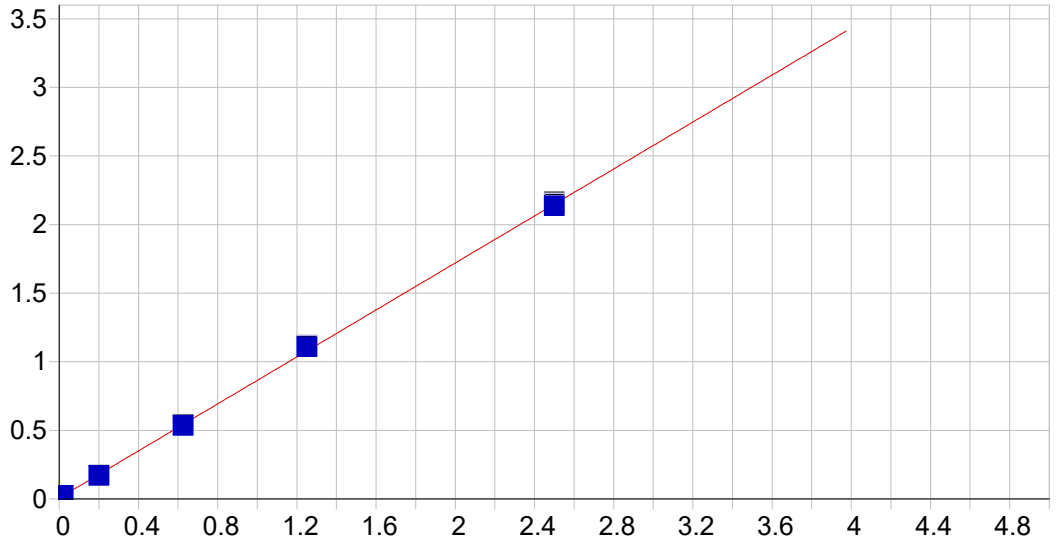
Co 228.616 {448}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000113	Re-Slope:	1.000000
A1 (Gain):	0.836279	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000157		
Predicted MDL:	0.000212		
Predicted MQL:	0.000708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00011	.000	1
S1	.03000	.03011	.000	.356	.02496	.000	1
S3	1.2500	1.2361	-.014	-1.11	1.0354	.001	1
S4	2.5000	2.5364	.036	1.46	2.1246	.004	1
S5	5.0000	4.9781	-.022	-.438	4.1701	.011	1
S2	.40000	.39924	-.001	-.191	.33433	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



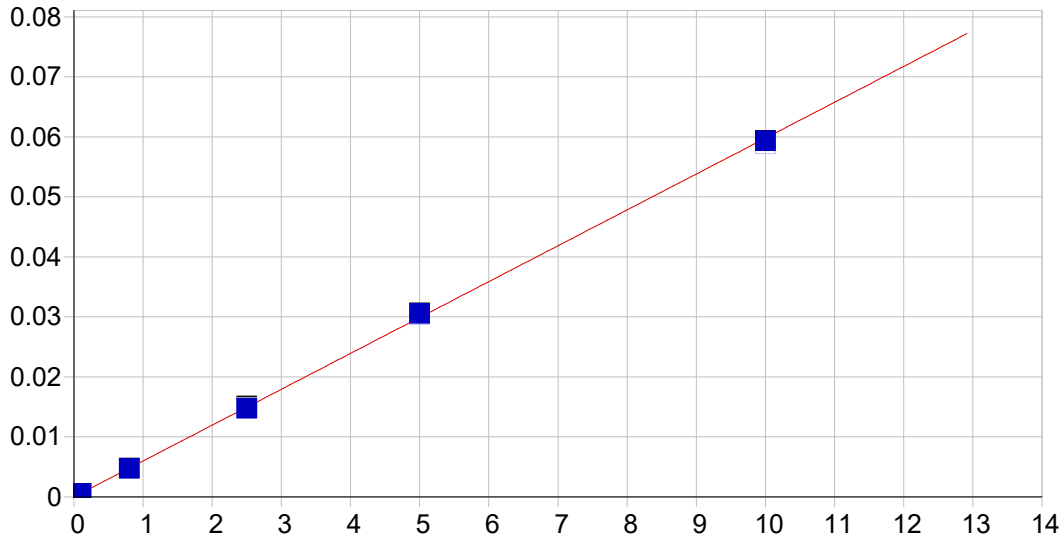
Cu 224.700 {450}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007670	Re-Slope:	1.000000
A1 (Gain):	0.856381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999793	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.000376		
Predicted MQL:	0.001254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00767	.000	1
S1	.02000	.02022	.000	1.09	.02520	.000	1
S3	.62500	.61435	-.011	-1.70	.53889	.003	1
S4	1.2500	1.2859	.036	2.87	1.1191	.001	1
S5	2.5000	2.4859	-.014	-.565	2.1569	.009	1
S2	.20000	.18865	-.011	-5.67	.17086	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



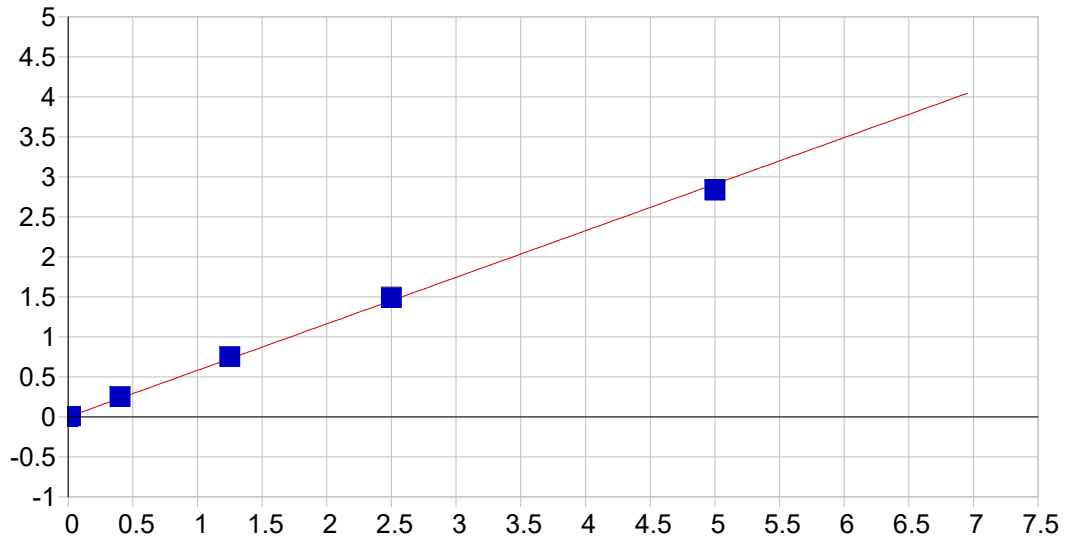
Fe 240.488 {140}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.005977	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.004074		
Predicted MQL:	0.013581		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.10000	.09746	-.003	-2.54	.00059	.000	1
S3	2.5000	2.4715	-.029	-1.14	.01465	.000	1
S4	5.0000	5.1137	.114	2.27	.03032	.000	1
S5	10.000	9.9248	-.075	-.752	.05882	.000	1
S2	.80000	.79257	-.007	-.929	.00471	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



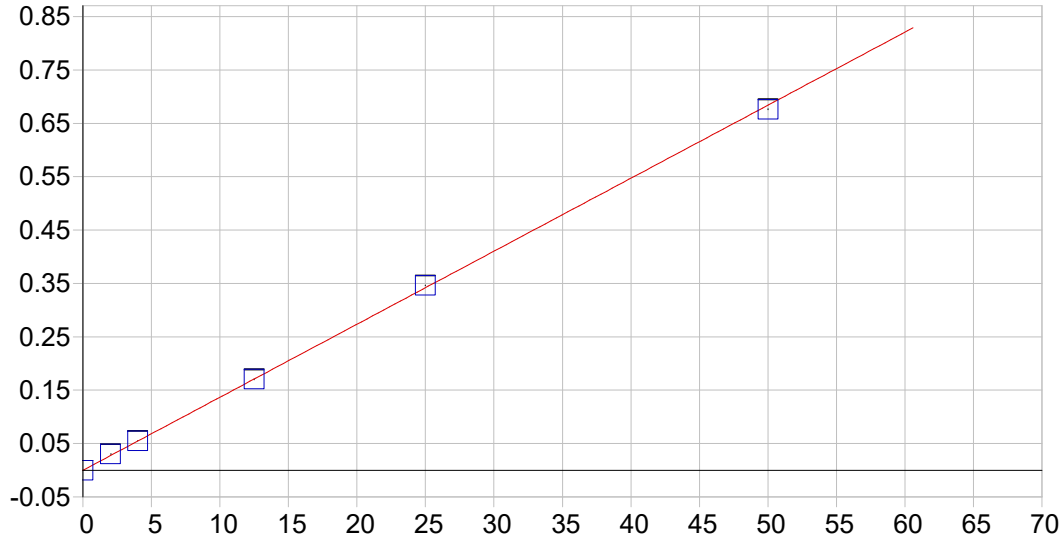
Mn 257.610 {131}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000025	Re-Slope:	1.000000
A1 (Gain):	0.581803	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999513	Status:	OK.
Std Error of Est:	0.000301		
Predicted MDL:	0.000263		
Predicted MQL:	0.000876		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.02000	.02228	.002	11.4	.01294	.000	1
S3	1.2500	1.2913	.041	3.30	.75140	.006	1
S4	2.5000	2.5601	.060	2.40	1.4897	.006	1
S5	5.0000	4.8661	-.134	-2.68	2.8317	.010	1
S2	.40000	.43029	.030	7.57	.25036	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



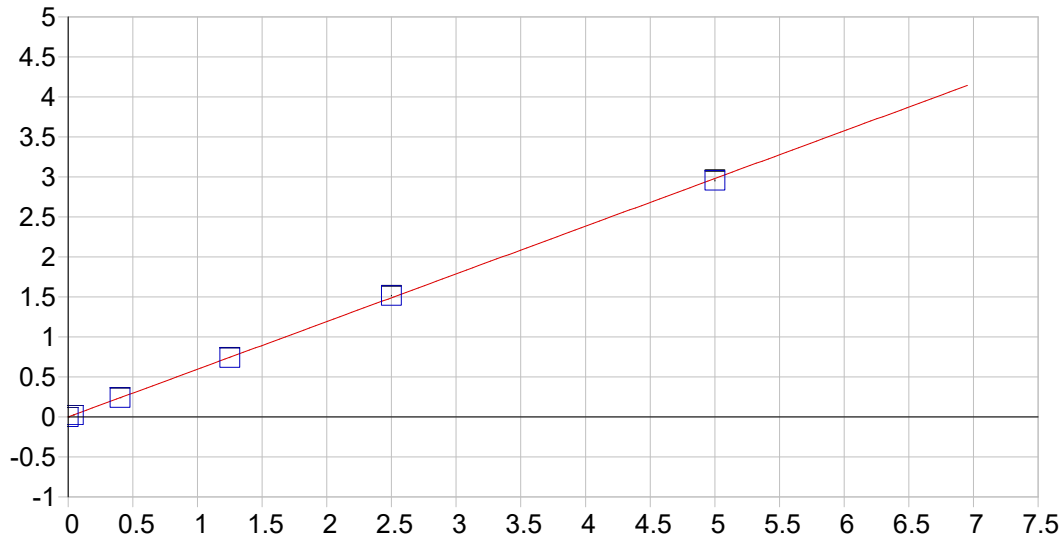
Mg 279.079 {121}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000139	Re-Slope:	1.000000
A1 (Gain):	0.013684	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.000141		
Predicted MDL:	0.011854		
Predicted MQL:	0.039515		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00024	-.000	.000	-.00014	.000	1
S2	4.0000	4.0373	.037	.933	.05511	.000	1
S3	12.500	12.461	-.039	-.311	.17037	.001	1
S4	25.000	25.334	.334	1.34	.34652	.001	1
S5	50.000	49.446	-.554	-1.11	.67646	.001	1
S1	2.0000	2.2217	.222	11.1	.03026	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



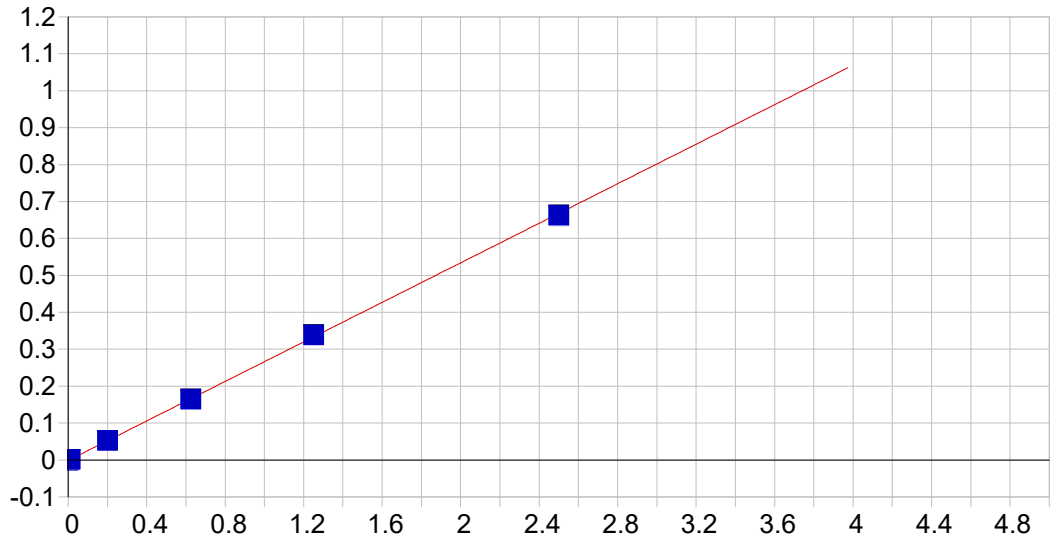
Ni 231.604 {446}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000077	Re-Slope:	1.000000
A1 (Gain):	0.595855	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000150		
Predicted MDL:	0.000333		
Predicted MQL:	0.001111		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.04000	.03967	-.000	-.835	.02371	.000	1
S3	1.2500	1.2440	-.006	-.477	.74134	.002	1
S4	2.5000	2.5424	.042	1.69	1.5149	.003	1
S5	5.0000	4.9618	-.038	-.763	2.9566	.008	1
S2	.40000	.40212	.002	.529	.23968	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



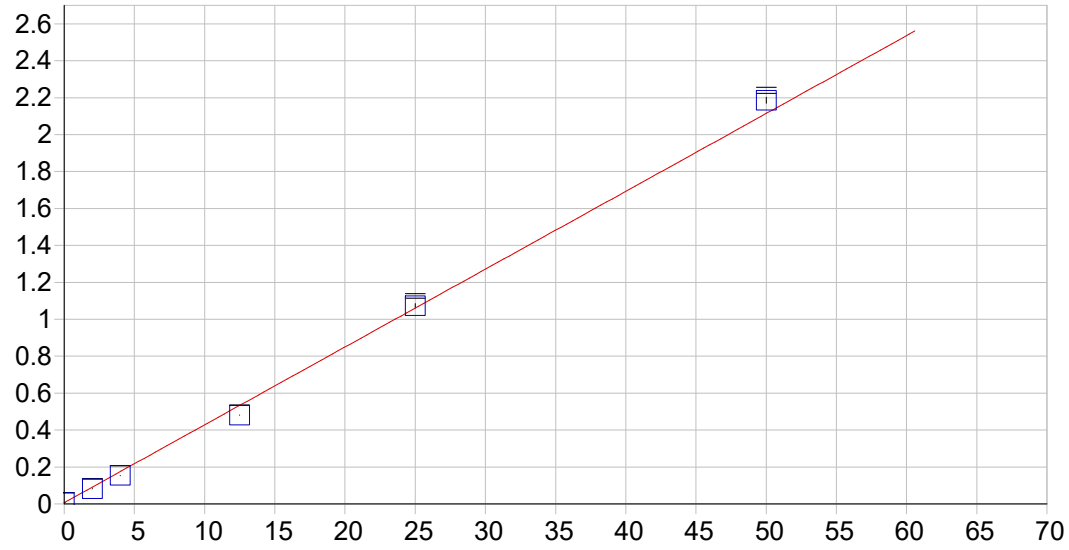
Ag 328.068 {103}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001427	Re-Slope:	1.000000
A1 (Gain):	0.267696	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000360		
Predicted MQL:	0.001201		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00143	.000	1
S1	.01000	.00997	-.000	-.319	.00122	.000	1
S3	.62500	.62046	-.005	-.726	.16400	.000	1
S4	1.2500	1.2708	.021	1.66	.33744	.000	1
S5	2.5000	2.4821	-.018	-.717	.66036	.001	1
S2	.20000	.20168	.002	.840	.05235	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



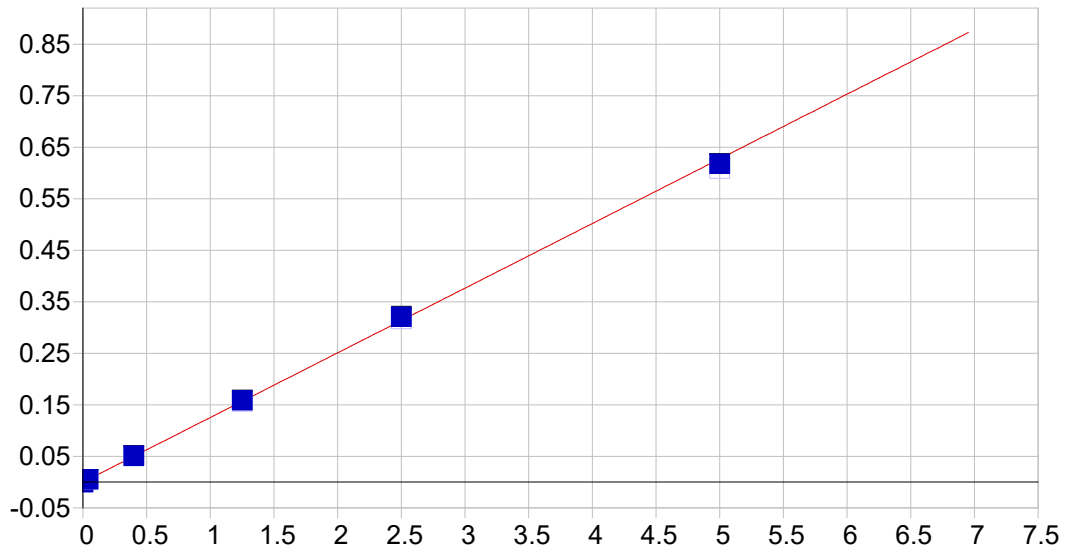
Na 589.592 { 57}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006820	Re-Slope:	1.000000
A1 (Gain):	0.042149	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998513	Status:	OK.
Std Error of Est:	0.001217		
Predicted MDL:	0.003807		
Predicted MQL:	0.012690		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00058	.001	.000	.00684	.000	1
S2	4.0000	3.4784	-.522	-13.0	.15343	.001	1
S3	12.500	11.245	-1.25	-10.0	.48080	.001	1
S4	25.000	25.287	.287	1.15	1.0726	.012	1
S5	50.000	51.704	1.70	3.41	2.1861	.016	1
S1	2.0000	1.7856	-.214	-10.7	.08208	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



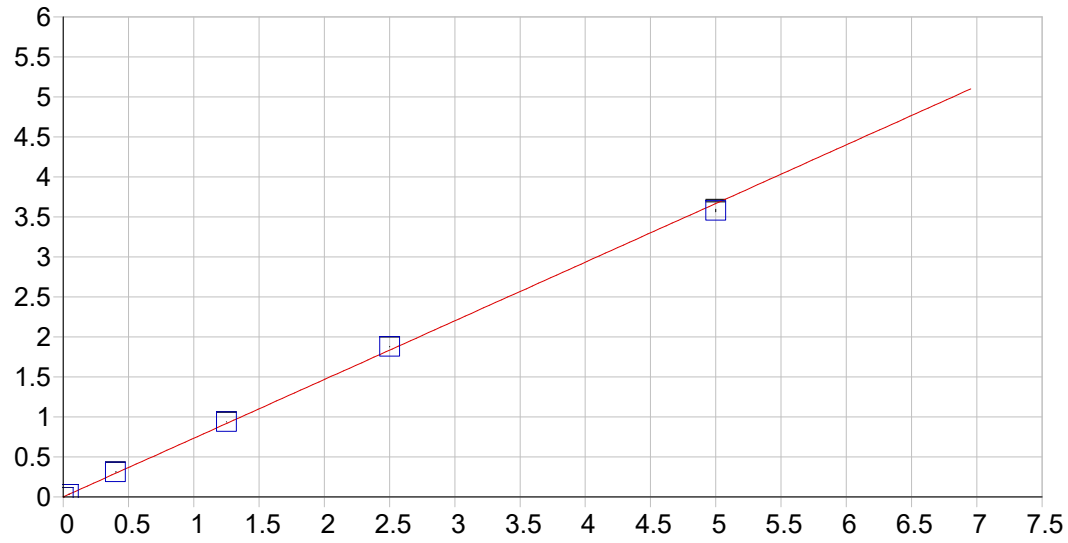
V 292.402 {115}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000068	Re-Slope:	1.000000
A1 (Gain):	0.125498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.001317		
Predicted MQL:	0.004388		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00007	.000	1
S1	.04000	.04170	.002	4.25	.00498	.000	1
S3	1.2500	1.2628	.013	1.02	.15612	.001	1
S4	2.5000	2.5581	.058	2.33	.31640	.001	1
S5	5.0000	4.9212	-.079	-1.58	.60838	.001	1
S2	.40000	.40625	.006	1.56	.05018	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



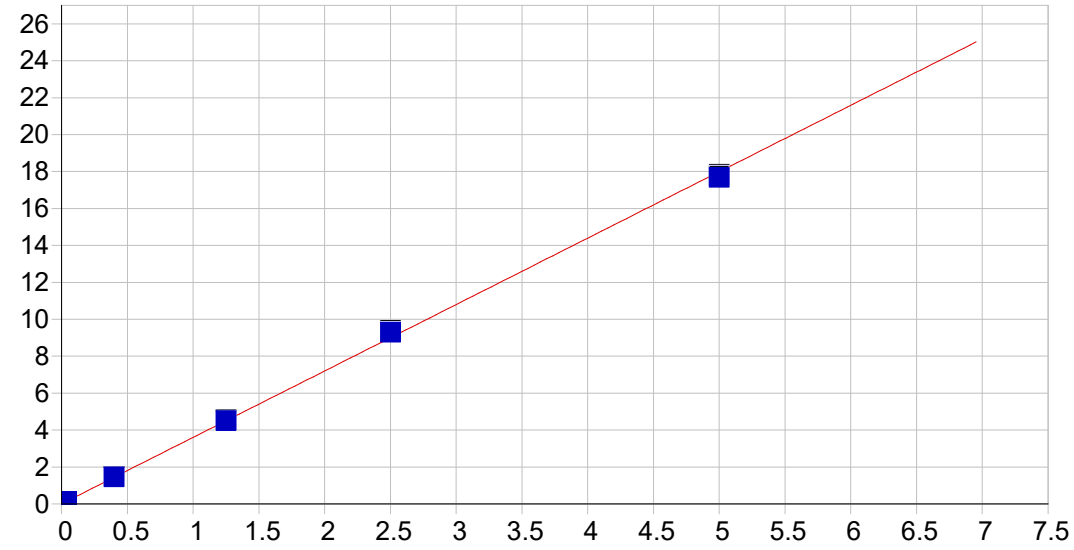
Zn 206.200 {464}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000452	Re-Slope:	1.000000
A1 (Gain):	0.733437	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000474		
Predicted MDL:	0.000281		
Predicted MQL:	0.000936		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00045	.000	1
S1	.04000	.04326	.003	8.14	.03218	.000	1
S3	1.2500	1.2793	.029	2.34	.93873	.002	1
S4	2.5000	2.5615	.061	2.46	1.8791	.001	1
S5	5.0000	4.8803	-.120	-2.39	3.5798	.014	1
S2	.40000	.42566	.026	6.41	.31265	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



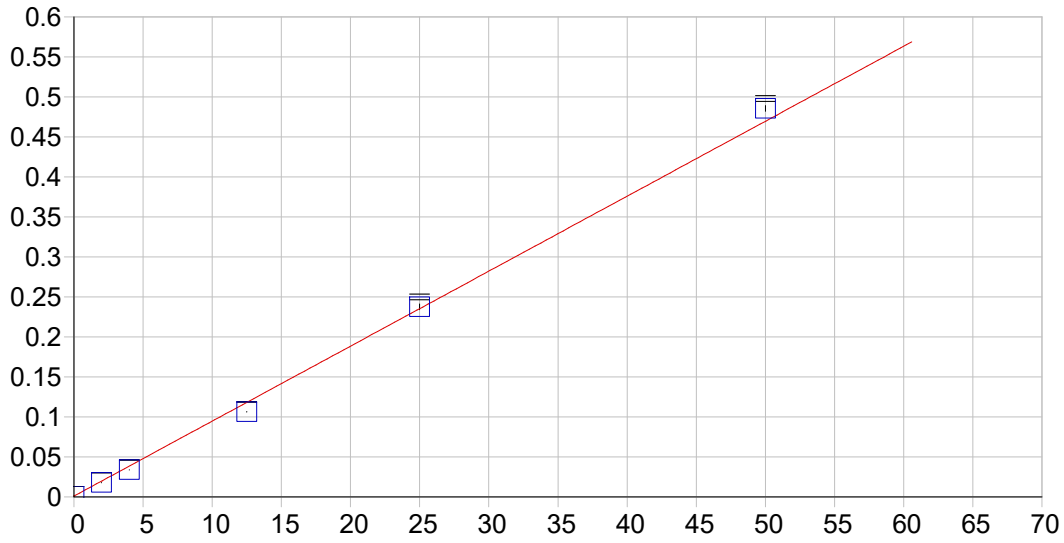
Zn 213.856 {158}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004824	Re-Slope:	1.000000
A1 (Gain):	3.597170	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.001827		
Predicted MDL:	0.000269		
Predicted MQL:	0.000896		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00481	.001	1
S1	.04000	.04155	.002	3.87	.15529	.002	1
S3	1.2500	1.2523	.002	.180	4.5407	.011	1
S4	2.5000	2.5804	.080	3.22	9.3495	.038	1
S5	5.0000	4.9108	-.089	-1.78	17.795	.047	1
S2	.40000	.40501	.005	1.25	1.4717	.004	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



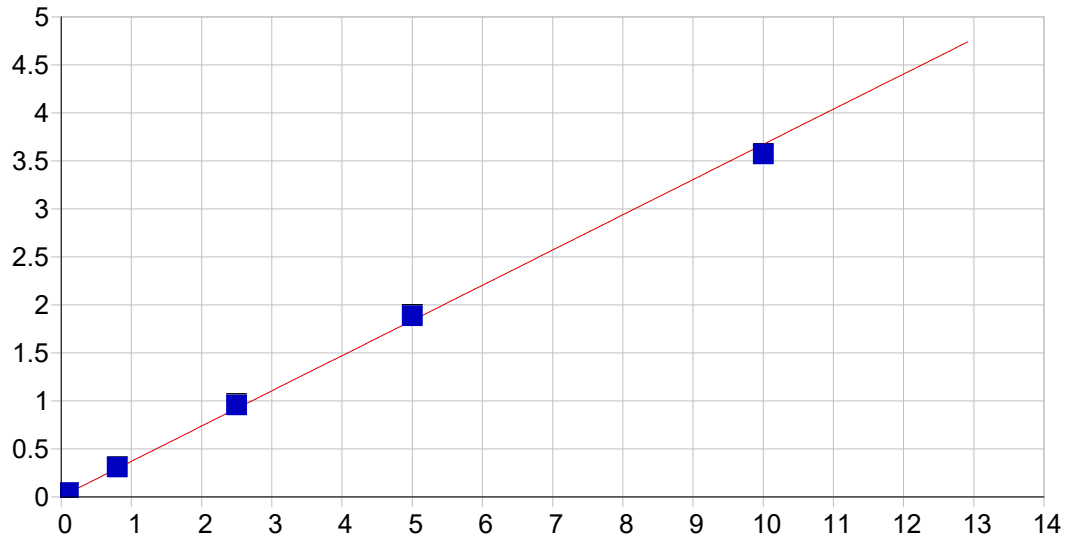
K 766.490 { 44}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001045	Re-Slope:	1.000000
A1 (Gain):	0.009371	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998543	Status:	OK.
Std Error of Est:	0.000268		
Predicted MDL:	0.018875		
Predicted MQL:	0.062917		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00057	.001	.000	.00105	.000	1
S2	4.0000	3.4974	-.503	-12.6	.03382	.000	1
S3	12.500	11.240	-1.26	-10.1	.10637	.001	1
S4	25.000	25.252	.252	1.01	.23767	.004	1
S5	50.000	51.716	1.72	3.43	.48566	.004	1
S1	2.0000	1.7947	-.205	-10.3	.01786	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



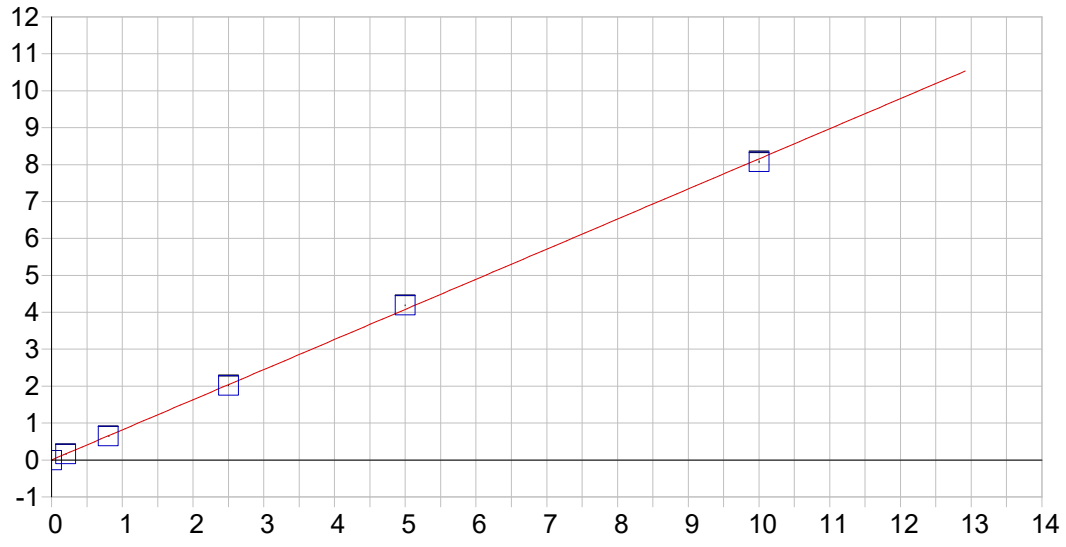
B 249.678 {135}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004118	Re-Slope:	1.000000
A1 (Gain):	0.366758	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000582		
Predicted MDL:	0.000623		
Predicted MQL:	0.002078		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00411	.000	1
S1	.10000	.10707	.007	7.07	.04323	.000	1
S3	2.5000	2.5983	.098	3.93	.95528	.014	1
S4	5.0000	5.1300	.130	2.60	1.8820	.016	1
S5	10.000	9.7279	-.272	-2.72	3.5647	.004	1
S2	.80000	.83667	.037	4.58	.31040	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



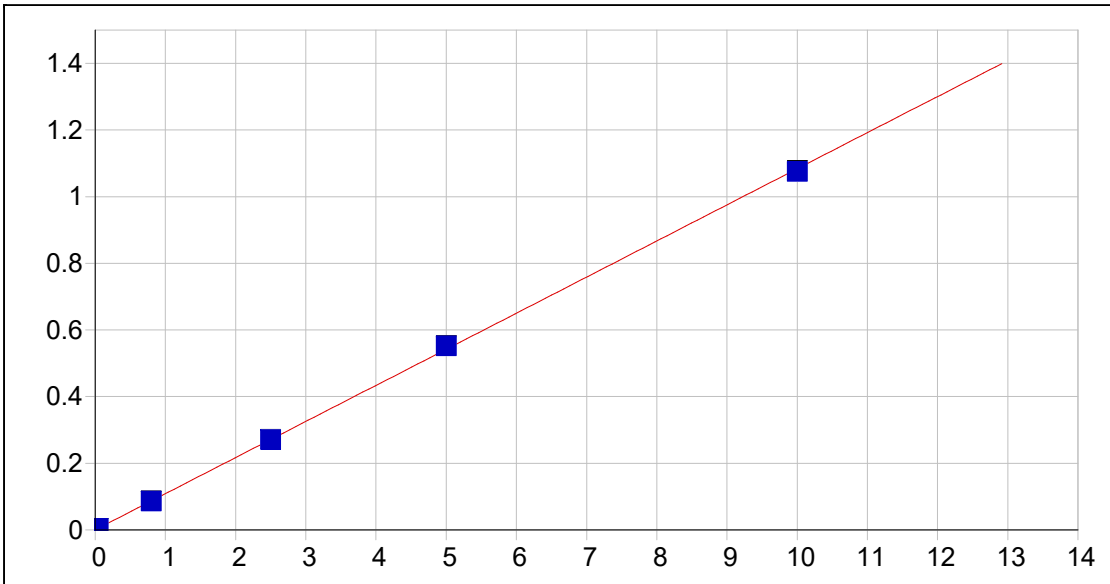
Mo 202.030 {467}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000082	Re-Slope:	1.000000
A1 (Gain):	0.815600	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000995		
Predicted MDL:	0.000270		
Predicted MQL:	0.000900		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.20000	.19777	-.002	-1.11	.16138	.002	1
S3	2.5000	2.4753	-.025	-.989	2.0189	.010	1
S4	5.0000	5.1345	.134	2.69	4.1878	.009	1
S5	10.000	9.9030	-.097	-.970	8.0770	.021	1
S2	.80000	.78948	-.011	-1.32	.64398	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



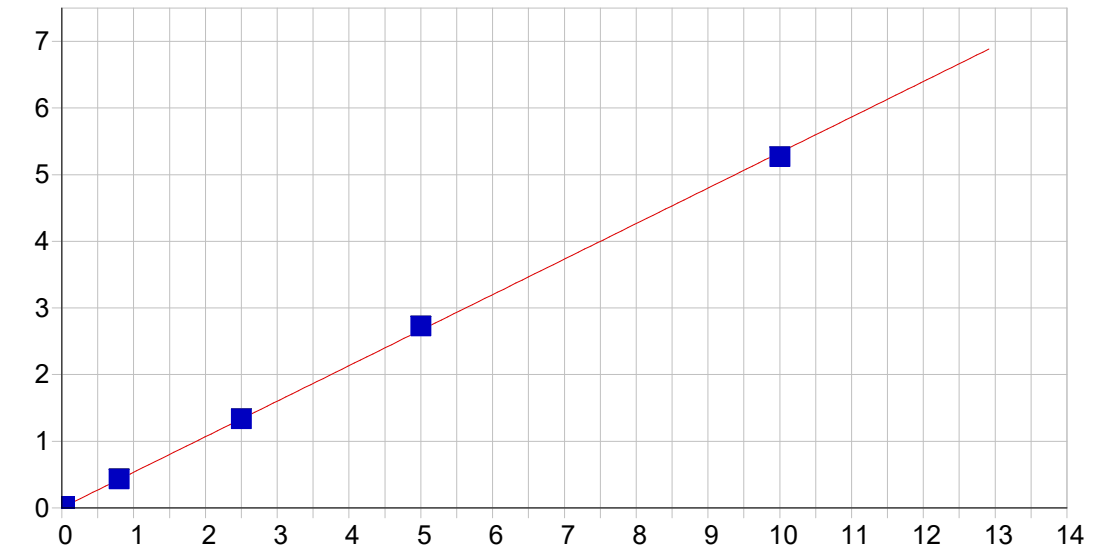
Sn 189.989 {478}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000265	Re-Slope:	1.000000
A1 (Gain):	0.108344	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.000890		
Predicted MQL:	0.002967		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.04000	.03931	-.001	-1.72	.00452	.000	1
S3	2.5000	2.4958	-.004	-.168	.27039	.001	1
S4	5.0000	5.0899	.090	1.80	.55117	.001	1
S5	10.000	9.9236	-.076	-.764	1.0743	.003	1
S2	.80000	.79134	-.009	-1.08	.08591	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



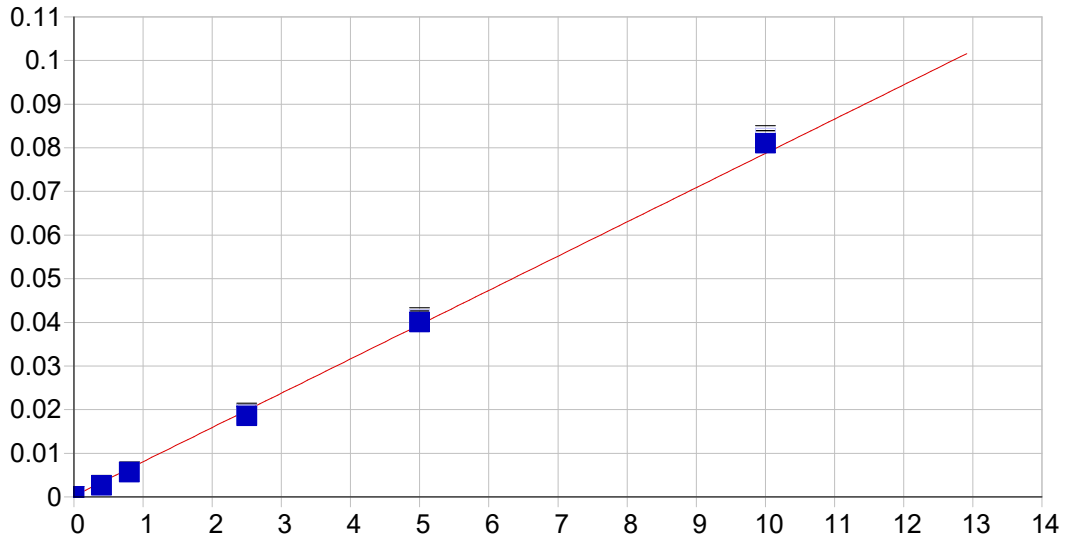
Ti 336.121 {100}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002111	Re-Slope:	1.000000
A1 (Gain):	0.532996	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000261		
Predicted MDL:	0.000454		
Predicted MQL:	0.001513		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00211	.000	1
S1	.04000	.04019	.000	.468	.02352	.000	1
S3	2.5000	2.5017	.002	.068	1.3350	.002	1
S4	5.0000	5.1122	.112	2.24	2.7259	.003	1
S5	10.000	9.8800	-.120	-1.20	5.2662	.003	1
S2	.80000	.80594	.006	.742	.43152	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



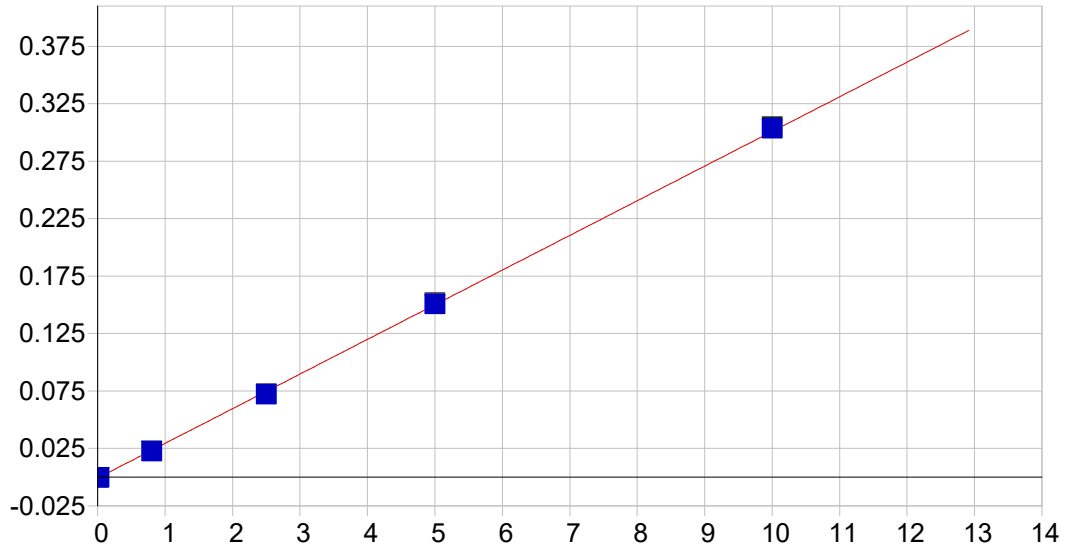
Si 288.158 {117}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000213	Re-Slope:	1.000000
A1 (Gain):	0.007851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998518	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.005222		
Predicted MQL:	0.017407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00016	.000	.000	.00021	.000	1
S1	.40000	.30864	-.091	-22.8	.00264	.000	1
S3	2.5000	2.3331	-.167	-6.67	.01883	.000	1
S4	5.0000	5.0698	.070	1.40	.04061	.000	1
S5	10.000	10.298	.298	2.98	.08224	.001	1
S2	.80000	.68946	-.111	-13.8	.00572	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



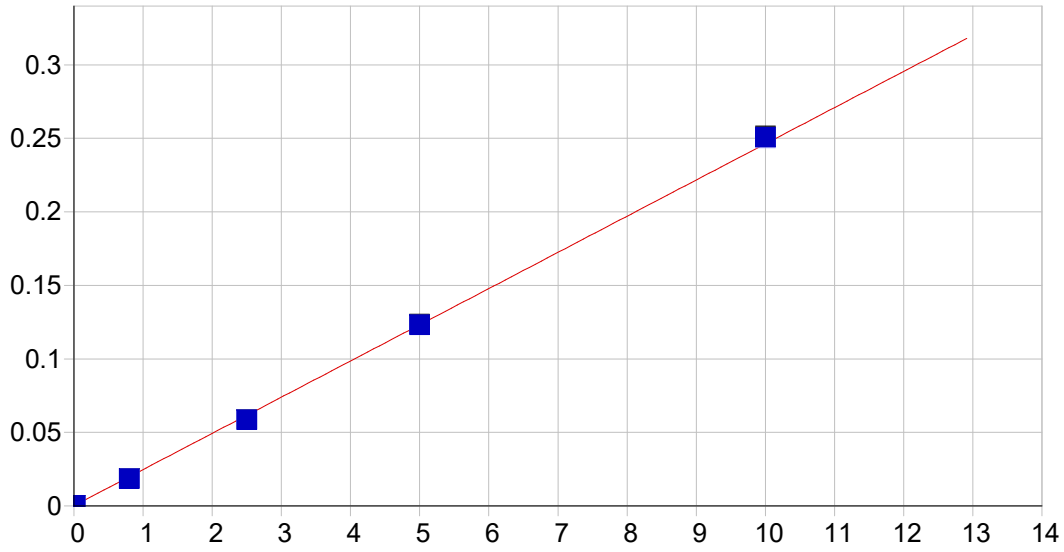
P 177.495 {490}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000734	Re-Slope:	1.000000
A1 (Gain):	0.030161	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002903		
Predicted MQL:	0.009676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00073	.000	1
S1	.02000	.01685	-.003	-15.7	-.00023	.000	1
S3	2.5000	2.4193	-.081	-3.23	.07222	.000	1
S4	5.0000	5.0213	.021	.426	.15069	.001	1
S5	10.000	10.090	.090	.902	.30355	.001	1
S2	.80000	.77243	-.028	-3.45	.02256	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



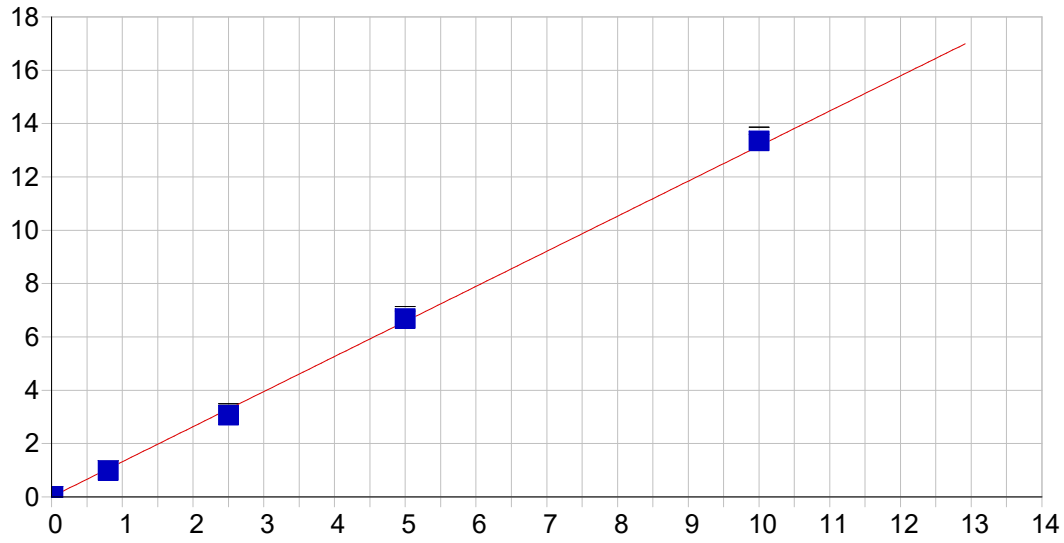
S 182.034 {485}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.024616	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999645	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.003661		
Predicted MQL:	0.012202		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.02000	.01862	-.001	-6.88	.00057	.000	1
S3	2.5000	2.3760	-.124	-4.96	.05846	.000	1
S4	5.0000	5.0009	.001	.018	.12292	.000	1
S5	10.000	10.178	.178	1.78	.25003	.001	1
S2	.80000	.74671	-.053	-6.66	.01846	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



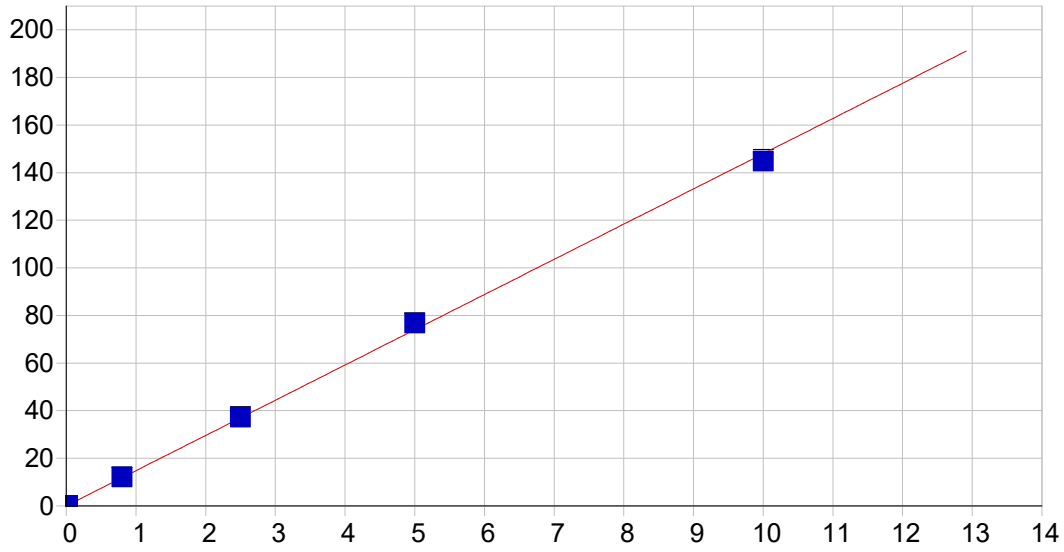
Li 670.784 { 50}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001373	Re-Slope:	1.000000
A1 (Gain):	1.315465	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999485	Status:	OK.
Std Error of Est:	0.000991		
Predicted MDL:	0.000535		
Predicted MQL:	0.001782		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00138	.001	1
S5	10.000	10.147	.147	1.47	13.361	.143	1
S4	5.0000	5.0796	.080	1.59	6.6893	.084	1
S3	2.5000	2.3259	-.174	-6.96	3.0640	.053	1
S1	.02000	.01876	-.001	-6.21	.02652	.000	1
S2	.80000	.74871	-.051	-6.41	.98722	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB133769



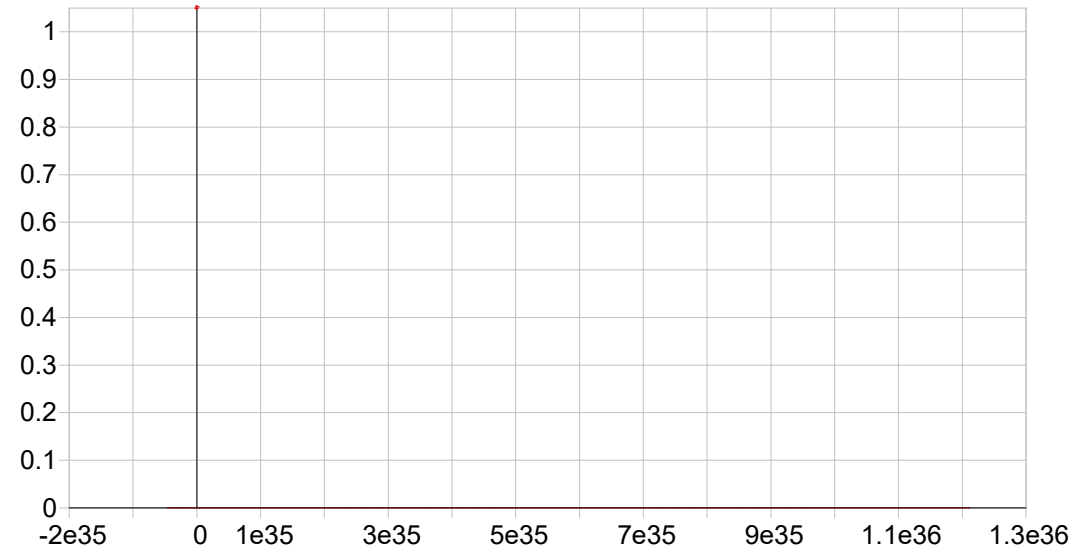
Sr 407.771 { 83}

Date of Fit:	12/5/2024 13:46:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002482	Re-Slope:	1.000000
A1 (Gain):	14.797457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999671	Status:	OK.
Std Error of Est:	0.008901		
Predicted MDL:	0.000028		
Predicted MQL:	0.000093		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00246	.000	1
S1	.02000	.02069	.001	3.45	.31012	.001	1
S3	2.5000	2.5142	.014	.569	37.244	.322	1
S4	5.0000	5.1845	.185	3.69	76.794	.132	1
S5	10.000	9.7823	-.218	-2.18	144.90	.671	1
S2	.80000	.81827	.018	2.28	12.123	.019	1

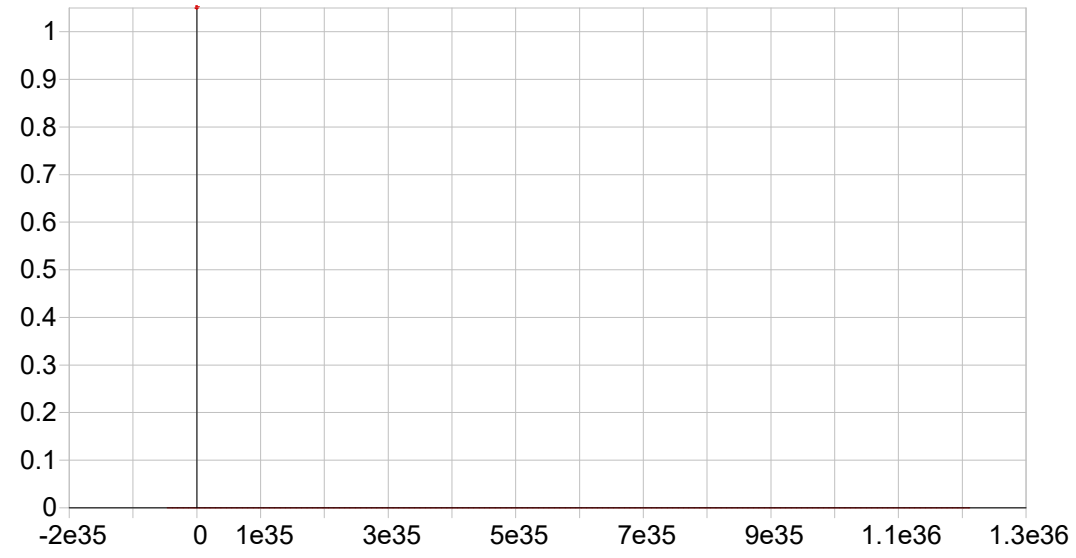
Reviewed By:
On:
Inst Id :P4
LB :LB133769



Y 224.306 {450}*

Date of Fit:	12/5/2024 13:20:53	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



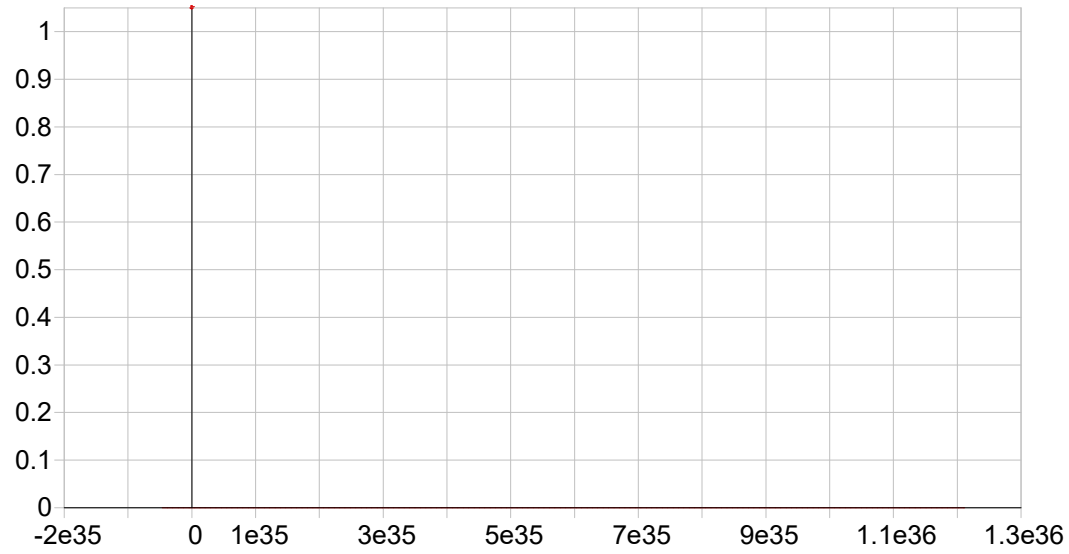
Y 360.073 { 94}*

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

Reviewed By:
On:
Inst Id :P4
LB :LB133769

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

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

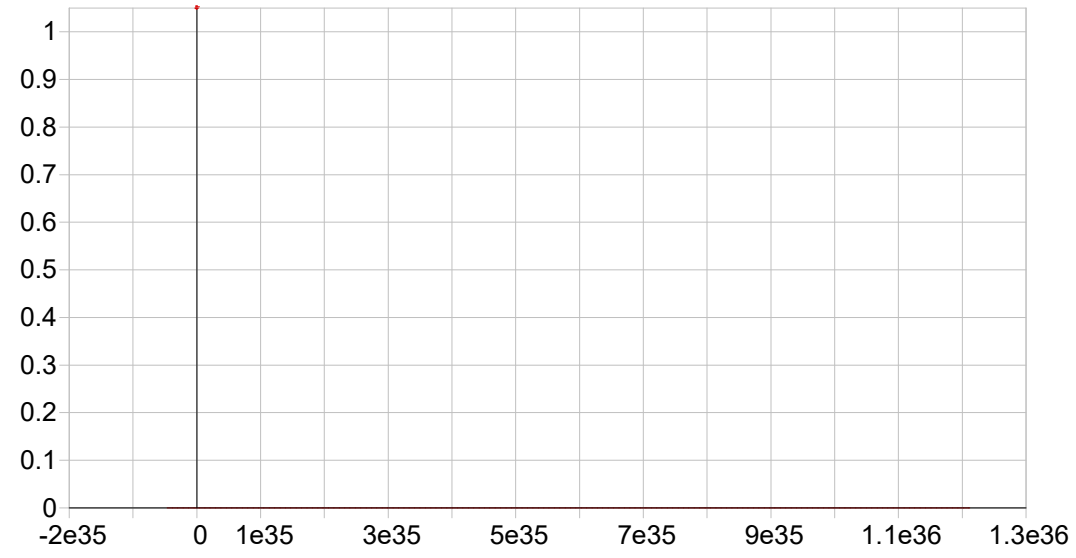


Y 371.030 { 91}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB133769

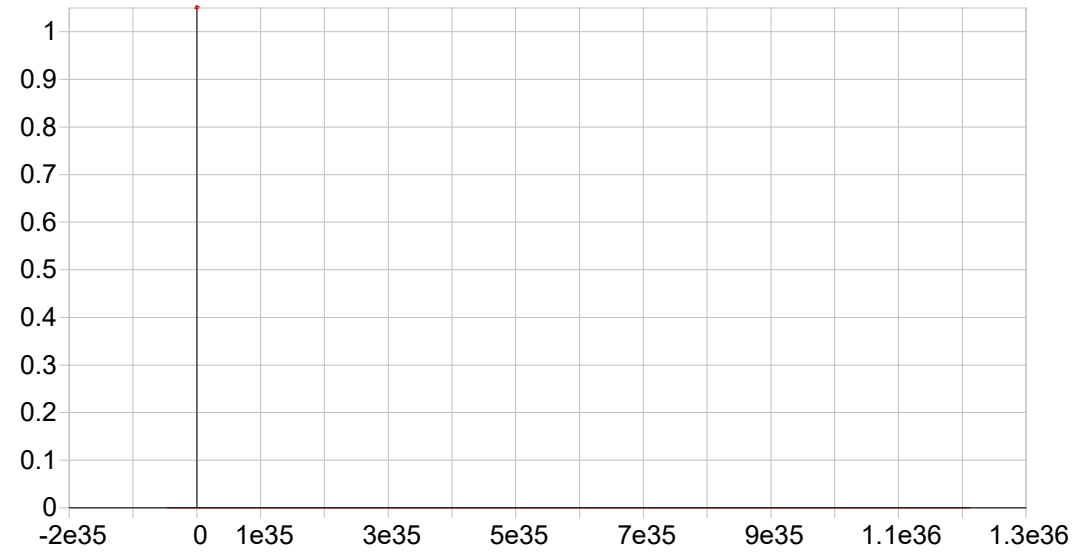


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB133769

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S0 Acquired: 12/5/2024 13:21:30 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	-.00029	-.00022	-.00047	.00048	.00073	.00032	-.03924	-.00066
Stddev	.00014	.00007	.00043	.00012	.00049	.00011	.00152	.00015
%RSD	50.096	32.022	91.650	23.957	66.611	33.845	3.8664	22.578
#1	-.00024	-.00019	-.00002	.00057	.00081	.00043	-.04098	-.00065
#2	-.00017	-.00030	-.00051	.00035	.00021	.00032	-.03851	-.00053
#3	-.00045	-.00017	-.00088	.00053	.00117	.00021	-.03822	-.00082

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	-.00023	.00227	.00000	-.00011	.00767	.00001	-.00003	-.00014
Stddev	.00027	.00025	.00003	.00015	.00021	.00001	.00003	.00014
%RSD	118.63	11.037	742.22	132.04	2.7347	65.999	107.13	101.47
#1	.00008	.00199	.00003	-.00025	.00748	.00000	-.00006	-.00026
#2	-.00033	.00247	-.00003	.00005	.00790	.00002	-.00001	.00002
#3	-.00045	.00236	.00001	-.00013	.00763	.00001	-.00002	-.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	.00008	-.00143	.00684	-.00007	.00481	.00105	.00411	.00009
Stddev	.00026	.00004	.00024	.00006	.00105	.00010	.00022	.00011
%RSD	338.07	2.9123	3.4409	87.590	21.800	9.8054	5.3406	134.26
#1	-.00022	-.00140	.00657	.00000	.00377	.00093	.00433	.00012
#2	.00021	-.00140	.00695	-.00009	.00587	.00112	.00389	-.00004
#3	.00024	-.00148	.00701	-.00011	.00481	.00110	.00411	.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	.00027	.00211	.00021	-.00073	.00013	.00138	.00246
Stddev	.00005	.00017	.00002	.00004	.00001	.00095	.00038
%RSD	17.772	7.9496	7.1816	4.9104	10.676	69.055	15.628
#1	.00031	.00225	.00023	-.00076	.00012	.00105	.00212
#2	.00027	.00215	.00021	-.00075	.00015	.00063	.00237
#3	.00021	.00193	.00020	-.00069	.00013	.00245	.00288

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S0 Acquired: 12/5/2024 13:21:30 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	2238.0	55509.	13302.	1519.1	3902.4
Stddev	9.2	148.	45.	5.2	8.5
%RSD	.40922	.26704	.33782	.34388	.21753
#1	2228.1	55426.	13285.	1515.7	3893.2
#2	2239.8	55420.	13268.	1516.4	3903.8
#3	2246.1	55680.	13353.	1525.1	3910.0

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S1 Acquired: 12/5/2024 13:25:55 Type: Cal
Method: NON EPA-6010-200.7(v2491) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00105	.00232	.00240	.00235	.01108	.00898	.35312	.01880
Stddev	.00007	.00009	.00012	.00016	.00017	.00023	.00178	.00014
%RSD	6.9451	3.7113	4.9600	6.8727	1.5420	2.5723	.50396	.76746
#1	.00105	.00230	.00250	.00225	.01115	.00897	.35515	.01877
#2	.00113	.00241	.00243	.00226	.01120	.00922	.35182	.01868
#3	.00098	.00224	.00227	.00254	.01088	.00876	.35238	.01896

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	.01212	.10218	.00192	.02496	.02520	.00059	.01294	.03026
Stddev	.00009	.00030	.00001	.00026	.00023	.00000	.00020	.00019
%RSD	.70403	.29450	.51549	1.0429	.90638	.42934	1.5207	.62857
#1	.01202	.10187	.00191	.02510	.02546	.00059	.01292	.03010
#2	.01215	.10219	.00193	.02512	.02510	.00059	.01276	.03021
#3	.01218	.10247	.00192	.02466	.02504	.00058	.01315	.03047

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	.02371	.00122	.08208	.00498	.15529	.01786	.04323	.16138
Stddev	.00020	.00008	.00032	.00002	.00187	.00007	.00029	.00172
%RSD	.85843	6.7946	.38691	.45484	1.2065	.38737	.67797	1.0684
#1	.02392	.00132	.08237	.00497	.15580	.01794	.04333	.16334
#2	.02352	.00117	.08214	.00496	.15685	.01782	.04290	.16074
#3	.02370	.00118	.08174	.00500	.15321	.01783	.04346	.16007

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	.00452	.02352	.00264	-.00023	.00057	.02652	.31012
Stddev	.00005	.00022	.00001	.00004	.00002	.00050	.00077
%RSD	1.0415	.94982	.50050	18.604	4.0227	1.8820	.24745
#1	.00455	.02366	.00266	-.00026	.00055	.02709	.31024
#2	.00454	.02326	.00263	-.00018	.00060	.02614	.30929
#3	.00447	.02363	.00264	-.00024	.00056	.02634	.31081

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S1 Acquired: 12/5/2024 13:25:55 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	2407.9	57855.	13720.	1602.2	4088.1
Stddev	21.4	167.	16.	16.6	33.1
%RSD	.88783	.28950	.11720	1.0336	.80902
#1	2383.6	57867.	13706.	1603.9	4050.1
#2	2416.5	57682.	13737.	1584.8	4103.5
#3	2423.7	58016.	13716.	1617.8	4110.6

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S2 Acquired: 12/5/2024 13:30:16 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	.04786	.05355	.18256	.07484	.17112	.13062	6.1154	.12818
Stddev	.00016	.00005	.00049	.00033	.00024	.00045	.0199	.00065
%RSD	.33429	.10134	.26742	.44365	.14206	.34828	.32595	.50754
#1	.04771	.05350	.18201	.07449	.17087	.13010	6.0930	.12892
#2	.04803	.05356	.18274	.07516	.17115	.13080	6.1219	.12774
#3	.04785	.05361	.18293	.07487	.17135	.13095	6.1312	.12787

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	.81623	.19673	.03199	.33433	.17086	.00471	.25036	.05511
Stddev	.00094	.00082	.00011	.00047	.00063	.00004	.00119	.00016
%RSD	.11479	.41442	.34695	.14045	.37056	.79793	.47492	.28607
#1	.81671	.19637	.03211	.33382	.17017	.00466	.24899	.05499
#2	.81515	.19767	.03196	.33440	.17102	.00473	.25104	.05529
#3	.81684	.19616	.03189	.33475	.17140	.00473	.25107	.05505

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	.23968	.05235	.15343	.05018	1.4717	.03382	.31040	.64398
Stddev	.00050	.00005	.00062	.00012	.0038	.00026	.00117	.00151
%RSD	.20718	.09977	.40259	.23333	.25656	.75880	.37808	.23484
#1	.23983	.05229	.15278	.05005	1.4697	.03359	.31171	.64237
#2	.23912	.05240	.15401	.05022	1.4694	.03409	.30944	.64421
#3	.24008	.05236	.15350	.05028	1.4761	.03377	.31005	.64537

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	.08591	.43152	.00572	.02256	.01846	.98722	12.123
Stddev	.00013	.00117	.00007	.00011	.00006	.00252	.019
%RSD	.14644	.27199	1.1674	.49111	.34617	.25515	.16070
#1	.08603	.43035	.00565	.02262	.01847	.98449	12.100
#2	.08593	.43269	.00578	.02262	.01840	.98773	12.135
#3	.08578	.43152	.00573	.02243	.01852	.98945	12.133

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S2 Acquired: 12/5/2024 13:30:16 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	2408.4	58319.	13891.	1623.5	4027.9
Stddev	8.1	357.	30.	16.5	6.7
%RSD	.33768	.61213	.21385	1.0167	.16615
#1	2417.4	58625.	13907.	1639.6	4035.0
#2	2406.3	57927.	13857.	1606.6	4026.9
#3	2401.5	58405.	13909.	1624.2	4021.7

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S3 Acquired: 12/5/2024 13:34:19 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	.15530	.16401	.57206	.24157	.54717	.41096	18.831	.38997
Stddev	.00090	.00182	.00139	.00233	.00447	.00129	.065	.00550
%RSD	.57921	1.1098	.24305	.96298	.81754	.31345	.34309	1.4097
#1	.15428	.16197	.57136	.23889	.54204	.41185	18.903	.39617
#2	.15560	.16545	.57115	.24280	.54919	.41154	18.814	.38803
#3	.15601	.16462	.57366	.24302	.55028	.40948	18.777	.38570

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	2.5467	.59786	.09826	1.0354	.53889	.01465	.75140	.17037
Stddev	.0068	.00763	.00038	.0013	.00279	.00037	.00644	.00114
%RSD	.26779	1.2758	.38840	.12789	.51857	2.5085	.85711	.66644
#1	2.5512	.58978	.09864	1.0365	.53569	.01426	.74439	.16915
#2	2.5388	.59886	.09788	1.0339	.54014	.01472	.75277	.17059
#3	2.5500	.60493	.09825	1.0357	.54084	.01498	.75705	.17139

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	.74134	.16400	.48080	.15612	4.5407	.10637	.95528	2.0189
Stddev	.00192	.00027	.00130	.00104	.0109	.00054	.01356	.0101
%RSD	.25875	.16591	.26943	.66424	.24004	.50418	1.4197	.50124
#1	.74011	.16429	.48226	.15498	4.5457	.10581	.96972	2.0074
#2	.74036	.16375	.48038	.15637	4.5482	.10644	.95332	2.0229
#3	.74355	.16396	.47977	.15701	4.5282	.10687	.94281	2.0265

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	.27039	1.3350	.01883	.07222	.05846	3.0640	37.244
Stddev	.00063	.0022	.00038	.00009	.00023	.0534	.322
%RSD	.23293	.16311	2.0323	.12538	.38893	1.7437	.86423
#1	.26998	1.3326	.01842	.07216	.05844	3.1218	37.615
#2	.27008	1.3368	.01887	.07233	.05825	3.0537	37.048
#3	.27112	1.3356	.01918	.07218	.05870	3.0164	37.068

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S3 Acquired: 12/5/2024 13:34:19 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	2235.9	55922.	13771.	1528.8	3705.9
Stddev	20.1	258.	111.	12.7	21.0
%RSD	.89691	.46197	.80623	.82937	.56671
#1	2258.9	56216.	13664.	1543.0	3730.2
#2	2222.6	55818.	13762.	1524.8	3693.8
#3	2226.1	55732.	13886.	1518.6	3693.8

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S4 Acquired: 12/5/2024 13:38:34 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	.33165	.33255	1.1611	.51623	1.1761	.85670	39.126	.75282
Stddev	.00088	.00319	.0029	.00047	.0027	.00384	.086	.00905
%RSD	.26629	.95958	.24826	.09187	.22636	.44790	.21864	1.2025
#1	.33074	.33573	1.1577	.51581	1.1741	.85314	39.172	.76163
#2	.33170	.32935	1.1628	.51614	1.1750	.85619	39.178	.75330
#3	.33250	.33257	1.1627	.51674	1.1791	.86076	39.027	.74354

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	5.1996	1.1835	.19612	2.1246	1.1191	.03032	1.4897	.34652
Stddev	.0108	.0088	.00118	.0039	.0011	.00010	.0063	.00074
%RSD	.20735	.73933	.60077	.18274	.10082	.32026	.42502	.21377
#1	5.1890	1.1893	.19726	2.1203	1.1178	.03021	1.4943	.34706
#2	5.1992	1.1877	.19619	2.1257	1.1196	.03040	1.4923	.34682
#3	5.2105	1.1734	.19491	2.1278	1.1199	.03034	1.4825	.34568

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	1.5149	.33744	1.0726	.31640	9.3495	.23767	1.8820	4.1878
Stddev	.0031	.00047	.0122	.00085	.0381	.00368	.0157	.0090
%RSD	.20730	.13877	1.1408	.26925	.40737	1.5499	.83289	.21551
#1	1.5114	.33772	1.0634	.31737	9.3056	.23452	1.8968	4.1838
#2	1.5162	.33769	1.0680	.31603	9.3742	.23678	1.8837	4.1814
#3	1.5173	.33689	1.0865	.31579	9.3685	.24172	1.8656	4.1981

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	.55117	2.7259	.04061	.15069	.12292	6.6893	76.794
Stddev	.00144	.0026	.00049	.00091	.00047	.0837	.132
%RSD	.26044	.09635	1.2162	.60549	.38233	1.2516	.17202
#1	.54985	2.7231	.04009	.15160	.12309	6.6243	76.810
#2	.55097	2.7282	.04065	.14977	.12238	6.6599	76.655
#3	.55270	2.7265	.04108	.15070	.12327	6.7838	76.918

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S4 Acquired: 12/5/2024 13:38:34 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	2007.3	51655.	13374.	1340.9	3333.6
Stddev	5.1	211.	49.	18.4	6.8
%RSD	.25392	.40845	.36612	1.3687	.20326
#1	2009.9	51865.	13324.	1359.9	3336.5
#2	2010.6	51657.	13375.	1339.6	3338.5
#3	2001.5	51443.	13422.	1323.3	3325.9

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S5 Acquired: 12/5/2024 13:42:46 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	.65828	.64099	2.2502	1.0225	2.3424	1.6953	75.115	1.4187
Stddev	.00328	.00891	.0055	.0057	.0110	.0080	.516	.0032
%RSD	.49805	1.3895	.24372	.55975	.47015	.47108	.68698	.22931
#1	.66075	.65009	2.2479	1.0272	2.3478	1.6861	74.835	1.4209
#2	.65456	.64057	2.2565	1.0161	2.3297	1.7009	74.800	1.4150
#3	.65953	.63229	2.2463	1.0243	2.3497	1.6988	75.711	1.4203

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.176	2.2523	.37525	4.1701	2.1569	.05882	2.8317	.67646
Stddev	.035	.0104	.00019	.0109	.0091	.00005	.0105	.00068
%RSD	.34615	.46093	.05026	.26080	.42149	.08628	.37011	.10094
#1	10.172	2.2638	.37530	4.1678	2.1608	.05887	2.8431	.67591
#2	10.213	2.2437	.37541	4.1819	2.1465	.05877	2.8226	.67624
#3	10.143	2.2493	.37504	4.1605	2.1634	.05882	2.8292	.67722

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9566	.66036	2.1861	.60838	17.795	.48566	3.5647	8.0770
Stddev	.0076	.00060	.0159	.00086	.047	.00364	.0045	.0206
%RSD	.25666	.09134	.72623	.14179	.26204	.74871	.12486	.25453
#1	2.9559	.66048	2.1735	.60899	17.773	.48173	3.5665	8.1001
#2	2.9645	.66089	2.2039	.60740	17.848	.48891	3.5597	8.0608
#3	2.9494	.65970	2.1809	.60876	17.763	.48633	3.5681	8.0700

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	1.0743	5.2662	.08224	.30355	.25003	13.361	144.90
Stddev	.0033	.0033	.00058	.00126	.00093	.143	.67
%RSD	.30812	.06350	.70968	.41646	.37193	1.0672	.46280
#1	1.0744	5.2631	.08157	.30500	.25094	13.200	144.29
#2	1.0776	5.2656	.08255	.30299	.25008	13.470	144.80
#3	1.0710	5.2698	.08260	.30266	.24908	13.415	145.62

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: S5 Acquired: 12/5/2024 13:42:46 Type: Cal
Method: NON EPA-6010-200.7(v2491) 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	1952.1	51113.	13576.	1286.4	3179.9
Stddev	16.0	136.	24.	5.5	14.6
%RSD	.82136	.26539	.17551	.43008	.45779
#1	1944.8	51109.	13549.	1282.3	3173.1
#2	1970.5	50980.	13585.	1284.3	3196.6
#3	1941.1	51251.	13595.	1292.7	3169.9

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICV01 Acquired: 12/5/2024 13:53:03 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.9654477	1.007813	.9860530	.9991795	.9815731	2.529636
Stddev	.0037499	.015256	.0019761	.0043905	.0011817	.008781
%RSD	.3884072	1.513790	.2004021	.4394081	.1203912	.3471366
#1	.9617446	.992744	.9881468	.9961820	.9812932	2.527683
#2	.9692426	1.023249	.9857914	.9971373	.9805564	2.521995
#3	.9653558	1.007446	.9842207	1.004219	.9828696	2.539229

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5188427	.5199378	.4995165	9.904493	.5229099	.5048899
Stddev	.0007353	.0040215	.0013631	.044591	.0011826	.0007455
%RSD	.1417204	.7734606	.2728892	.4502112	.2261486	.1476467
#1	.5192210	.5222041	.5000453	9.853055	.5238433	.5050695
#2	.5179953	.5152946	.4979683	9.932206	.5215801	.5040710
#3	.5193119	.5223147	.5005361	9.928219	.5233063	.5055291

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5123582	9.730086	.5187501	5.849678	.5076683	.2502780
Stddev	.0017939	.082896	.0019980	.018584	.0006451	.0004794
%RSD	.3501206	.8519545	.3851493	.3176896	.1270724	.1915632
#1	.5132392	9.651277	.5164431	5.828240	.5081075	.2497247
#2	.5102942	9.816539	.5199250	5.861210	.5069277	.2505372
#3	.5135412	9.722442	.5198821	5.859584	.5079698	.2505720

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.809864	.5078506	1.023250	9.586480	F .0050197	F -.000506
Stddev	.015206	.0034206	.005247	.032107	.0001551	.000153
%RSD	.1550051	.6735488	.5127734	.3349181	3.089105	30.26917
#1	9.822213	.5040771	1.019282	9.551162	.0048739	-.000608
#2	9.814497	.5087267	1.029199	9.613902	.0051826	-.000330
#3	9.792880	.5107480	1.021269	9.594378	.0050026	-.000580

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICV01 Acquired: 12/5/2024 13:53:03 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	F -.000714	F -.001362	F -.009701	F .0076961	F -.000697	F -.001693
Stddev	.000333	.000159	.001759	.0021862	.001951	.000574
%RSD	46.71407	11.67566	18.12885	28.40702	279.7850	33.89956
#1	-.000335	-.001189	-.011556	.0052400	-.002943	-.001102
#2	-.000965	-.001396	-.008058	.0084188	.000578	-.001729
#3	-.000841	-.001501	-.009488	.0094295	.000273	-.002249

Elem	Sr4077
Units	ppm
Avg	F -.008542
Stddev	.000087
%RSD	1.015560
#1	-.008466
#2	-.008637
#3	-.008522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.117	54758.01	13847.33	1445.236	3703.877
Stddev	5.511	280.87	4.27	23.183	8.156
%RSD	.2550224	.5129229	.0308546	1.604119	.2201952
#1	2155.475	54950.36	13850.41	1459.418	3694.544
#2	2161.388	54435.70	13849.12	1418.483	3707.453
#3	2166.488	54887.97	13842.45	1457.809	3709.634

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LLICV01 Acquired: 12/5/2024 14:05:50 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0203871	.0418258	.0117869	.0188963	.0470617	.0995084	.1015630
Stddev	.0019280	.0007337	.0008830	.0004016	.0005552	.0036636	.0002241
%RSD	9.457124	1.754151	7.491701	2.125153	1.179626	3.681659	.2206900
#1	.0190773	.0426489	.0107780	.0184630	.0465060	.1032923	.1013697
#2	.0226010	.0412403	.0121639	.0192560	.0470628	.0959784	.1018087
#3	.0194829	.0415884	.0124190	.0189700	.0476163	.0992545	.1015105

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061398	.0059868	2.049435	.0099060	.0297354	.0217803	.0986795
Stddev	.0000264	.0000687	.007729	.0000885	.0002673	.0000995	.0044232
%RSD	.4303510	1.147182	.3771422	.8931073	.8987600	.4569525	4.482419
#1	.0061127	.0059963	2.042564	.0098743	.0294576	.0218389	.0961408
#2	.0061655	.0059139	2.057803	.0100059	.0297581	.0218367	.0961107
#3	.0061411	.0060503	2.047939	.0098377	.0299906	.0216654	.1037870

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210882	2.150548	.0396507	.0101373	1.967833	.0419860	.0429047
Stddev	.0001669	.010502	.0003047	.0001467	.007085	.0004109	.0002835
%RSD	.7915254	.4883402	.7684720	1.446820	.3600485	.9786156	.6608747
#1	.0212810	2.144718	.0397734	.0099680	1.963472	.0424585	.0427403
#2	.0209902	2.162671	.0393037	.0102268	1.964020	.0417122	.0427416
#3	.0209936	2.144254	.0398749	.0102171	1.976008	.0417874	.0432321

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.948159	.0997815	.2057025	.0385189	.0400920	.3252196	.0164414
Stddev	.012831	.0010381	.0008228	.0000186	.0001035	.0094390	.0024027
%RSD	.6586304	1.040370	.3999791	.0483901	.2582435	2.902351	14.61407
#1	1.933346	.0998988	.2047631	.0385025	.0400848	.3157095	.0184571
#2	1.955849	.1007559	.2062949	.0385150	.0399922	.3253635	.0170846
#3	1.955282	.0986897	.2060496	.0385392	.0401989	.3345859	.0137825

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LLICV01 Acquired: 12/5/2024 14:05:50 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0190263	.0200831	.0214074
Stddev	.0019268	.0003038	.0000203
%RSD	10.12726	1.512849	.0948993
#1	.0194249	.0197349	.0214194
#2	.0169314	.0202204	.0214189
#3	.0207227	.0202940	.0213840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2204.500	55676.75	13873.46	1467.022	3847.392
Stddev	3.455	173.00	46.18	3.615	5.378
%RSD	.1567303	.3107221	.3328401	.2464248	.1397820
#1	2204.851	55709.13	13825.59	1468.118	3841.509
#2	2200.883	55489.85	13877.04	1462.986	3848.611
#3	2207.767	55831.28	13917.73	1469.963	3852.056

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICB01 Acquired: 12/5/2024 14:10:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000176	.0001465	-.000140	-.000074	-.002277	-.000796	-.001669
Stddev	.002978	.0009539	.000844	.002033	.001073	.005549	.000332
%RSD	1693.572	651.0797	604.1080	2752.625	47.10638	696.8893	19.90844
#1	.001393	-.000826	-.001101	-.002419	-.001928	-.001789	-.002040
#2	-.003610	.001080	.000204	.001176	-.001423	-.005782	-.001569
#3	.001690	.000186	.000478	.001022	-.003481	.005182	-.001399

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	-.000025	-.016842	-.000013	.0000207	-.000445	-.000842
Stddev	.0000340	.000053	.004180	.000367	.0001614	.000318	.000919
%RSD	49.16841	207.6586	24.82191	2905.774	779.3713	71.45951	109.1770
#1	.0000651	-.000051	-.012471	.000080	.0001624	-.000406	-.000846
#2	.0000374	.000035	-.020801	.000299	.0000545	-.000780	.000079
#3	.0001051	-.000061	-.017254	-.000417	-.000155	-.000148	-.001759

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000137	-.005792	-.000393	-.000029	.0040281	.0003427	-.000329
Stddev	.000313	.011639	.000263	.000227	.0080929	.0008715	.000184
%RSD	229.3134	200.9640	67.03628	770.2184	200.9134	254.3222	56.06623
#1	-.000167	-.007135	-.000604	.000232	-.005082	.0005551	-.000287
#2	-.000434	-.016702	-.000098	-.000177	.006782	.0010884	-.000531
#3	.000191	.006461	-.000477	-.000144	.010385	-.000615	-.000169

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.032038	-.006178	-.000455	-.000592	-.000201	.0004597	.0002242
Stddev	.024789	.000040	.000161	.000604	.000246	.0016926	.0029453
%RSD	77.37528	.6464751	35.25982	102.1021	122.5172	368.2161	1313.863
#1	-.060588	-.006172	-.000365	.000049	-.000169	.0018645	.0035900
#2	-.019540	-.006220	-.000361	-.001151	-.000461	.0009339	-.001036
#3	-.015985	-.006141	-.000641	-.000672	.000028	-.001419	-.001881

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICB01 Acquired: 12/5/2024 14:10:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000860	-.000534	-.000126
Stddev	.001812	.000392	.000003
%RSD	210.6011	73.49541	1.980151
#1	-.002050	-.000872	-.000124
#2	.001225	-.000104	-.000129
#3	-.001756	-.000625	-.000126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2253.547	56771.16	14155.85	1489.626	3983.416
Stddev	24.981	192.98	26.01	7.275	23.020
%RSD	1.108533	.3399189	.1837733	.4884016	.5778843
#1	2258.639	56679.76	14128.32	1486.056	3991.191
#2	2226.412	56640.86	14180.02	1484.824	3957.515
#3	2275.590	56992.85	14159.21	1497.996	4001.541

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CRI01 Acquired: 12/5/2024 14:14:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0200452	.0438813	.0117570	.0189188	.0458360	.0991206	.1022543
Stddev	.0012077	.0013273	.0013228	.0015375	.0007898	.0012851	.0005050
%RSD	6.024852	3.024874	11.25151	8.127038	1.723080	1.296449	.4938816
#1	.0213047	.0453231	.0132737	.0206829	.0450081	.0977033	.1016721
#2	.0188970	.0427100	.0108422	.0178635	.0465812	.0994489	.1025738
#3	.0199338	.0436108	.0111550	.0182101	.0459187	.1002097	.1025171

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063499	.0060229	2.105784	.0098161	.0303088	.0216189	.0992278
Stddev	.0000365	.0000084	.009810	.0004683	.0002555	.0004224	.0046301
%RSD	.5751101	.1400815	.4658719	4.770264	.8428663	1.953685	4.666152
#1	.0063859	.0060132	2.094965	.0092762	.0302367	.0219429	.0945765
#2	.0063510	.0060267	2.114099	.0101103	.0300971	.0211412	.0992706
#3	.0063128	.0060288	2.108289	.0100619	.0305925	.0217727	.1038364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0216577	2.194640	.0402156	.0100283	1.939225	.0431381	.0427763
Stddev	.0000430	.011689	.0001154	.0002495	.006503	.0005240	.0003433
%RSD	.1984220	.5326277	.2868324	2.488250	.3353628	1.214737	.8024486
#1	.0216889	2.189644	.0403175	.0102316	1.938646	.0429784	.0428440
#2	.0216755	2.207998	.0402391	.0097498	1.945999	.0427125	.0424042
#3	.0216087	2.186280	.0400904	.0101035	1.933031	.0437234	.0430806

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.880580	.1002583	.2066498	.0389400	.0400699	.3215209	.0167605
Stddev	.004044	.0003607	.0003899	.0006370	.0002654	.0016700	.0034692
%RSD	.2150359	.3597800	.1886794	1.635895	.6622470	.5193940	20.69892
#1	1.884206	.1000332	.2070022	.0394718	.0403368	.3228378	.0205775
#2	1.881314	.1000673	.2067163	.0382340	.0398061	.3196426	.0137991
#3	1.876219	.1006744	.2062309	.0391143	.0400667	.3220823	.0159049

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CRI01 Acquired: 12/5/2024 14:14:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0182572	.0198912	.0214220
Stddev	.0025643	.0005929	.0000102
%RSD	14.04548	2.980597	.0476407
#1	.0157652	.0192200	.0214156
#2	.0181182	.0201098	.0214338
#3	.0208881	.0203437	.0214166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.150	55779.59	13772.92	1491.820	3888.976
Stddev	2.992	219.80	33.59	17.338	6.374
%RSD	.1332662	.3940524	.2438762	1.162202	.1639044
#1	2246.765	55564.51	13752.32	1472.960	3895.821
#2	2241.697	55770.45	13754.75	1495.432	3883.210
#3	2246.987	56003.82	13811.68	1507.067	3887.898

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSA01 Acquired: 12/5/2024 14:18:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0064900	.0137736	.0072060	-.019115	-.002093	272.4921
Stddev	.0026038	.0010531	.0022413	.002242	.001932	1.0221
%RSD	40.11976	7.645623	31.10265	11.73103	92.30546	.3751084
#1	.0090819	.0149367	.0061190	-.018658	-.001425	272.7012
#2	.0065136	.0128849	.0057155	-.017136	-.004271	273.3935
#3	.0038745	.0134992	.0097834	-.021550	-.000584	271.3816

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050784	.0014789	.0063357	260.9891	.0579326	.0027129
Stddev	.0001920	.0000712	.0001804	.8983	.0003551	.0002435
%RSD	3.781211	4.814346	2.847312	.3441938	.6130162	8.976535
#1	.0048585	.0014084	.0062826	261.4692	.0575232	.0024542
#2	.0052127	.0014775	.0065367	259.9528	.0581155	.0027466
#3	.0051641	.0015508	.0061878	261.5453	.0581590	.0029377

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046943	101.1066	.0017315	283.0066	.0005990	-.005849
Stddev	.0002764	.5288	.0001071	.8183	.0002451	.000039
%RSD	5.888715	.5230464	6.183901	.2891606	40.91706	.6586295
#1	.0045415	101.2367	.0018546	283.1476	.0006130	-.005893
#2	.0050134	100.5248	.0016802	282.1268	.0003472	-.005832
#3	.0045280	101.5581	.0016598	283.7452	.0008367	-.005822

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0779820	.0113845	.0082357	.0413161	.0436524	.0001651
Stddev	.0158044	.0014997	.0007110	.0072991	.0012292	.0002632
%RSD	20.26675	13.17317	8.632831	17.66640	2.815965	159.4253
#1	.0618935	.0099723	.0086391	.0343962	.0449845	.0003538
#2	.0785664	.0129586	.0086532	.0406092	.0425618	-.000136
#3	.0934862	.0112227	.0074147	.0489429	.0434108	.000277

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSA01 Acquired: 12/5/2024 14:18:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.002654	-.000918	.0193891	-.004102	-.011423	F -.043568
Stddev	.001795	.000379	.0036276	.003511	.004407	.000412
%RSD	67.62490	41.24294	18.70943	85.59554	38.58163	.9460448
#1	-.004604	-.000554	.0210160	-.005183	-.008638	-.043880
#2	-.002285	-.000891	.0152328	-.000178	-.016504	-.043101
#3	-.001072	-.001310	.0219184	-.006945	-.009126	-.043724

Elem	Sr4077
Units	ppm
Avg	.0087728
Stddev	.0003283
%RSD	3.742599
#1	.0087227
#2	.0091233
#3	.0084724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1953.939	49165.75	12807.57	1313.792	3011.265
Stddev	8.390	109.26	33.86	7.089	4.049
%RSD	.4293915	.2222281	.2643400	.5395737	.1344466
#1	1944.864	49097.60	12769.97	1312.228	3010.137
#2	1955.538	49291.78	12817.13	1321.532	3007.900
#3	1961.414	49107.89	12835.62	1307.615	3015.758

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSAB01 Acquired: 12/5/2024 14:33:21 Type: Unk
Method: NON EPA-6010-200.7(v2492) 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	.1084693	.0922039	.0592624	.0324877	.5896681	253.1286
Stddev	.0007404	.0028795	.0016569	.0033474	.0011796	.5275
%RSD	.6825792	3.122940	2.795808	10.30352	.2000507	.2083831
#1	.1090312	.0944999	.0575447	.0328709	.5899793	252.8286
#2	.1076303	.0889732	.0608508	.0289652	.5906610	253.7376
#3	.1087463	.0931385	.0593916	.0356269	.5883641	252.8194

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5146874	.5123817	.9912296	238.0906	.5447677	.4990576
Stddev	.0011372	.0044493	.0028607	.2928	.0020599	.0012347
%RSD	.2209397	.8683645	.2886010	.1229923	.3781205	.2473990
#1	.5159380	.5175086	.9897689	238.2805	.5468563	.4981085
#2	.5137156	.5095303	.9893942	238.2380	.5427378	.4986108
#3	.5144085	.5101064	.9945258	237.7534	.5447091	.5004534

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4622727	93.88290	.4956517	258.8030	1.020951	.1895280
Stddev	.0003686	.45552	.0012426	.5109	.002808	.0008230
%RSD	.0797286	.4852037	.2506986	.1973947	.2750370	.4342323
#1	.4620812	93.37847	.4942208	259.0089	1.020333	.1904765
#2	.4620393	94.26421	.4964594	259.1787	1.018503	.1890029
#3	.4626976	94.00603	.4962749	258.2213	1.024016	.1891045

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0937192	.4984620	.9527444	.0280515	F .0384463	F .0002958
Stddev	.0150262	.0010988	.0017739	.0091160	.0011556	.0002127
%RSD	16.03323	.2204466	.1861893	32.49734	3.005745	71.90772
#1	.0765892	.4996940	.9521264	.0230490	.0371413	.0003980
#2	.0998942	.4975830	.9547447	.0225319	.0388577	.0000513
#3	.1046740	.4981091	.9513622	.0385735	.0393399	.0004381

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSAB01 Acquired: 12/5/2024 14:33:21 Type: Unk
Method: NON EPA-6010-200.7(v2492) 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 -.002724	F -.001296	F .0027312	F .0238169	F -.003239	F -.040259
Stddev	.001440	.000486	.0028039	.0019180	.007791	.000652
%RSD	52.88076	37.48933	102.6631	8.053233	240.5350	1.618939
#1	-.001614	-.000738	.0012267	.0259926	.003720	-.039798
#2	-.002205	-.001625	.0010006	.0230878	-.001782	-.039974
#3	-.004351	-.001524	.0059663	.0223704	-.011656	-.041005

Elem	Sr4077
Units	ppm
Avg	F .0099384
Stddev	.0005326
%RSD	5.359312
#1	.0105414
#2	.0097414
#3	.0095322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1926.234	48698.18	13038.96	1264.699	3020.191
Stddev	3.126	109.72	39.38	9.117	11.096
%RSD	.1622866	.2253005	.3020044	.7208576	.3673796
#1	1927.859	48798.89	12994.13	1273.127	3024.154
#2	1928.213	48581.26	13054.78	1255.022	3028.761
#3	1922.630	48714.40	13067.96	1265.948	3007.658

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSADLX20 Acquired: 12/5/2024 14:37:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000573	-.000736	.0006082	-.001123	-.002379	12.91552	-.000959
Stddev	.003024	.001768	.0003656	.000840	.000107	.01157	.000242
%RSD	528.0130	240.1911	60.10712	74.79368	4.509443	.0896194	25.22775
#1	-.000289	-.001829	.0005599	-.001893	-.002497	12.90345	-.001138
#2	-.003728	-.001682	.0009956	-.000227	-.002351	12.91656	-.000684
#3	.002299	.001303	.0002692	-.001249	-.002288	12.92653	-.001055

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001052	.0000552	12.85929	.0025669	.0001658	-.000052	5.025038
Stddev	.0000606	.0000671	.02107	.0006120	.0002500	.000302	.015941
%RSD	57.66696	121.5928	.1638340	23.84200	150.7373	579.2540	.3172229
#1	.0000424	.0000365	12.83604	.0018882	-.000120	.000235	5.015528
#2	.0001097	.0001296	12.87710	.0030767	.000343	-.000023	5.016146
#3	.0001634	-.000001	12.86474	.0027358	.000274	-.000368	5.043441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001683	13.12302	-.000129	.0001603	.0211369	.0018613	.0004513
Stddev	.0002591	.03280	.000120	.0001562	.0084923	.0005789	.0001309
%RSD	153.9016	.2499568	92.62809	97.43027	40.17788	31.10154	29.00762
#1	.0003591	13.08517	-.000258	.0002630	.0117185	.0023744	.0004022
#2	.0002726	13.14072	-.000107	-.000019	.0234816	.0019757	.0005997
#3	-.000127	13.14317	-.000022	.000238	.0282105	.0012337	.0003521

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033527	-.006303	-.000270	-.001438	-.000538	-.000899	-.002693
Stddev	.014573	.000400	.000043	.000495	.000334	.004086	.002290
%RSD	43.46719	6.351377	15.82160	34.39549	62.04357	454.7239	85.01661
#1	-.033954	-.005850	-.000318	-.001962	-.000250	.002196	-.000049
#2	-.047882	-.006608	-.000235	-.000980	-.000459	.000638	-.004007
#3	-.018745	-.006452	-.000259	-.001372	-.000904	-.005530	-.004024

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSADLX20 Acquired: 12/5/2024 14:37:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000590	-.002981	.0003692
Stddev	.001626	.000415	.0000274
%RSD	275.4915	13.93562	7.429237
#1	.000985	-.002827	.0003655
#2	-.000494	-.003452	.0003983
#3	-.002263	-.002665	.0003438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2220.799	55759.71	13937.99	1487.924	3794.494
Stddev	4.610	9.44	18.67	4.659	5.538
%RSD	.2075840	.0169278	.1339667	.3131206	.1459550
#1	2225.381	55759.87	13917.05	1491.535	3797.552
#2	2216.162	55769.08	13952.90	1489.572	3788.101
#3	2220.854	55750.20	13944.02	1482.665	3797.828

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSABDLX20 Acquired: 12/5/2024 14:41:31 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0034806	.0050738	.0022371	.0011596	.0278792	12.82916	.0261088
Stddev	.0014405	.0011554	.0010397	.0027385	.0005604	.05306	.0001628
%RSD	41.38639	22.77271	46.47339	236.1652	2.010016	.4135944	.6236880
#1	.0051267	.0037426	.0025652	-.001600	.0273798	12.76795	.0262335
#2	.0028646	.0058160	.0010730	.003877	.0284852	12.86209	.0261683
#3	.0024505	.0056630	.0030731	.001201	.0277726	12.85745	.0259246

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0272706	.0515589	12.78756	.0298566	.0255685	.0258912	4.991406
Stddev	.0001774	.0001373	.00907	.0001954	.0002056	.0000945	.011314
%RSD	.6503706	.2663048	.0709383	.6543773	.8040925	.3648281	.2266745
#1	.0270843	.0514023	12.79557	.0297218	.0253349	.0259884	4.986669
#2	.0274374	.0516156	12.78940	.0300807	.0257221	.0257997	4.983231
#3	.0272902	.0516588	12.77771	.0297674	.0256484	.0258854	5.004319

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269208	13.07458	.0516742	.0095976	.0078102	.0260395	.0545934
Stddev	.0002208	.08374	.0001283	.0004087	.0071492	.0003181	.0003525
%RSD	.8200313	.6404788	.2482579	4.257908	91.53660	1.221746	.6457285
#1	.0266739	13.01417	.0515371	.0091720	-.000441	.0261829	.0549865
#2	.0269894	13.17017	.0516944	.0099868	.012161	.0256749	.0543052
#3	.0270991	13.03941	.0517913	.0096340	.011711	.0262607	.0544885

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.044217	-.006426	-.000360	-.001730	-.000458	.0005425	-.002936
Stddev	.003326	.000658	.000089	.000258	.000172	.0029317	.002556
%RSD	7.521098	10.23533	24.60293	14.94186	37.44959	540.4090	87.03390
#1	-.046392	-.007164	-.000327	-.002027	-.000579	-.000468	-.003171
#2	-.040389	-.005902	-.000461	-.001598	-.000534	-.001750	-.000271
#3	-.045872	-.006211	-.000293	-.001564	-.000262	.003846	-.005366

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: ICSABDLX20 Acquired: 12/5/2024 14:41:31 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.002154	-.002923	.0003878
Stddev	.001567	.000182	.0000463
%RSD	72.75406	6.224819	11.94858
#1	-.003832	-.002820	.0003635
#2	-.000727	-.003133	.0004413
#3	-.001904	-.002815	.0003587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2218.093	55638.84	13928.21	1472.968	3794.036
Stddev	6.709	85.52	21.65	4.788	5.894
%RSD	.3024847	.1537028	.1554489	.3250438	.1553460
#1	2225.828	55547.62	13917.17	1470.348	3800.341
#2	2214.615	55651.69	13914.30	1478.494	3793.103
#3	2213.837	55717.20	13953.16	1470.062	3788.664

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV01 Acquired: 12/5/2024 14:45:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	4.935976	4.889179	4.912576	4.966723	4.927352	9.914991	9.982019
Stddev	.015835	.023806	.024145	.011658	.011622	.008340	.095688
%RSD	.3207991	.4869079	.4914844	.2347289	.2358638	.0841156	.9586043
#1	4.945821	4.904321	4.935239	4.975130	4.935051	9.922519	10.08350
#2	4.917711	4.861739	4.915307	4.953414	4.913984	9.916427	9.89344
#3	4.944398	4.901476	4.887183	4.971624	4.933022	9.906026	9.96911

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2468113	2.449250	24.47657	.9957044	2.442983	1.250102	4.909548
Stddev	.0020140	.012062	.13270	.0014091	.009183	.001589	.040685
%RSD	.8160205	.4924900	.5421707	.1415153	.3758973	.1271206	.8286840
#1	.2487253	2.459920	24.49916	.9964072	2.452171	1.251627	4.867009
#2	.2469984	2.451668	24.59653	.9966238	2.442975	1.248456	4.948082
#3	.2447103	2.436162	24.33402	.9940821	2.433805	1.250222	4.913553

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.449067	24.39352	2.449816	1.230657	25.51871	2.473373	2.513331
Stddev	.009823	.04660	.010825	.002605	.06110	.001551	.008990
%RSD	.4010741	.1910542	.4418650	.2116364	.2394424	.0627052	.3577078
#1	2.445566	24.38353	2.459031	1.229740	25.52662	2.472634	2.503430
#2	2.460161	24.44431	2.452522	1.233596	25.45403	2.475155	2.515578
#3	2.441475	24.35273	2.437895	1.228635	25.57547	2.472330	2.520985

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.87187	4.916829	4.964379	4.888508	4.933355	4.939964	4.978493
Stddev	.13042	.023409	.010319	.020315	.007272	.026278	.023236
%RSD	.5243779	.4761053	.2078670	.4155663	.1473991	.5319493	.4667246
#1	24.79156	4.941581	4.974236	4.908164	4.931614	4.910493	5.001332
#2	24.80170	4.913860	4.953653	4.889769	4.941340	4.948444	4.979268
#3	25.02236	4.895046	4.965247	4.867592	4.927112	4.960955	4.954880

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV01 Acquired: 12/5/2024 14:45:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	4.841233	4.982732	5.097346
Stddev	.019541	.011750	.003281
%RSD	.4036407	.2358133	.0643734
#1	4.860235	4.985392	5.100327
#2	4.842270	4.969880	5.097882
#3	4.821193	4.992923	5.093830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.728	52467.32	13716.13	1354.622	3382.766
Stddev	6.602	62.69	54.97	9.559	6.796
%RSD	.3252521	.1194874	.4007676	.7056372	.2009050
#1	2028.196	52538.85	13664.72	1365.656	3375.255
#2	2036.961	52421.92	13709.59	1349.316	3388.490
#3	2024.027	52441.21	13774.07	1348.892	3384.554

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB01 Acquired: 12/5/2024 14:50:00 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0015220	.0004112	.0006092	.0005500	-.000045	.0027503	-.000875
Stddev	.0006771	.0012457	.0002136	.0011320	.000613	.0013550	.000292
%RSD	44.48705	302.9605	35.06311	205.8218	1375.369	49.26765	33.40590
#1	.0021120	-.000348	.0004481	.0012664	.000549	.0038669	-.000966
#2	.0007827	.001849	.0005281	.0011387	-.000675	.0012428	-.001111
#3	.0016712	-.000267	.0008515	-.000755	-.000007	.0031412	-.000548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000014	.0000068	-.002787	-.000003	.0001192	-.000331	.0011596
Stddev	.000057	.0000685	.004847	.000355	.0000419	.000208	.0012575
%RSD	409.3259	1002.508	173.9417	13024.10	35.15402	62.85559	108.4452
#1	-.000039	.0000172	-.008374	-.000410	.0000718	-.000341	-.000262
#2	-.000054	.0000696	.000290	.000165	.0001343	-.000118	.001613
#3	.000051	-.000066	-.000276	.000237	.0001514	-.000534	.002128

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000150	.0006911	-.000181	.0000375	-.014507	.0002970	-.000135
Stddev	.000104	.0154969	.000270	.0000148	.009125	.0003866	.000271
%RSD	69.66491	2242.485	149.0595	39.54431	62.89960	130.1819	200.7701
#1	-.000059	-.013808	.000066	.0000233	-.024525	.0000188	-.000434
#2	-.000264	-.001142	-.000140	.0000529	-.012326	.0007385	.000096
#3	-.000127	.017023	-.000469	.0000363	-.006670	.0001337	-.000067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.053837	-.003294	.0001221	-.000497	-.000462	-.000625	-.001637
Stddev	.006279	.000473	.0001112	.000100	.000188	.001411	.001565
%RSD	11.66309	14.35016	91.12277	20.07141	40.72300	225.7370	95.60464
#1	-.056726	-.002760	.0002241	-.000399	-.000398	-.002118	-.002895
#2	-.046633	-.003464	.0001387	-.000598	-.000314	-.000443	.000115
#3	-.058151	-.003658	.0000035	-.000493	-.000674	.000686	-.002130

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB01 Acquired: 12/5/2024 14:50:00 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.003604	-.000245	-.000077
Stddev	.002286	.000461	.000005
%RSD	63.41815	188.2205	6.394718
#1	-.003641	-.000727	-.000071
#2	-.001300	.000193	-.000080
#3	-.005871	-.000201	-.000080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2296.941	58152.93	14425.98	1543.121	4063.960
Stddev	9.985	144.83	55.16	6.737	7.513
%RSD	.4347101	.2490524	.3823686	.4365952	.1848768
#1	2293.750	58054.34	14386.84	1535.629	4064.038
#2	2288.941	58085.22	14402.04	1545.053	4056.408
#3	2308.131	58319.21	14489.07	1548.681	4071.434

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-02 Acquired: 12/5/2024 14:54:20 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.008077	-.014390	-.000020	.0057761	-.000300	.2523834	.1568871
Stddev	.002525	.000898	.001004	.0028861	.000876	.0023305	.0005221
%RSD	31.26182	6.237717	5022.114	49.96650	291.6476	.9233769	.3327837
#1	-.005216	-.015128	-.001175	.0039943	.000550	.2504232	.1573404
#2	-.009022	-.013391	.000639	.0042281	-.000250	.2549601	.1570046
#3	-.009994	-.014651	.000476	.0091060	-.001200	.2517668	.1563162

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000152	-.000340	16.76097	.0027204	.0044554	.0066851	.8261514
Stddev	.000021	.000027	.01665	.0002232	.0001443	.0001603	.0019808
%RSD	14.11939	8.070461	.0993595	8.204297	3.237825	2.397645	.2397604
#1	-.000152	-.000317	16.74205	.0024873	.0043088	.0066048	.8238898
#2	-.000173	-.000371	16.77342	.0027417	.0045972	.0065808	.8275779
#3	-.000130	-.000332	16.76743	.0029322	.0044602	.0068696	.8269865

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4890178	1.048300	.0052771	.0002541	375.0303	.0003368	.0551229
Stddev	.0004365	.016504	.0001803	.0001596	4.2956	.0006499	.0006328
%RSD	.0892690	1.574372	3.417679	62.80726	1.145404	192.9504	1.147938
#1	.4890982	1.032925	.0052155	.0001667	371.3136	-.000413	.0551400
#2	.4885467	1.046236	.0051356	.0004383	379.7333	.000697	.0544818
#3	.4894086	1.065739	.0054802	.0001573	374.0441	.000727	.0557470

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.215632	.0049759	-.000106	.0001837	.0013207	.5818021	.0088104
Stddev	.018557	.0000892	.000330	.0010482	.0004607	.0064241	.0029622
%RSD	.8375289	1.793451	311.5781	570.6887	34.87979	1.104171	33.62114
#1	2.214501	.0050385	.000275	.0011327	.0014712	.5854155	.0101749
#2	2.197667	.0050155	-.000285	-.000941	.0008036	.5856057	.0108445
#3	2.234728	.0048737	-.000308	.000360	.0016873	.5743850	.0054119

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-02 Acquired: 12/5/2024 14:54:20 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.5566101	-.002842	.0335734
Stddev	.0020950	.000158	.0000586
%RSD	.3763829	5.569219	.1745973
#1	.5543377	-.002910	.0335260
#2	.5584647	-.002661	.0335552
#3	.5570279	-.002954	.0336389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1833.838	48207.81	13248.46	1248.281	3057.038
Stddev	9.241	83.35	22.29	8.193	8.705
%RSD	.5039049	.1728886	.1682647	.6563485	.2847393
#1	1836.424	48296.40	13223.47	1257.460	3057.453
#2	1841.511	48196.09	13266.29	1245.671	3065.528
#3	1823.580	48130.95	13255.62	1241.710	3048.134

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-08 Acquired: 12/5/2024 14:58:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.006632	-.013428	-.000466	.0089190	-.001454	.2542737	.2490748
Stddev	.002379	.001240	.000163	.0012247	.001630	.0023921	.0003842
%RSD	35.87352	9.235453	34.95550	13.73139	112.1370	.9407443	.1542717
#1	-.005738	-.014845	-.000509	.0081963	-.001650	.2523011	.2494740
#2	-.009328	-.012895	-.000603	.0082276	-.002977	.2569344	.2490429
#3	-.004829	-.012543	-.000286	.0103330	.000266	.2535854	.2487075

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000047	-.000217	8.207186	.0052095	.0039708	.0017900	.9036081
Stddev	.000033	.000010	.057793	.0002045	.0001144	.0001838	.0087656
%RSD	70.18502	4.452460	.7041724	3.926288	2.881903	10.26943	.9700625
#1	-.000012	-.000224	8.186833	.0052665	.0039146	.0017458	.8965147
#2	-.000077	-.000221	8.162323	.0053794	.0041025	.0016322	.9009019
#3	-.000052	-.000206	8.272401	.0049825	.0038954	.0019918	.9134076

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9196725	1.054668	.0051037	.0002637	344.5887	.0006055	.0534272
Stddev	.0051242	.005335	.0003088	.0003297	3.3505	.0007618	.0004383
%RSD	.5571787	.5058885	6.049681	125.0003	.9723135	125.8100	.8203915
#1	.9170272	1.056356	.0050753	.0006443	347.8908	.0011505	.0533901
#2	.9164115	1.048693	.0048101	.0000664	344.6836	-.000265	.0530086
#3	.9255788	1.058956	.0054256	.0000805	341.1918	.000931	.0538829

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.562253	.0045457	-.000300	.0002074	.0011011	.5363627	.0069828
Stddev	.020065	.0000826	.000109	.0006509	.0001947	.0007315	.0015773
%RSD	1.284362	1.816742	36.25639	313.8522	17.68219	.1363848	22.58807
#1	1.578841	.0044640	-.000388	-.000508	.0009212	.5371145	.0068570
#2	1.567968	.0045439	-.000178	.000365	.0013078	.5356534	.0054722
#3	1.539951	.0046292	-.000333	.000765	.0010744	.5363202	.0086192

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-08 Acquired: 12/5/2024 14:58:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3716103	-.001916	.0321511
Stddev	.0020989	.000510	.0001596
%RSD	.5648181	26.63586	.4964949
#1	.3716633	-.001355	.0321675
#2	.3736822	-.002041	.0323019
#3	.3694854	-.002352	.0319839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1792.843	48757.06	13629.78	1231.839	3055.763
Stddev	7.762	67.66	3.86	4.592	10.789
%RSD	.4329219	.1387725	.0283289	.3727598	.3530677
#1	1792.671	48831.99	13631.87	1235.622	3059.490
#2	1800.690	48700.43	13625.32	1226.731	3064.194
#3	1785.170	48738.76	13632.15	1233.165	3043.604

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-20 Acquired: 12/5/2024 15:17:07 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.010617	-.016284	.0002180	.0051437	-.001144	.1503520	.2057091
Stddev	.002993	.000884	.0013381	.0019773	.000688	.0003393	.0016001
%RSD	28.18675	5.429764	613.8714	38.44086	60.10299	.2256795	.7778628
#1	-.014053	-.015264	-.000407	.0029230	-.000493	.1503256	.2040938
#2	-.008581	-.016777	.001754	.0057945	-.001076	.1507038	.2057398
#3	-.009217	-.016813	-.000694	.0067135	-.001863	.1500267	.2072937

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000859	-.000261	5.563387	.0018717	.0043806	.0014400	4.008662
Stddev	.0000874	.000091	.039202	.0002641	.0000743	.0004212	.036238
%RSD	101.7594	34.73959	.7046408	14.10972	1.695808	29.24697	.9039968
#1	.0001694	-.000310	5.607558	.0019661	.0044621	.0012207	4.049247
#2	-.000005	-.000317	5.549871	.0015734	.0043166	.0019255	3.997191
#3	.000093	-.000156	5.532731	.0020756	.0043631	.0011737	3.979548

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.618711	.6391099	.0050095	.0005891	332.8337	.0003394	.0420557
Stddev	.016186	.0142469	.0001125	.0001510	5.8799	.0014787	.0003614
%RSD	.6180722	2.229170	2.245528	25.62541	1.766613	435.6887	.8592399
#1	2.636660	.6287382	.0051388	.0007333	327.0496	.0006622	.0417155
#2	2.614248	.6553544	.0049560	.0004322	332.6465	.0016300	.0420167
#3	2.605225	.6332371	.0049338	.0006019	338.8049	-.001274	.0424351

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7233977	.0032580	-.000283	.0014203	-.000416	.3595847	.0071502
Stddev	.0101152	.0004517	.000113	.0005199	.000175	.0040523	.0019293
%RSD	1.398294	13.86410	39.89948	36.60197	42.01584	1.126924	26.98242
#1	.7119280	.0032047	-.000374	.0011349	-.000616	.3642593	.0050617
#2	.7272214	.0037339	-.000320	.0020204	-.000295	.3570688	.0088659
#3	.7310436	.0028353	-.000157	.0011058	-.000336	.3574261	.0075230

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-20 Acquired: 12/5/2024 15:17:07 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.2418861	-.002804	.0389378
Stddev	.0031046	.000069	.0004984
%RSD	1.283482	2.470098	1.279894
#1	.2452843	-.002855	.0383735
#2	.2391984	-.002833	.0391221
#3	.2411755	-.002725	.0393177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1715.859	47745.40	13572.65	1174.238	2982.201
Stddev	14.975	60.28	40.13	2.031	13.611
%RSD	.8727201	.1262596	.2956636	.1729430	.4563982
#1	1731.139	47805.73	13618.84	1176.082	2996.350
#2	1715.228	47685.16	13546.40	1172.062	2981.050
#3	1701.210	47745.31	13552.71	1174.571	2969.202

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-14 Acquired: 12/5/2024 15:21:33 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.008270	-.012430	.0002423	.0078644	-.000908	.2407969	.2108905
Stddev	.001889	.001654	.0011795	.0012183	.001007	.0056188	.0006147
%RSD	22.83953	13.30680	486.8198	15.49110	110.8616	2.333426	.2914895
#1	-.009944	-.014245	.0005956	.0067551	-.002010	.2370380	.2102736
#2	-.006222	-.012038	.0012047	.0091682	-.000036	.2380966	.2108947
#3	-.008644	-.011008	-.001073	.0076699	-.000678	.2472561	.2115031

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000064	-.000284	6.052750	.0018392	.0020460	-.001562	.4085969
Stddev	.000017	.000057	.070689	.0003578	.0000825	.000247	.0035062
%RSD	26.10411	20.15984	1.167884	19.45616	4.031455	15.79272	.8581071
#1	-.000079	-.000263	6.099564	.0014629	.0021237	-.001778	.4123976
#2	-.000046	-.000241	6.087251	.0021752	.0019595	-.001616	.4079045
#3	-.000066	-.000349	5.971436	.0018795	.0020548	-.001293	.4054885

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.959459	.5289785	.0012630	.0002599	316.9177	-.000712	.0258180
Stddev	.014358	.0114928	.0005289	.0000956	4.7281	.000421	.0002192
%RSD	.7327710	2.172633	41.87833	36.77282	1.491908	59.15367	.8490503
#1	1.965919	.5329197	.0009812	.0001699	317.0149	-.000954	.0256669
#2	1.969453	.5160337	.0009346	.0002495	312.1417	-.000957	.0257178
#3	1.943006	.5379822	.0018731	.0003602	321.5965	-.000226	.0260695

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5163068	.0006537	-.000439	.0012108	.0013374	.2946064	.0076958
Stddev	.0107856	.0002251	.000108	.0003063	.0000674	.0057793	.0005689
%RSD	2.088981	34.43215	24.65482	25.29549	5.039402	1.961703	7.392627
#1	.5159072	.0005624	-.000467	.0015593	.0013897	.3008101	.0077056
#2	.5057266	.0009101	-.000530	.0010888	.0013611	.2893748	.0071220
#3	.5272866	.0004886	-.000319	.0009843	.0012613	.2936341	.0082597

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5052-14 Acquired: 12/5/2024 15:21:33 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.2861783	-.002678	.0424823
Stddev	.0061330	.000545	.0001128
%RSD	2.143075	20.35167	.2654227
#1	.2913536	-.002352	.0424426
#2	.2877772	-.003307	.0423948
#3	.2794042	-.002374	.0426096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1783.179	48382.13	13393.73	1214.481	3054.553
Stddev	11.267	497.17	19.35	27.483	6.197
%RSD	.6318321	1.027589	.1444738	2.262922	.2028907
#1	1794.426	47868.09	13393.53	1189.044	3054.076
#2	1783.218	48860.51	13374.48	1243.632	3060.976
#3	1771.892	48417.77	13413.18	1210.768	3048.608

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV02 Acquired: 12/5/2024 15:34:32 Type: Unk
Method: NON EPA-6010-200.7(v2491) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.766620	4.977236	4.967869	4.775961	4.736723	9.551975	9.478787
Stddev	.011164	.059507	.007754	.018217	.023627	.027641	.033357
%RSD	.2342220	1.195574	.1560763	.3814207	.4987951	.2893730	.3519118
#1	4.753747	5.013838	4.973101	4.756167	4.712438	9.530878	9.491570
#2	4.772466	5.009296	4.971546	4.779696	4.738102	9.541783	9.503861
#3	4.773648	4.908574	4.958961	4.792021	4.759631	9.583265	9.440929

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2558356	2.502794	25.52894	1.014655	2.475161	1.202152	4.950396
Stddev	.0020205	.003059	.22942	.004028	.002799	.004106	.023434
%RSD	.7897623	.1222195	.8986609	.3969882	.1131002	.3415383	.4733793
#1	.2581023	2.506323	25.77466	1.018186	2.478307	1.198058	4.977353
#2	.2551808	2.501137	25.49179	1.015511	2.472946	1.202129	4.938952
#3	.2542237	2.500920	25.32036	1.010267	2.474229	1.206270	4.934883

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.505064	24.90842	2.477435	1.225230	22.80222	2.492687	2.453736
Stddev	.023737	.17714	.003349	.002512	.15316	.010856	.005619
%RSD	.9475610	.7111611	.1351934	.2050245	.6717071	.4354958	.2290100
#1	2.531973	25.09809	2.480737	1.227977	22.65705	2.504810	2.459658
#2	2.496120	24.87990	2.477529	1.224662	22.78732	2.483867	2.448478
#3	2.487097	24.74727	2.474040	1.223051	22.96229	2.489384	2.453073

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.59824	5.002486	4.864531	4.991476	4.885441	4.801394	5.078890
Stddev	.18009	.033458	.008236	.005627	.017638	.022495	.014694
%RSD	.7969422	.6688298	.1693051	.1127248	.3610346	.4685131	.2893161
#1	22.43479	5.039220	4.855325	4.996472	4.905805	4.783608	5.077785
#2	22.56861	4.994484	4.867068	4.992573	4.874963	4.793892	5.094106
#3	22.79131	4.973755	4.871200	4.985381	4.875555	4.826681	5.064780

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV02 Acquired: 12/5/2024 15:34:32 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	4.876580	4.505396	4.944699
Stddev	.025602	.027248	.011115
%RSD	.5250058	.6047883	.2247858
#1	4.897421	4.480702	4.932092
#2	4.884317	4.500859	4.953085
#3	4.848002	4.534629	4.948920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2183.468	54412.44	13834.98	1463.883	3535.521
Stddev	10.271	9.35	68.64	1.786	7.907
%RSD	.4703808	.0171771	.4961546	.1219727	.2236579
#1	2193.669	54410.88	13760.20	1465.936	3542.759
#2	2183.608	54422.47	13849.61	1463.020	3536.723
#3	2173.129	54403.97	13895.13	1462.692	3527.082

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB02 Acquired: 12/5/2024 15:41:48 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0002652	.0003782	.0007926	-.001777	-.000777	.0016224	.0017608
Stddev	.0007636	.0010988	.0009591	.000188	.000660	.0011540	.0002861
%RSD	287.9406	290.5207	121.0078	10.57007	84.92945	71.12906	16.24892
#1	.0000770	.0016381	.0015510	-.001990	-.000016	.0012959	.0014897
#2	.0011053	-.000122	-.000286	-.001705	-.001189	.0006669	.0017330
#3	-.000387	-.000381	.001112	-.001636	-.001127	.0029045	.0020598

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000650	-.000053	-.020327	-.000066	.0001534	-.000802	-.002174
Stddev	.0000320	.000016	.005648	.000130	.0000975	.000342	.003908
%RSD	49.17854	30.68490	27.78781	196.6449	63.55800	42.63123	179.7310
#1	.0000697	-.000037	-.016010	-.000126	.0000602	-.000852	-.006344
#2	.0000944	-.000069	-.018250	-.000155	.0001454	-.001116	-.001583
#3	.0000310	-.000051	-.026719	.000083	.0002547	-.000438	.001404

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000676	-.001498	-.000234	.0004082	.0226742	.0002511	-.000452
Stddev	.0001398	.002074	.000237	.0001432	.0122139	.0006299	.000136
%RSD	206.9829	138.4913	101.3700	35.07235	53.86682	250.8726	30.00106
#1	.0002247	-.003373	-.000066	.0005448	.0098175	.0000193	-.000389
#2	.0000208	-.001850	-.000131	.0002592	.0240818	-.000230	-.000607
#3	-.000043	.000730	-.000506	.0004206	.0341233	.000964	-.000359

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013400	-.002548	-.000192	-.000482	-.000146	-.003281	-.004984
Stddev	.007247	.000313	.000130	.000287	.000120	.000951	.001733
%RSD	54.08126	12.29680	67.89130	59.54778	82.10622	28.98250	34.77128
#1	-.020251	-.002262	-.000339	-.000460	-.000033	-.002572	-.003132
#2	-.014137	-.002883	-.000145	-.000779	-.000272	-.004361	-.006566
#3	-.005813	-.002499	-.000092	-.000206	-.000133	-.002909	-.005254

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB02 Acquired: 12/5/2024 15:41:48 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0008674	.0007227	-.000109
Stddev	.0042978	.0003865	.000006
%RSD	495.4827	53.48440	5.918342
#1	-.002146	.0003573	-.000115
#2	.005789	.0011273	-.000109
#3	-.001041	.0006833	-.000102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2422.960	58823.68	14136.51	1607.896	4185.275
Stddev	2.761	87.16	23.12	1.627	4.658
%RSD	.1139437	.1481664	.1635800	.1011832	.1112998
#1	2425.391	58856.17	14111.35	1606.972	4189.934
#2	2419.959	58889.92	14156.84	1609.774	4180.618
#3	2423.531	58724.94	14141.33	1606.941	4185.272

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165341TB Acquired: 12/5/2024 15:46:14 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	-.009841	-.010599	-.000599	.0075675	-.001107	.0049194
Stddev	.000370	.000302	.000964	.0015542	.000984	.0026117
%RSD	3.763610	2.849883	160.9163	20.53816	88.90501	53.09038
#1	-.009482	-.010447	-.001713	.0063407	.000026	.0052244
#2	-.010222	-.010403	-.000058	.0070466	-.001747	.0073652
#3	-.009817	-.010947	-.000027	.0093153	-.001599	.0021686

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001551	-.000193	-.000254	-.016262	.0012253	-.000356
Stddev	.000420	.000058	.000074	.008551	.0000516	.000150
%RSD	27.11038	30.28277	29.26716	52.58249	4.214942	42.30542
#1	-.001086	-.000225	-.000204	-.007214	.0012259	-.000216
#2	-.001662	-.000125	-.000218	-.017363	.0011733	-.000515
#3	-.001905	-.000228	-.000340	-.024209	.0012765	-.000336

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008691	.0105104	.0014381	.0027299	.0011467	.0003261
Stddev	.000313	.0048718	.0001205	.0092065	.0002661	.0003255
%RSD	3.597346	46.35196	8.376648	337.2451	23.20855	99.81296
#1	-.008901	.0122762	.0015695	.0033740	.0009838	-.000002
#2	-.008332	.0050019	.0013329	.0115974	.0014538	.000331
#3	-.008842	.0142530	.0014119	-.006782	.0010025	.000649

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 346.8312	.0001815	.0017796	-.024916	-.007055	-.000100
Stddev	2.0318	.0005110	.0002218	.010132	.000678	.000059
%RSD	.5858216	281.4896	12.46045	40.66603	9.616062	59.26110
#1	345.7045	.0006653	.0019834	-.021660	-.006565	-.000131
#2	345.6124	-.000353	.0018121	-.036277	-.006772	-.000138
#3	349.1767	.000232	.0015435	-.016812	-.007830	-.000032

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165341TB Acquired: 12/5/2024 15:46:14 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0006426	-.000559	.0079721	.0029202	F .0256199	-.002060
Stddev	.0000755	.000344	.0018921	.0044183	.0011941	.000097
%RSD	11.75560	61.51455	23.73391	151.2989	4.660989	4.714736
#1	.0007234	-.000854	.0067581	.0001972	.0262916	-.002168
#2	.0006305	-.000181	.0070060	.0005454	.0263271	-.002036
#3	.0005738	-.000643	.0101522	.0080180	.0242412	-.001978

Elem	Sr4077
Units	ppm
Avg	-.000176
Stddev	.000017
%RSD	9.713646
#1	-.000196
#2	-.000163
#3	-.000169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1892.383	48859.73	13292.22	1276.755	3167.265
Stddev	21.917	160.65	16.54	9.139	18.879
%RSD	1.158165	.3287886	.1244070	.7158211	.5960637
#1	1912.168	48695.13	13300.64	1266.550	3178.393
#2	1896.157	49016.11	13273.17	1284.186	3177.935
#3	1868.824	48867.94	13302.84	1279.528	3145.467

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165363BL Acquired: 12/5/2024 15:50:47 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0011739	-.001422	-.000128	.0005593	-.002121	-.000722	-.000405
Stddev	.0018629	.000177	.000681	.0009340	.000167	.003072	.000401
%RSD	158.6868	12.48505	531.5440	167.0017	7.850959	425.7553	98.98713
#1	.0002666	-.001227	.000444	-.000460	-.002289	-.003404	-.000647
#2	.0033166	-.001463	.000054	.001374	-.002117	.002630	-.000626
#3	-.000061	-.001575	-.000882	.000764	-.001956	-.001391	.000058

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000614	.0000490	-.003449	-.000090	-.000007	-.000611	-.000400
Stddev	.0000407	.0001027	.002006	.000151	.000091	.000285	.002327
%RSD	66.26470	209.5460	58.14836	168.6178	1321.656	46.66241	581.7345
#1	.0000994	-.000008	-.001967	-.000225	-.000003	-.000726	-.002025
#2	.0000185	-.000012	-.002649	-.000118	.000082	-.000286	.002266
#3	.0000663	.000168	-.005731	.000074	-.000100	-.000820	-.001441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001374	-.004194	-.000463	.0003189	.1168843	.0006348	-.000117
Stddev	.0002326	.009257	.000259	.0001353	.0117386	.0007729	.000142
%RSD	169.3398	220.7431	55.89858	42.41215	10.04288	121.7603	121.1323
#1	.0003979	-.012014	-.000467	.0002258	.1034873	.0012804	-.000224
#2	-.000050	.006027	-.000203	.0004741	.1217988	-.000222	-.000172
#3	.000064	-.006594	-.000721	.0002569	.1253670	.000846	.000044

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0568447	-.005843	-.000260	-.000753	-.000542	-.001900	-.004081
Stddev	.0141083	.000281	.000219	.000364	.000259	.003437	.001368
%RSD	24.81895	4.811698	84.10159	48.36093	47.80477	180.8768	33.51924
#1	.0483548	-.005920	-.000434	-.000555	-.000622	.001726	-.005661
#2	.0490487	-.006078	-.000014	-.000530	-.000752	-.005109	-.003303
#3	.0731306	-.005532	-.000333	-.001173	-.000253	-.002318	-.003280

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165363BL Acquired: 12/5/2024 15:50:47 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0030173	.0014729	-.000131
Stddev	.0002687	.0005318	.000008
%RSD	8.904730	36.10491	5.992076
#1	.0027186	.0018965	-.000122
#2	.0032393	.0016461	-.000136
#3	.0030941	.0008761	-.000136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2293.764	56418.72	13720.73	1531.387	3977.992
Stddev	9.248	130.55	31.21	12.434	3.792
%RSD	.4031895	.2314012	.2274788	.8119401	.0953200
#1	2302.052	56540.05	13685.98	1542.983	3980.007
#2	2283.788	56280.57	13746.39	1518.258	3973.619
#3	2295.452	56435.55	13729.81	1532.920	3980.352

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165363BS Acquired: 12/5/2024 15:55:11 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7465514	2.096947	1.016128	1.871008	.7390510	1.989990
Stddev	.0006217	.028561	.002220	.005633	.0033464	.008735
%RSD	.0832764	1.362033	.2184953	.3010505	.4527949	.4389564
#1	.7458377	2.129054	1.018605	1.876971	.7405000	1.984558
#2	.7468413	2.074369	1.015464	1.870275	.7414287	1.985346
#3	.7469753	2.087416	1.014316	1.865777	.7352243	2.000067

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2029569	.2295306	.2066862	1.128234	.4296139	.2073237
Stddev	.0002694	.0011404	.0003416	.009510	.0012590	.0006031
%RSD	.1327316	.4968484	.1652574	.8428961	.2930626	.2908823
#1	.2026878	.2292088	.2070806	1.138844	.4288300	.2079985
#2	.2032266	.2307973	.2064865	1.125381	.4310662	.2068374
#3	.2029564	.2285857	.2064916	1.120478	.4289455	.2071352

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3034028	3.014765	.2221873	2.118203	.5205611	.0760163
Stddev	.0007208	.011522	.0008703	.009847	.0010601	.0002300
%RSD	.2375549	.3821891	.3917181	.4648795	.2036432	.3025227
#1	.3041975	3.007835	.2215009	2.111038	.5217726	.0757523
#2	.3032194	3.008394	.2218949	2.114139	.5198034	.0761730
#3	.3027915	3.028066	.2231662	2.129431	.5201075	.0761237

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.734265	.3196699	.2084805	8.787496	.3178964	.4027423
Stddev	.005341	.0005976	.0001034	.012095	.0007898	.0010910
%RSD	.1953417	.1869516	.0495980	.1376432	.2484553	.2708834
#1	2.740290	.3191802	.2085867	8.800158	.3174479	.4040000
#2	2.730109	.3194936	.2083801	8.786272	.3188084	.4020524
#3	2.732396	.3203358	.2084748	8.776060	.3174329	.4021744

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165363BS Acquired: 12/5/2024 15:55:11 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7156680	.2074933	F .6820490	5.927535	F -.010969	.1983102
Stddev	.0029553	.0004678	.0010495	.001864	.003351	.0004880
%RSD	.4129431	.2254269	.1538779	.0314494	30.54709	.2460705
#1	.7180128	.2072836	.6829037	5.929686	-.013788	.1985939
#2	.7166427	.2080292	.6808776	5.926540	-.007264	.1985900
#3	.7123484	.2071670	.6823658	5.926380	-.011856	.1977468

Elem	Sr4077
Units	ppm
Avg	.2152272
Stddev	.0004070
%RSD	.1891175
#1	.2153027
#2	.2155911
#3	.2147876

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2329.192	56192.99	13227.75	1561.324	3881.788
Stddev	6.071	104.51	7.10	6.711	10.631
%RSD	.2606561	.1859833	.0536515	.4298465	.2738655
#1	2324.687	56143.77	13219.59	1554.633	3873.214
#2	2326.794	56313.03	13231.27	1568.055	3878.467
#3	2336.097	56122.18	13232.41	1561.284	3893.683

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165328BL Acquired: 12/5/2024 15:59:18 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0010602	.0014278	.0003242	.0000000	-.001698	.0018880	.0029685
Stddev	.0007214	.0017560	.0003337	.0007004	.000510	.0006303	.0002217
%RSD	68.04606	122.9896	102.9300	1550742.	30.01149	33.38337	7.469572
#1	.0010693	.0020176	.0003275	-.000354	-.001718	.0013120	.0031561
#2	.0017770	.0028129	-.000011	-.000453	-.001179	.0017907	.0027238
#3	.0003342	-.000547	.000656	.000807	-.002198	.0025612	.0030254

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000638	.0000336	-.008104	-.000208	.0001357	-.000721	-.001599
Stddev	.0000502	.0000417	.005165	.000320	.0001996	.000086	.002313
%RSD	78.74019	124.1102	63.72883	153.5680	147.0511	11.90050	144.6574
#1	.0001128	.0000463	-.003819	-.000398	.0002432	-.000789	.000989
#2	.0000124	.0000674	-.006655	-.000389	.0002585	-.000748	-.002321
#3	.0000662	-.000013	-.013839	.000161	-.000095	-.000625	-.003465

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000082	-.002876	-.000199	.0001477	.0309397	.0004531	-.000614
Stddev	.000067	.009123	.000359	.0002717	.0107746	.0011763	.000088
%RSD	81.52344	317.2612	180.7004	183.9307	34.82455	259.5881	14.36449
#1	-.000155	-.010079	.000206	.0004488	.0197305	-.000331	-.000516
#2	-.000063	-.005931	-.000479	.0000736	.0318690	-.000115	-.000687
#3	-.000026	.007383	-.000322	-.000079	.0412195	.001806	-.000640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000706	-.006150	-.000304	-.000982	-.000773	-.004870	-.002938
Stddev	.005540	.000807	.000109	.000654	.000207	.002027	.001086
%RSD	785.1923	13.11808	35.92345	66.63655	26.77668	41.62946	36.96800
#1	-.001203	-.005438	-.000301	-.001354	-.000535	-.003424	-.002705
#2	-.005980	-.007027	-.000197	-.001365	-.000911	-.007187	-.004121
#3	.005066	-.005987	-.000415	-.000226	-.000872	-.003999	-.001987

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165328BL Acquired: 12/5/2024 15:59:18 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	-.000492	-.000186	-.000121
Stddev	.000352	.000551	.000004
%RSD	71.50099	295.4959	3.211395
#1	-.000241	-.000723	-.000125
#2	-.000894	.000377	-.000121
#3	-.000341	-.000214	-.000117

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2487.332	60042.15	13883.31	1706.953	4231.150
Stddev	12.045	137.32	54.46	11.450	12.107
%RSD	.4842444	.2287124	.3922610	.6707731	.2861446
#1	2501.239	60127.12	13883.17	1716.263	4244.691
#2	2480.454	60115.61	13937.84	1710.429	4227.390
#3	2480.301	59883.72	13828.92	1694.169	4221.369

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165371BS Acquired: 12/5/2024 16:07:39 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7253309	2.057165	.9920389	1.813512	.7374560	1.920369
Stddev	.0023748	.006152	.0009798	.006115	.0034381	.010956
%RSD	.3274100	.2990726	.0987640	.3372102	.4662082	.5705049
#1	.7278836	2.063972	.9931692	1.812772	.7370261	1.933018
#2	.7249222	2.052001	.9914325	1.819964	.7410888	1.913868
#3	.7231870	2.055522	.9915149	1.807801	.7342531	1.914220

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1969841	.2266663	.2021342	1.092921	.4209073	.2016130
Stddev	.0014841	.0019351	.0007535	.011168	.0011312	.0003506
%RSD	.7534180	.8537223	.3727939	1.021871	.2687486	.1738797
#1	.1986118	.2288983	.2030019	1.098409	.4200078	.2016560
#2	.1957061	.2256413	.2016437	1.080071	.4221773	.2012430
#3	.1966343	.2254594	.2017571	1.100284	.4205368	.2019401

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2921517	2.927181	.2164708	2.068773	.5060632	.0742879
Stddev	.0004512	.027419	.0018400	.023064	.0007990	.0000959
%RSD	.1544471	.9366923	.8500193	1.114873	.1578937	.1291061
#1	.2920181	2.921787	.2175733	2.084957	.5065668	.0743401
#2	.2926546	2.902860	.2143467	2.042364	.5064810	.0741772
#3	.2917823	2.956896	.2174925	2.078998	.5051419	.0743463

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.570123	.3126857	.2026498	8.382845	.3124833	.4011446
Stddev	.007588	.0017588	.0010432	.034039	.0044890	.0004141
%RSD	.2952228	.5624717	.5148017	.4060538	1.436555	.1032253
#1	2.561531	.3147029	.2032447	8.344133	.3176664	.4009647
#2	2.572937	.3114736	.2032596	8.408091	.3099462	.4016182
#3	2.575903	.3118806	.2014452	8.396310	.3098374	.4008508

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165371BS Acquired: 12/5/2024 16:07:39 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7200295	.2080094	F .6788848	5.784837	F -.011276	.1906183
Stddev	.0019943	.0021627	.0076987	.009443	.001497	.0015489
%RSD	.2769803	1.039707	1.134021	.1632436	13.27626	.8125936
#1	.7218454	.2100429	.6843242	5.793482	-.012707	.1920998
#2	.7178951	.2057373	.6822544	5.786270	-.011402	.1890098
#3	.7203479	.2082481	.6700758	5.774759	-.009721	.1907454

Elem	Sr4077
Units	ppm
Avg	.2079058
Stddev	.0015090
%RSD	.7258257
#1	.2096384
#2	.2068793
#3	.2071997

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2440.281	58605.01	13636.22	1638.206	4045.531
Stddev	7.210	94.76	130.98	4.132	6.097
%RSD	.2954633	.1616901	.9605465	.2522480	.1507113
#1	2441.448	58657.91	13488.67	1642.447	4041.505
#2	2432.559	58661.52	13738.78	1637.978	4042.541
#3	2446.837	58495.62	13681.20	1634.192	4052.545

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165328BS Acquired: 12/5/2024 16:12:44 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7259329	2.063475	.9834310	1.823952	.7187410	1.909198
Stddev	.0023281	.017805	.0033709	.005828	.0028234	.006576
%RSD	.3206992	.8628457	.3427728	.3195401	.3928328	.3444641
#1	.7232491	2.055325	.9827275	1.820010	.7204713	1.901674
#2	.7271411	2.051204	.9804673	1.821199	.7154829	1.912070
#3	.7274084	2.083896	.9870981	1.830647	.7202688	1.913851

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1942945	.2194155	.1994547	1.069632	.4152426	.1995887
Stddev	.0001647	.0007926	.0001944	.011470	.0007787	.0004215
%RSD	.0847773	.3612432	.0974452	1.072364	.1875228	.2111843
#1	.1941044	.2193311	.1995357	1.072873	.4160085	.1993440
#2	.1943913	.2186685	.1992329	1.056890	.4144517	.1993466
#3	.1943880	.2202470	.1995954	1.079134	.4152675	.2000754

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2915094	2.927169	.2126901	2.034711	.5002063	.0735471
Stddev	.0008468	.016999	.0010668	.017442	.0009857	.0000633
%RSD	.2904813	.5807417	.5015750	.8572408	.1970624	.0861350
#1	.2921006	2.908080	.2114904	2.039831	.5012518	.0736202
#2	.2905393	2.932752	.2130478	2.015282	.5000733	.0735138
#3	.2918883	2.940675	.2135320	2.049021	.4992939	.0735074

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.601818	.3081601	.2018224	F 8.457453	.3013383	.3881217
Stddev	.013213	.0011423	.0005157	.021047	.0011175	.0007188
%RSD	.5078506	.3706739	.2555409	.2488589	.3708469	.1851882
#1	2.592771	.3087861	.2012619	8.447433	.3020345	.3877892
#2	2.616981	.3068416	.2019282	8.443287	.3019312	.3876295
#3	2.595700	.3088525	.2022770	8.481638	.3000493	.3889466

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165328BS Acquired: 12/5/2024 16:12:44 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.6897586	.1990719	F .6611234	5.733579	F -.011395	.1898562
Stddev	.0015242	.0005653	.0060954	.019030	.001760	.0008341
%RSD	.2209823	.2839715	.9219805	.3319040	15.44960	.4393497
#1	.6908286	.1995168	.6555219	5.720102	-.012392	.1892157
#2	.6880134	.1984358	.6676149	5.725287	-.012430	.1907994
#3	.6904339	.1992632	.6602334	5.755348	-.009362	.1895534

Elem	Sr4077
Units	ppm
Avg	.2076384
Stddev	.0001100
%RSD	.0529627
#1	.2076179
#2	.2075401
#3	.2077571

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2405.737	57744.82	13698.83	1584.845	4016.037
Stddev	1.638	140.22	20.74	3.161	3.398
%RSD	.0680730	.2428324	.1513635	.1994238	.0846230
#1	2404.079	57658.45	13674.94	1581.920	4012.146
#2	2407.354	57669.39	13709.37	1584.416	4017.539
#3	2405.778	57906.61	13712.17	1588.198	4018.425

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165287BL Acquired: 12/5/2024 16:16:47 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0013293	.0005499	-.000112	.0006154	-.002110	-.001176	.0011443
Stddev	.0007339	.0004129	.000778	.0004094	.000557	.003030	.0003812
%RSD	55.21210	75.09165	694.9923	66.52534	26.38271	257.7323	33.31035
#1	.0016593	.0003245	-.000988	.0009973	-.002694	.000897	.0014926
#2	.0018404	.0002986	.000500	.0001832	-.002049	-.004653	.0012033
#3	.0004883	.0010264	.000152	.0006656	-.001586	.000229	.0007371

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000221	.0000305	-.016397	-.000259	.0000170	-.000838	.0021431
Stddev	.0000389	.0000718	.003778	.000213	.0000875	.000099	.0012001
%RSD	176.0603	235.5162	23.03933	82.26535	515.2105	11.76945	55.99689
#1	.0000455	.0000351	-.019314	-.000324	.0000962	-.000799	.0032317
#2	-.000023	-.000043	-.012130	-.000432	-.000077	-.000766	.0023413
#3	.000044	.000100	-.017747	-.000021	.000032	-.000951	.0008563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000747	.0011500	-.000165	.0000669	-.001363	.0006543	-.000396
Stddev	.0001979	.0138745	.000114	.0001750	.010812	.0004924	.000115
%RSD	264.9964	1206.513	68.77307	261.6132	793.1818	75.26064	28.95093
#1	.0002931	-.009911	-.000228	.0000897	-.013015	.0004822	-.000502
#2	-.000093	.016718	-.000235	-.000118	.000580	.0012096	-.000274
#3	.000024	-.003357	-.000034	.000229	.008345	.0002710	-.000412

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.042959	-.007337	-.000323	-.000833	-.000416	-.001340	-.005012
Stddev	.015895	.000564	.000242	.000450	.000203	.002436	.002807
%RSD	37.00114	7.681268	74.85221	54.00097	48.86467	181.7801	56.00825
#1	-.061078	-.006747	-.000553	-.001302	-.000634	.001463	-.007913
#2	-.036436	-.007870	-.000071	-.000405	-.000383	-.002538	-.004813
#3	-.031363	-.007394	-.000346	-.000792	-.000231	-.002944	-.002309

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165287BL Acquired: 12/5/2024 16:16:47 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	-.001131	-.000286	-.000149
Stddev	.001854	.000415	.000019
%RSD	163.9564	145.2807	12.86311
#1	-.001919	-.000352	-.000162
#2	.000987	-.000664	-.000157
#3	-.002461	.000159	-.000127

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2435.873	58702.97	13989.13	1631.775	4177.116
Stddev	4.357	197.87	12.73	23.748	6.809
%RSD	.1788694	.3370738	.0910041	1.455324	.1630039
#1	2440.734	58565.49	13976.04	1617.609	4183.935
#2	2434.566	58613.68	14001.47	1618.524	4170.318
#3	2432.319	58929.76	13989.87	1659.191	4177.094

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165287BS Acquired: 12/5/2024 16:21:08 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7245646	2.048365	.9781504	1.819304	.7168055	1.904823	.1951203
Stddev	.0068502	.024121	.0024891	.007313	.0034104	.001329	.0007388
%RSD	.9454207	1.177589	.2544734	.4019869	.4757739	.0697460	.3786488
#1	.7298368	2.061277	.9808761	1.827714	.7191954	1.903299	.1943784
#2	.7168218	2.063282	.9759979	1.814441	.7129001	1.905733	.1958561
#3	.7270352	2.020537	.9775770	1.815755	.7183211	1.905438	.1951265

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2179075	.1985811	1.066849	.4112511	.1988497	.2911779	2.920927
Stddev	.0001434	.0002227	.011815	.0015243	.0003416	.0010928	.015184
%RSD	.0658084	.1121586	1.107511	.3706586	.1718046	.3752930	.5198453
#1	.2180340	.1988103	1.055939	.4128505	.1991015	.2920596	2.904275
#2	.2177517	.1985675	1.065208	.4110877	.1989867	.2899553	2.924500
#3	.2179369	.1983655	1.079398	.4098150	.1984608	.2915187	2.934006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2130664	2.013968	.4992747	.0731963	2.587273	.3084228	.2013021
Stddev	.0017181	.017503	.0006559	.0004525	.005892	.0022988	.0006524
%RSD	.8063633	.8690643	.1313601	.6181518	.2277360	.7453546	.3240751
#1	.2112053	1.996455	.4985931	.0735490	2.593817	.3064868	.2005652
#2	.2134020	2.013988	.4999013	.0733538	2.585616	.3078180	.2015352
#3	.2145919	2.031460	.4993296	.0726862	2.582387	.3109636	.2018059

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.430256	.3017378	.3881593	.6883191	.1976366	.6595099	5.692405
Stddev	.029762	.0011549	.0011386	.0003405	.0003039	.0054177	.012837
%RSD	.3530321	.3827315	.2933272	.0494703	.1537707	.8214784	.2255120
#1	8.433722	.3027071	.3894663	.6882580	.1973576	.6537896	5.706980
#2	8.458134	.3004601	.3873822	.6886860	.1979604	.6601770	5.687454
#3	8.398914	.3020463	.3876294	.6880132	.1975917	.6645632	5.682781

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165287BS Acquired: 12/5/2024 16:21:08 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	-.008875	.1893041	.2064632
Stddev	.002334	.0005065	.0002673
%RSD	26.29821	.2675426	.1294709
#1	-.011269	.1891392	.2066047
#2	-.006606	.1889007	.2066300
#3	-.008751	.1898725	.2061549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2391.333	57995.29	13730.71	1599.601	3994.506
Stddev	10.957	95.46	22.05	4.857	9.094
%RSD	.4582028	.1645912	.1606024	.3036630	.2276693
#1	2382.332	57956.33	13741.78	1601.430	3985.889
#2	2403.534	57925.47	13705.32	1603.278	4004.012
#3	2388.133	58104.06	13745.04	1594.094	3993.617

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165370BL Acquired: 12/5/2024 16:25:09 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.0008343	-.000129	.0004367	-.000844	-.001760	.0011732	.0010233
Stddev	.0010133	.000589	.0009317	.000777	.000563	.0024153	.0002702
%RSD	121.4551	457.4601	213.3538	92.08393	31.99501	205.8757	26.40170
#1	.0017720	-.000022	.0004597	-.000447	-.002103	.0000771	.0009432
#2	-.000241	.000400	.0013566	-.000345	-.002069	.0039422	.0013245
#3	.000972	-.000763	-.000506	-.001739	-.001110	-.000500	.0008022

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000953	.0000274	-.012015	-.000152	.0001477	-.000787	-.001895
Stddev	.0000031	.0000819	.006070	.000325	.0000533	.000011	.001333
%RSD	3.279941	299.3736	50.51957	214.4358	36.09857	1.353982	70.36245
#1	.0000927	.0001217	-.010017	-.000525	.0002092	-.000798	-.002564
#2	.0000988	-.000026	-.007196	-.000002	.0001151	-.000777	-.000360
#3	.0000945	-.000014	-.018832	.000072	.0001187	-.000785	-.002761

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000064	-.002747	-.000262	.0002843	-.009967	-.000432	-.000455
Stddev	.000150	.002391	.000286	.0002058	.010161	.000495	.000139
%RSD	234.3941	87.04890	109.3766	72.39112	101.9445	114.4388	30.51766
#1	.000013	-.002058	.000059	.0004305	-.021405	.000070	-.000341
#2	-.000237	-.005406	-.000492	.0003734	-.006513	-.000447	-.000415
#3	.000032	-.000775	-.000352	.0000489	-.001984	-.000919	-.000610

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023208	-.007886	-.000293	-.000158	.0000353	-.003668	-.004088
Stddev	.003718	.000430	.000082	.000658	.0000891	.002025	.000811
%RSD	16.02195	5.457230	27.96305	416.7287	252.3583	55.20264	19.84831
#1	-.025844	-.008154	-.000385	-.000916	.0000572	-.003993	-.004876
#2	-.024826	-.008116	-.000228	.000174	-.000063	-.001500	-.003255
#3	-.018955	-.007390	-.000265	.000269	.000112	-.005509	-.004132

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165370BL Acquired: 12/5/2024 16:25:09 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	-.001629	-.000630	-.000128
Stddev	.001386	.000258	.000008
%RSD	85.06265	40.86586	5.951710
#1	-.003084	-.000474	-.000135
#2	-.000326	-.000490	-.000120
#3	-.001476	-.000928	-.000130

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.454	58221.43	13997.88	1604.754	4132.437
Stddev	1.473	56.18	49.12	8.770	5.208
%RSD	.0611676	.0964975	.3509350	.5464893	.1260286
#1	2409.142	58242.32	13944.51	1597.147	4137.342
#2	2406.786	58264.17	14041.21	1614.346	4126.971
#3	2406.434	58157.79	14007.90	1602.768	4132.998

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165370BS Acquired: 12/5/2024 16:29:30 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.7205016	2.068362	.9849666	1.794039	.7063897	1.918875
Stddev	.0019370	.015025	.0008337	.003841	.0014874	.003730
%RSD	.2688384	.7264361	.0846390	.2140826	.2105610	.1943598
#1	.7226976	2.058656	.9858635	1.797941	.7078816	1.919475
#2	.7190359	2.060761	.9848211	1.793912	.7063807	1.922268
#3	.7197714	2.085669	.9842153	1.790263	.7049068	1.914881

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1960747	.2232108	.2005383	1.088406	.4176857	.2005849
Stddev	.0006096	.0008936	.0004782	.002349	.0005415	.0004119
%RSD	.3109008	.4003594	.2384392	.2158344	.1296357	.2053240
#1	.1961570	.2240039	.2010884	1.086117	.4179646	.2010461
#2	.1954282	.2222425	.2003033	1.088290	.4180309	.2004545
#3	.1966390	.2233858	.2002230	1.090811	.4170616	.2002539

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2894301	2.927702	.2155626	2.063908	.5030755	.0737206
Stddev	.0011028	.009488	.0003899	.009506	.0010129	.0005769
%RSD	.3810228	.3240665	.1808819	.4605979	.2013409	.7825011
#1	.2902898	2.921921	.2151215	2.074771	.5038799	.0739589
#2	.2898138	2.938651	.2158613	2.059842	.5034086	.0741402
#3	.2881867	2.922532	.2157052	2.057111	.5019380	.0730628

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.557592	.3110550	.2022271	8.376442	.3062778	.3860100
Stddev	.012687	.0017370	.0008555	.026927	.0015301	.0006880
%RSD	.4960499	.5584230	.4230154	.3214654	.4995899	.1782457
#1	2.544473	.3121187	.2016303	8.349414	.3080398	.3867641
#2	2.558506	.3090505	.2032071	8.403267	.3055093	.3858496
#3	2.569798	.3119957	.2018438	8.376646	.3052842	.3854164

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165370BS Acquired: 12/5/2024 16:29:30 Type: Unk
Method: NON EPA-6010-200.7(v2493) 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	.6937787	.1997409	F .6567605	5.778652	F -.007481	.1884914
Stddev	.0009910	.0003024	.0054605	.022478	.003742	.0002809
%RSD	.1428456	.1513705	.8314331	.3889890	50.02257	.1490029
#1	.6944316	.2000291	.6570826	5.778036	-.011764	.1887250
#2	.6926383	.1997674	.6620529	5.756488	-.005841	.1881798
#3	.6942660	.1994261	.6511461	5.801432	-.004839	.1885696

Elem	Sr4077
Units	ppm
Avg	.2067126
Stddev	.0000252
%RSD	.0122104
#1	.2067165
#2	.2066856
#3	.2067357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2453.022	58374.87	13679.95	1617.660	4057.067
Stddev	11.436	101.28	51.07	6.396	19.586
%RSD	.4662171	.1734992	.3733474	.3953672	.4827679
#1	2441.461	58295.58	13621.04	1613.908	4036.389
#2	2453.274	58340.08	13707.04	1614.028	4059.471
#3	2464.330	58488.97	13711.77	1625.045	4075.340

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV03 Acquired: 12/5/2024 16:42:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	4.857435	5.160840	5.022560	4.893933	4.838480	9.825786	9.794788
Stddev	.011225	.029431	.014486	.013714	.013903	.020497	.062521
%RSD	.2310869	.5702833	.2884274	.2802348	.2873523	.2085999	.6383065
#1	4.848613	5.177494	5.037033	4.880142	4.822566	9.816645	9.724494
#2	4.853623	5.126858	5.022585	4.894087	4.844601	9.811449	9.844179
#3	4.870070	5.178169	5.008061	4.907569	4.848272	9.849262	9.815691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2559298	2.524314	25.27813	1.020015	2.500859	1.223873	4.939764
Stddev	.0013624	.008544	.09305	.001423	.006370	.001858	.019456
%RSD	.5323397	.3384712	.3680958	.1395427	.2547230	.1517904	.3938723
#1	.2568874	2.534179	25.29288	1.021356	2.507847	1.221823	4.920192
#2	.2565318	2.519494	25.36292	1.018522	2.499355	1.224349	4.959102
#3	.2543700	2.519269	25.17859	1.020169	2.495376	1.225445	4.939998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.502338	24.98032	2.500386	1.239505	24.12715	2.503187	2.520400
Stddev	.007637	.02795	.006697	.002116	.07326	.009959	.010651
%RSD	.3051817	.1118901	.2678373	.1707435	.3036553	.3978340	.4225947
#1	2.495409	24.95038	2.508092	1.241835	24.12333	2.502777	2.513778
#2	2.510526	25.00572	2.495969	1.238979	24.05587	2.513344	2.514735
#3	2.501079	24.98487	2.497098	1.237702	24.20224	2.493439	2.532686

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.73501	5.037136	4.961257	5.059260	4.963341	4.898071	5.134034
Stddev	.09543	.013096	.007553	.015069	.005506	.030708	.020940
%RSD	.4020720	.2599957	.1522429	.2978554	.1109254	.6269396	.4078611
#1	23.66507	5.041922	4.964399	5.075956	4.959879	4.865136	5.158166
#2	23.69622	5.047166	4.952641	5.046667	4.960455	4.903161	5.120659
#3	23.84373	5.022320	4.966733	5.055158	4.969690	4.925916	5.123277

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV03 Acquired: 12/5/2024 16:42:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	4.964264	4.758960	5.069287
Stddev	.006966	.018702	.007489
%RSD	.1403147	.3929821	.1477346
#1	4.967398	4.744162	5.061484
#2	4.956282	4.752739	5.076417
#3	4.969112	4.779980	5.069961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2144.590	53153.72	13637.51	1409.998	3484.882
Stddev	7.983	40.94	42.52	7.826	6.374
%RSD	.3722506	.0770130	.3117750	.5550677	.1829053
#1	2153.805	53117.68	13607.08	1412.220	3491.254
#2	2139.764	53198.23	13619.35	1416.472	3478.506
#3	2140.201	53145.25	13686.09	1401.300	3484.885

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB03 Acquired: 12/5/2024 16:46:49 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0006569	.0013591	.0001370	.0007864	.0002738	-.001663	-.001924
Stddev	.0008245	.0002544	.0007149	.0005752	.0007330	.002956	.000163
%RSD	125.5126	18.71956	521.6561	73.13824	267.6942	177.7799	8.492486
#1	.0001522	.0012431	-.000592	.0001347	.0009718	-.000379	-.002110
#2	.0016083	.0016509	.000166	.0012230	.0003394	-.005043	-.001805
#3	.0002102	.0011834	.000837	.0010017	-.000490	.000434	-.001856

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000643	.0000770	-.013637	.0000843	.0002085	.0000360	-.002742
Stddev	.0000490	.0000474	.002526	.0001506	.0001157	.0001998	.001440
%RSD	76.19030	61.49109	18.52608	178.7339	55.52337	554.5839	52.49443
#1	.0001207	.0000346	-.013268	.0000452	.0001242	.0001312	-.003907
#2	.0000391	.0001281	-.016327	-.000043	.0001608	-.000194	-.001133
#3	.0000330	.0000684	-.011315	.000251	.0003405	.000170	-.003188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000309	-.002514	-.000357	.0005478	-.005142	.0004908	-.000414
Stddev	.0000681	.003699	.000405	.0003078	.011030	.0008696	.000312
%RSD	220.2619	147.1406	113.5095	56.18303	214.5199	177.1796	75.37790
#1	.0000662	-.006125	-.000080	.0005562	-.016842	.0012732	-.000654
#2	-.000048	.001267	-.000821	.0008513	-.003649	-.000446	-.000061
#3	.000074	-.002684	-.000169	.0002359	.005066	.000645	-.000526

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.031280	-.002390	.0002806	-.001003	-.000427	.0020175	-.003375
Stddev	.010176	.000245	.0001268	.000205	.000235	.0021360	.000653
%RSD	32.53215	10.26490	45.19543	20.42171	54.98658	105.8751	19.33974
#1	-.034710	-.002338	.0003015	-.001034	-.000276	.0034683	-.003374
#2	-.039299	-.002657	.0003956	-.001191	-.000307	-.000435	-.004029
#3	-.019832	-.002174	.0001446	-.000784	-.000697	.003019	-.002723

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB03 Acquired: 12/5/2024 16:46:49 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000927	-.000238	-.000009
Stddev	.001903	.000071	.000009
%RSD	205.3774	29.95907	96.83959
#1	-.002881	-.000272	-.000014
#2	.000920	-.000156	.000001
#3	-.000819	-.000286	-.000015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2219.094	55744.33	14002.93	1458.028	3935.877
Stddev	21.223	83.77	36.42	9.751	20.996
%RSD	.9563960	.1502832	.2600884	.6687585	.5334546
#1	2197.486	55691.15	13960.96	1448.205	3913.820
#2	2219.885	55840.90	14021.67	1467.704	3938.190
#3	2239.911	55700.93	14026.16	1458.175	3955.621

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165371BL Acquired: 12/5/2024 16:51:09 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0000570	-.000398	.0004864	-.000461	-.002094	.0004316	-.001245
Stddev	.0008339	.001613	.0007396	.000625	.000714	.0025209	.000231
%RSD	1462.064	405.1638	152.0513	135.7454	34.08277	584.0381	18.57889
#1	.0009049	-.001693	.0008792	-.000318	-.002326	.0031410	-.001016
#2	-.000762	.001408	-.000367	-.001145	-.002664	-.001845	-.001478
#3	.000028	-.000909	.000947	.000081	-.001293	-.000002	-.001242

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000499	.0000310	-.007414	-.000023	.0001907	-.000396	-.001386
Stddev	.0000166	.0000680	.003862	.000412	.0000859	.000118	.005108
%RSD	33.36438	219.4509	52.09352	1775.129	45.01409	29.71780	368.5081
#1	.0000307	-.000040	-.003486	-.000499	.0002568	-.000477	-.003103
#2	.0000607	.000096	-.007548	.000198	.0000937	-.000261	-.005414
#3	.0000582	.000037	-.011207	.000231	.0002217	-.000452	.004359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000071	.0065035	-.000207	.0007478	-.010085	.0004026	-.000060
Stddev	.000179	.0014365	.000239	.0002944	.009967	.0010369	.000133
%RSD	252.7814	22.08759	115.3592	39.37699	98.82432	257.5108	220.5577
#1	.000006	.0050769	-.000089	.0010767	-.021282	-.000069	-.000169
#2	-.000276	.0079496	-.000050	.0006578	-.006790	-.000314	.000088
#3	.000057	.0064841	-.000483	.0005088	-.002184	.001592	-.000099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017960	-.004702	-.000347	-.000464	-.000263	-.000850	-.001746
Stddev	.009993	.000284	.000098	.000449	.000237	.003496	.001915
%RSD	55.64356	6.029382	28.25589	96.88116	89.91016	411.1302	109.6871
#1	-.018729	-.004487	-.000280	-.000208	-.000492	-.002885	-.000225
#2	-.027546	-.005024	-.000302	-.000983	-.000278	.003186	-.001116
#3	-.007604	-.004596	-.000460	-.000201	-.000020	-.002852	-.003896

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165371BL Acquired: 12/5/2024 16:51:09 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0019496	-.000639	-.000105
Stddev	.0031317	.000368	.000021
%RSD	160.6351	57.59077	19.70642
#1	.0027880	-.000479	-.000087
#2	-.001516	-.000379	-.000099
#3	.004577	-.001061	-.000128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.641	57795.07	14378.96	1533.869	4074.588
Stddev	8.444	12.06	16.61	9.292	14.177
%RSD	.3648052	.0208650	.1154958	.6058072	.3479472
#1	2306.610	57799.00	14359.96	1523.160	4063.266
#2	2313.869	57781.53	14390.71	1538.652	4070.009
#3	2323.445	57804.67	14386.21	1539.796	4090.489

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165344BL Acquired: 12/5/2024 16:55:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000150	.0007949	.0000446	.0002441	-.001909	.0003190	-.001089
Stddev	.001463	.0014523	.0003385	.0016125	.000468	.0024033	.000224
%RSD	977.6078	182.7008	758.4042	660.5118	24.49890	753.3989	20.58354
#1	-.001828	.0016375	-.000341	.0015523	-.001460	-.000611	-.001290
#2	.000528	-.000882	.000184	.0007375	-.002393	.003048	-.000847
#3	.000851	.001629	.000291	-.001557	-.001875	-.001480	-.001129

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000169	-.000012	-.015153	-.000145	.0000165	-.000566	-.000071
Stddev	.0000326	.000033	.003208	.000286	.0001428	.000245	.003066
%RSD	192.8674	267.7693	21.17287	197.2450	864.6017	43.22849	4310.992
#1	.0000422	.000024	-.018693	-.000474	.0001732	-.000557	.002422
#2	.0000285	-.000041	-.012437	-.000003	-.000017	-.000326	.000860
#3	-.000020	-.000020	-.014328	.000042	-.000106	-.000815	-.003495

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000066	-.006151	-.000091	.0007349	-.018706	.0001606	-.000463
Stddev	.0001845	.006440	.000273	.0000958	.010502	.0010320	.000126
%RSD	2800.508	104.6983	300.1145	13.03025	56.14429	642.7439	27.23220
#1	.0000889	-.011121	-.000271	.0008161	-.029394	-.000469	-.000410
#2	-.000205	-.008456	-.000225	.0007592	-.018323	-.000401	-.000607
#3	.000136	.001124	.000223	.0006293	-.008400	.001352	-.000372

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.031055	-.005558	-.000361	-.000924	-.000517	-.000676	-.004188
Stddev	.013186	.000339	.000209	.000493	.000263	.002723	.001614
%RSD	42.45999	6.099784	57.95294	53.31951	50.85240	402.7940	38.53063
#1	-.030690	-.005487	-.000120	-.000361	-.000450	-.000516	-.003015
#2	-.018056	-.005927	-.000466	-.001276	-.000806	-.003475	-.006029
#3	-.044421	-.005261	-.000498	-.001136	-.000293	.001963	-.003521

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165344BL Acquired: 12/5/2024 16:55:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000273	-.000240	-.000094
Stddev	.003877	.000080	.000006
%RSD	1422.635	33.26875	6.652957
#1	.003084	-.000217	-.000089
#2	.000615	-.000174	-.000092
#3	-.004517	-.000328	-.000101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2325.530	57852.62	14181.40	1546.100	4095.245
Stddev	7.055	80.95	26.61	2.654	6.985
%RSD	.3033546	.1399308	.1876154	.1716747	.1705543
#1	2321.647	57763.54	14178.21	1543.739	4096.106
#2	2321.271	57872.63	14156.53	1548.973	4087.870
#3	2333.673	57921.70	14209.46	1545.588	4101.759

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165344BS Acquired: 12/5/2024 16:59:49 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7367634	2.047711	.9601040	1.863613	.7460138	1.904273
Stddev	.0022273	.011818	.0014637	.010633	.0030527	.013619
%RSD	.3023058	.5771106	.1524558	.5705827	.4092081	.7151633
#1	.7366456	2.045413	.9587627	1.863285	.7450695	1.899029
#2	.7345974	2.037211	.9598841	1.853147	.7435448	1.919734
#3	.7390473	2.060508	.9616653	1.874407	.7494271	1.894056

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1930115	.2057476	.1930712	1.011938	.3960557	.1947257
Stddev	.0008218	.0007616	.0004023	.005325	.0007359	.0002790
%RSD	.4257977	.3701563	.2083464	.5262185	.1857947	.1432942
#1	.1920848	.2049602	.1926983	1.011762	.3967206	.1945011
#2	.1932978	.2064804	.1930179	1.006703	.3952651	.1946380
#3	.1936519	.2058023	.1934975	1.017349	.3961814	.1950381

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2947405	2.852343	.2042096	1.937696	.4876484	.0715882
Stddev	.0018208	.013266	.0015860	.015523	.0006872	.0003159
%RSD	.6177686	.4651084	.7766725	.8011249	.1409291	.4412659
#1	.2949913	2.838513	.2024561	1.953160	.4869145	.0714883
#2	.2928072	2.853551	.2046288	1.922114	.4877539	.0713344
#3	.2964229	2.864963	.2055440	1.937815	.4882767	.0719420

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.710793	.2989526	.2000935	8.810181	.2910469	.3948063
Stddev	.013482	.0009901	.0002895	.053758	.0004366	.0019224
%RSD	.4973527	.3311755	.1446900	.6101776	.1500084	.4869184
#1	2.707170	.2979286	.2000708	8.779598	.2910571	.3943067
#2	2.725717	.2990244	.2003937	8.872253	.2906054	.3931831
#3	2.699493	.2999049	.1998161	8.778692	.2914784	.3969292

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165344BS Acquired: 12/5/2024 16:59:49 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6779068	.1958612	F .6674668	5.600942	F -.011661	.1972205
Stddev	.0030756	.0006050	.0066915	.020687	.001147	.0010680
%RSD	.4536912	.3088846	1.002527	.3693403	9.840117	.5415393
#1	.6757318	.1954129	.6597500	5.603219	-.010337	.1960599
#2	.6765628	.1956213	.6709870	5.579211	-.012276	.1981619
#3	.6814256	.1965493	.6716635	5.620396	-.012370	.1974397

Elem	Sr4077
Units	ppm
Avg	.2063159
Stddev	.0003398
%RSD	.1647200
#1	.2059582
#2	.2063550
#3	.2066345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.001	57552.71	14016.20	1540.516	3948.198
Stddev	13.875	61.24	10.33	2.738	11.673
%RSD	.6014105	.1064032	.0737081	.1777049	.2956574
#1	2300.490	57598.65	14025.10	1537.714	3942.576
#2	2322.934	57576.30	14018.64	1540.649	3961.618
#3	2297.579	57483.19	14004.87	1543.185	3940.399

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LR1 Acquired: 12/5/2024 17:03:26 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0696195	.0833857	.0242036	-.273308	-.007306	F 2411.933
Stddev	.0140639	.0104717	.0087928	.012899	.006116	8.117
%RSD	20.20105	12.55809	36.32838	4.719444	83.71895	.3365532
#1	.0641142	.0800065	.0238690	-.270657	-.013303	2420.023
#2	.0856033	.0951297	.0155829	-.261940	-.007535	2403.789
#3	.0591412	.0750209	.0331589	-.287326	-.001078	2411.988

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0099599	.1864130	1686.602	-.000715	.0550999
Stddev	-----	.0000728	.0017738	12.935	.000516	.0002820
%RSD	-----	.7311337	.9515254	.7669095	72.19600	.5117106
#1	^ -----	.0100288	.1880136	1695.789	-.000849	.0554089
#2	^ -----	.0099672	.1845060	1692.208	-.001151	.0548565
#3	.0167233	.0098837	.1867194	1671.810	-.000145	.0550343

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.234813	974.6678	-.149653	1661.881	.0128303	-.085739
Stddev	.011057	11.4178	.002373	12.015	.0006927	.001869
%RSD	4.708655	1.171460	1.585640	.7229757	5.398688	2.180045
#1	-.240177	979.0957	-.152329	1674.750	.0120375	-.083880
#2	-.242164	983.2085	-.147807	1659.934	.0133183	-.085718
#3	-.222097	961.6992	-.148821	1650.957	.0131351	-.087618

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2012.601	.0916942	.1818596	F 1650.157	.2855359	-.009575
Stddev	4.195	.0023858	.0032550	4.007	.0137384	.001404
%RSD	.2084300	2.601883	1.789845	.2428074	4.811444	14.65990
#1	2017.351	.0943969	.1795724	1645.664	.2901601	-.009933
#2	2009.404	.0908052	.1804204	1653.360	.2963656	-.008027
#3	2011.049	.0898806	.1855862	1651.447	.2700820	-.010766

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LR1 Acquired: 12/5/2024 17:03:26 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0257104	-.033905	.1719041	.0757308	-.195906	-.270122
Stddev	.0043362	.000522	.0112656	.0090129	.014359	.002128
%RSD	16.86557	1.539667	6.553417	11.90118	7.329536	.7878111
#1	.0209521	-.033306	.1702240	.0858647	-.212154	-.272006
#2	.0294392	-.034262	.1615729	.0686121	-.184919	-.270547
#3	.0267398	-.034147	.1839154	.0727156	-.190646	-.267814

Elem	Sr4077
Units	ppm
Avg	-.962779
Stddev	.011420
%RSD	1.186117
#1	-.967306
#2	-.971241
#3	-.949790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1349.478	32963.67	10006.02	797.7804	1774.362
Stddev	9.412	60.74	7.49	5.3952	9.405
%RSD	.6974711	.1842704	.0748080	.6762803	.5300429
#1	1342.091	33033.69	9997.63	803.6893	1765.620
#2	1346.267	32925.11	10008.43	796.5357	1773.153
#3	1360.075	32932.21	10012.00	793.1164	1784.313

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LR2 Acquired: 12/5/2024 17:08:26 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0055224	-.031367	F 219.7245	.0009049	-.005190	.0466096
Stddev	.0019913	.000284	.5231	.0019433	.000784	.0071655
%RSD	36.05840	.9038166	.2380562	214.7424	15.10165	15.37337
#1	.0047717	-.031118	220.2740	-.000980	-.004293	.0545105
#2	.0077800	-.031308	219.2327	.002902	-.005744	.0447866
#3	.0040156	-.031675	219.6669	.000793	-.005532	.0405317

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	-.002723	-.005541	.3217433	.0089703	-.010163
Stddev	-----	.000049	.000127	.0071864	.0001701	.000125
%RSD	-----	1.780819	2.289192	2.233571	1.896309	1.231957
#1	^ -----	-.002688	-.005688	.3191385	.0087891	-.010274
#2	^ -----	-.002779	-.005464	.3298688	.0089954	-.010027
#3	^ -----	-.002703	-.005472	.3162225	.0091265	-.010187

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 294.2589	-.000304	40.68276	-.053252	F 44.31193	.0079987
Stddev	4.4900	.002684	.64451	.014353	.10354	.0003595
%RSD	1.525858	882.3343	1.584230	26.95237	.2336653	4.494814
#1	291.4141	-.003394	41.41905	-.051757	44.42855	.0083025
#2	299.4350	.001029	40.40839	-.039705	44.23081	.0076018
#3	291.9276	.001453	40.22083	-.068293	44.27643	.0080919

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6949822	-.017030	F 19.92922	.5533331	-.008094	-.006476
Stddev	.0366237	.000893	.12760	.0548708	.000548	.000228
%RSD	5.269730	5.243311	.6402464	9.916414	6.765528	3.514151
#1	.7308394	-.017012	20.07633	.6024593	-.008112	-.006314
#2	.6964698	-.016147	19.84853	.5634221	-.008633	-.006377
#3	.6576374	-.017933	19.86281	.4941179	-.007538	-.006736

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: LR2 Acquired: 12/5/2024 17:08:26 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.005790	-.047881	-.006179	3.563047	-.012892	.0020223
Stddev	.000464	.000962	.001278	.046315	.006083	.0005547
%RSD	8.021675	2.008362	20.68627	1.299859	47.18712	27.42832
#1	-.005764	-.047271	-.007203	3.524626	-.016452	.0020607
#2	-.006267	-.047383	-.004746	3.550040	-.016355	.0025567
#3	-.005339	-.048990	-.006588	3.614474	-.005868	.0014494

Elem	Sr4077
Units	ppm
Avg	.0020695
Stddev	.0000159
%RSD	.7704420
#1	.0020666
#2	.0020552
#3	.0020867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1645.059	50637.80	13704.32	1164.475	3316.308
Stddev	15.853	155.98	76.05	20.987	17.952
%RSD	.9636448	.3080242	.5549222	1.802281	.5413252
#1	1661.535	50492.27	13788.29	1140.644	3329.287
#2	1629.914	50618.68	13684.56	1180.204	3295.821
#3	1643.728	50802.46	13640.09	1172.575	3323.817

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5069-02 Acquired: 12/5/2024 17:12:33 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.006222	-.011164	.0062292	.0069841	-.002047	-.006694	.2676988
Stddev	.001666	.002385	.0035841	.0017304	.000142	.003027	.0003581
%RSD	26.77632	21.36309	57.53641	24.77554	6.912838	45.22494	.1337700
#1	-.004300	-.010296	.0090096	.0053536	-.001934	-.009751	.2672992
#2	-.007259	-.009334	.0074937	.0067992	-.002002	-.003697	.2679905
#3	-.007108	-.013861	.0021843	.0087995	-.002206	-.006633	.2678068

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000241	-.000308	43.03025	.0021149	-.000366	-.000012	.0693337
Stddev	.000100	.000135	.12312	.0002392	.000163	.002566	.0026807
%RSD	41.33176	43.88833	.2861178	11.31020	44.49455	21378.38	3.866313
#1	-.000352	-.000210	42.88812	.0022009	-.000190	.002625	.0666570
#2	-.000159	-.000252	43.09867	.0018446	-.000512	-.000161	.0720183
#3	-.000212	-.000463	43.10396	.0022992	-.000396	-.002500	.0693257

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3960424	64.78294	.0038282	.0001949	265.0895	.0011462	.0231202
Stddev	.0024040	.16033	.0004859	.0003722	3.6715	.0003942	.0002723
%RSD	.6070109	.2474834	12.69266	191.0168	1.384986	34.39412	1.177892
#1	.3933351	64.61842	.0043019	-.000234	261.5930	.0011550	.0234163
#2	.3979274	64.79169	.0038516	.000429	264.7615	.0015359	.0228804
#3	.3968647	64.93872	.0033310	.000390	268.9139	.0007476	.0230640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.402851	.0268406	.0022954	-.001307	-.000966	.2712383	.0033205
Stddev	.019715	.0008012	.0001728	.000880	.000312	.0104034	.0079881
%RSD	.8204850	2.985098	7.526383	67.32710	32.31904	3.835511	240.5694
#1	2.381613	.0261663	.0023946	-.000716	-.001298	.2657258	-.003895
#2	2.406372	.0277263	.0023958	-.000887	-.000923	.2832379	.001953
#3	2.420569	.0266293	.0020959	-.002318	-.000678	.2647512	.011904

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5069-02 Acquired: 12/5/2024 17:12:33 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	2.894067	-.006504	.3258788
Stddev	.011737	.000807	.0015336
%RSD	.4055577	12.40043	.4705960
#1	2.905118	-.007376	.3242707
#2	2.881747	-.006352	.3260406
#3	2.895336	-.005785	.3273251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1824.767	48627.28	13128.67	1250.230	3083.559
Stddev	20.736	260.64	59.56	17.203	16.946
%RSD	1.136386	.5359899	.4536699	1.375970	.5495681
#1	1848.518	48920.72	13191.77	1269.159	3103.125
#2	1810.262	48538.45	13120.81	1245.982	3073.552
#3	1815.521	48422.67	13073.42	1235.549	3074.000

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-04 Acquired: 12/5/2024 17:17:00 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.004954	-.012759	.0039823	.0062710	-.001846	.0628227	.3346321
Stddev	.000441	.001721	.0015295	.0012611	.000475	.0012369	.0012710
%RSD	8.895332	13.48767	38.40683	20.10919	25.71942	1.968960	.3798215
#1	-.005102	-.011380	.0055311	.0048623	-.001324	.0617439	.3332974
#2	-.004459	-.014688	.0039431	.0072945	-.001962	.0641728	.3347708
#3	-.005302	-.012210	.0024729	.0066562	-.002252	.0625513	.3358281

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000928	.0002501	31.15983	.0030837	.0075491	.0005026	.0285836
Stddev	.0000170	.0000280	.26738	.0003792	.0002511	.0002436	.0023381
%RSD	18.31090	11.18083	.8580877	12.29609	3.325895	48.47613	8.179870
#1	.0001125	.0002188	31.45758	.0035116	.0077242	.0003044	.0282308
#2	.0000834	.0002726	31.08167	.0027892	.0076615	.0004287	.0264420
#3	.0000826	.0002589	30.94025	.0029504	.0072614	.0007746	.0310781

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.303822	3.689541	.0069511	.0004000	326.8199	.0007571	.0433744
Stddev	.008228	.010328	.0003765	.0003499	3.5796	.0008948	.0007387
%RSD	.6310298	.2799345	5.416647	87.47101	1.095269	118.1875	1.703172
#1	1.312727	3.698083	.0073838	-.000004	324.8565	.0004287	.0433121
#2	1.302238	3.692478	.0066974	.000591	324.6517	.0017698	.0426688
#3	1.296502	3.678063	.0067723	.000613	330.9515	.0000729	.0441423

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000713	.0097764	-.000225	-.001066	-.000799	.7173080	.0058723
Stddev	.012206	.0001300	.000185	.000855	.000372	.0089938	.0022726
%RSD	1.219713	1.330008	82.02956	80.23338	46.61101	1.253830	38.69971
#1	.994003	.0096928	-.000437	-.000090	-.000477	.7159771	.0036041
#2	1.014802	.0097103	-.000097	-.001687	-.000712	.7090537	.0081492
#3	.993333	.0099262	-.000142	-.001421	-.001206	.7268931	.0058637

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-04 Acquired: 12/5/2024 17:17:00 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.5568227	-.006115	.1226337
Stddev	.0036117	.000197	.0004659
%RSD	.6486303	3.223244	.3799372
#1	.5609606	-.005890	.1221193
#2	.5552037	-.006260	.1227544
#3	.5543037	-.006194	.1230273

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1952.190	49735.66	13332.71	1322.302	3168.430
Stddev	16.955	212.92	14.26	14.425	24.722
%RSD	.8685067	.4281040	.1069449	1.090895	.7802546
#1	1933.533	49916.47	13319.95	1334.909	3141.787
#2	1966.658	49789.53	13348.10	1325.425	3190.627
#3	1956.378	49500.97	13330.08	1306.571	3172.876

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08 Acquired: 12/5/2024 17:21:28 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.009675	-.012094	.0009738	.0059656	-.002264	.0554361	.2128929
Stddev	.002411	.001624	.0001906	.0004880	.000936	.0014159	.0002253
%RSD	24.92256	13.42891	19.57610	8.180771	41.34682	2.554061	.1058233
#1	-.011036	-.010272	.0008659	.0054099	-.002753	.0555484	.2128006
#2	-.011098	-.013388	.0011939	.0063248	-.001184	.0567925	.2131497
#3	-.006891	-.012622	.0008615	.0061619	-.002853	.0539675	.2127284

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000146	-.000091	15.12626	.0016720	-.000270	.0015677	.0303189
Stddev	.0000151	.000041	.05514	.0004238	.000135	.0001370	.0038172
%RSD	103.4126	45.16188	.3645524	25.34397	49.85828	8.739061	12.59020
#1	.0000037	-.000132	15.18600	.0013062	-.000128	.0015988	.0346948
#2	.0000319	-.000050	15.11548	.0015735	-.000286	.0016866	.0276734
#3	.0000083	-.000091	15.07731	.0021364	-.000396	.0014179	.0285884

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2315991	2.690140	.0063985	.0003278	289.6927	.0007136	.0401971
Stddev	.0006113	.005966	.0002367	.0000975	2.1374	.0007467	.0002486
%RSD	.2639567	.2217892	3.698854	29.73293	.7378086	104.6379	.6185456
#1	.2317456	2.684991	.0061442	.0003812	287.5718	.0006636	.0404065
#2	.2321239	2.696679	.0064390	.0003869	289.6602	.0014839	.0399223
#3	.2309278	2.688750	.0066123	.0002153	291.8462	-.000007	.0402624

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8104813	.0079211	-.000013	.0004947	.0001908	.6481360	.0197610
Stddev	.0098085	.0004637	.000289	.0004855	.0002706	.0033409	.0014183
%RSD	1.210202	5.853914	2247.923	98.13222	141.8149	.5154677	7.177169
#1	.8029321	.0083735	.000031	.0005102	.0002108	.6464220	.0186043
#2	.8069441	.0079429	.000252	.0000017	-.000089	.6459999	.0213434
#3	.8215678	.0074469	-.000321	.0009723	.000451	.6519861	.0193355

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08 Acquired: 12/5/2024 17:21:28 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3695238	-.003286	.0873161
Stddev	.0024997	.000385	.0000731
%RSD	.6764607	11.72782	.0837620
#1	.3666393	-.002993	.0872691
#2	.3710567	-.003722	.0872788
#3	.3708754	-.003142	.0874003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1918.595	50268.26	13618.92	1313.678	3202.306
Stddev	45.114	145.54	48.61	6.962	43.885
%RSD	2.351413	.2895200	.3569034	.5299609	1.370426
#1	1947.534	50404.13	13578.35	1320.947	3234.141
#2	1866.613	50285.98	13605.62	1313.016	3152.244
#3	1941.638	50114.68	13672.79	1307.071	3220.532

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08DUP Acquired: 12/5/2024 17:25:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.009467	-.010257	-.000192	.0059987	-.001764	.0686988	.2170166
Stddev	.000827	.000651	.000254	.0016382	.000788	.0035769	.0003371
%RSD	8.732692	6.350799	132.1495	27.30934	44.69471	5.206649	.1553473
#1	-.009840	-.011007	.000006	.0043743	-.001920	.0648453	.2167952
#2	-.010041	-.009932	-.000104	.0059713	-.000909	.0693379	.2174046
#3	-.008519	-.009832	-.000479	.0076504	-.002463	.0719130	.2168499

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000116	-.000073	15.33490	.0019235	-.000111	.0016117	.0390437
Stddev	.0000608	.000036	.02362	.0002755	.000157	.0002551	.0056031
%RSD	522.1963	49.81776	.1540551	14.32399	141.3944	15.83090	14.35079
#1	-.000038	-.000074	15.34269	.0022406	.000070	.0013408	.0397352
#2	-.000007	-.000109	15.30836	.0017873	-.000203	.0016468	.0331270
#3	.000079	-.000036	15.35365	.0017427	-.000200	.0018475	.0442690

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2358570	2.722328	.0064204	.0003565	289.3391	.0005062	.0399931
Stddev	.0009561	.016254	.0002337	.0001657	1.6306	.0016249	.0005750
%RSD	.4053602	.5970463	3.640464	46.46688	.5635662	320.9701	1.437804
#1	.2348254	2.719784	.0061663	.0005312	287.9348	.0022892	.0403820
#2	.2360320	2.739704	.0066263	.0003367	291.1275	.0001208	.0402648
#3	.2367134	2.707497	.0064685	.0002017	288.9551	-.000891	.0393326

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8111522	.0073960	.0001141	-.000569	.0000708	.6402574	.0182130
Stddev	.0186116	.0001762	.0000842	.001083	.0002124	.0021941	.0017416
%RSD	2.294460	2.382228	73.78566	190.5114	299.9325	.3426927	9.562520
#1	.7942452	.0074705	.0002113	-.001770	-.000155	.6415042	.0194377
#2	.8081164	.0071947	.0000649	.000333	.000100	.6415441	.0162192
#3	.8310951	.0075226	.0000661	-.000269	.000267	.6377240	.0189821

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08DUP Acquired: 12/5/2024 17:25:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3742396	-.003171	.0876243
Stddev	.0018152	.000447	.0002483
%RSD	.4850408	14.09372	.2834105
#1	.3729658	-.002656	.0877546
#2	.3734350	-.003397	.0877803
#3	.3763181	-.003460	.0873379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1997.969	50531.58	13516.24	1345.375	3280.779
Stddev	39.860	181.60	25.53	6.798	41.319
%RSD	1.995018	.3593739	.1888862	.5052821	1.259420
#1	2029.697	50520.17	13487.65	1344.375	3312.065
#2	2010.981	50355.95	13524.30	1339.133	3296.332
#3	1953.229	50718.61	13536.77	1352.618	3233.941

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08LX5 Acquired: 12/5/2024 17:30:21 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001731	-.001917	.0002203	.0003256	-.002017	.0159975	.0432092
Stddev	.001968	.001598	.0003064	.0019043	.000910	.0020846	.0004855
%RSD	113.6736	83.35859	139.0771	584.7752	45.12163	13.03068	1.123649
#1	-.001739	-.000432	.0002621	-.001844	-.002245	.0183779	.0436266
#2	-.003696	-.001711	-.000105	.001100	-.001015	.0144977	.0433246
#3	.000241	-.003608	.000504	.001721	-.002792	.0151169	.0426763

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000277	-.000045	3.164560	-.000301	.0000917	-.000091	.0048519
Stddev	.0000350	.000036	.024910	.000046	.0000869	.000084	.0020443
%RSD	126.2675	79.36878	.7871646	15.17619	94.83386	92.43456	42.13498
#1	-.000010	-.000004	3.178617	-.000330	.0000525	-.000076	.0043290
#2	.000059	-.000063	3.179264	-.000326	.0001912	-.000181	.0071069
#3	.000034	-.000068	3.135798	-.000249	.0000312	-.000015	.0031198

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487854	.5699763	.0010947	.0005580	54.82322	.0000155	.0079754
Stddev	.0006099	.0028188	.0000761	.0003088	.31373	.0003056	.0001047
%RSD	1.250122	.4945483	6.947721	55.33571	.5722500	1965.395	1.313246
#1	.0493999	.5717561	.0011765	.0003620	55.15475	.0000570	.0078921
#2	.0487761	.5714465	.0010814	.0009140	54.78392	-.000309	.0080930
#3	.0481803	.5667264	.0010261	.0003982	54.53100	.000298	.0079410

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4568261	-.005337	-.000124	-.000501	-.000218	.1261324	-.000408
Stddev	.0329355	.000095	.000221	.000457	.000161	.0031954	.001919
%RSD	7.209637	1.773648	178.0804	91.09907	73.93650	2.533339	470.2045
#1	.4192360	-.005294	-.000324	-.000136	-.000219	.1246896	.000487
#2	.4706221	-.005272	-.000162	-.001013	-.000057	.1297947	.000899
#3	.4806201	-.005446	.000113	-.000355	-.000380	.1239129	-.002611

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08LX5 Acquired: 12/5/2024 17:30:21 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0759438	.0030133	.0180052
Stddev	.0006699	.0000858	.0001612
%RSD	.8820864	2.848458	.8955454
#1	.0756855	.0029566	.0179839
#2	.0754416	.0029712	.0181760
#3	.0767044	.0031120	.0178556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2135.553	54064.27	13618.32	1431.231	3575.683
Stddev	12.153	99.02	115.66	1.015	17.527
%RSD	.5690753	.1831470	.8493292	.0708947	.4901772
#1	2144.642	53956.75	13545.68	1430.332	3589.506
#2	2140.269	54151.71	13557.57	1431.029	3581.573
#3	2121.749	54084.36	13751.70	1432.331	3555.969

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV04 Acquired: 12/5/2024 17:41:58 Type: Unk
Method: NON EPA-6010-200.7(v2494) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.672608	5.023425	4.910017	4.700315	4.632202	9.350561
Stddev	.017917	.013630	.008561	.025503	.034348	.027781
%RSD	.3834541	.2713342	.1743500	.5425896	.7415106	.2971067
#1	4.652045	5.039100	4.919112	4.671772	4.593203	9.330109
#2	4.680913	5.016809	4.902116	4.708309	4.645452	9.339384
#3	4.684866	5.014364	4.908823	4.720863	4.657953	9.382190

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.342632	.2552479	2.480643	24.98219	.9965409	2.444730
Stddev	.031223	.0024474	.004649	.03415	.0053770	.003119
%RSD	.3341952	.9588462	.1873929	.1366978	.5395642	.1275975
#1	9.307237	.2580721	2.485429	25.01399	1.001951	2.448154
#2	9.366264	.2539264	2.480357	24.98648	.991197	2.443987
#3	9.354397	.2537454	2.476145	24.94609	.996475	2.442049

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.172455	4.759190	2.454072	24.28599	2.446387	1.199709
Stddev	.006934	.034836	.000716	.03805	.001084	.001984
%RSD	.5914370	.7319651	.0291622	.1566835	.0443240	.1653712
#1	1.164780	4.719051	2.454341	24.26678	2.447012	1.201196
#2	1.174313	4.776983	2.453261	24.26138	2.447014	1.197456
#3	1.178270	4.781535	2.454614	24.32982	2.445135	1.200475

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.57557	2.435069	2.380527	26.06706	4.979310	4.789261
Stddev	.08629	.005826	.004301	.13929	.030082	.016884
%RSD	.3374113	.2392442	.1806724	.5343495	.6041428	.3525308
#1	25.66785	2.441564	2.375708	25.92908	5.013825	4.770122
#2	25.49688	2.430305	2.381894	26.06447	4.965443	4.795618
#3	25.56198	2.433338	2.383977	26.20762	4.958663	4.802044

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV04 Acquired: 12/5/2024 17:41:58 Type: Unk
Method: NON EPA-6010-200.7(v2494) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.957205	4.789249	4.605491	4.962605	4.820690	F 4.429488
Stddev	.007154	.007290	.040380	.013341	.009164	.014119
%RSD	.1443171	.1522086	.8767840	.2688363	.1901027	.3187514
#1	4.965435	4.788346	4.561512	4.960849	4.826206	4.423575
#2	4.953708	4.782452	4.614065	4.976737	4.825752	4.419288
#3	4.952472	4.796947	4.640895	4.950229	4.810111	4.445603

Elem	Sr4077
Units	ppm
Avg	4.866358
Stddev	.005230
%RSD	.1074651
#1	4.865239
#2	4.872056
#3	4.861778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2254.417	55693.51	13945.63	1512.774	3628.603
Stddev	18.793	101.85	42.34	8.767	17.851
%RSD	.8336199	.1828810	.3036317	.5795579	.4919416
#1	2276.117	55773.20	13897.47	1521.299	3648.611
#2	2243.487	55728.58	13977.03	1513.240	3614.311
#3	2243.647	55578.76	13962.38	1503.783	3622.886

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB04 Acquired: 12/5/2024 17:47:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0007021	-.000301	.0008442	-.001163	-.001179	-.001099	.0005775
Stddev	.0016446	.001503	.0003160	.000484	.000381	.000592	.0004026
%RSD	234.2499	499.3531	37.43001	41.62622	32.28044	53.90073	69.70978
#1	-.000776	-.000898	.0006889	-.001719	-.001577	-.000506	.0002832
#2	.002474	.001409	.0006359	-.000845	-.000819	-.001691	.0004130
#3	.000408	-.001414	.0012078	-.000923	-.001140	-.001099	.0010362

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000480	.0000786	-.008826	.0000524	.0001461	-.000973	-.002748
Stddev	.0000590	.0000264	.001080	.0000714	.0001089	.000144	.002099
%RSD	123.1162	33.63737	12.23454	136.2561	74.52547	14.75030	76.37911
#1	.0000871	.0000481	-.007908	.0000131	.0000456	-.000927	-.000845
#2	-.000020	.0000944	-.010016	.0001349	.0002617	-.001134	-.002400
#3	.000077	.0000934	-.008555	.0000093	.0001309	-.000858	-.004999

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000015	.0026778	-.000224	.0005621	.1703450	.0003562	-.000503
Stddev	.000074	.0114778	.000229	.0001673	.0141938	.0002048	.000227
%RSD	504.9737	428.6334	102.0459	29.75609	8.332397	57.49197	45.15620
#1	.000060	-.008704	-.000224	.0003719	.1539683	.0005432	-.000766
#2	-.000087	.014249	.000004	.0006281	.1779720	.0001374	-.000367
#3	-.000016	.002488	-.000454	.0006864	.1790948	.0003879	-.000377

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0990631	-.002649	-.000124	-.000771	-.000145	.0003505	-.005844
Stddev	.0125891	.000119	.000090	.000325	.000083	.0032157	.000749
%RSD	12.70815	4.508342	72.46821	42.18153	57.60529	917.4765	12.81491
#1	.0847123	-.002661	-.000070	-.001026	-.000208	.0025230	-.005025
#2	.1082450	-.002524	-.000074	-.000405	-.000050	.0018722	-.006016
#3	.1042320	-.002762	-.000228	-.000881	-.000175	-.003344	-.006493

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB04 Acquired: 12/5/2024 17:47:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001623	.0002600	-.000021
Stddev	.001890	.0002900	.000006
%RSD	116.4064	111.5672	26.20666
#1	-.003172	-.000074	-.000018
#2	.000482	.000449	-.000018
#3	-.002181	.000405	-.000028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2454.847	59722.25	14205.56	1641.436	4235.515
Stddev	6.075	105.95	3.24	5.272	4.633
%RSD	.2474573	.1774091	.0227729	.3212108	.1093767
#1	2455.567	59814.94	14202.06	1645.952	4237.025
#2	2448.444	59606.75	14208.44	1635.642	4230.315
#3	2460.529	59745.06	14206.17	1642.714	4239.204

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08MS Acquired: 12/5/2024 17:52:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7183932	1.672191	.8556133	1.773586	.7135712	1.838670	.3925150
Stddev	.0045166	.013007	.0027253	.019129	.0079375	.006347	.0017185
%RSD	.6287032	.7778210	.3185230	1.078533	1.112369	.3451860	.4378277
#1	.7150890	1.666682	.8563203	1.761574	.7068494	1.841373	.3934983
#2	.7165509	1.687045	.8579154	1.763540	.7115360	1.831419	.3905306
#3	.7235397	1.662845	.8526041	1.795645	.7223282	1.843218	.3935162

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1980464	.1864636	16.14971	.3851122	.1859060	.2578369	2.831259
Stddev	.0003688	.0003743	.04516	.0003989	.0005299	.0020950	.013605
%RSD	.1862171	.2007283	.2796449	.1035894	.2850328	.8125316	.4805456
#1	.1984358	.1866969	16.10308	.3846632	.1861910	.2563306	2.816480
#2	.1980009	.1866620	16.19324	.3852472	.1862325	.2569507	2.843263
#3	.1977024	.1860319	16.15282	.3854260	.1852947	.2602294	2.834035

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4233511	4.492895	.4627271	.0711754	265.6220	.2892154	.2299272
Stddev	.0021474	.010187	.0012999	.0002461	3.4376	.0015804	.0007841
%RSD	.5072477	.2267444	.2809246	.3458258	1.294155	.5464317	.3410255
#1	.4211041	4.487400	.4631663	.0713684	269.3803	.2874263	.2306848
#2	.4235665	4.486634	.4637506	.0708982	262.6369	.2897986	.2299779
#3	.4253827	4.504650	.4612645	.0712595	264.8487	.2904213	.2291190

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.841687	.2690458	.3809526	.6401665	.1884176	1.276479	5.708697
Stddev	.033728	.0010402	.0017698	.0007674	.0008796	.006501	.020655
%RSD	.3427073	.3866184	.4645866	.1198724	.4668520	.5092667	.3618196
#1	9.875828	.2695562	.3800913	.6403367	.1876874	1.269000	5.693802
#2	9.808387	.2697323	.3797781	.6408344	.1893942	1.279668	5.732276
#3	9.840846	.2678491	.3829882	.6393282	.1881713	1.280769	5.700012

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08MS Acquired: 12/5/2024 17:52:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3552051	.1806218	.2788198
Stddev	.0022315	.0016734	.0010118
%RSD	.6282220	.9264431	.3628909
#1	.3553248	.1825139	.2794277
#2	.3573744	.1793364	.2776517
#3	.3529163	.1800151	.2793799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2154.834	53696.52	13665.64	1452.222	3447.204
Stddev	33.045	47.79	13.45	2.610	32.799
%RSD	1.533525	.0889977	.0984129	.1797395	.9514690
#1	2169.104	53749.70	13662.88	1449.361	3462.644
#2	2178.346	53682.69	13680.26	1454.474	3469.434
#3	2117.052	53657.17	13653.79	1452.831	3409.535

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08MSD Acquired: 12/5/2024 17:56:24 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7333673	1.684135	.8576273	1.813538	.7309614	1.863903	.4034601
Stddev	.0057728	.005741	.0043012	.018638	.0077329	.003635	.0007721
%RSD	.7871694	.3408789	.5015176	1.027737	1.057913	.1950338	.1913754
#1	.7273437	1.689502	.8625294	1.794422	.7234928	1.862830	.4026630
#2	.7339068	1.684820	.8544855	1.814532	.7304572	1.867954	.4042045
#3	.7388515	1.678082	.8558671	1.831659	.7389341	1.860925	.4035130

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1948144	.1867376	16.00822	.3839581	.1865359	.2616237	2.869555
Stddev	.0007776	.0009211	.05064	.0006708	.0001850	.0020103	.002530
%RSD	.3991288	.4932812	.3163507	.1747033	.0991959	.7684080	.0881502
#1	.1940226	.1877315	15.97982	.3832614	.1865881	.2595787	2.866697
#2	.1948438	.1859126	15.97816	.3840133	.1866892	.2616949	2.871504
#3	.1955769	.1865688	16.06669	.3845995	.1863304	.2635975	2.870465

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4245826	4.467613	.4640909	.0717278	276.2898	.2899327	.2331731
Stddev	.0008854	.013535	.0017449	.0003289	1.2775	.0008646	.0007652
%RSD	.2085319	.3029672	.3759768	.4585626	.4623757	.2982103	.3281515
#1	.4245926	4.483219	.4661057	.0718342	274.9898	.2893003	.2324438
#2	.4254629	4.460559	.4630805	.0719903	277.5435	.2909179	.2331058
#3	.4236922	4.459062	.4630865	.0713589	276.3361	.2895798	.2339697

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.28037	.2679526	.3880663	.6418771	.1918460	1.300000	5.727484
Stddev	.06135	.0011307	.0018581	.0029001	.0008261	.002471	.020934
%RSD	.5967498	.4219743	.4788162	.4518138	.4305893	.1900747	.3655079
#1	10.35116	.2669703	.3861724	.6447842	.1909188	1.302148	5.737807
#2	10.24731	.2691886	.3881400	.6418630	.1921157	1.300551	5.741252
#3	10.24265	.2676989	.3898865	.6389841	.1925035	1.297300	5.703393

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08MSD Acquired: 12/5/2024 17:56:24 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3630934	.1884454	.2821102
Stddev	.0017681	.0010889	.0005527
%RSD	.4869438	.5778519	.1959064
#1	.3651345	.1874123	.2818028
#2	.3621130	.1895826	.2827482
#3	.3620328	.1883412	.2817795

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2106.512	52902.51	13641.87	1420.939	3402.209
Stddev	30.505	186.94	17.39	7.829	30.622
%RSD	1.448107	.3533664	.1274592	.5509425	.9000758
#1	2138.916	52711.76	13630.13	1411.906	3433.718
#2	2102.269	52910.37	13633.62	1425.165	3400.352
#3	2078.351	53085.39	13661.84	1425.747	3372.558

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08A Acquired: 12/5/2024 18:00:34 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7198363	1.690104	.8434058	1.789818	.7207450	1.824278	.3923071
Stddev	.0044155	.014829	.0013694	.006817	.0040120	.013994	.0031808
%RSD	.6134065	.8773855	.1623657	.3808734	.5566433	.7671233	.8107856
#1	.7147983	1.691951	.8421403	1.781989	.7180390	1.814094	.3896100
#2	.7230339	1.703923	.8432175	1.793029	.7253544	1.818506	.3914966
#3	.7216768	1.674439	.8448596	1.794437	.7188415	1.840236	.3958147

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1920383	.1834670	15.76944	.3774597	.1836566	.2568464	2.808419
Stddev	.0004013	.0001058	.04335	.0007373	.0001197	.0011626	.000434
%RSD	.2089557	.0576509	.2748768	.1953391	.0651828	.4526501	.0154560
#1	.1917794	.1833483	15.75207	.3782140	.1837875	.2555052	2.808349
#2	.1925005	.1835514	15.73748	.3774247	.1835528	.2574664	2.808024
#3	.1918350	.1835012	15.81878	.3767406	.1836294	.2575676	2.808884

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4133849	4.400057	.4559610	.0707115	272.6027	.2845592	.2307918
Stddev	.0008667	.014605	.0002673	.0002165	.9946	.0003151	.0007352
%RSD	.2096488	.3319354	.0586200	.3061524	.3648658	.1107423	.3185664
#1	.4132726	4.405438	.4557010	.0709071	272.3127	.2846576	.2300110
#2	.4125800	4.383525	.4559469	.0704789	271.7853	.2842066	.2308936
#3	.4143023	4.411209	.4562350	.0707484	273.7101	.2848133	.2314708

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.952544	.2608560	.3825364	.6347239	.1872390	1.277861	5.691659
Stddev	.079672	.0006294	.0014920	.0019543	.0005874	.009861	.023848
%RSD	.8005229	.2412838	.3900270	.3079036	.3137082	.7716615	.4189980
#1	9.893929	.2609608	.3809158	.6366840	.1868435	1.286628	5.670716
#2	9.920443	.2614264	.3838528	.6347126	.1869595	1.267185	5.717615
#3	10.04326	.2601807	.3828407	.6327753	.1879139	1.279770	5.686646

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-08A Acquired: 12/5/2024 18:00:34 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3475601	.1821475	.2770548
Stddev	.0069837	.0016130	.0014580
%RSD	2.009336	.8855296	.5262371
#1	.3397761	.1804720	.2758254
#2	.3532765	.1822806	.2766736
#3	.3496278	.1836897	.2786655

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2140.136	53775.38	13871.26	1427.426	3457.139
Stddev	14.071	110.00	28.46	10.417	15.568
%RSD	.6574944	.2045556	.2051995	.7297998	.4503110
#1	2155.303	53742.55	13886.64	1436.653	3471.167
#2	2137.599	53898.06	13888.73	1429.497	3459.860
#3	2127.506	53685.53	13838.42	1416.129	3440.390

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-01 Acquired: 12/5/2024 18:04:45 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000344	-.001342	.0051396	-.001103	-.002773	.0192742
Stddev	.001090	.000963	.0004452	.002158	.000475	.0015038
%RSD	317.0121	71.75557	8.662994	195.5869	17.13576	7.802005
#1	-.000721	-.001977	.0046298	-.000248	-.002953	.0179126
#2	.000885	-.001816	.0053364	-.003558	-.002235	.0190219
#3	-.001195	-.000234	.0054525	.000496	-.003133	.0208882

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292200	.0003386	.0000914	35.71275	.0066442	.0006522
Stddev	.0002168	.0000227	.0000801	.13926	.0001844	.0001120
%RSD	.1677772	6.694092	87.67420	.3899319	2.774798	17.16653
#1	.1292567	.0003592	.0001196	35.87155	.0064362	.0006659
#2	.1294161	.0003143	.0001536	35.61150	.0067090	.0005340
#3	.1289871	.0003422	.0000010	35.65518	.0067874	.0007567

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1948356	.2215235	.0722693	8.430531	.0061507	.0005590
Stddev	.0004760	.0024655	.0005470	.054821	.0001862	.0003531
%RSD	.2442995	1.112961	.7569172	.6502629	3.027104	63.16451
#1	.1949931	.2229269	.0728050	8.448044	.0063640	.0008892
#2	.1943009	.2229670	.0722913	8.369094	.0060670	.0001868
#3	.1952129	.2186768	.0717117	8.474456	.0060210	.0006010

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.13401	.0010452	.0346629	4.066788	.0255038	.0001789
Stddev	.17802	.0009776	.0000446	.017433	.0005486	.0002423
%RSD	.6110546	93.53459	.1285608	.4286573	2.150990	135.4705
#1	28.92923	.0012250	.0347014	4.046741	.0260905	.0001327
#2	29.25199	.0019203	.0346141	4.078384	.0254172	.0004409
#3	29.22080	-.000010	.0346733	4.075241	.0250036	-.000037

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-01 Acquired: 12/5/2024 18:04:45 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001967	-.000721	8.314634	.3486856	F 10.52950	-.001517
Stddev	.000853	.000162	.031160	.0023913	.05366	.000250
%RSD	43.36344	22.53556	.3747576	.6858100	.5096492	16.46471
#1	-.001818	-.000657	8.279419	.3471523	10.47699	-.001765
#2	-.001198	-.000906	8.325845	.3474634	10.52727	-.001520
#3	-.002884	-.000600	8.338636	.3514410	10.58425	-.001266

Elem	Sr4077
Units	ppm
Avg	.1933804
Stddev	.0004604
%RSD	.2380937
#1	.1929217
#2	.1938426
#3	.1933770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.832	57510.75	14355.06	1552.241	3896.313
Stddev	13.603	121.27	21.08	11.536	15.991
%RSD	.5873788	.2108572	.1468368	.7431545	.4104049
#1	2313.436	57645.07	14333.33	1553.087	3897.909
#2	2330.474	57477.86	14375.42	1563.330	3911.446
#3	2303.587	57409.33	14356.41	1540.306	3879.585

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02DUP Acquired: 12/5/2024 18:08:59 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.000498	-.000228	.0002476	-.000576	-.002462	.0725016
Stddev	.001831	.000736	.0005590	.001170	.000799	.0016096
%RSD	367.7730	322.2643	225.7404	203.1719	32.43434	2.220067
#1	-.001739	.000327	-.000324	-.001827	-.001541	.0735029
#2	-.001360	.000051	.000275	-.000393	-.002951	.0733569
#3	.001605	-.001063	.000793	.000492	-.002894	.0706449

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1409426	.0003407	.0001272	60.33837	.0077850	.0006847
Stddev	.0005770	.0000420	.0000980	.20801	.0000941	.0000154
%RSD	.4093944	12.34249	77.01048	.3447361	1.209178	2.253784
#1	.1404161	.0003600	.0002249	60.12516	.0077168	.0006997
#2	.1408522	.0002925	.0000289	60.54076	.0078924	.0006689
#3	.1415595	.0003696	.0001278	60.34918	.0077459	.0006855

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1552982	.2737164	.1046389	11.56815	.0068844	.0002422
Stddev	.0003800	.0055069	.0003476	.05027	.0001672	.0002547
%RSD	.2447097	2.011893	.3322027	.4345680	2.428539	105.1861
#1	.1555354	.2674927	.1045319	11.51160	.0069150	-.000034
#2	.1548599	.2779573	.1050275	11.60777	.0067040	.000467
#3	.1554993	.2756992	.1043575	11.58509	.0070341	.000293

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.46623	.0009016	.0485924	4.553756	.0291933	.0004816
Stddev	.10312	.0006827	.0001098	.019967	.0001619	.0001724
%RSD	.2991775	75.72106	.2258720	.4384787	.5544271	35.79965
#1	34.58524	.0005496	.0486027	4.574101	.0290079	.0003505
#2	34.40345	.0004667	.0484779	4.534189	.0292654	.0006769
#3	34.41001	.0016884	.0486967	4.552977	.0293065	.0004174

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02DUP Acquired: 12/5/2024 18:08:59 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001464	-.000602	9.141269	.4188047	F 11.96273	-.005116
Stddev	.001251	.000221	.021580	.0061741	.01642	.000035
%RSD	85.43919	36.76146	.2360732	1.474214	.1372398	.6873937
#1	-.001612	-.000842	9.150014	.4196679	11.95745	-.005080
#2	-.000146	-.000557	9.157104	.4122444	11.94961	-.005118
#3	-.002634	-.000407	9.116689	.4245017	11.98114	-.005150

Elem	Sr4077
Units	ppm
Avg	.3183350
Stddev	.0003483
%RSD	.1094228
#1	.3179329
#2	.3185266
#3	.3185454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2182.610	55087.43	13955.88	1480.234	3664.354
Stddev	9.849	18.48	21.14	4.418	18.206
%RSD	.4512653	.0335385	.1514977	.2984366	.4968310
#1	2185.244	55067.93	13977.18	1476.484	3678.860
#2	2190.874	55089.69	13934.90	1479.114	3670.279
#3	2171.711	55104.68	13955.56	1485.104	3643.924

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02 Acquired: 12/5/2024 18:13:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0008502	.0007576	.0007686	-.001151	-.003005	.0714916
Stddev	.0034051	.0004528	.0004754	.001415	.001042	.0031177
%RSD	400.5300	59.77059	61.85797	122.9404	34.67623	4.361007
#1	.0027401	.0002759	.0004223	-.001199	-.002285	.0726766
#2	.0028911	.0008222	.0013106	.000288	-.004200	.0679551
#3	-.003081	.0011746	.0005728	-.002541	-.002531	.0738430

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1410325	.0003897	.0001295	60.59816	.0081192	.0006943
Stddev	.0003216	.0000210	.0000625	.11871	.0003060	.0001264
%RSD	.2280185	5.381153	48.22234	.1959015	3.768727	18.20563
#1	.1409163	.0003787	.0001221	60.73213	.0084725	.0006263
#2	.1407851	.0003766	.0000711	60.55628	.0079362	.0008401
#3	.1413960	.0004139	.0001954	60.50606	.0079490	.0006164

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1554835	.2743792	.1050639	11.63923	.0069437	.0004527
Stddev	.0007989	.0018562	.0001635	.03578	.0003890	.0000364
%RSD	.5138316	.6764929	.1556337	.3073953	5.601790	8.046388
#1	.1545655	.2722488	.1049063	11.66358	.0067321	.0004130
#2	.1560218	.2756480	.1052328	11.65595	.0067064	.0004846
#3	.1558631	.2752407	.1050527	11.59815	.0073926	.0004605

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.69750	.0018965	.0496335	4.586425	.0288721	.0003438
Stddev	.13879	.0013185	.0002897	.021291	.0003994	.0003001
%RSD	.4000137	69.52284	.5836689	.4642272	1.383302	87.28076
#1	34.61511	.0024390	.0497429	4.588907	.0291359	-.000003
#2	34.85775	.0003933	.0493050	4.606367	.0284126	.000523
#3	34.61966	.0028573	.0498525	4.564001	.0290679	.000511

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02 Acquired: 12/5/2024 18:13:14 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.002042	-.000592	9.197973	.4177590	F 12.03891	-.005214
Stddev	.000128	.000237	.015205	.0037181	.05322	.000164
%RSD	6.249111	40.06059	.1653114	.8900068	.4421016	3.147919
#1	-.001987	-.000350	9.208993	.4149685	12.00239	-.005198
#2	-.001951	-.000824	9.204300	.4219799	12.09998	-.005385
#3	-.002188	-.000604	9.180626	.4163287	12.01435	-.005058

Elem	Sr4077
Units	ppm
Avg	.3194758
Stddev	.0007257
%RSD	.2271449
#1	.3186382
#2	.3199175
#3	.3198715

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2186.905	54490.63	13873.11	1447.759	3657.205
Stddev	7.325	101.34	18.23	6.418	10.635
%RSD	.3349626	.1859717	.1313747	.4432887	.2907932
#1	2194.956	54560.79	13890.41	1454.962	3666.495
#2	2180.633	54374.45	13874.85	1442.649	3645.605
#3	2185.126	54536.65	13854.08	1445.666	3659.514

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02LX5 Acquired: 12/5/2024 18:17:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0013267	.0001456	-.000402	.0001105	-.002605	.0116252	.0278836
Stddev	.0016794	.0005855	.000518	.0030977	.000718	.0018989	.0003066
%RSD	126.5870	402.1905	128.7603	2802.648	27.57796	16.33467	1.099496
#1	.0023118	-.000519	-.000710	-.002846	-.001817	.0100621	.0278320
#2	.0022807	.000587	.000196	-.000155	-.002774	.0137384	.0282127
#3	-.000612	.000368	-.000692	.003333	-.003223	.0110750	.0276061

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001596	.0000224	12.08197	.0014606	.0000867	.0288066	.0518983
Stddev	.0000487	.0000643	.05500	.0003752	.0000016	.0001461	.0021633
%RSD	30.50927	286.4386	.4552188	25.68892	1.876185	.5070270	4.168279
#1	.0001810	.0000875	12.03749	.0018065	.0000879	.0289307	.0500954
#2	.0001039	-.000041	12.14347	.0015136	.0000873	.0286456	.0542970
#3	.0001940	.000021	12.06495	.0010617	.0000848	.0288433	.0513026

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213976	2.277882	.0013366	.0004470	6.052435	.0002182	.0088422
Stddev	.0000914	.014700	.0001273	.0001060	.012715	.0004475	.0002076
%RSD	.4270475	.6453161	9.525833	23.71945	.2100851	205.0719	2.347707
#1	.0213479	2.263773	.0013689	.0005058	6.057190	.0004351	.0086229
#2	.0215030	2.293108	.0014447	.0003246	6.038028	.0005160	.0088681
#3	.0213418	2.276764	.0011963	.0005106	6.062088	-.000296	.0090357

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8836498	-.000549	-.000309	-.001388	-.000238	1.682694	.0762603
Stddev	.0089733	.000452	.000139	.000613	.000231	.010458	.0009898
%RSD	1.015484	82.46002	44.99822	44.16556	96.98033	.6215012	1.297976
#1	.8770456	-.000098	-.000237	-.000680	-.000184	1.673642	.0763840
#2	.8800376	-.001003	-.000470	-.001756	-.000491	1.680299	.0752144
#3	.8938663	-.000545	-.000222	-.001727	-.000039	1.694142	.0771824

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02LX5 Acquired: 12/5/2024 18:17:29 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	2.250546	.0000202	.0615613
Stddev	.005085	.0001392	.0001340
%RSD	.2259409	690.2792	.2176324
#1	2.253072	.0000437	.0615764
#2	2.253873	.0001461	.0614204
#3	2.244693	-.000129	.0616870

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2441.519	59366.92	14364.51	1627.178	4090.721
Stddev	2.489	59.69	33.43	4.909	3.653
%RSD	.1019540	.1005438	.2327378	.3016586	.0893054
#1	2442.370	59427.71	14348.65	1630.406	4088.894
#2	2438.715	59308.40	14341.97	1621.529	4088.341
#3	2443.470	59364.65	14402.92	1629.598	4094.927

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02MS Acquired: 12/5/2024 18:21:48 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7477347	1.956038	.9418309	1.844096	.7392482	1.969085
Stddev	.0035383	.031746	.0003536	.004980	.0016114	.008465
%RSD	.4732028	1.622958	.0375459	.2700529	.2179820	.4299114
#1	.7436693	1.990617	.9422382	1.849104	.7374024	1.962582
#2	.7494157	1.949282	.9416016	1.844040	.7403745	1.978656
#3	.7501192	1.928213	.9416531	1.839144	.7399678	1.966016

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3295078	.2182573	.1924206	62.52556	.3949043	.1933698
Stddev	.0004278	.0002139	.0001949	.26075	.0022464	.0003832
%RSD	.1298135	.0979865	.1012865	.4170288	.5688527	.1981501
#1	.3297745	.2183105	.1924067	62.82350	.3925221	.1930414
#2	.3290145	.2184396	.1922331	62.41420	.3952063	.1932773
#3	.3297346	.2180219	.1926221	62.33899	.3969844	.1937908

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4340961	3.049515	.3097494	13.70369	.4856223	.0739680
Stddev	.0005015	.013391	.0008599	.03301	.0011068	.0005445
%RSD	.1155253	.4391051	.2776261	.2409116	.2279092	.7362000
#1	.4341989	3.057233	.3106010	13.74053	.4857193	.0735672
#2	.4345382	3.034053	.3088814	13.67679	.4844702	.0745880
#3	.4335511	3.057259	.3097659	13.69376	.4866774	.0737488

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.66539	.2980036	.2484345	13.34696	.3259498	.3824439
Stddev	.10328	.0019452	.0022560	.04221	.0005505	.0006464
%RSD	.2895882	.6527594	.9080993	.3162492	.1688858	.1690285
#1	35.54644	.3001483	.2460785	13.29981	.3258313	.3816979
#2	35.73238	.2963532	.2486498	13.35982	.3265500	.3828411
#3	35.71734	.2975092	.2505751	13.38124	.3254683	.3827926

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02MS Acquired: 12/5/2024 18:21:48 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6738086	.1909294	9.639351	6.134663	F 12.03475	.1843317
Stddev	.0009996	.0000693	.020721	.030148	.01987	.0001928
%RSD	.1483439	.0363157	.2149632	.4914323	.1650789	.1045770
#1	.6727747	.1909246	9.622518	6.169467	12.05736	.1841884
#2	.6747698	.1910010	9.633042	6.117903	12.02684	.1845508
#3	.6738812	.1908626	9.662494	6.116619	12.02007	.1842557

Elem	Sr4077
Units	ppm
Avg	.5198394
Stddev	.0010869
%RSD	.2090752
#1	.5185988
#2	.5206239
#3	.5202955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2258.592	56338.56	13819.04	1522.863	3724.115
Stddev	8.782	154.84	12.01	7.817	17.077
%RSD	.3888055	.2748423	.0868812	.5133140	.4585492
#1	2268.690	56485.58	13809.14	1531.278	3742.751
#2	2252.752	56353.17	13832.39	1521.486	3720.375
#3	2254.333	56176.93	13815.58	1515.827	3709.217

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02MSD Acquired: 12/5/2024 18:25:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7301252	1.915995	.9184535	1.805932	.7242332	1.915250
Stddev	.0049884	.019253	.0003300	.008209	.0036059	.004080
%RSD	.6832263	1.004871	.0359271	.4545519	.4978963	.2130387
#1	.7253308	1.894948	.9181270	1.799784	.7201166	1.911001
#2	.7297575	1.920318	.9184467	1.802758	.7268330	1.915613
#3	.7352873	1.932720	.9187868	1.815254	.7257499	1.919137

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3200626	.2095873	.1878051	60.58027	.3857712	.1890333
Stddev	.0003527	.0006343	.0000466	.18741	.0005624	.0004300
%RSD	.1102048	.3026575	.0248275	.3093564	.1457971	.2274895
#1	.3197076	.2091733	.1878580	60.78662	.3851270	.1888151
#2	.3204129	.2103176	.1877703	60.53354	.3860225	.1895286
#3	.3200672	.2092711	.1877868	60.42064	.3861643	.1887561

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4251850	2.989530	.3004737	13.27706	.4742083	.0720468
Stddev	.0003732	.010775	.0011155	.03732	.0005255	.0002544
%RSD	.0877835	.3604099	.3712323	.2811233	.1108247	.3530702
#1	.4253634	2.996774	.3017176	13.28176	.4741412	.0720716
#2	.4247560	2.977148	.3001413	13.31182	.4737195	.0722878
#3	.4254355	2.994667	.2995623	13.23761	.4747641	.0717809

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.57771	.2889581	.2431873	13.17593	.3136800	.3750769
Stddev	.20547	.0007593	.0014673	.06839	.0014788	.0001251
%RSD	.5775111	.2627538	.6033708	.5190719	.4714267	.0333638
#1	35.34048	.2893062	.2415365	13.09974	.3125951	.3750958
#2	35.69879	.2894809	.2436823	13.23202	.3153644	.3749433
#3	35.69387	.2880872	.2443432	13.19602	.3130805	.3751914

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02MSD Acquired: 12/5/2024 18:25:47 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6586682	.1849444	9.482529	6.011267	F 11.82101	.1801721
Stddev	.0017215	.0005514	.011737	.032207	.03915	.0014392
%RSD	.2613595	.2981505	.1237740	.5357759	.3311942	.7987897
#1	.6569875	.1854610	9.478979	5.982452	11.77880	.1785133
#2	.6604278	.1850083	9.472977	6.005312	11.82811	.1810876
#3	.6585893	.1843638	9.495631	6.046035	11.85612	.1809155

Elem	Sr4077
Units	ppm
Avg	.5108794
Stddev	.0016173
%RSD	.3165783
#1	.5090375
#2	.5115336
#3	.5120671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2286.876	56912.57	14162.11	1526.222	3780.096
Stddev	8.383	111.68	7.18	10.385	11.242
%RSD	.3665759	.1962261	.0507183	.6804397	.2973957
#1	2294.213	56940.82	14170.11	1533.911	3790.517
#2	2288.676	57007.41	14160.02	1530.345	3781.588
#3	2277.739	56789.48	14156.21	1514.408	3768.182

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02A Acquired: 12/5/2024 18:29:46 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7545903	1.964925	.9497541	1.856978	.7450237	1.984575
Stddev	.0015984	.015454	.0037448	.001843	.0016481	.007608
%RSD	.2118213	.7864876	.3942953	.0992442	.2212121	.3833462
#1	.7534451	1.976538	.9531007	1.857248	.7438121	1.976672
#2	.7564164	1.970851	.9504525	1.858671	.7443586	1.985204
#3	.7539094	1.947385	.9457093	1.855015	.7469004	1.991849

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3289011	.2187342	.1938491	62.51856	.4006225	.1951655
Stddev	.0017931	.0007816	.0004302	.19710	.0006327	.0003423
%RSD	.5451650	.3573187	.2219436	.3152682	.1579222	.1753808
#1	.3268418	.2195893	.1943436	62.74544	.4005348	.1950056
#2	.3297454	.2185565	.1935611	62.38960	.4000382	.1949325
#3	.3301162	.2180567	.1936424	62.42063	.4012944	.1955585

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4366317	3.056653	.3091458	13.75458	.4884510	.0741066
Stddev	.0011728	.003857	.0006711	.03472	.0016544	.0000332
%RSD	.2685902	.1261918	.2170771	.2524474	.3386970	.0448554
#1	.4379399	3.052476	.3095552	13.79447	.4901823	.0740803
#2	.4362804	3.060081	.3083713	13.73816	.4868862	.0740956
#3	.4356748	3.057402	.3095109	13.73111	.4882845	.0741440

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.65100	.2986257	.2509653	13.56629	.3262372	.3852033
Stddev	.40589	.0021504	.0001564	.13985	.0008336	.0012751
%RSD	1.107458	.7200944	.0623121	1.030876	.2555127	.3310240
#1	36.18803	.2976181	.2510534	13.41121	.3253714	.3863805
#2	36.81926	.2971642	.2507847	13.60483	.3263057	.3853805
#3	36.94570	.3010949	.2510577	13.68284	.3270344	.3838488

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5044-02A Acquired: 12/5/2024 18:29:46 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6821092	.1913272	9.758382	6.212774	F 12.15736	.1861450
Stddev	.0013350	.0005077	.044391	.043600	.03785	.0019459
%RSD	.1957149	.2653809	.4549047	.7017878	.3113514	1.045362
#1	.6835542	.1919126	9.709639	6.262986	12.20106	.1839204
#2	.6818518	.1910636	9.769018	6.190846	12.13627	.1869840
#3	.6809217	.1910055	9.796489	6.184491	12.13476	.1875307

Elem	Sr4077
Units	ppm
Avg	.5277673
Stddev	.0010769
%RSD	.2040460
#1	.5265497
#2	.5281578
#3	.5285945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2246.690	55491.03	13726.30	1491.573	3698.379
Stddev	1.645	176.73	6.61	10.364	5.609
%RSD	.0732181	.3184837	.0481261	.6948484	.1516558
#1	2245.962	55678.95	13725.09	1501.224	3699.023
#2	2248.574	55465.95	13733.42	1492.876	3703.638
#3	2245.535	55328.17	13720.38	1480.619	3692.476

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV05 Acquired: 12/5/2024 18:39:30 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.579935	5.080113	4.998521	4.563631	4.503720	9.346701
Stddev	.003399	.017605	.003240	.005514	.003496	.006931
%RSD	.0742092	.3465567	.0648230	.1208209	.0776342	.0741571
#1	4.576166	5.061876	4.997926	4.562910	4.499771	9.352399
#2	4.580872	5.097011	4.995620	4.569470	4.506424	9.338985
#3	4.582767	5.081452	5.002018	4.558513	4.504964	9.348720

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.207206	.2656859	2.543861	25.46294	1.028639	2.486079
Stddev	.061791	.0018183	.001860	.02512	.005463	.001418
%RSD	.6711106	.6843718	.0730991	.0986689	.5311278	.0570359
#1	9.271497	.2652865	2.544921	25.47942	1.025155	2.485778
#2	9.148263	.2641005	2.541714	25.43402	1.025827	2.484834
#3	9.201860	.2676707	2.544948	25.47538	1.034936	2.487622

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.142020	4.768092	2.474791	24.76675	2.485066	1.210684
Stddev	.000906	.024566	.001994	.10441	.002782	.001524
%RSD	.0793119	.5152142	.0805782	.4215893	.1119656	.1258817
#1	1.142658	4.750068	2.473174	24.73842	2.484897	1.210512
#2	1.140984	4.796073	2.477019	24.67943	2.487928	1.209253
#3	1.142419	4.758134	2.474180	24.88241	2.482371	1.212286

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.79332	2.459978	2.392960	25.40742	5.070148	4.730023
Stddev	.14401	.001582	.010630	.13534	.023938	.001825
%RSD	.5808340	.0643276	.4442062	.5326762	.4721332	.0385908
#1	24.82734	2.459470	2.399154	25.31771	5.076649	4.729450
#2	24.91727	2.458712	2.399041	25.56309	5.043632	4.728553
#3	24.63534	2.461752	2.380686	25.34146	5.090165	4.732066

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV05 Acquired: 12/5/2024 18:39:30 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.073607	4.786637	4.611353	4.960150	4.881138	F 4.302249
Stddev	.010572	.008377	.038310	.016389	.001591	.013653
%RSD	.2083730	.1749996	.8307665	.3304049	.0325954	.3173357
#1	5.066729	4.776965	4.569008	4.941227	4.882219	4.299112
#2	5.068311	4.791478	4.643607	4.969724	4.879311	4.317197
#3	5.085780	4.791468	4.621443	4.969499	4.881884	4.290439

Elem	Sr4077
Units	ppm
Avg	4.863095
Stddev	.026051
%RSD	.5356811
#1	4.888030
#2	4.836056
#3	4.865199

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2388.621	56571.71	13983.29	1557.816	3748.810
Stddev	1.471	171.45	33.80	14.299	2.219
%RSD	.0615630	.3030673	.2417329	.9178787	.0591860
#1	2387.197	56573.44	13946.71	1550.919	3747.551
#2	2388.532	56399.40	14013.38	1548.274	3751.372
#3	2390.134	56742.29	13989.77	1574.256	3747.507

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB05 Acquired: 12/5/2024 18:43:20 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0017800	-.000065	.0003783	-.000660	.0025139	-.001884	.0023847
Stddev	.0005912	.001185	.0010401	.000549	.0015722	.000609	.0006560
%RSD	33.21121	1815.601	274.9494	83.19301	62.53818	32.33253	27.50718
#1	.0012293	-.000301	-.000335	-.000306	.0038859	-.001289	.0026393
#2	.0017059	.001220	-.000102	-.000382	.0007984	-.002507	.0016396
#3	.0024047	-.001115	.001572	-.001293	.0028576	-.001858	.0028752

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000880	.0000924	-.006706	.0001801	.0001740	-.000596	-.002861
Stddev	.0000282	.0001425	.005579	.0000774	.0000573	.000351	.003586
%RSD	32.08943	154.2333	83.19268	42.98698	32.95310	59.01034	125.3477
#1	.0000758	.0002527	-.008845	.0001350	.0001814	-.000995	-.002082
#2	.0001203	.0000447	-.010898	.0002696	.0002272	-.000458	.000272
#3	.0000679	-.000020	-.000374	.0001359	.0001133	-.000333	-.006772

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001909	.0015197	.0000388	.0005782	.1165378	.0006447	-.000574
Stddev	.0001041	.0113173	.0002407	.0002412	.0136303	.0012457	.000164
%RSD	54.52806	744.7137	620.4492	41.71638	11.69607	193.2220	28.61749
#1	.0003107	.0130096	-.000223	.0008041	.1033812	.0015449	-.000450
#2	.0001231	.0011660	.000088	.0006065	.1156354	-.000777	-.000760
#3	.0001388	-.009617	.000251	.0003242	.1305970	.001166	-.000512

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0904545	.0004327	.0005849	-.000881	-.000091	.0021268	-.006304
Stddev	.0188986	.0005472	.0002628	.000461	.000036	.0045654	.003499
%RSD	20.89289	126.4719	44.93011	52.38195	38.97446	214.6621	55.49868
#1	.0704989	.0010518	.0008811	-.000544	-.000132	.0067445	-.003304
#2	.0927848	.0002330	.0003796	-.001406	-.000073	.0020204	-.005462
#3	.1080799	.0000134	.0004940	-.000692	-.000069	-.002385	-.010147

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB05 Acquired: 12/5/2024 18:43:20 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0017417	.0007343	.0001977
Stddev	.0027594	.0006751	.0000284
%RSD	158.4296	91.94362	14.35888
#1	.0022650	.0014135	.0002083
#2	-.001242	.0007261	.0002192
#3	.004202	.0000633	.0001655

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.825	58407.35	13800.00	1610.261	4186.167
Stddev	2.044	148.44	18.09	6.529	4.835
%RSD	.0826731	.2541412	.1311015	.4054481	.1155070
#1	2469.498	58317.46	13784.20	1606.581	4183.621
#2	2472.653	58325.90	13819.74	1606.403	4191.743
#3	2473.325	58578.68	13796.06	1617.799	4183.137

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165365BL Acquired: 12/5/2024 19:04:11 Type: Unk
Method: NON EPA-6010-200.7(v2496) 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	-.000219	.0001911	.0001436	.0002440	-.002502	.0104688	.0024541
Stddev	.001350	.0013388	.0007962	.0009196	.000478	.0020160	.0001724
%RSD	615.8739	700.4798	554.3090	376.9209	19.11815	19.25748	7.024289
#1	.001034	.0014777	-.000065	.0012791	-.001950	.0087412	.0022570
#2	-.000043	.0002902	.001023	-.000069	-.002761	.0099812	.0025283
#3	-.001649	-.001195	-.000528	-.000479	-.002795	.0126839	.0025770

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000563	.0000447	-.009035	-.000020	.0000622	-.000929	-.000707
Stddev	.0000215	.0000664	.006260	.000139	.0001030	.000231	.003500
%RSD	38.26407	148.6645	69.28503	709.2308	165.6411	24.85188	495.3221
#1	.0000546	.0000777	-.012753	-.000178	.0001336	-.000685	.003041
#2	.0000786	-.000032	-.012543	.000082	-.000056	-.001143	-.003891
#3	.0000356	.000088	-.001808	.000038	.000109	-.000958	-.001270

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005029	-.000430	-.000263	.0002987	.1924619	-.000186	-.000778
Stddev	.0000977	.010280	.000089	.0001609	.0191326	.000439	.000087
%RSD	19.43569	2388.084	33.65466	53.87047	9.940952	235.7234	11.19056
#1	.0004177	.007321	-.000319	.0002461	.1715918	.000257	-.000795
#2	.0004812	.003478	-.000309	.0001706	.1966214	-.000621	-.000855
#3	.0006096	-.012091	-.000161	.0004793	.2091726	-.000195	-.000683

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0524327	-.006927	-.000381	-.000739	-.000252	-.003110	-.007014
Stddev	.0032437	.000095	.000064	.000495	.000061	.006056	.000866
%RSD	6.186478	1.366824	16.89718	66.98958	24.16306	194.7106	12.34667
#1	.0556981	-.006939	-.000345	-.000507	-.000190	-.009259	-.007515
#2	.0492111	-.006827	-.000455	-.000403	-.000312	-.002919	-.007512
#3	.0523888	-.007015	-.000342	-.001308	-.000253	.002848	-.006014

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165365BL Acquired: 12/5/2024 19:04:11 Type: Unk
Method: NON EPA-6010-200.7(v2496) 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	.0021619	-.000440	-.000140
Stddev	.0018010	.000101	.000026
%RSD	83.30532	23.04811	18.22604
#1	.0034808	-.000323	-.000163
#2	.0028949	-.000493	-.000113
#3	.0001100	-.000504	-.000145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2537.990	60376.65	14024.37	1682.361	4283.407
Stddev	6.398	61.09	27.22	6.359	5.542
%RSD	.2521047	.1011735	.1941083	.3779678	.1293748
#1	2530.606	60363.93	14002.10	1687.777	4277.607
#2	2541.480	60322.93	14016.29	1675.360	4283.966
#3	2541.885	60443.10	14054.71	1683.947	4288.648

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165365BS Acquired: 12/5/2024 19:08:38 Type: Unk
Method: NON EPA-6010-200.7(v2496) 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	.7200905	2.032966	1.001235	1.802143	.7161736	1.923873
Stddev	.0016252	.013163	.001254	.011879	.0039314	.004592
%RSD	.2256932	.6474534	.1252659	.6591805	.5489430	.2386926
#1	.7210054	2.019894	1.001444	1.795482	.7147819	1.922240
#2	.7182141	2.046217	.999889	1.795090	.7131274	1.929058
#3	.7210520	2.032788	1.002371	1.815859	.7206116	1.920320

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1923461	.1867442	.2043811	1.114596	.4274304	.2037047
Stddev	.0008338	.0002044	.0002690	.001909	.0011448	.0008434
%RSD	.4335083	.1094602	.1316070	.1712382	.2678332	.4140502
#1	.1927149	.1865496	.2040734	1.112570	.4265596	.2028120
#2	.1929320	.1867257	.2044982	1.116360	.4270044	.2038137
#3	.1913915	.1869572	.2045717	1.114858	.4287271	.2044883

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2890091	2.895221	.2168761	2.092488	.5105461	.0742244
Stddev	.0011584	.009914	.0011207	.014307	.0010408	.0004242
%RSD	.4008329	.3424197	.5167473	.6837354	.2038546	.5715448
#1	.2884105	2.895441	.2174151	2.098440	.5095014	.0741086
#2	.2882724	2.905023	.2176255	2.076165	.5105540	.0738702
#3	.2903443	2.885199	.2155877	2.102858	.5115829	.0746945

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.569795	.3136720	.2029607	9.807242	.3137381	.3906361
Stddev	.009675	.0014550	.0007522	.043109	.0006992	.0013564
%RSD	.3765041	.4638611	.3705886	.4395628	.2228720	.3472252
#1	2.559160	.3146280	.2036650	9.793593	.3141401	.3898616
#2	2.578076	.3143906	.2030487	9.855523	.3141434	.3898445
#3	2.572149	.3119976	.2021685	9.772609	.3129307	.3922023

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: PB165365BS Acquired: 12/5/2024 19:08:38 Type: Unk
Method: NON EPA-6010-200.7(v2496) 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	.7108778	.2005199	F .6549988	5.691010	F -.006498	.1852963
Stddev	.0025175	.0002348	.0049403	.011142	.001443	.0008379
%RSD	.3541417	.1170851	.7542528	.1957760	22.20631	.4522029
#1	.7082054	.2007249	.6520730	5.679554	-.008095	.1844801
#2	.7132047	.2005710	.6607028	5.701808	-.006109	.1861544
#3	.7112232	.2002637	.6522206	5.691668	-.005289	.1852545

Elem	Sr4077
Units	ppm
Avg	.2093805
Stddev	.0002783
%RSD	.1328998
#1	.2091080
#2	.2096642
#3	.2093693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2483.350	58365.03	13490.63	1621.768	4083.350
Stddev	6.404	133.94	55.73	8.839	4.322
%RSD	.2578775	.2294948	.4130768	.5450306	.1058429
#1	2483.247	58270.72	13440.44	1615.898	4081.222
#2	2489.805	58306.01	13480.85	1617.472	4088.323
#3	2476.998	58518.35	13550.60	1631.934	4080.505

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-01 Acquired: 12/5/2024 19:12:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001712	-.000569	.0008278	.0080139	-.001946	.0197639	.0018635
Stddev	.000877	.001305	.0006354	.0011172	.000502	.0013949	.0003518
%RSD	51.23953	229.5774	76.76192	13.94112	25.79444	7.057639	18.87638
#1	-.000907	-.001482	.0011261	.0088212	-.001403	.0183170	.0021956
#2	-.002647	-.001151	.0012591	.0084816	-.002393	.0211001	.0018999
#3	-.001582	.000927	.0000981	.0067388	-.002041	.0198745	.0014949

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000159	-.000034	.0437553	.0004912	-.000010	-.008454	.0120599
Stddev	.0000282	.000055	.0044955	.0001428	.000055	.000230	.0036041
%RSD	177.6088	165.0589	10.27421	29.07359	525.9281	2.716958	29.88509
#1	.0000219	-.000006	.0452620	.0004745	-.000047	-.008490	.0085477
#2	.0000406	-.000097	.0473040	.0006416	.000053	-.008208	.0157494
#3	-.000015	.000002	.0387000	.0003575	-.000037	-.008663	.0118826

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013146	.0144503	.0001048	.0004820	.0071783	.0011239	.0075785
Stddev	.0001150	.0053790	.0002553	.0002029	.0053559	.0008411	.0001295
%RSD	8.751032	37.22447	243.5375	42.09091	74.61313	74.83503	1.708666
#1	.0011973	.0119585	.0001247	.0004779	.0028974	.0015200	.0077262
#2	.0013194	.0206234	.0003497	.0002812	.0054533	.0001579	.0074847
#3	.0014272	.0107691	-.000160	.0006869	.0131842	.0016939	.0075245

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.061554	-.009772	-.000000	.0181473	.0014165	.0044545	.0134274
Stddev	.005269	.000620	.000181	.0009303	.0002806	.0014904	.0024829
%RSD	8.559179	6.349407	81956.53	5.126479	19.80745	33.45776	18.49121
#1	-.055535	-.009458	.000209	.0172814	.0017197	.0043920	.0106874
#2	-.063797	-.010486	-.000094	.0180297	.0013638	.0059752	.0155281
#3	-.065331	-.009371	-.000115	.0191308	.0011660	.0029964	.0140667

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-01 Acquired: 12/5/2024 19:12:54 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3448840	-.001312	-.000118
Stddev	.0033002	.000229	.000028
%RSD	.9568865	17.46617	23.61203
#1	.3426910	-.001212	-.000086
#2	.3486794	-.001149	-.000135
#3	.3432816	-.001574	-.000134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2503.911	60937.27	14455.42	1651.018	4391.290
Stddev	8.949	74.01	29.03	2.488	6.233
%RSD	.3573911	.1214483	.2008166	.1506871	.1419403
#1	2498.048	60898.81	14465.85	1652.743	4388.185
#2	2499.474	60890.42	14422.61	1648.166	4387.219
#3	2514.211	61022.59	14477.79	1652.144	4398.466

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-05 Acquired: 12/5/2024 19:17:17 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001711	-.000836	.0176254	.0000860	-.002493	.1708315	.5977440
Stddev	.001271	.000451	.0004251	.0022219	.000196	.0034552	.0027362
%RSD	74.28791	53.90501	2.412079	2585.026	7.865132	2.022598	.4577553
#1	-.002184	-.001075	.0171633	.0023921	-.002311	.1705194	.5971789
#2	-.000271	-.000316	.0177131	-.002041	-.002701	.1744322	.6007187
#3	-.002677	-.001116	.0179999	-.000093	-.002467	.1675429	.5953345

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000667	.0002747	1.470869	.0142309	.0004308	.0255940	4.724179
Stddev	.0000344	.0000510	.008873	.0006260	.0000433	.0001813	.006285
%RSD	51.53075	18.55655	.6032307	4.399058	10.06080	.7082000	.1330299
#1	.0000543	.0003012	1.472189	.0137278	.0004392	.0253918	4.719777
#2	.0001055	.0003071	1.479007	.0140329	.0004693	.0257420	4.731376
#3	.0000402	.0002160	1.461410	.0149320	.0003838	.0256480	4.721383

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0429268	.1328629	.0054956	.0006047	-.004058	.0014524	.0938940
Stddev	.0001286	.0079948	.0002178	.0002028	.002868	.0007773	.0003570
%RSD	.2996637	6.017357	3.962281	33.53990	70.66541	53.52042	.3801800
#1	.0429762	.1343269	.0056896	.0008224	-.007364	.0016336	.0942940
#2	.0430234	.1400246	.0055371	.0004211	-.002246	.0021232	.0937803
#3	.0427808	.1242372	.0052600	.0005707	-.002564	.0006005	.0936078

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.029399	-.006006	.0026123	.0147476	.0135121	.1336100	.0356266
Stddev	.012117	.000523	.0001553	.0004635	.0002123	.0033261	.0006825
%RSD	41.21618	8.713281	5.945223	3.142802	1.571148	2.489442	1.915763
#1	-.015408	-.006086	.0027911	.0148340	.0136207	.1317904	.0350702
#2	-.036287	-.006484	.0025357	.0142471	.0132674	.1374490	.0363882
#3	-.036503	-.005447	.0025102	.0151619	.0136481	.1315906	.0354215

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-05 Acquired: 12/5/2024 19:17:17 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.2085296	-.001580	.0127620
Stddev	.0024572	.000351	.0000262
%RSD	1.178362	22.19220	.2050171
#1	.2105438	-.001349	.0127327
#2	.2092531	-.001983	.0127704
#3	.2057918	-.001407	.0127829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2423.440	59622.40	14229.13	1613.205	4190.953
Stddev	5.687	118.18	40.66	6.097	7.952
%RSD	.2346492	.1982146	.2857311	.3779267	.1897494
#1	2429.993	59712.27	14211.04	1614.896	4200.125
#2	2420.528	59488.53	14200.66	1606.441	4185.975
#3	2419.799	59666.39	14275.69	1618.277	4186.761

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-01 Acquired: 12/5/2024 19:21:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0842605	-.013639	.3052007	-.044557	-.005051	88.77197	1.213939
Stddev	.0046600	.001684	.0015990	.003018	.000670	1.03789	.013828
%RSD	5.530407	12.34906	.5239051	6.773714	13.27177	1.169167	1.139068
#1	.0789056	-.011699	.3038815	-.042834	-.005542	89.68558	1.223204
#2	.0864806	-.014486	.3047416	-.042794	-.005325	87.64345	1.198045
#3	.0873952	-.014732	.3069790	-.048042	-.004288	88.98690	1.220568

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123201	.0222108	79.80952	.2337625	.1317772	.2451853	205.2221
Stddev	.0000783	.0002495	1.26744	.0001457	.0005193	.0024544	.6596
%RSD	.6353770	1.123397	1.588085	.0623155	.3940536	1.001050	.3214109
#1	.0123868	.0219460	81.20848	.2336593	.1312483	.2423963	205.9601
#2	.0122339	.0222448	78.73775	.2339291	.1317971	.2461436	204.6900
#3	.0123395	.0224415	79.48235	.2336991	.1322862	.2470160	205.0161

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.006951	63.64585	.2644116	-.006645	10.71616	.3576039	.7648763
Stddev	.076943	.90062	.0013092	.000285	.05187	.0045868	.0010442
%RSD	1.536723	1.415056	.4951523	4.281745	.4840365	1.282651	.1365142
#1	5.088694	64.61686	.2630795	-.006323	10.65628	.3624478	.7637542
#2	4.935934	62.83789	.2644588	-.006750	10.74501	.3533268	.7658194
#3	4.996224	63.48279	.2656967	-.006863	10.74720	.3570371	.7650554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.47381	.1217057	.0088613	.0095855	4.746451	2.948368	8.007645
Stddev	.08877	.0013032	.0001320	.0012947	.061971	.018945	.061075
%RSD	.4558652	1.070784	1.489901	13.50638	1.305622	.6425420	.7627025
#1	19.38222	.1216093	.0090135	.0080914	4.804560	2.965925	7.938727
#2	19.47975	.1230544	.0087937	.0102889	4.681232	2.928289	8.029149
#3	19.55947	.1204533	.0087768	.0103762	4.753561	2.950891	8.055059

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-01 Acquired: 12/5/2024 19:21:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	2.551088	.2039439	-.007399
Stddev	.020930	.0019034	.001790
%RSD	.8204284	.9333140	24.19443
#1	2.535249	.2044582	-.005955
#2	2.543198	.2018361	-.009402
#3	2.574816	.2055373	-.006839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2709.657	67085.24	16904.38	1816.028	3446.211
Stddev	7.780	60.25	196.41	7.278	11.989
%RSD	.2871326	.0898126	1.161862	.4007752	.3478843
#1	2718.593	67128.69	16697.56	1817.098	3458.532
#2	2705.994	67016.46	17088.38	1808.274	3445.516
#3	2704.385	67110.56	16927.20	1822.711	3434.585

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05 Acquired: 12/5/2024 19:25:46 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0908767	-.013025	.3460792	-.060043	-.006369	108.7846	.9761601
Stddev	.0043292	.001899	.0004671	.002351	.000422	.1150	.0005818
%RSD	4.763875	14.57962	.1349812	3.915911	6.619065	.1057446	.0595973
#1	.0939559	-.015217	.3456899	-.059023	-.005981	108.6635	.9764089
#2	.0927476	-.011982	.3459505	-.062732	-.006309	108.8925	.9765761
#3	.0859267	-.011876	.3465972	-.058373	-.006818	108.7977	.9754953

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166805	.0284675	45.03761	.2979151	.1621959	.2067837	264.7074
Stddev	.0001487	.0005917	.24083	.0004625	.0006146	.0025940	2.5310
%RSD	.8912472	2.078445	.5347365	.1552550	.3789237	1.254463	.9561367
#1	.0165982	.0277890	45.25124	.2973835	.1615113	.2037889	267.5871
#2	.0165913	.0288765	44.77661	.2981367	.1623765	.2082350	262.8359
#3	.0168522	.0287370	45.08497	.2982252	.1627001	.2083273	263.6991

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.323238	84.98976	.3191220	-.008931	11.41350	.4135724	.8582324
Stddev	.041023	.31669	.0010678	.000108	.06065	.0020497	.0018465
%RSD	.5601737	.3726166	.3346082	1.210957	.5314298	.4955965	.2151562
#1	7.364495	85.25124	.3179284	-.009024	11.46291	.4137900	.8599182
#2	7.282453	84.63764	.3199864	-.008957	11.43179	.4114226	.8585201
#3	7.322765	85.08041	.3194513	-.008812	11.34581	.4155046	.8562589

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.87842	.1551887	.0022738	.0087829	6.066293	2.632825	9.133109
Stddev	.16858	.0040099	.0000606	.0017617	.018134	.020182	.083379
%RSD	.6514468	2.583871	2.663822	20.05844	.2989384	.7665507	.9129275
#1	26.05113	.1598180	.0022319	.0073650	6.084659	2.650903	9.089819
#2	25.86983	.1529485	.0023432	.0107551	6.048399	2.636522	9.080281
#3	25.71429	.1527994	.0022462	.0082287	6.065820	2.611050	9.229229

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05 Acquired: 12/5/2024 19:25:46 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3989195	.2417808	-.052221
Stddev	.0025720	.0009828	.003271
%RSD	.6447465	.4064912	6.264225
#1	.3967905	.2415576	-.055931
#2	.4017773	.2428560	-.049753
#3	.3981908	.2409288	-.050978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.965	67603.29	16943.19	1854.094	3406.908
Stddev	9.224	240.69	37.08	12.286	4.306
%RSD	.3306194	.3560398	.2188704	.6626602	.1263936
#1	2789.338	67326.59	16943.45	1839.907	3409.232
#2	2781.071	67764.20	16980.14	1861.215	3401.939
#3	2799.487	67719.09	16905.98	1861.160	3409.552

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05DUP Acquired: 12/5/2024 19:29:51 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0899319	-.011929	.3397839	-.057779	-.005222	104.2341	1.117522
Stddev	.0039057	.004079	.0013813	.002262	.002442	2.2420	.024760
%RSD	4.342981	34.19247	.4065084	3.915234	46.76672	2.150898	2.215652
#1	.0858753	-.007517	.3387860	-.057824	-.007799	105.1059	1.126909
#2	.0936669	-.012709	.3392054	-.060018	-.002942	105.9092	1.136217
#3	.0902534	-.015562	.3413603	-.055495	-.004925	101.6872	1.089441

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176111	.0283713	37.41271	.2914024	.1648337	.1962735	257.2236
Stddev	.0002890	.0005021	.76878	.0009600	.0010005	.0019202	.9417
%RSD	1.641057	1.769800	2.054876	.3294468	.6069866	.9783478	.3661113
#1	.0175880	.0284281	37.63129	.2915197	.1647696	.1950591	257.6433
#2	.0179110	.0278432	38.04853	.2922984	.1638667	.1952740	257.8825
#3	.0173343	.0288426	36.55830	.2903892	.1658647	.1984873	256.1450

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.057097	81.86937	.3239236	-.009182	11.08379	.4215308	.8301437
Stddev	.203501	1.76942	.0011816	.000486	.08607	.0088603	.0010122
%RSD	2.246866	2.161268	.3647886	5.292567	.7765313	2.101936	.1219333
#1	9.110244	82.43202	.3252516	-.009225	11.17476	.4241616	.8313122
#2	9.228752	83.28904	.3229883	-.008676	11.07296	.4287778	.8295368
#3	8.832297	79.88704	.3235308	-.009645	11.00364	.4116530	.8295821

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.74101	.1443288	.0024247	.0074332	5.926427	3.452852	9.190395
Stddev	.12948	.0014825	.0002259	.0002623	.132212	.013706	.021073
%RSD	.5453765	1.027179	9.317106	3.528711	2.230881	.3969590	.2292898
#1	23.87224	.1439578	.0021678	.0075067	5.969490	3.462321	9.166210
#2	23.73744	.1430671	.0025143	.0071420	6.031738	3.459100	9.204804
#3	23.61336	.1459616	.0025921	.0076509	5.778053	3.437135	9.200172

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05DUP Acquired: 12/5/2024 19:29:51 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.3922531	.2217723	-.067572
Stddev	.0076560	.0045298	.003270
%RSD	1.951812	2.042562	4.839249
#1	.3870999	.2238794	-.065998
#2	.4010505	.2248648	-.065387
#3	.3886089	.2165728	-.071332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.555	71388.79	17340.91	1951.378	3564.311
Stddev	6.950	217.87	327.75	11.634	5.806
%RSD	.2354568	.3051855	1.890013	.5962012	.1629064
#1	2957.565	71138.52	17211.86	1938.447	3564.068
#2	2953.155	71536.09	17097.33	1960.998	3570.235
#3	2943.945	71491.75	17713.53	1954.689	3558.630

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05LX5 Acquired: 12/5/2024 19:33:55 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0212663	-.001130	.0706389	-.012692	-.004057	24.32498	.2420250
Stddev	.0019446	.002419	.0002705	.001293	.001124	.17714	.0025662
%RSD	9.143813	214.1776	.3828886	10.19058	27.69533	.7282424	1.060304
#1	.0209147	-.003468	.0704451	-.011824	-.003756	24.52938	.2449877
#2	.0233626	-.001283	.0705238	-.012074	-.003114	24.21610	.2405915
#3	.0195215	.001363	.0709479	-.014179	-.005300	24.22946	.2404958

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043114	.0022952	9.994737	.0722334	.0320499	.0502703	62.48854
Stddev	.0000220	.0000473	.084879	.0008462	.0000961	.0002881	.13255
%RSD	.5100551	2.062346	.8492332	1.171476	.2998491	.5730322	.2121256
#1	.0042870	.0022560	10.09274	.0713449	.0321248	.0499440	62.63782
#2	.0043176	.0023478	9.94655	.0723255	.0319416	.0504892	62.44319
#3	.0043297	.0022819	9.94492	.0730298	.0320834	.0503778	62.38462

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.986572	19.36098	.0636921	-.001757	2.466033	.1009056	.1998023
Stddev	.021325	.16707	.0002084	.000166	.013301	.0010162	.0003676
%RSD	1.073473	.8628987	.3271219	9.425332	.5393653	1.007106	.1839558
#1	2.011189	19.54734	.0638555	-.001678	2.468996	.1006755	.1997444
#2	1.974775	19.31096	.0634575	-.001947	2.451500	.1020171	.2001954
#3	1.973752	19.22463	.0637633	-.001645	2.477602	.1000241	.1994672

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.413271	.0291468	.0001429	-.000142	1.420634	.6979880	1.761255
Stddev	.012715	.0004439	.0002888	.000932	.010739	.0046058	.006140
%RSD	.2348831	1.523146	202.1650	654.6406	.7559267	.6598736	.3486211
#1	5.424321	.0286517	.0000436	-.001190	1.433031	.7011173	1.761918
#2	5.399374	.0295093	-.000083	.000169	1.414206	.6926992	1.754810
#3	5.416120	.0292795	.000468	.000594	1.414664	.7001474	1.767037

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05LX5 Acquired: 12/5/2024 19:33:55 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0702825	.0516258	-.015655
Stddev	.0016532	.0009143	.000135
%RSD	2.352192	1.771039	.8620089
#1	.0684552	.0526561	-.015504
#2	.0716744	.0509111	-.015764
#3	.0707178	.0513101	-.015696

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.500	62000.43	14753.70	1735.073	3992.256
Stddev	10.722	103.43	132.24	13.600	2.815
%RSD	.4078969	.1668182	.8963305	.7838014	.0705225
#1	2616.704	61905.00	14606.78	1729.321	3989.511
#2	2637.653	61985.96	14791.12	1725.295	3995.137
#3	2631.143	62110.34	14863.20	1750.604	3992.120

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05MS Acquired: 12/5/2024 19:38:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6477434	1.805406	1.235518	1.227137	.1962159	112.9466
Stddev	.0029940	.023518	.005918	.003709	.0003501	.3445
%RSD	.4622219	1.302623	.4790286	.3022127	.1784476	.3049723
#1	.6490158	1.831342	1.229991	1.230421	.1958365	112.5845
#2	.6498910	1.799404	1.234801	1.223115	.1962846	112.9854
#3	.6443233	1.785470	1.241763	1.227875	.1965266	113.2701

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.148485	.1866606	.2265115	37.88582	.5884263	.3642915
Stddev	.004204	.0004930	.0007736	.11669	.0023213	.0008299
%RSD	.3660606	.2641161	.3415243	.3080174	.3944876	.2278083
#1	1.144727	.1867834	.2258524	37.75227	.5858089	.3636615
#2	1.147701	.1870806	.2263188	37.93708	.5902354	.3639812
#3	1.153025	.1861178	.2273632	37.96812	.5892345	.3652318

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3890665	243.0134	7.227187	79.52201	.8146353	.0487252
Stddev	.0010260	1.2880	.030050	.29829	.0030978	.0004286
%RSD	.2637130	.5300145	.4157917	.3750976	.3802686	.8796578
#1	.3888576	241.6192	7.194644	79.19448	.8119800	.0484195
#2	.3881609	243.2621	7.233032	79.77806	.8138874	.0485410
#3	.3901808	244.1589	7.253885	79.59348	.8180386	.0492152

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.84969	.6154697	.9542697	29.33509	.3380247	.2613710
Stddev	.03143	.0047043	.0013382	.09296	.0016626	.0005715
%RSD	.2445890	.7643395	.1402301	.3168904	.4918421	.2186507
#1	12.81541	.6105899	.9546631	29.22788	.3361869	.2619603
#2	12.87714	.6158430	.9527790	29.39335	.3384629	.2608191
#3	12.85653	.6199762	.9553671	29.38403	.3394241	.2613335

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05MS Acquired: 12/5/2024 19:38:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6255063	5.928100	5.805859	F 15.47591	.3631391	.3747369
Stddev	.0042940	.023153	.028466	.09281	.0040239	.0006205
%RSD	.6864840	.3905680	.4902977	.5996989	1.108077	.1655872
#1	.6222996	5.905841	5.773373	15.58068	.3667414	.3740605
#2	.6238347	5.926406	5.826435	15.44301	.3638794	.3748702
#3	.6303848	5.952054	5.817771	15.40402	.3587965	.3752799

Elem	Sr4077
Units	ppm
Avg	.0978998
Stddev	.0004801
%RSD	.4904039
#1	.0981771
#2	.0981770
#3	.0973455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2927.622	71123.70	17300.20	1960.011	3524.419
Stddev	6.634	116.55	13.36	7.749	10.849
%RSD	.2266023	.1638681	.0772447	.3953635	.3078328
#1	2926.199	71229.84	17304.76	1963.378	3530.950
#2	2934.852	71142.29	17310.69	1965.507	3530.413
#3	2921.815	70998.98	17285.15	1951.148	3511.895

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05MSD Acquired: 12/5/2024 19:42:07 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6447612	1.780005	1.223946	1.215641	.1948726	112.2014
Stddev	.0047652	.013438	.003906	.001960	.0003783	.4691
%RSD	.7390592	.7549552	.3191010	.1612162	.1941436	.4181292
#1	.6393731	1.764881	1.219475	1.217047	.1949039	111.7261
#2	.6464896	1.790574	1.225675	1.216473	.1944796	112.2137
#3	.6484210	1.784560	1.226689	1.213402	.1952343	112.6642

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.144133	.1846495	.2240782	37.45592	.5852065	.3612189
Stddev	.005491	.0003069	.0005418	.10453	.0024999	.0007690
%RSD	.4799665	.1661779	.2417725	.2790850	.4271873	.2128998
#1	1.138864	.1843140	.2236119	37.40952	.5827862	.3606449
#2	1.149823	.1847183	.2239502	37.38262	.5877791	.3609191
#3	1.143712	.1849160	.2246725	37.57562	.5850541	.3620927

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3848388	243.0657	7.167662	78.50018	.8076685	.0486231
Stddev	.0006952	.1147	.014389	.34976	.0020058	.0005518
%RSD	.1806407	.0472053	.2007428	.4455472	.2483464	1.134898
#1	.3843032	243.0435	7.154579	78.32964	.8063033	.0479969
#2	.3845888	242.9638	7.165334	78.26841	.8067307	.0488344
#3	.3856244	243.1900	7.183072	78.90249	.8099714	.0490382

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.87444	.6090790	.9481166	29.31575	.3411683	.2590984
Stddev	.03213	.0030807	.0011167	.10404	.0011981	.0007909
%RSD	.2495823	.5058006	.1177854	.3549058	.3511696	.3052549
#1	12.83880	.6079225	.9469977	29.22616	.3400635	.2581858
#2	12.90121	.6067439	.9492312	29.42986	.3424418	.2595860
#3	12.88331	.6125706	.9481208	29.29124	.3409995	.2595233

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05MSD Acquired: 12/5/2024 19:42:07 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6219723	5.902174	6.544047	F 15.32230	.3639518	.3712882
Stddev	.0026392	.014501	.005068	.05412	.0011878	.0022767
%RSD	.4243217	.2456867	.0774438	.3532301	.3263591	.6131775
#1	.6191197	5.885921	6.539072	15.26001	.3653228	.3686643
#2	.6243272	5.906813	6.543866	15.34900	.3633001	.3727396
#3	.6224700	5.913788	6.549203	15.35788	.3632325	.3724608

Elem	Sr4077
Units	ppm
Avg	.0962846
Stddev	.0015708
%RSD	1.631371
#1	.0945838
#2	.0965892
#3	.0976807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2948.931	71509.24	17496.74	1966.321	3550.902
Stddev	7.296	39.74	16.88	4.709	9.381
%RSD	.2474138	.0555719	.0964753	.2395032	.2641819
#1	2953.061	71463.91	17499.83	1964.699	3558.479
#2	2953.226	71525.72	17511.86	1962.637	3553.818
#3	2940.507	71538.09	17478.53	1971.627	3540.410

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV06 Acquired: 12/5/2024 19:45:53 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.638514	5.084928	5.083204	4.606390	4.547783	9.230749
Stddev	.059949	.114414	.062981	.057291	.055247	.010272
%RSD	1.292418	2.250068	1.239010	1.243734	1.214815	.1112820
#1	4.569293	4.955021	5.010571	4.540274	4.484100	9.229506
#2	4.672604	5.170708	5.116344	4.641387	4.576368	9.221155
#3	4.673644	5.129054	5.122696	4.637510	4.582881	9.241586

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.072743	.2702678	2.592812	25.60628	1.025582	2.531093
Stddev	.036192	.0007434	.034648	.15028	.004268	.034309
%RSD	.3989127	.2750496	1.336291	.5868974	.4161461	1.355492
#1	9.071477	.2710298	2.552834	25.44327	1.030389	2.491556
#2	9.109552	.2702291	2.611460	25.63623	1.024122	2.548683
#3	9.037201	.2695446	2.614141	25.73933	1.022236	2.553039

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.156686	4.745484	2.489325	24.82368	2.532935	1.209062
Stddev	.013289	.045230	.015191	.12731	.033184	.000963
%RSD	1.148917	.9531144	.6102635	.5128742	1.310086	.0796423
#1	1.141348	4.697353	2.473468	24.68636	2.494632	1.209913
#2	1.163929	4.787107	2.503750	24.84687	2.551164	1.208017
#3	1.164780	4.751992	2.490757	24.93780	2.553009	1.209255

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.91442	2.458742	2.364704	24.77874	5.137301	4.788500
Stddev	.20319	.006655	.011835	.07301	.004918	.063132
%RSD	.8496571	.2706615	.5004938	.2946646	.0957289	1.318399
#1	24.14016	2.451062	2.362336	24.81827	5.142968	4.715620
#2	23.85692	2.462802	2.377544	24.82348	5.134788	4.823546
#3	23.74617	2.462363	2.354232	24.69449	5.134148	4.826335

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV06 Acquired: 12/5/2024 19:45:53 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.157720	4.766733	4.507106	5.059886	4.937639	F 4.221371
Stddev	.076096	.014618	.023798	.080267	.063679	.014896
%RSD	1.475377	.3066685	.5280037	1.586337	1.289658	.3528700
#1	5.069856	4.752830	4.480258	4.967253	4.864560	4.233002
#2	5.202275	4.781974	4.525602	5.103523	4.967133	4.226529
#3	5.201030	4.765394	4.515457	5.108881	4.981223	4.204581

Elem	Sr4077
Units	ppm
Avg	4.801900
Stddev	.013479
%RSD	.2807072
#1	4.787113
#2	4.813500
#3	4.805089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2403.743	58051.50	14122.65	1629.723	3765.283
Stddev	21.432	104.24	14.80	15.213	39.144
%RSD	.8916170	.1795671	.1048259	.9334844	1.039591
#1	2428.142	58051.51	14125.18	1636.947	3810.178
#2	2395.131	57947.25	14106.74	1612.243	3747.366
#3	2387.957	58155.73	14136.02	1639.978	3738.305

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB06 Acquired: 12/5/2024 19:50:23 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.0008288	.0006089	.0003593	-.000294	.0000565	.0087682	.0028683
Stddev	.0011127	.0012791	.0017389	.001044	.0006537	.0020400	.0004388
%RSD	134.2619	210.0824	483.9850	354.5005	1157.784	23.26560	15.29658
#1	-.000456	.0020817	-.001132	.000712	.0004367	.0101101	.0024287
#2	.001448	-.000224	.002269	-.000223	-.000698	.0064207	.0033062
#3	.001494	-.000031	-.000059	-.001372	.000431	.0097739	.0028701

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000916	.0000939	-.008332	.0000503	.0002727	-.001133	.0105886
Stddev	.0000194	.0000759	.003308	.0001108	.0000908	.000223	.0018038
%RSD	21.17636	80.76305	39.70157	219.9723	33.30976	19.70766	17.03503
#1	.0000944	.0000779	-.011996	.0001410	.0003720	-.000997	.0085649
#2	.0001095	.0001766	-.005565	.0000832	.0001939	-.001011	.0120271
#3	.0000710	.0000274	-.007435	-.000073	.0002521	-.001390	.0111738

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006231	.0089342	-.000147	.0003471	.0852690	.0009564	-.000396
Stddev	.0003717	.0058298	.000380	.0001702	.0187079	.0012407	.000070
%RSD	59.64552	65.25195	258.7174	49.04440	21.93988	129.7343	17.53565
#1	.0002142	.0047792	.000019	.0004211	.0657221	.0015258	-.000438
#2	.0007148	.0155985	.000122	.0001524	.0870786	.0018102	-.000316
#3	.0009404	.0064250	-.000581	.0004679	.1030064	-.000467	-.000435

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309376	-.003311	.0001889	-.000438	.0004190	.0013430	-.005561
Stddev	.0181251	.000543	.0003564	.000600	.0004089	.0032648	.002031
%RSD	58.58596	16.39694	188.6588	137.0241	97.58863	243.0905	36.51760
#1	.0150009	-.003547	.0003781	-.000986	-.000014	.0024986	-.005926
#2	.0271571	-.002690	.0004109	.000203	.000798	.0038730	-.003373
#3	.0506547	-.003696	-.000222	-.000530	.000473	-.002342	-.007385

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB06 Acquired: 12/5/2024 19:50:23 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001979	-.000142	.0002487
Stddev	.001285	.000237	.0000662
%RSD	64.93069	167.0256	26.64142
#1	-.002536	-.000269	.0001844
#2	-.002892	-.000288	.0003167
#3	-.000510	.000131	.0002449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2571.539	60253.13	13992.08	1693.048	4338.291
Stddev	10.043	40.29	18.94	8.953	10.186
%RSD	.3905317	.0668623	.1353357	.5288185	.2347860
#1	2567.412	60207.61	13985.21	1698.988	4335.784
#2	2582.988	60284.20	14013.49	1697.407	4349.496
#3	2564.218	60267.56	13977.53	1682.750	4329.593

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05A Acquired: 12/5/2024 19:54:43 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6506092	1.818525	1.247182	1.229964	.1980310	114.8654
Stddev	.0007321	.010800	.003511	.002744	.0016635	.8965
%RSD	.1125261	.5938603	.2815232	.2231011	.8400064	.7805202
#1	.6507861	1.822830	1.249726	1.232492	.1999420	115.8971
#2	.6498049	1.806237	1.248644	1.230355	.1969069	114.2757
#3	.6512367	1.826509	1.243176	1.227046	.1972443	114.4233

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.161455	.1910611	.2279024	38.99837	.5949606	.3673077
Stddev	.009038	.0017455	.0003053	.41125	.0017838	.0004739
%RSD	.7781683	.9135895	.1339511	1.054541	.2998133	.1290234
#1	1.171853	.1929365	.2282541	39.47283	.5938987	.3675699
#2	1.155480	.1894838	.2277467	38.77826	.5939630	.3667606
#3	1.157033	.1907630	.2277064	38.74401	.5970199	.3675925

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3868464	247.3370	7.407986	81.32135	.8212809	.0499450
Stddev	.0018849	.7279	.075527	.83792	.0015701	.0001754
%RSD	.4872563	.2943104	1.019532	1.030376	.1911798	.3510905
#1	.3851363	248.1705	7.494934	82.28887	.8227388	.0500532
#2	.3888675	246.8260	7.358645	80.83198	.8196186	.0500391
#3	.3865355	247.0146	7.370381	80.84321	.8214852	.0497427

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.76673	.6265382	.9615789	29.24635	.3466278	.2623824
Stddev	.01692	.0055293	.0032815	.01891	.0013529	.0000539
%RSD	.1325017	.8825205	.3412597	.0646485	.3903011	.0205231
#1	12.74753	.6320156	.9617438	29.24059	.3480182	.2623376
#2	12.77945	.6209583	.9647748	29.26747	.3453158	.2624422
#3	12.77320	.6266406	.9582181	29.23100	.3465494	.2623675

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5072-05A Acquired: 12/5/2024 19:54:43 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6313769	6.045283	6.148638	F 15.64763	.3654763	.3764382
Stddev	.0015828	.053273	.031934	.02904	.0033952	.0027372
%RSD	.2506914	.8812358	.5193660	.1855567	.9289716	.7271342
#1	.6327432	6.104964	6.127913	15.65970	.3621297	.3794692
#2	.6296424	6.002532	6.185414	15.61451	.3653812	.3741469
#3	.6317451	6.028352	6.132589	15.66868	.3689181	.3756983

Elem	Sr4077
Units	ppm
Avg	.1003294
Stddev	.0015414
%RSD	1.536311
#1	.1020752
#2	.0991566
#3	.0997563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2937.525	71029.37	17104.70	1963.923	3522.326
Stddev	5.113	140.73	185.01	9.007	3.403
%RSD	.1740715	.1981302	1.081611	.4586049	.0966153
#1	2941.094	70867.41	16892.15	1959.087	3519.802
#2	2931.667	71121.93	17229.58	1958.368	3526.196
#3	2939.814	71098.76	17192.36	1974.315	3520.979

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03 Acquired: 12/5/2024 19:58:41 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.005567	-.005362	.0144787	-.000299	.0007491	.3249651	.7142559
Stddev	.001024	.000666	.0013718	.001238	.0004223	.0053854	.0027847
%RSD	18.39806	12.41339	9.474598	414.6656	56.37677	1.657222	.3898793
#1	-.006328	-.004721	.0160025	.001023	.0011629	.3190078	.7139741
#2	-.004403	-.005315	.0140914	-.000488	.0007655	.3294881	.7171708
#3	-.005970	-.006050	.0133421	-.001432	.0003188	.3263994	.7116227

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000950	.0002185	2.870343	.0124476	.0044553	.0118830	16.30972
Stddev	.0000687	.0000182	.031368	.0000935	.0000985	.0008496	.14661
%RSD	72.27608	8.309910	1.092833	.7512987	2.211088	7.149669	.8989106
#1	.0000255	.0001977	2.837271	.0125054	.0044258	.0127651	16.19926
#2	.0001629	.0002268	2.874084	.0124976	.0043749	.0118138	16.25386
#3	.0000967	.0002310	2.899672	.0123397	.0045651	.0110702	16.47605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1662717	.4532942	.0083745	.0000702	7.085149	.0032977	.1546234
Stddev	.0018199	.0069990	.0004382	.0001712	.025111	.0011355	.0003916
%RSD	1.094547	1.544022	5.232760	243.8994	.3544163	34.43294	.2532278
#1	.1643486	.4459558	.0088726	.0002670	7.085450	.0020154	.1547602
#2	.1664994	.4598953	.0080484	-.000012	7.110108	.0037015	.1541819
#3	.1679670	.4540314	.0082024	-.000045	7.059889	.0041760	.1549283

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7378073	.0068410	.0061089	.0014449	.0230483	.5543432	.1413333
Stddev	.0085287	.0002301	.0000832	.0004136	.0005297	.0021040	.0029197
%RSD	1.155956	3.364149	1.362478	28.62778	2.298316	.3795541	2.065857
#1	.7472666	.0070478	.0061110	.0019085	.0227765	.5521464	.1437786
#2	.7307047	.0065931	.0060247	.0013124	.0227097	.5563403	.1421207
#3	.7354506	.0068822	.0061911	.0011137	.0236587	.5545429	.1381006

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03 Acquired: 12/5/2024 19:58:41 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	1.086198	-.000527	.0176489
Stddev	.008286	.000304	.0002338
%RSD	.7628099	57.64547	1.324600
#1	1.092962	-.000841	.0177408
#2	1.076956	-.000504	.0178228
#3	1.088675	-.000235	.0173832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.850	60339.48	14464.89	1636.066	4129.055
Stddev	18.408	35.73	31.01	1.483	31.442
%RSD	.7600802	.0592154	.2143846	.0906581	.7614819
#1	2400.596	60346.73	14495.68	1637.680	4092.803
#2	2432.270	60371.03	14465.31	1635.756	4148.903
#3	2432.685	60300.68	14433.67	1634.762	4145.459

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03DUP Acquired: 12/5/2024 20:02:58 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.004889	-.005342	.0151518	.0000555	-.000645	.3283338	.7242902
Stddev	.001958	.000327	.0006678	.0004540	.000372	.0087761	.0082042
%RSD	40.05845	6.115232	4.407515	817.7576	57.63823	2.672918	1.132723
#1	-.002762	-.005107	.0157609	-.000097	-.000769	.3233208	.7201229
#2	-.005287	-.005715	.0152567	.000566	-.000939	.3232132	.7190061
#3	-.006618	-.005204	.0144377	-.000302	-.000227	.3384674	.7337416

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000943	.0001132	2.980710	.0132384	.0044295	.0116333	17.10323
Stddev	.0000523	.0000309	.056284	.0002751	.0002086	.0002819	.11309
%RSD	55.45840	27.31615	1.888274	2.077943	4.709580	2.423096	.6612487
#1	.0000425	.0001488	2.931373	.0133996	.0046155	.0117474	16.97705
#2	.0001471	.0000926	2.968743	.0133950	.0044691	.0113123	17.13716
#3	.0000934	.0000983	3.042016	.0129208	.0042039	.0118403	17.19547

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1711576	.4717947	.0084576	.0001466	7.337527	.0033607	.1623094
Stddev	.0032796	.0134301	.0000402	.0001489	.032286	.0004497	.0006860
%RSD	1.916138	2.846597	.4756037	101.5451	.4400119	13.38242	.4226483
#1	.1679503	.4573844	.0084112	.0003172	7.374559	.0031620	.1630588
#2	.1710174	.4740378	.0084832	.0000796	7.322734	.0038755	.1617123
#3	.1745050	.4839621	.0084783	.0000431	7.315288	.0030445	.1621573

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7714522	.0070212	.0063270	.0011617	.0238031	.5821989	.1450203
Stddev	.0087000	.0002421	.0001858	.0001880	.0007134	.0053488	.0025597
%RSD	1.127739	3.447971	2.937044	16.18392	2.996982	.9187254	1.765033
#1	.7807481	.0067427	.0065205	.0011500	.0234640	.5803380	.1429007
#2	.7635059	.0071811	.0063104	.0009799	.0233224	.5780291	.1478640
#3	.7701027	.0071398	.0061500	.0013553	.0246227	.5882296	.1442961

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03DUP Acquired: 12/5/2024 20:02:58 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	1.102627	-.000582	.0176762
Stddev	.005717	.000541	.0003549
%RSD	.5185059	92.97892	2.007643
#1	1.096918	-.000628	.0174627
#2	1.102610	-.000019	.0174800
#3	1.108352	-.001098	.0180858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2406.275	58047.79	14129.09	1573.393	4085.190
Stddev	1.479	205.25	134.77	9.059	7.593
%RSD	.0614808	.3535872	.9538258	.5757643	.1858662
#1	2407.628	57841.34	14215.85	1563.129	4093.799
#2	2406.501	58050.21	14197.58	1576.773	4082.322
#3	2404.696	58251.82	13973.83	1580.275	4079.449

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03LX5 Acquired: 12/5/2024 20:07:15 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	-.001261	-.002819	.0040100	-.000846	-.002082	.0644710	.1418437
Stddev	.001542	.000273	.0011116	.000762	.000587	.0006463	.0004025
%RSD	122.3450	9.693621	27.72107	90.04589	28.17461	1.002459	.2837924
#1	-.000444	-.002504	.0052378	-.001686	-.001444	.0641183	.1422300
#2	-.000299	-.002993	.0037203	-.000201	-.002202	.0640778	.1414267
#3	-.003040	-.002959	.0030719	-.000650	-.002598	.0652169	.1418745

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000705	-.000059	.5823540	.0025312	.0009115	.0009928	3.309614
Stddev	.0000077	.000062	.0036924	.0001435	.0001558	.0002252	.014972
%RSD	10.96548	106.2117	.6340507	5.667595	17.09318	22.68643	.4523850
#1	.0000730	-.000076	.5794908	.0026504	.0010779	.0010800	3.293274
#2	.0000618	.000011	.5810497	.0023720	.0007690	.0007370	3.312893
#3	.0000766	-.000111	.5865216	.0025713	.0008876	.0011613	3.322675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0343748	.1006205	.0014235	.0000956	1.381270	.0009020	.0311657
Stddev	.0007620	.0074661	.0001182	.0000713	.017366	.0001634	.0004208
%RSD	2.216853	7.420009	8.304160	74.57620	1.257235	18.11483	1.350259
#1	.0345324	.0920241	.0015595	.0001778	1.363236	.0010379	.0315166
#2	.0350458	.1054832	.0013454	.0000580	1.382697	.0007207	.0312812
#3	.0335463	.1043542	.0013656	.0000509	1.397879	.0009472	.0306991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1467600	-.004949	.0007475	-.000205	.0043433	.1083477	.0234166
Stddev	.0239290	.000101	.0001491	.000254	.0003152	.0019962	.0006769
%RSD	16.30481	2.034605	19.94814	124.2788	7.256257	1.842401	2.890460
#1	.1217500	-.005055	.0009148	-.000493	.0040348	.1091234	.0226843
#2	.1490932	-.004936	.0006287	-.000012	.0043304	.1060801	.0240192
#3	.1694369	-.004855	.0006990	-.000109	.0046647	.1098397	.0235463

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03LX5 Acquired: 12/5/2024 20:07:15 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.2252172	-.000307	.0033865
Stddev	.0055905	.000456	.0000308
%RSD	2.482293	148.5134	.9089770
#1	.2294055	-.000793	.0033789
#2	.2188689	-.000238	.0033602
#3	.2273772	.000110	.0034203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2569.425	59663.71	14012.50	1647.372	4305.397
Stddev	24.666	70.61	60.71	4.931	41.850
%RSD	.9599845	.1183491	.4332667	.2992956	.9720364
#1	2541.048	59733.72	13945.68	1652.977	4257.192
#2	2581.497	59592.51	14027.54	1643.706	4326.565
#3	2585.729	59664.90	14064.27	1645.432	4332.434

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03MS Acquired: 12/5/2024 20:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.7041127	1.825039	.9189679	1.670693	.7050908	2.138758	.8926572
Stddev	.0139445	.050854	.0208369	.039446	.0182457	.007781	.0018801
%RSD	1.980442	2.786461	2.267425	2.361045	2.587709	.3638128	.2106140
#1	.7141300	1.868226	.9300106	1.696125	.7144795	2.129865	.8911889
#2	.7100214	1.837902	.9319593	1.690702	.7167303	2.144317	.8947762
#3	.6881866	1.768988	.8949338	1.625253	.6840626	2.142092	.8920067

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2143481	.1904142	4.000166	.4367008	.1998635	.2829914	17.91779
Stddev	.0013693	.0045073	.027294	.0010030	.0048802	.0069292	.07879
%RSD	.6388027	2.367075	.6823255	.2296780	2.441771	2.448559	.4397306
#1	.2132317	.1929654	3.968938	.4360425	.2028624	.2877073	17.82697
#2	.2158759	.1930671	4.019463	.4378551	.2024959	.2862312	17.96788
#3	.2139367	.1852100	4.012097	.4362046	.1942323	.2750358	17.95852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3632117	2.402934	.4918910	.0718261	9.988933	.3135410	.3377180
Stddev	.0021128	.022896	.0113353	.0004882	.024106	.0027454	.0013488
%RSD	.5816916	.9528267	2.304441	.6797231	.2413285	.8756175	.3993966
#1	.3608299	2.380211	.4985881	.0716430	9.992021	.3106149	.3377840
#2	.3648599	2.402592	.4982816	.0723794	9.963432	.3160603	.3363374
#3	.3639453	2.425998	.4788033	.0714559	10.01135	.3139478	.3390327

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.334698	.2831589	.4092665	.6599469	.2155623	1.077430	5.417165
Stddev	.024140	.0009404	.0096197	.0166308	.0010651	.005746	.169748
%RSD	.2586089	.3321189	2.350471	2.520025	.4940969	.5333303	3.133520
#1	9.308080	.2826641	.4144601	.6700153	.2143749	1.071006	5.526991
#2	9.340841	.2842434	.4151731	.6690744	.2164332	1.079202	5.502850
#3	9.355174	.2825692	.3981663	.6407509	.2158789	1.082081	5.221653

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03MS Acquired: 12/5/2024 20:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	1.017143	.1905785	.2303394
Stddev	.026102	.0006551	.0000392
%RSD	2.566235	.3437647	.0170098
#1	1.034659	.1899433	.2302951
#2	1.029627	.1912519	.2303534
#3	.987143	.1905404	.2303696

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.585	57545.57	13635.36	1557.675	4031.130
Stddev	50.187	87.11	37.27	8.702	83.014
%RSD	2.090626	.1513774	.2733160	.5586227	2.059329
#1	2371.553	57457.92	13652.90	1549.880	3983.069
#2	2371.665	57546.65	13592.56	1567.063	3983.334
#3	2458.536	57632.13	13660.62	1556.082	4126.986

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03MSD Acquired: 12/5/2024 20:15:36 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6773366	1.746522	.8856176	1.610415	.6800887	2.039414	.8454168
Stddev	.0012963	.012678	.0007811	.003579	.0017841	.006693	.0034855
%RSD	.1913890	.7259037	.0881966	.2222598	.2623364	.3281801	.4122770
#1	.6769399	1.760447	.8850716	1.606352	.6780580	2.034255	.8416032
#2	.6762850	1.743472	.8852690	1.611787	.6808034	2.037010	.8462097
#3	.6787850	1.735647	.8865123	1.613105	.6814047	2.046977	.8484375

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2039063	.1838037	3.763768	.4154805	.1925286	.2726885	16.85013
Stddev	.0010635	.0004233	.038558	.0012463	.0004708	.0007066	.12587
%RSD	.5215471	.2302883	1.024454	.2999714	.2445212	.2591265	.7470180
#1	.2026786	.1833412	3.719246	.4140587	.1920081	.2718728	16.70628
#2	.2045436	.1838980	3.785807	.4163845	.1926531	.2731101	16.94005
#3	.2044967	.1841718	3.786253	.4159982	.1929246	.2730827	16.90407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3426314	2.295471	.4734483	.0679042	9.529695	.2965495	.3204638
Stddev	.0025897	.027116	.0012545	.0001759	.010485	.0019838	.0006978
%RSD	.7558224	1.181297	.2649624	.2590224	.1100270	.6689621	.2177584
#1	.3399470	2.268642	.4723746	.0677040	9.539303	.2943327	.3200631
#2	.3428324	2.294905	.4731431	.0679747	9.531272	.2981577	.3212696
#3	.3451147	2.322866	.4748272	.0680339	9.518511	.2971581	.3200586

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.897871	.2695418	.3942855	.6377809	.2040555	1.022491	5.197664
Stddev	.041771	.0017148	.0001644	.0014743	.0011892	.003448	.001213
%RSD	.4694499	.6361790	.0416934	.2311615	.5827765	.3372106	.0233410
#1	8.941342	.2676268	.3944643	.6366930	.2026949	1.022257	5.196650
#2	8.894234	.2700633	.3941410	.6371909	.2045756	1.026051	5.199008
#3	8.858038	.2709352	.3942511	.6394588	.2048960	1.019167	5.197335

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03MSD Acquired: 12/5/2024 20:15:36 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.9769776	.1817149	.2185739
Stddev	.0053800	.0004785	.0007363
%RSD	.5506740	.2633118	.3368689
#1	.9780476	.1822065	.2179075
#2	.9711431	.1812508	.2184498
#3	.9817422	.1816873	.2193644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.262	60003.21	14216.38	1605.920	4172.742
Stddev	4.803	118.78	32.72	6.373	7.365
%RSD	.1932411	.1979498	.2301468	.3968600	.1765056
#1	2488.532	60045.49	14252.87	1605.153	4180.335
#2	2479.748	59869.08	14206.63	1599.965	4165.628
#3	2487.505	60095.07	14189.65	1612.642	4172.263

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03A Acquired: 12/5/2024 20:19:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.6755665	1.749915	.8788924	1.599866	.6749580	2.022095	.8420912
Stddev	.0026188	.019887	.0037127	.004309	.0015462	.002932	.0033513
%RSD	.3876384	1.136430	.4224312	.2693528	.2290760	.1450047	.3979771
#1	.6782387	1.766220	.8793141	1.597506	.6742879	2.025441	.8396052
#2	.6730046	1.727759	.8749868	1.597252	.6738599	2.019971	.8407659
#3	.6754564	1.755766	.8823762	1.604839	.6767261	2.020874	.8459025

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2021655	.1821432	3.758212	.4131490	.1909395	.2698001	16.88538
Stddev	.0010892	.0006360	.021473	.0013144	.0005909	.0004391	.05153
%RSD	.5387739	.3491769	.5713542	.3181322	.3094698	.1627632	.3051503
#1	.2016023	.1822517	3.733521	.4119921	.1914034	.2703051	16.82612
#2	.2014733	.1814599	3.772515	.4128767	.1902743	.2695077	16.91961
#3	.2034210	.1827180	3.768600	.4145782	.1911410	.2695875	16.91042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3418979	2.274266	.4701262	.0681378	9.509972	.2958613	.3176205
Stddev	.0016609	.015912	.0013002	.0000746	.016244	.0011906	.0007453
%RSD	.4857983	.6996464	.2765547	.1095120	.1708117	.4024321	.2346610
#1	.3404762	2.285438	.4713008	.0682231	9.518465	.2945615	.3170117
#2	.3414938	2.256047	.4687292	.0680846	9.491242	.2961232	.3184517
#3	.3437235	2.281311	.4703487	.0681056	9.520209	.2968992	.3173980

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.873524	.2674470	.3919425	.6343160	.2022449	1.028649	5.174943
Stddev	.018291	.0012952	.0008465	.0029365	.0004621	.001090	.015956
%RSD	.2061278	.4842724	.2159620	.4629343	.2284941	.1059268	.3083355
#1	8.859859	.2660753	.3921974	.6346384	.2024895	1.029537	5.190512
#2	8.894303	.2676168	.3909979	.6312316	.2025333	1.028977	5.158626
#3	8.866409	.2686488	.3926322	.6370779	.2017119	1.027433	5.175693

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: P5070-03A Acquired: 12/5/2024 20:19:37 Type: Unk
Method: NON EPA-6010-200.7(v2491) 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	.9699080	.1802763	.2168079
Stddev	.0048273	.0007162	.0002681
%RSD	.4977060	.3972969	.1236548
#1	.9743445	.1800768	.2171173
#2	.9706121	.1796810	.2166609
#3	.9647673	.1810712	.2166455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2506.677	60285.50	14358.44	1636.626	4209.533
Stddev	2.279	130.11	12.00	5.461	5.570
%RSD	.0909037	.2158219	.0835685	.3336970	.1323096
#1	2508.816	60226.61	14371.33	1637.180	4208.399
#2	2506.935	60195.26	14347.60	1630.909	4215.583
#3	2504.281	60434.65	14356.38	1641.790	4204.618

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV07 Acquired: 12/5/2024 20:23:14 Type: Unk
Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.601602	5.076587	5.079684	4.550220	4.511048	9.404770
Stddev	.007660	.040027	.017786	.009930	.005933	.023213
%RSD	.1664728	.7884673	.3501413	.2182238	.1315237	.2468237
#1	4.598596	5.031375	5.059550	4.540384	4.505368	9.430067
#2	4.595901	5.090880	5.086239	4.550035	4.510572	9.384446
#3	4.610310	5.107506	5.093262	4.560241	4.517206	9.399798

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.140384	.2644379	2.598550	26.33164	1.052120	2.534484
Stddev	.068870	.0009742	.005929	.03207	.002967	.005159
%RSD	.7534710	.3683963	.2281729	.1217988	.2819774	.2035353
#1	9.212439	.2655554	2.592272	26.36755	1.052279	2.528565
#2	9.075217	.2637678	2.599326	26.32152	1.055004	2.536869
#3	9.133496	.2639906	2.604054	26.30585	1.049077	2.538019

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.148383	4.834901	2.535884	25.55698	2.536806	1.231770
Stddev	.001115	.012365	.010105	.03117	.001849	.002569
%RSD	.0971326	.2557399	.3984693	.1219551	.0728849	.2085707
#1	1.149290	4.825826	2.545974	25.59272	2.535292	1.234056
#2	1.148721	4.829892	2.525765	25.54283	2.536259	1.232263
#3	1.147137	4.848984	2.535913	25.53540	2.538866	1.228990

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.91267	2.514176	2.427319	25.15314	5.219099	4.755910
Stddev	.10674	.005224	.006786	.08109	.016437	.004731
%RSD	.4284712	.2077780	.2795676	.3223887	.3149460	.0994744
#1	25.03124	2.515461	2.433222	25.19533	5.237639	4.751626
#2	24.88255	2.518637	2.428830	25.05965	5.206311	4.755116
#3	24.82422	2.508429	2.419904	25.20444	5.213346	4.760988

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCV07 Acquired: 12/5/2024 20:23:14 Type: Unk
Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.155684	4.850466	4.615872	5.072140	4.940663	F 4.239197
Stddev	.019818	.013729	.043988	.028882	.013812	.021233
%RSD	.3843963	.2830472	.9529695	.5694244	.2795585	.5008851
#1	5.136251	4.863826	4.567893	5.043397	4.925224	4.256153
#2	5.154934	4.836396	4.625421	5.071864	4.944917	4.215382
#3	5.175867	4.851175	4.654300	5.101159	4.951847	4.246055

Elem	Sr4077
Units	ppm
Avg	4.918813
Stddev	.011508
%RSD	.2339683
#1	4.922494
#2	4.928030
#3	4.905914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.120	56776.02	13826.51	1582.306	3775.397
Stddev	5.849	19.77	55.79	3.548	3.359
%RSD	.2411954	.0348267	.4034716	.2241999	.0889806
#1	2418.382	56754.31	13763.22	1578.364	3772.376
#2	2428.891	56780.76	13847.76	1583.313	3779.015
#3	2428.088	56793.00	13868.55	1585.242	3774.801

Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB07 Acquired: 12/5/2024 20:27:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009138	-.001116	.0000285	-.000067	.0038363	-.000841	.0033095
Stddev	.0000798	.000894	.0001946	.001785	.0006069	.004303	.0003299
%RSD	8.729412	80.08332	681.4528	2651.054	15.81932	511.8850	9.966926
#1	.0010057	-.000100	.0002514	-.000695	.0040294	-.005460	.0029445
#2	.0008637	-.001465	-.000107	.001946	.0043232	-.000116	.0035863
#3	.0008719	-.001783	-.000058	-.001454	.0031564	.003054	.0033976

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000642	.0001422	-.011530	-.000150	.0002682	-.000285	-.000662
Stddev	.0000127	.0000570	.002969	.000549	.0001563	.000267	.002838
%RSD	19.73820	40.06308	25.75461	365.8429	58.29405	93.56481	428.3701
#1	.0000768	.0001266	-.010101	.000083	.0000935	-.000356	.001692
#2	.0000514	.0002054	-.009545	.000244	.0003160	-.000509	.000134
#3	.0000644	.0000947	-.014943	-.000777	.0003951	.000010	-.003813

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001542	.0086941	-.000024	.0002296	.0672545	.0010819	-.000385
Stddev	.0002934	.0075931	.000122	.0001319	.0134758	.0003778	.000249
%RSD	190.2745	87.33631	508.5000	57.42208	20.03698	34.92531	64.59732
#1	.0003785	.0173996	-.000134	.0000793	.0530483	.0008505	-.000231
#2	.0002617	.0052442	.000108	.0002839	.0688589	.0008772	-.000252
#3	-.000178	.0034384	-.000046	.0003257	.0798562	.0015179	-.000672

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624936	-.000641	.0005617	-.000034	-.000164	.0029593	-.006459
Stddev	.0245130	.000350	.0002720	.000259	.000430	.0017916	.000405
%RSD	39.22475	54.50670	48.41714	772.0744	261.8159	60.54132	6.275860
#1	.0355898	-.000670	.0008412	.000188	.000333	.0046576	-.006483
#2	.0683283	-.000976	.0005461	-.000318	-.000414	.0010871	-.006852
#3	.0835628	-.000278	.0002979	.000029	-.000412	.0031332	-.006043

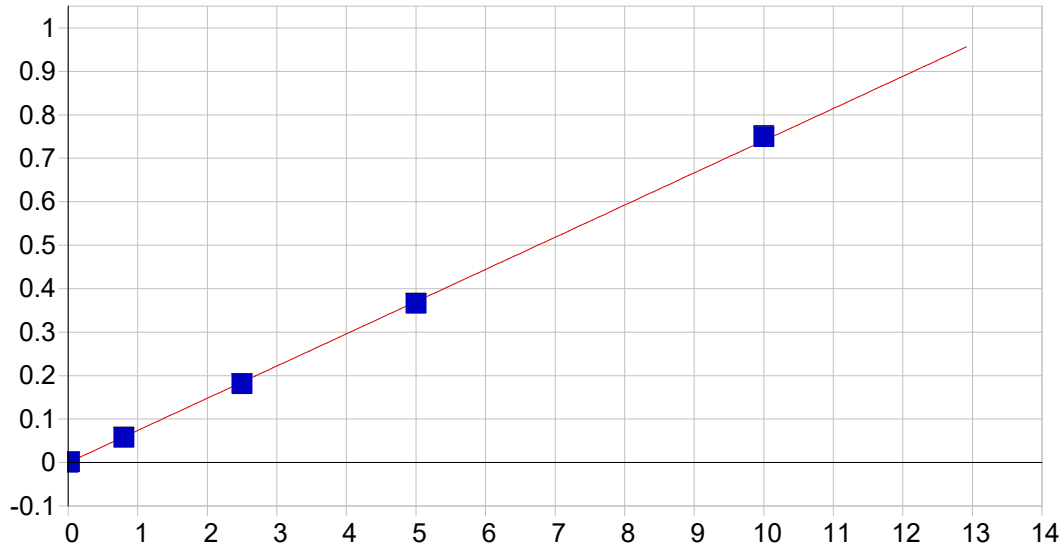
Reviewed By:
On:
Inst Id :P4
LB :LB133769

Sample Name: CCB07 Acquired: 12/5/2024 20:27:08 Type: Unk
Method: NON EPA-6010-200.7(v2491) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0027306	.0000445	.0001833
Stddev	.0025610	.0002592	.0000886
%RSD	93.78871	582.2487	48.32270
#1	.0021555	-.000252	.0002739
#2	.0055303	.000161	.0001792
#3	.0005061	.000225	.0000969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2487.203	57925.99	13266.50	1631.454	4153.053
Stddev	6.802	120.13	23.29	7.287	6.312
%RSD	.2734638	.2073932	.1755681	.4466770	.1519941
#1	2490.874	58060.94	13239.66	1637.617	4153.803
#2	2491.381	57886.32	13281.39	1633.333	4158.957
#3	2479.355	57830.70	13278.45	1623.411	4146.399

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



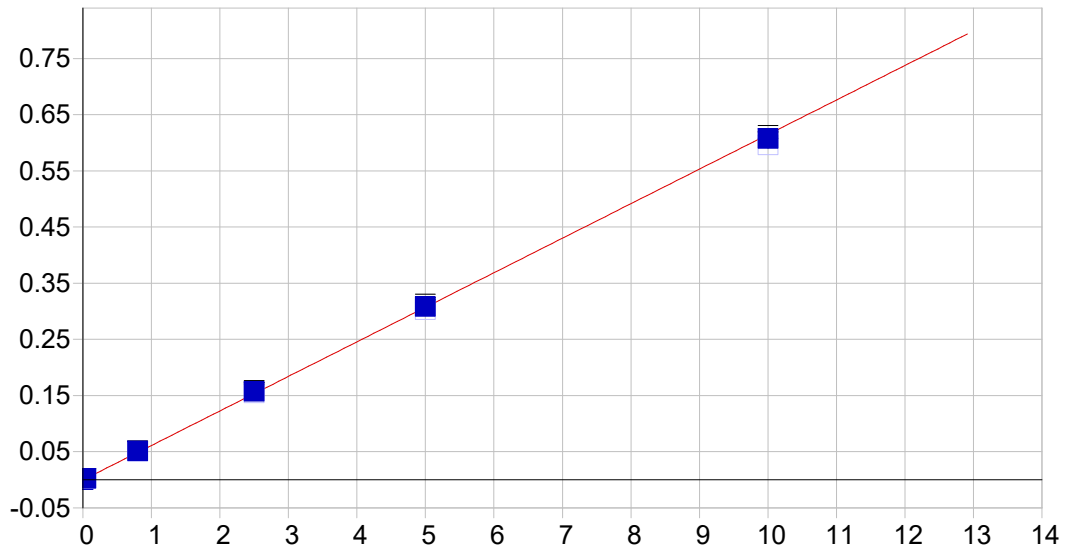
As 189.042 {479}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000218	Re-Slope:	1.000000
A1 (Gain):	0.074064	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002037		
Predicted MQL:	0.006790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00022	.000	1
S1	.02000	.01976	-.000	-1.18	.00124	.000	1
S3	2.5000	2.4475	-.052	-2.10	.18085	.000	1
S4	5.0000	4.9439	-.056	-1.12	.36554	.001	1
S5	10.000	10.124	.124	1.24	.74881	.002	1
S2	.80000	.78472	-.015	-1.91	.05784	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



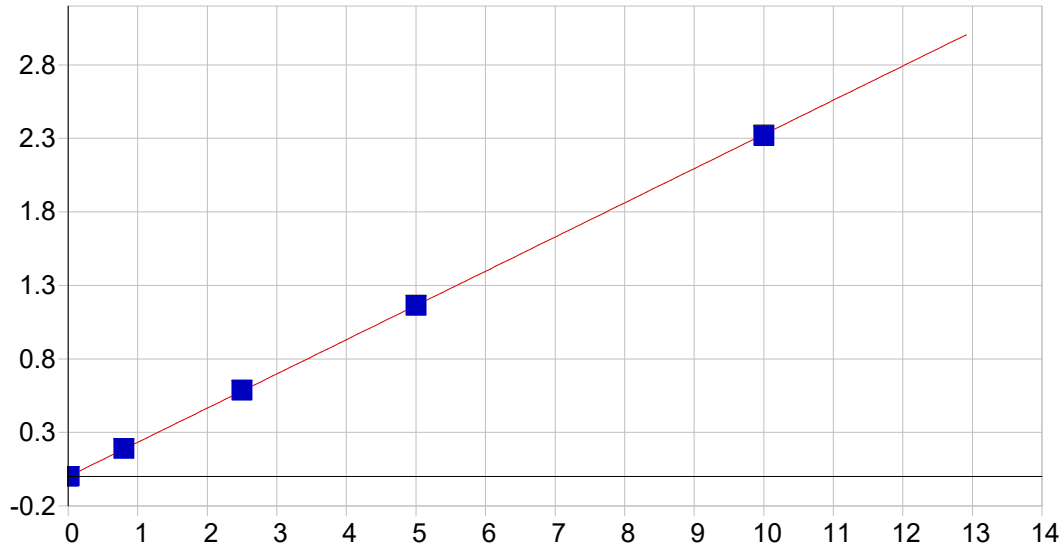
Tl 190.856 {477}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000386	Re-Slope:	1.000000
A1 (Gain):	0.061517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.001841		
Predicted MQL:	0.006136		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00039	.000	1
S1	.04000	.04117	.001	2.92	.00199	.000	1
S3	2.5000	2.5638	.064	2.55	.15450	.002	1
S4	5.0000	5.0157	.016	.314	.30250	.005	1
S5	10.000	9.8812	-.119	-1.19	.59614	.006	1
S2	.80000	.83813	.038	4.77	.05027	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



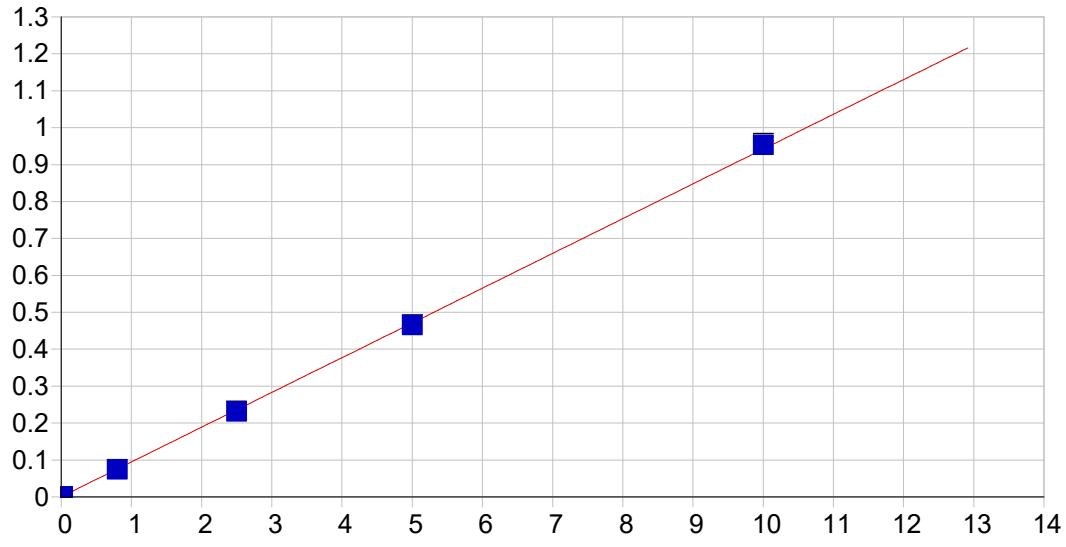
Pb 220.353 {453}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000206	Re-Slope:	1.000000
A1 (Gain):	0.232715	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.001024		
Predicted MQL:	0.003414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00021	.000	1
S1	.01200	.01191	-.000	-.730	.00251	.000	1
S3	2.5000	2.5207	.021	.828	.58576	.001	1
S4	5.0000	4.9999	-.000	-.001	1.1621	.002	1
S5	10.000	9.9655	-.034	-.345	2.3164	.004	1
S2	.80000	.81394	.014	1.74	.18901	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



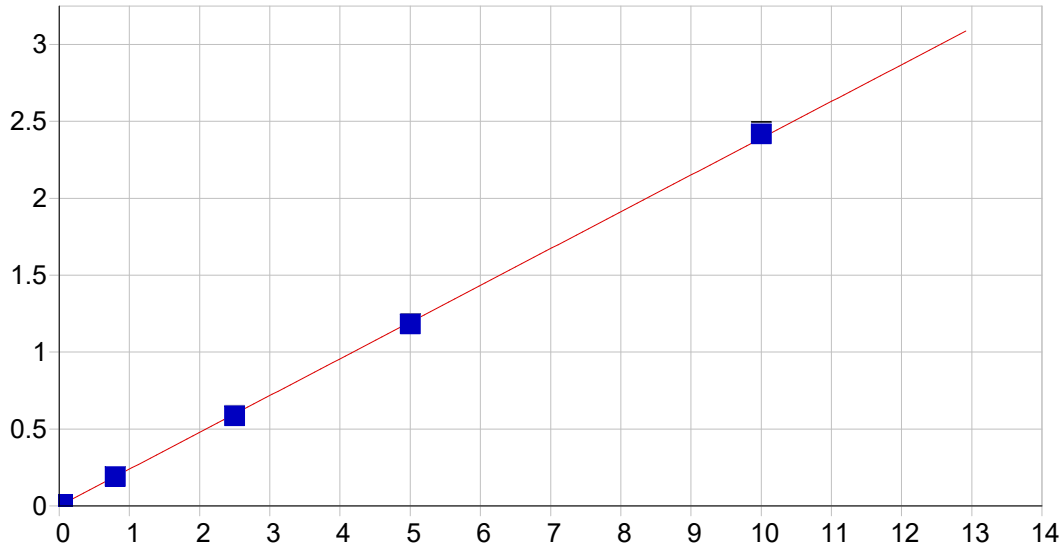
Se 196.090 {472}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000497	Re-Slope:	1.000000
A1 (Gain):	0.094144	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.001984		
Predicted MQL:	0.006615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.02000	.01732	-.003	-13.4	.00213	.000	1
S3	2.5000	2.4543	-.046	-1.83	.23149	.000	1
S4	5.0000	4.9412	-.059	-1.18	.46556	.001	1
S5	10.000	10.124	.124	1.24	.95335	.004	1
S2	.80000	.78332	-.017	-2.09	.07422	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



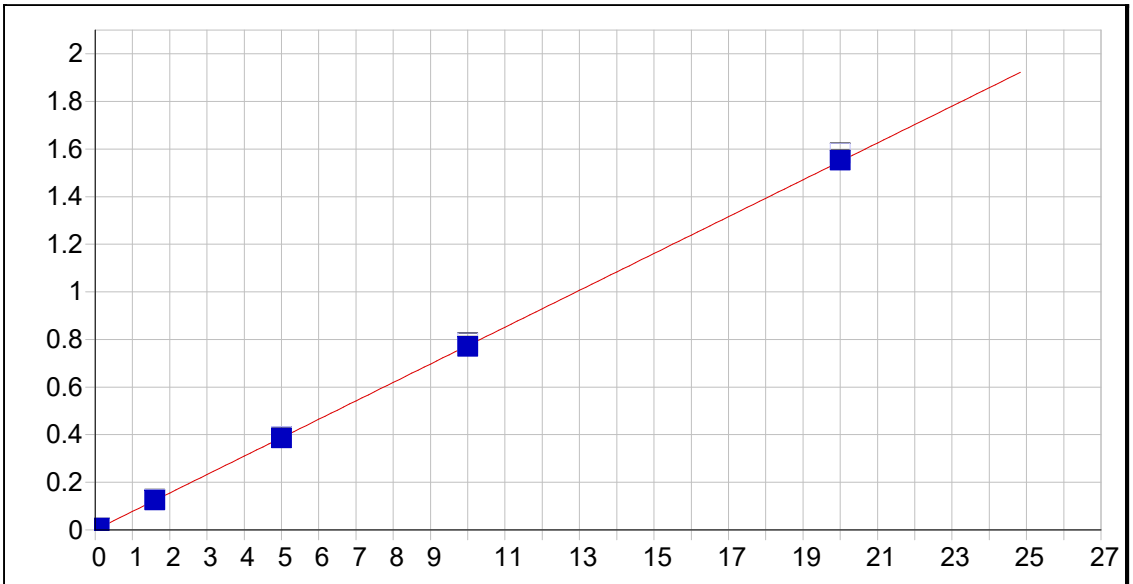
Sb 206.833 {463}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000075	Re-Slope:	1.000000
A1 (Gain):	0.239030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000118		
Predicted MDL:	0.001068		
Predicted MQL:	0.003559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.05000	.05092	.001	1.84	.01227	.000	1
S3	2.5000	2.4461	-.054	-2.16	.58639	.002	1
S4	5.0000	4.9420	-.058	-1.16	1.1846	.002	1
S5	10.000	10.116	.116	1.16	2.4247	.009	1
S2	.80000	.79469	-.005	-.664	.19055	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



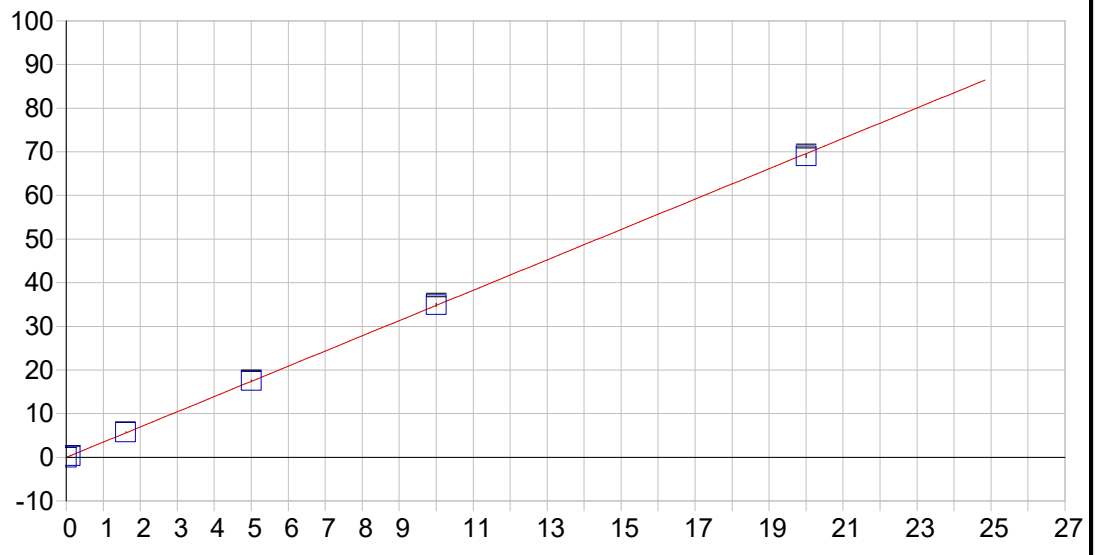
Al 396.152 { 85}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000320	Re-Slope:	1.000000
A1 (Gain):	0.077395	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.004931		
Predicted MQL:	0.016437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00032	.000	1
S1	.10000	.10294	.003	2.94	.00889	.000	1
S3	5.0000	4.9734	-.027	-.532	.39274	.000	1
S4	10.000	9.9467	-.053	-.533	.78516	.002	1
S5	20.000	20.060	.060	.302	1.5829	.001	1
S2	1.6000	1.6163	.016	1.02	.12781	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



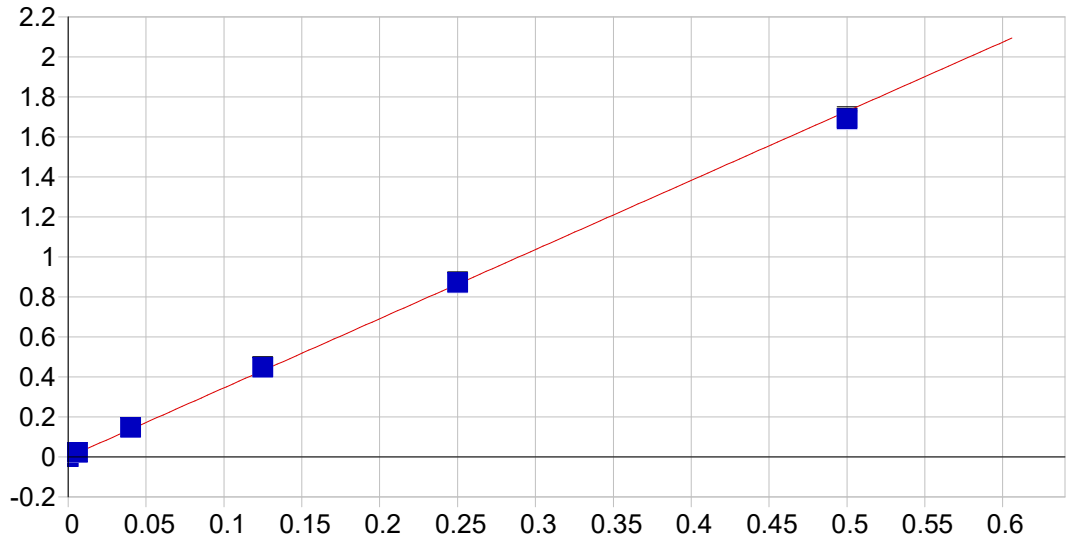
Ba 493.409 { 68}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.016853	Re-Slope:	1.000000
A1 (Gain):	3.480967	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.002951		
Predicted MDL:	0.000417		
Predicted MQL:	0.001390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.01688	.003	1
S1	.10000	.10386	.004	3.86	.34470	.003	1
S3	5.0000	5.0565	.057	1.13	17.585	.144	1
S4	10.000	10.037	.037	.368	34.921	.431	1
S5	20.000	19.839	-.161	-.807	69.041	.463	1
S2	1.6000	1.6642	.064	4.01	5.7760	.006	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



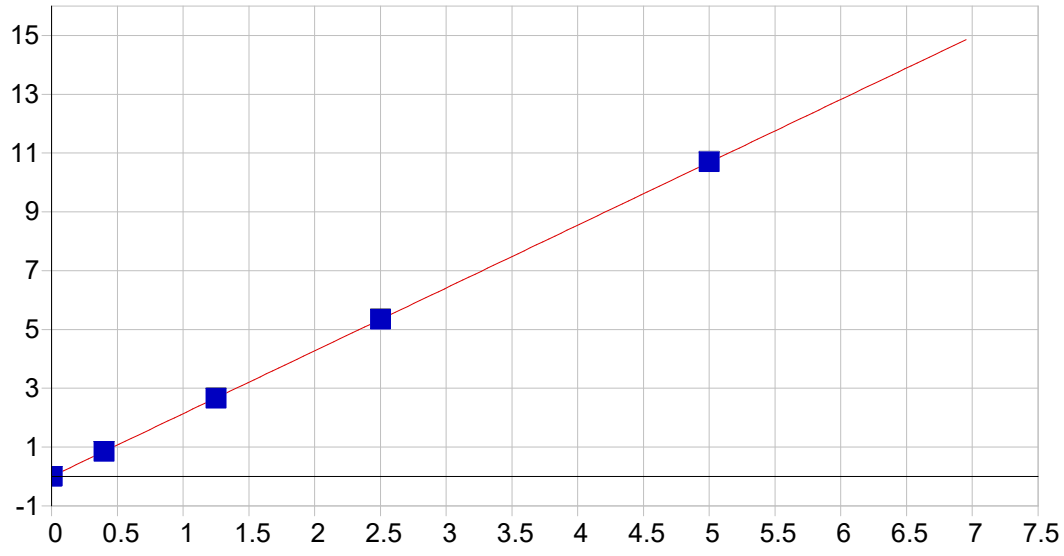
Be 234.861 {144}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000662	Re-Slope:	1.000000
A1 (Gain):	3.457686	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000265		
Predicted MDL:	0.000058		
Predicted MQL:	0.000192		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00067	.000	1
S1	.00600	.00648	.000	7.94	.02158	.000	1
S3	.12500	.12991	.005	3.93	.44658	.002	1
S4	.25000	.25245	.002	.978	.86834	.002	1
S5	.50000	.48951	-.010	-2.10	1.6842	.009	1
S2	.04000	.04266	.003	6.65	.14622	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



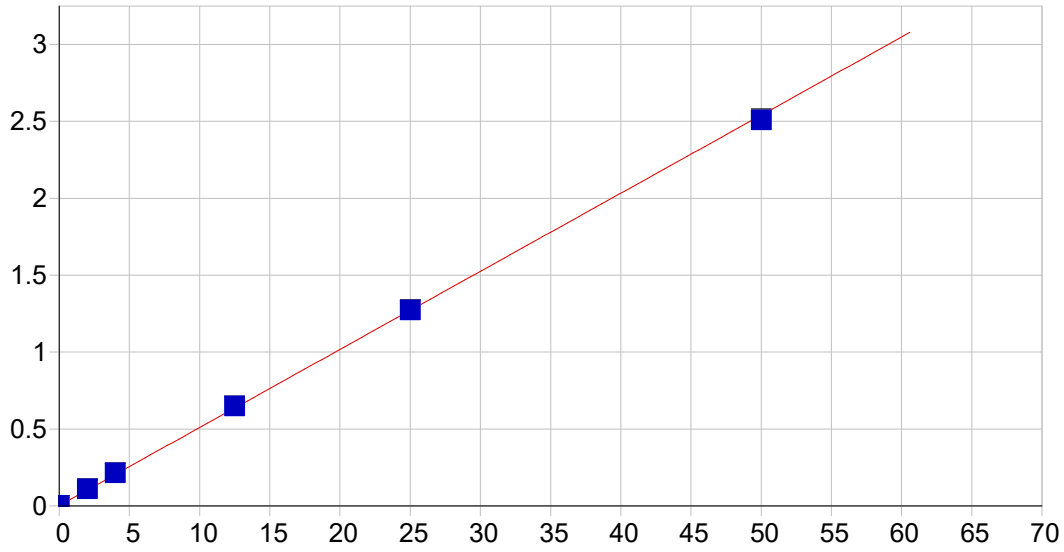
Cd 226.502 {449}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000244	Re-Slope:	1.000000
A1 (Gain):	2.137212	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000086		
Predicted MQL:	0.000286		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.000	1
S1	.00600	.00611	.000	1.89	.01288	.000	1
S3	1.2500	1.2456	-.004	-.350	2.6641	.002	1
S4	2.5000	2.4989	-.001	-.044	5.3448	.008	1
S5	5.0000	5.0057	.006	.114	10.707	.017	1
S2	.40000	.39965	-.000	-.088	.85459	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



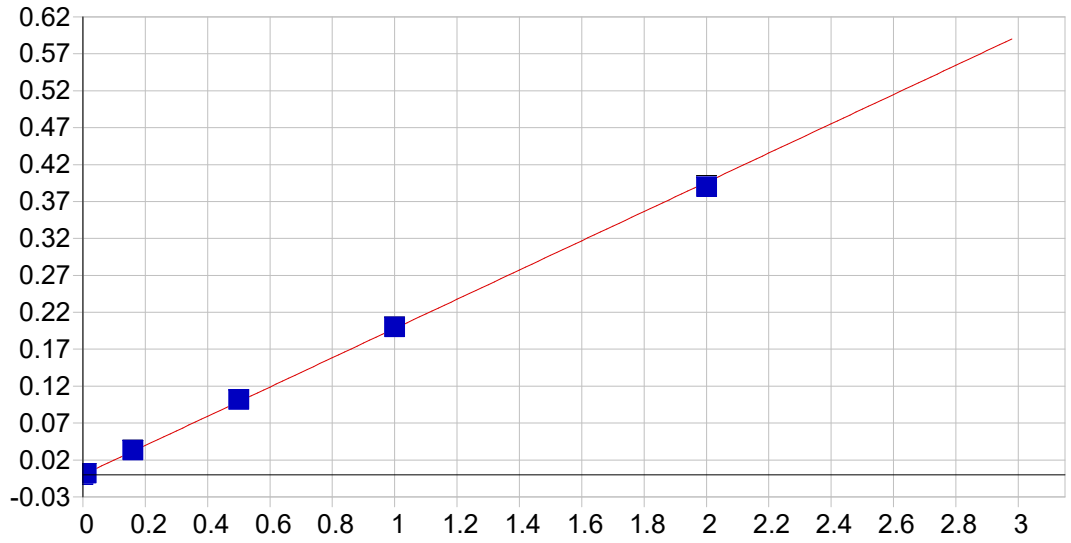
Ca 373.690 { 90}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002078	Re-Slope:	1.000000
A1 (Gain):	0.050774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999830	Status:	OK.
Std Error of Est:	0.000495		
Predicted MDL:	0.007199		
Predicted MQL:	0.023995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00026	-.000	.000	.00207	.000	1
S2	4.0000	4.1834	.183	4.58	.21449	.001	1
S3	12.500	12.737	.237	1.90	.64879	.001	1
S4	25.000	25.038	.038	.152	1.2734	.003	1
S5	50.000	49.391	-.609	-1.22	2.5099	.005	1
S1	2.0000	2.1504	.150	7.52	.11126	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



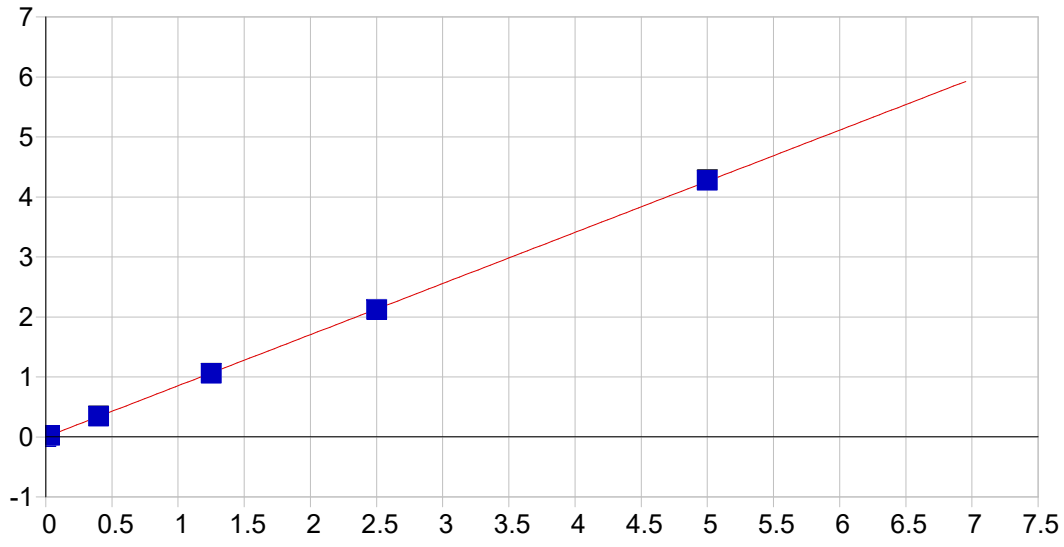
Cr 267.716 {126}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000015	Re-Slope:	1.000000
A1 (Gain):	0.198035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999831	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.000362		
Predicted MQL:	0.001206		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01000	.01016	.000	1.59	.00200	.000	1
S3	.50000	.51327	.013	2.65	.10166	.000	1
S4	1.0000	1.0095	.009	.946	.19995	.000	1
S5	2.0000	1.9698	-.030	-1.51	.39018	.002	1
S2	.16000	.16736	.007	4.60	.03314	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



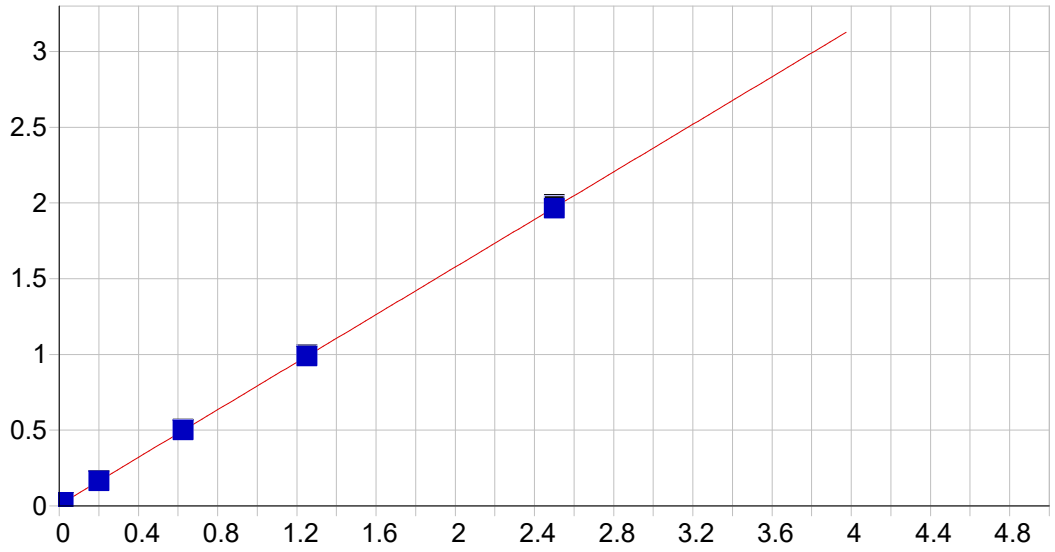
Co 228.616 {448}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000021	Re-Slope:	1.000000
A1 (Gain):	0.852132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000083		
Predicted MDL:	0.000192		
Predicted MQL:	0.000638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.03000	.03017	.000	.578	.02558	.000	1
S3	1.2500	1.2408	-.009	-.736	1.0591	.001	1
S4	2.5000	2.4884	-.012	-.464	2.1240	.001	1
S5	5.0000	5.0172	.017	.344	4.2825	.006	1
S2	.40000	.40342	.003	.854	.34432	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



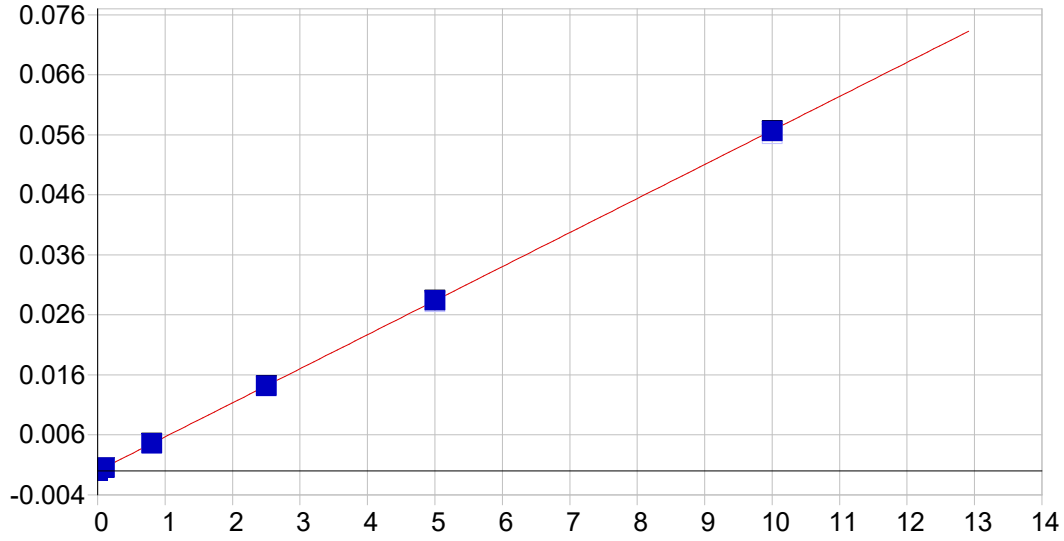
Cu 224.700 {450}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006935	Re-Slope:	1.000000
A1 (Gain):	0.785149	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.000371		
Predicted MQL:	0.001237		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00693	.000	1
S1	.02000	.02180	.002	9.00	.02425	.000	1
S3	.62500	.62883	.004	.613	.50534	.001	1
S4	1.2500	1.2495	-.001	-.042	.99731	.000	1
S5	2.5000	2.4944	-.006	-.223	1.9841	.005	1
S2	.20000	.20046	.000	.230	.16582	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



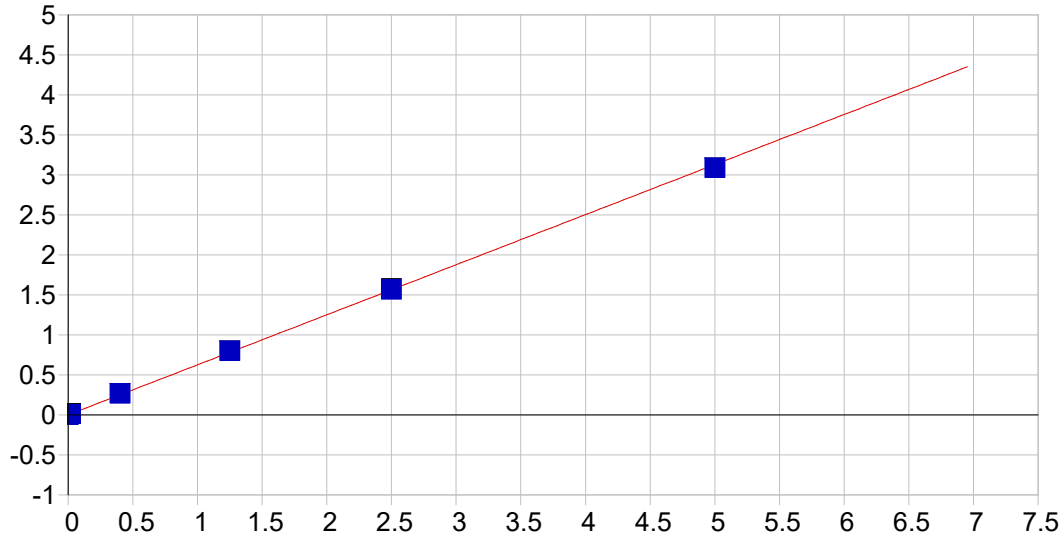
Fe 240.488 {140}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.005673	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.003913		
Predicted MQL:	0.013044		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.10000	.09833	-.002	-1.67	.00055	.000	1
S3	2.5000	2.5030	.003	.118	.01408	.000	1
S4	5.0000	5.0057	.006	.113	.02816	.000	1
S5	10.000	9.9819	-.018	-.181	.05615	.000	1
S2	.80000	.81113	.011	1.39	.00456	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



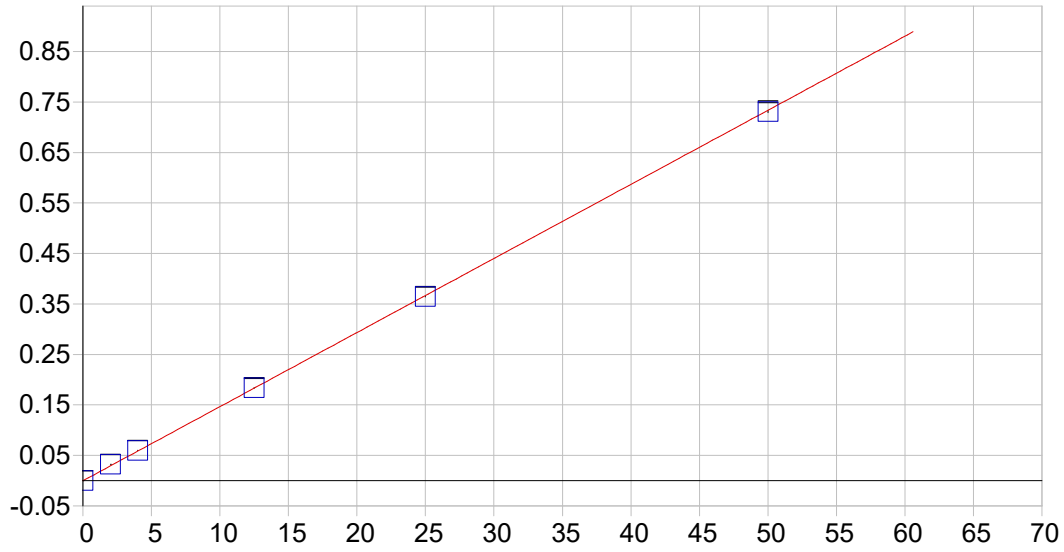
Mn 257.610 {131}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000005	Re-Slope:	1.000000
A1 (Gain):	0.625830	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999799	Status:	OK.
Std Error of Est:	0.000208		
Predicted MDL:	0.000248		
Predicted MQL:	0.000828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.02000	.02220	.002	11.0	.01389	.000	1
S3	1.2500	1.2811	.031	2.49	.80192	.002	1
S4	2.5000	2.5044	.004	.175	1.5676	.007	1
S5	5.0000	4.9353	-.065	-1.29	3.0893	.003	1
S2	.40000	.42700	.027	6.75	.26728	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



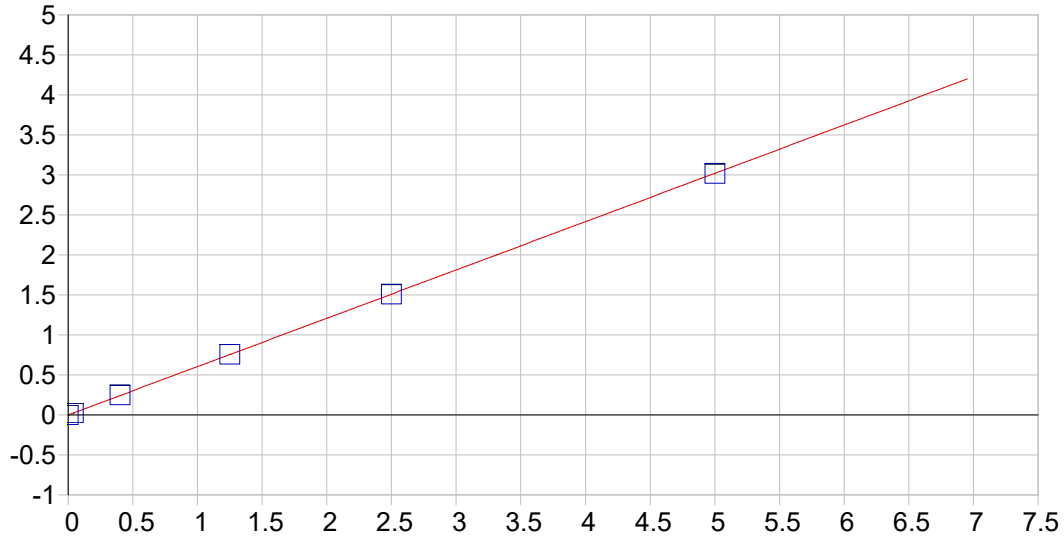
Mg 279.079 {121}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000148	Re-Slope:	1.000000
A1 (Gain):	0.014674	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.011335		
Predicted MQL:	0.037782		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00025	-.000	.000	-.00015	.000	1
S2	4.0000	4.0957	.096	2.39	.05995	.000	1
S3	12.500	12.531	.031	.251	.18374	.001	1
S4	25.000	24.844	-.156	-.626	.36442	.001	1
S5	50.000	49.809	-.191	-.381	.73077	.002	1
S1	2.0000	2.2199	.220	11.0	.03243	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



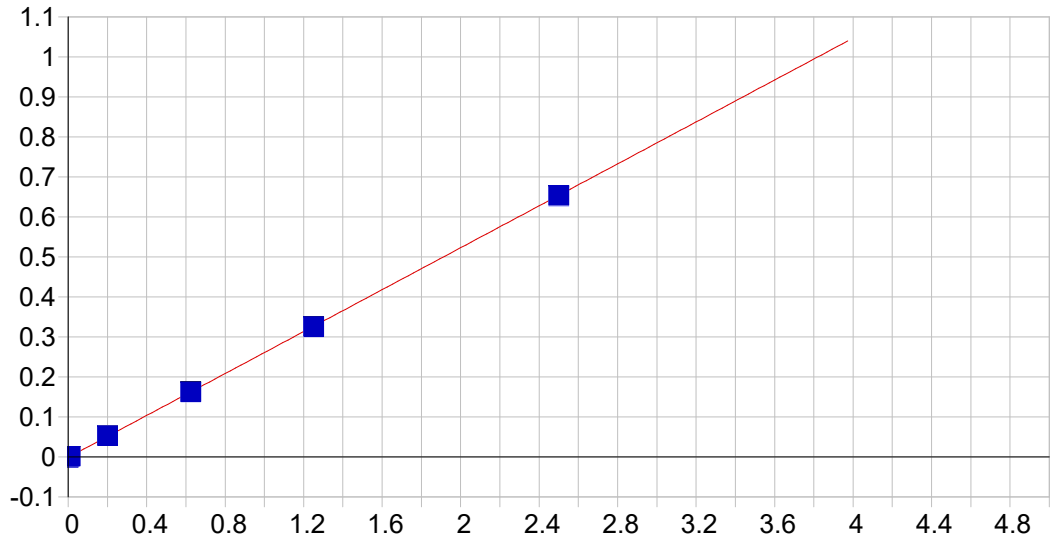
Ni 231.604 {446}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000205	Re-Slope:	1.000000
A1 (Gain):	0.603983	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	0.000303		
Predicted MQL:	0.001011		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00021	.000	1
S1	.04000	.04065	.001	1.62	.02435	.000	1
S3	1.2500	1.2505	.000	.037	.75505	.001	1
S4	2.5000	2.4940	-.006	-.240	1.5061	.002	1
S5	5.0000	4.9967	-.003	-.065	3.0177	.004	1
S2	.40000	.40816	.008	2.04	.24632	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



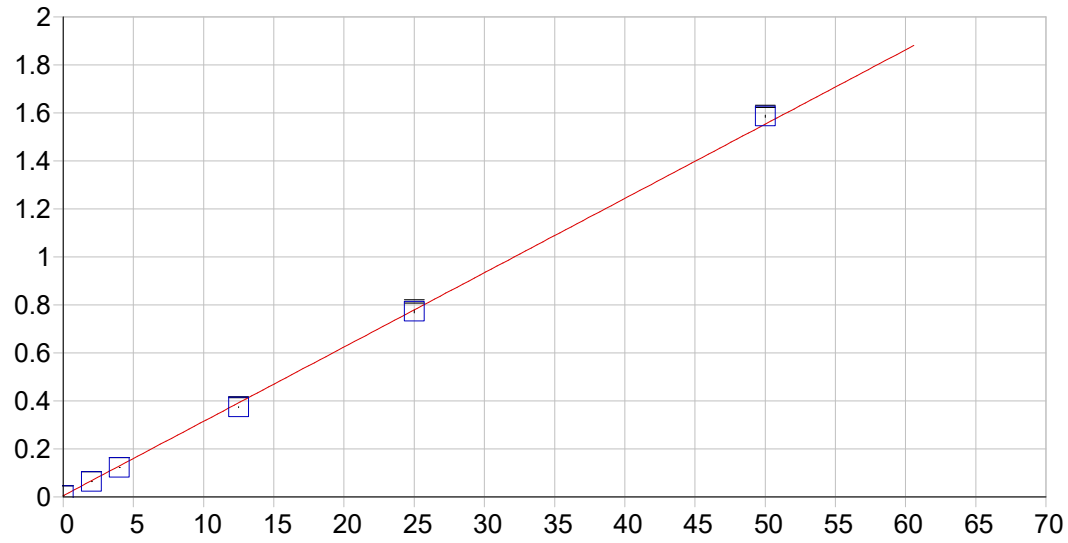
Ag 328.068 {103}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001212	Re-Slope:	1.000000
A1 (Gain):	0.262066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.000352		
Predicted MQL:	0.001172		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00121	.000	1
S1	.01000	.01047	.000	4.67	.00151	.000	1
S3	.62500	.62491	-.000	-.015	.16190	.000	1
S4	1.2500	1.2461	-.004	-.309	.32406	.001	1
S5	2.5000	2.4978	-.002	-.090	.65076	.000	1
S2	.20000	.20574	.006	2.87	.05250	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



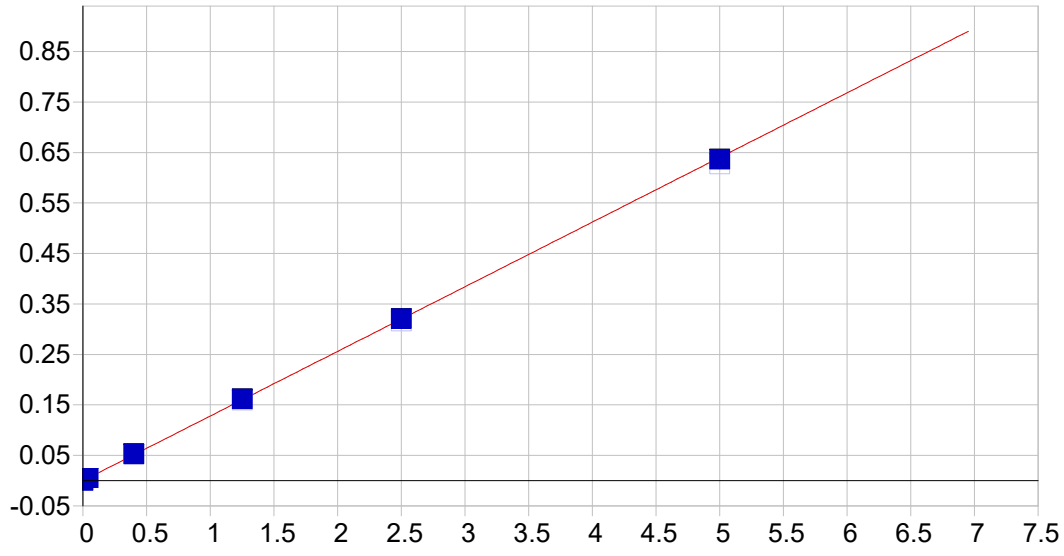
Na 589.592 { 57}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005369	Re-Slope:	1.000000
A1 (Gain):	0.030954	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999642	Status:	OK.
Std Error of Est:	0.000439		
Predicted MDL:	0.005747		
Predicted MQL:	0.019156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00026	.000	.000	.00538	.000	1
S2	4.0000	3.7872	-.213	-5.32	.12260	.000	1
S3	12.500	11.918	-.582	-4.65	.37429	.002	1
S4	25.000	24.809	-.191	-.763	.77332	.007	1
S5	50.000	51.075	1.08	2.15	1.5863	.005	1
S1	2.0000	1.9100	-.090	-4.50	.06449	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



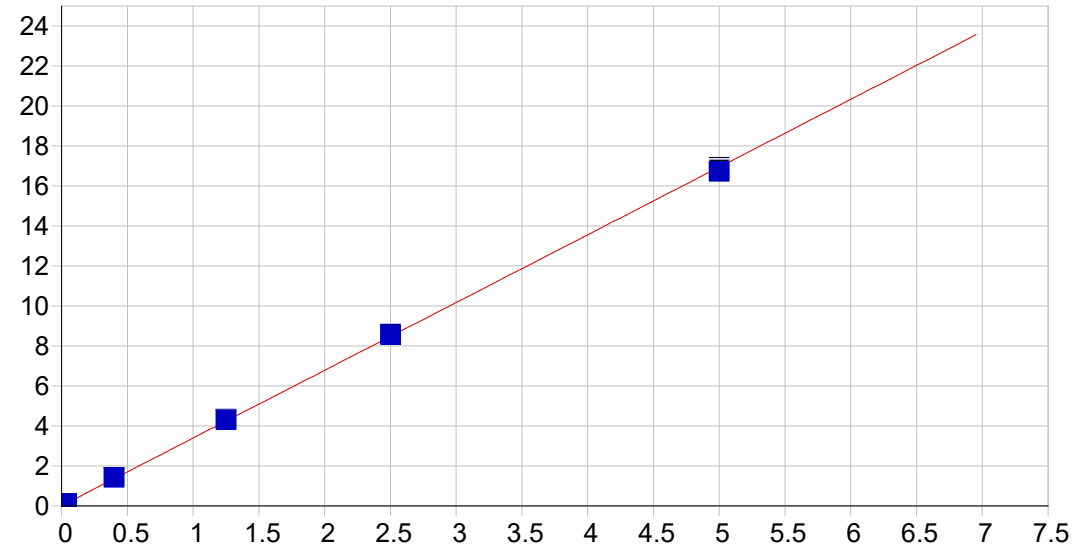
V 292.402 {115}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.128023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.001327		
Predicted MQL:	0.004424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.04000	.04094	.001	2.34	.00506	.000	1
S3	1.2500	1.2619	.012	.955	.15923	.000	1
S4	2.5000	2.5048	.005	.192	.31601	.000	1
S5	5.0000	4.9704	-.030	-.592	.62700	.000	1
S2	.40000	.41193	.012	2.98	.05200	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



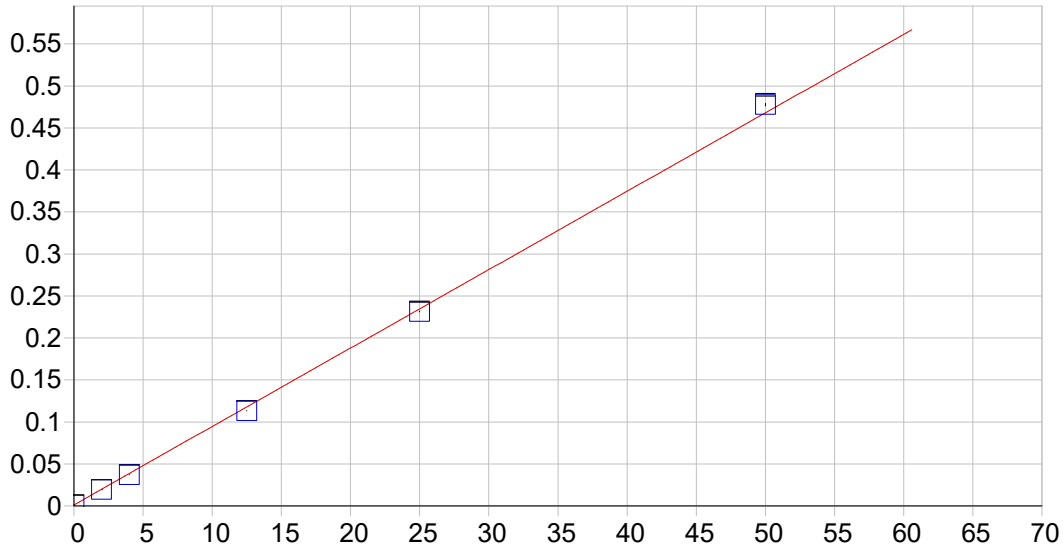
Zn 213.856 {158}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006154	Re-Slope:	1.000000
A1 (Gain):	3.388560	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.001230		
Predicted MDL:	0.000241		
Predicted MQL:	0.000804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00614	.000	1
S1	.04000	.04217	.002	5.41	.14998	.000	1
S3	1.2500	1.2694	.019	1.55	4.3369	.008	1
S4	2.5000	2.5260	.026	1.04	8.6246	.010	1
S5	5.0000	4.9359	-.064	-1.28	16.849	.076	1
S2	.40000	.41659	.017	4.15	1.4272	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



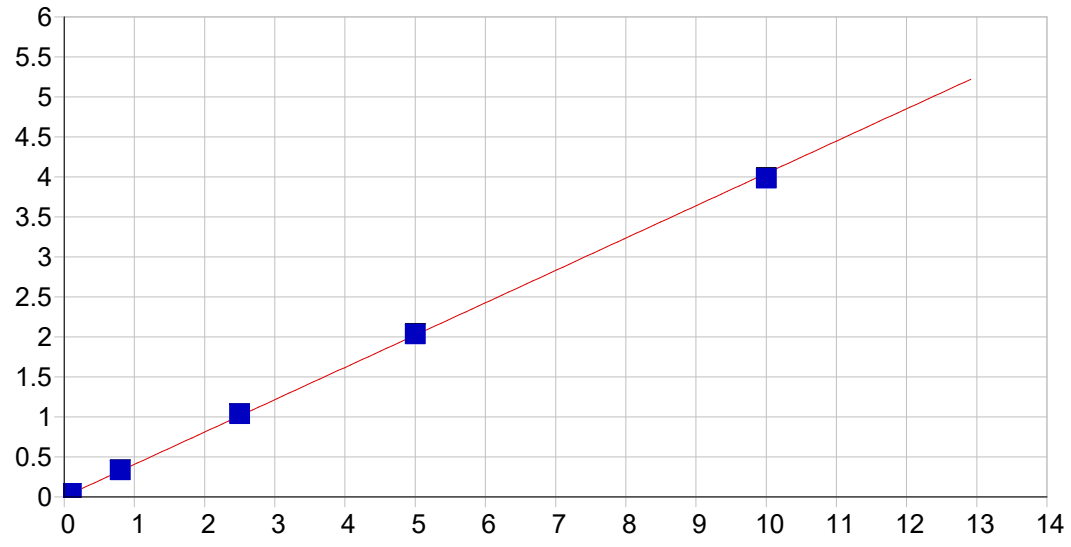
K 766.490 { 44}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001276	Re-Slope:	1.000000
A1 (Gain):	0.009334	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999706	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.018662		
Predicted MQL:	0.062207		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00020	.000	.000	.00128	.000	1
S2	4.0000	3.8417	-.158	-3.96	.03713	.000	1
S3	12.500	11.999	-.501	-4.01	.11327	.000	1
S4	25.000	24.657	-.343	-1.37	.23141	.001	1
S5	50.000	51.058	1.06	2.12	.47783	.002	1
S1	2.0000	1.9439	-.056	-2.81	.01942	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



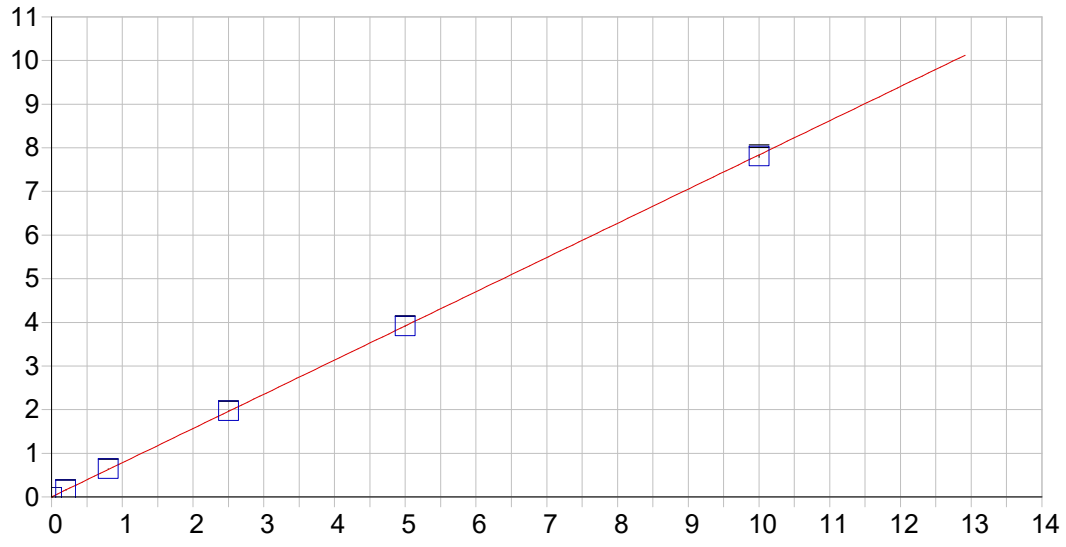
B 249.678 {135}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002305	Re-Slope:	1.000000
A1 (Gain):	0.404081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000378		
Predicted MDL:	0.000597		
Predicted MQL:	0.001991		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00230	.000	1
S1	.10000	.10780	.008	7.80	.04569	.000	1
S3	2.5000	2.5663	.066	2.65	1.0373	.002	1
S4	5.0000	5.0377	.038	.754	2.0340	.005	1
S5	10.000	9.8578	-.142	-1.42	3.9777	.008	1
S2	.80000	.83042	.030	3.80	.33723	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



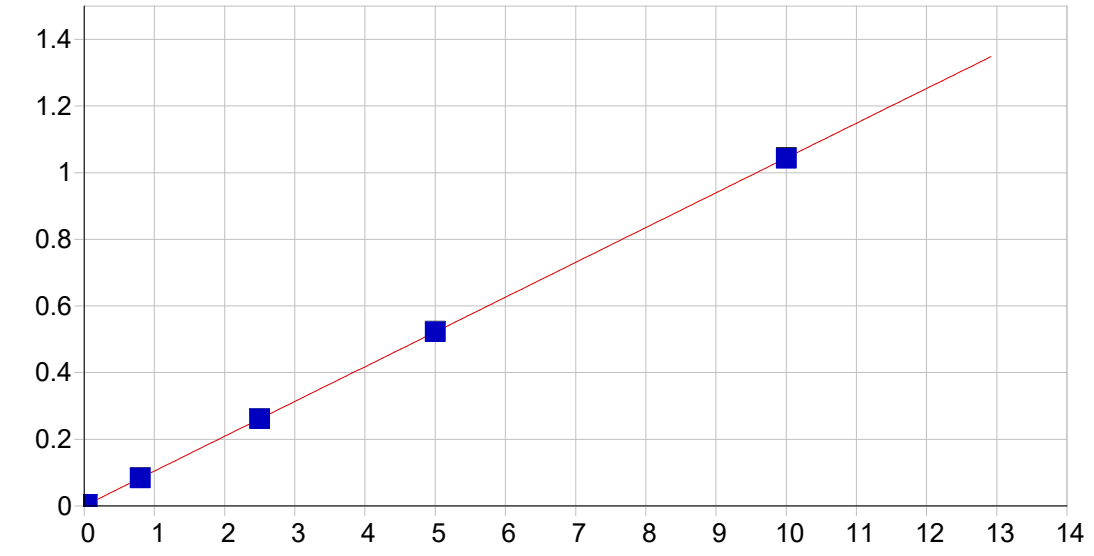
Mo 202.030 {467}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000177	Re-Slope:	1.000000
A1 (Gain):	0.783746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000414		
Predicted MDL:	0.000245		
Predicted MQL:	0.000817		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00017	.000	1
S1	.20000	.20731	.007	3.65	.16265	.000	1
S3	2.5000	2.5126	.013	.504	1.9694	.007	1
S4	5.0000	4.9953	-.005	-.095	3.9152	.006	1
S5	10.000	9.9653	-.035	-.347	7.8105	.029	1
S2	.80000	.81951	.020	2.44	.64246	.001	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



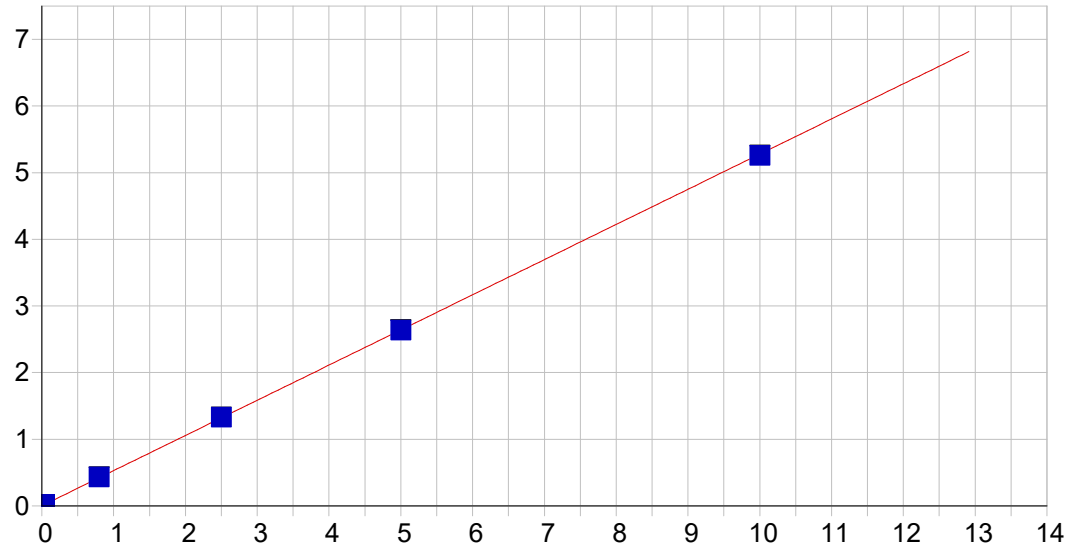
Sn 189.989 {478}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000139	Re-Slope:	1.000000
A1 (Gain):	0.104378	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.000815		
Predicted MQL:	0.002715		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00014	.000	1
S1	.04000	.04043	.000	1.08	.00435	.000	1
S3	2.5000	2.5002	.000	.007	.26083	.000	1
S4	5.0000	5.0072	.007	.143	.52224	.001	1
S5	10.000	9.9906	-.009	-.094	1.0419	.002	1
S2	.80000	.80167	.002	.209	.08373	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



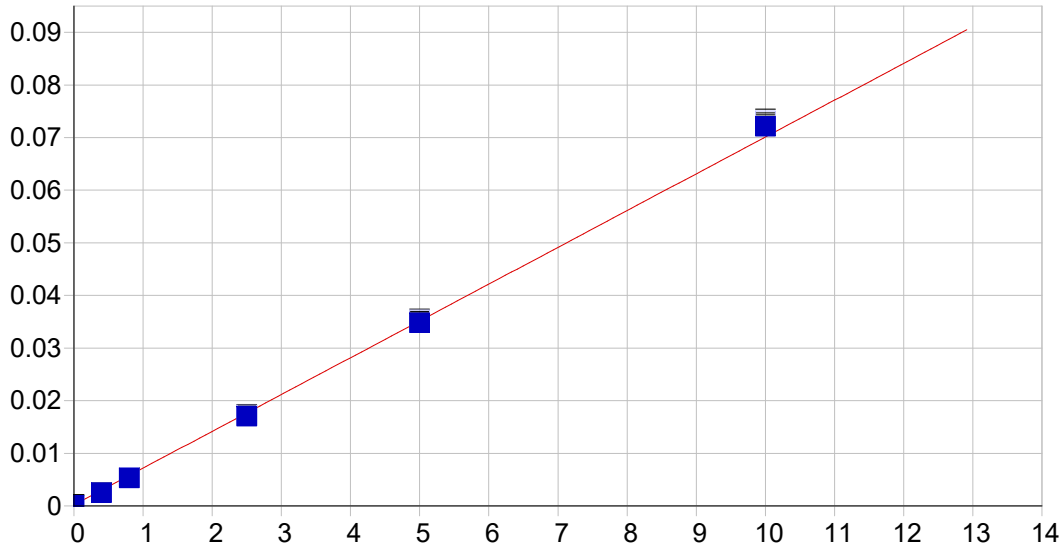
Ti 336.121 {100}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001815	Re-Slope:	1.000000
A1 (Gain):	0.527697	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000118		
Predicted MDL:	0.000471		
Predicted MQL:	0.001571		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00181	.000	1
S1	.04000	.04147	.001	3.67	.02368	.000	1
S3	2.5000	2.5201	.020	.805	1.3312	.001	1
S4	5.0000	4.9963	-.004	-.075	2.6374	.008	1
S5	10.000	9.9627	-.037	-.373	5.2572	.004	1
S2	.80000	.81940	.019	2.42	.43406	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



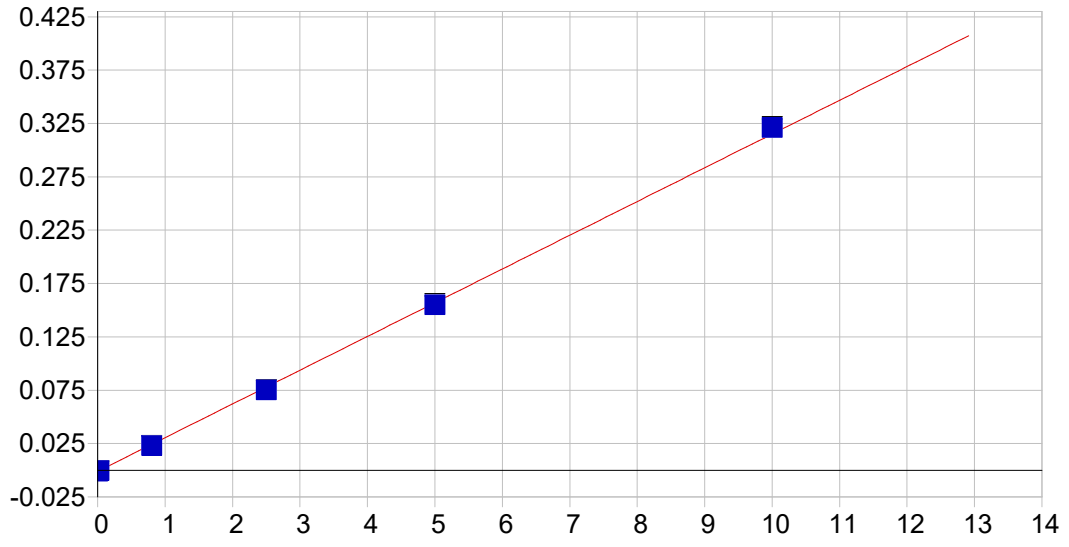
Si 288.158 {117}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000193	Re-Slope:	1.000000
A1 (Gain):	0.006992	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999173	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.005393		
Predicted MQL:	0.017977		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00019	.000	1
S1	.40000	.32577	-.074	-18.6	.00248	.000	1
S3	2.5000	2.4076	-.092	-3.69	.01729	.000	1
S4	5.0000	4.9485	-.051	-1.03	.03532	.000	1
S5	10.000	10.286	.286	2.86	.07316	.000	1
S2	.80000	.73107	-.069	-8.62	.00539	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



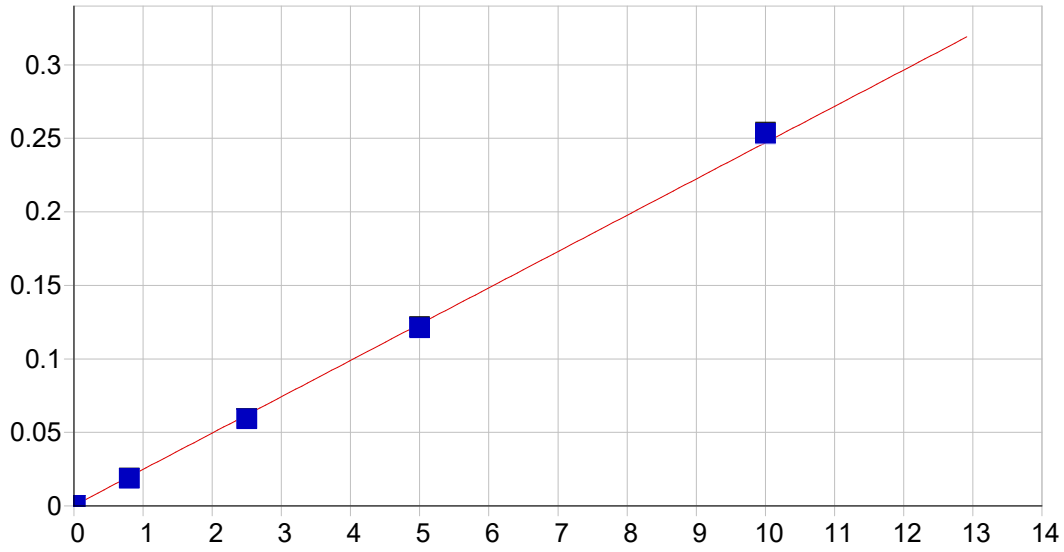
P 177.495 {490}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001096	Re-Slope:	1.000000
A1 (Gain):	0.031622	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999748	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.002562		
Predicted MQL:	0.008540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00110	.000	1
S1	.02000	.01757	-.002	-12.1	-.00054	.000	1
S3	2.5000	2.4128	-.087	-3.49	.07519	.000	1
S4	5.0000	4.9375	-.063	-1.25	.15501	.001	1
S5	10.000	10.188	.188	1.88	.32102	.001	1
S2	.80000	.76425	-.036	-4.47	.02307	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



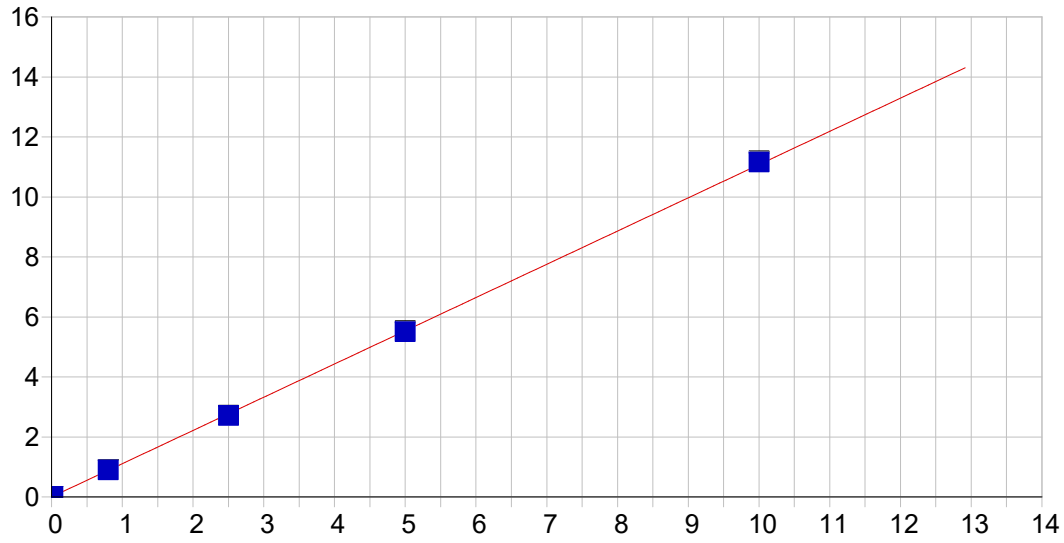
S 182.034 {485}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000182	Re-Slope:	1.000000
A1 (Gain):	0.024690	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999554	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.003258		
Predicted MQL:	0.010860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00018	.000	1
S1	.02000	.01917	-.001	-4.16	.00063	.000	1
S3	2.5000	2.3904	-.110	-4.38	.05904	.000	1
S4	5.0000	4.9026	-.097	-1.95	.12091	.001	1
S5	10.000	10.256	.256	2.56	.25277	.001	1
S2	.80000	.75130	-.049	-6.09	.01868	.000	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



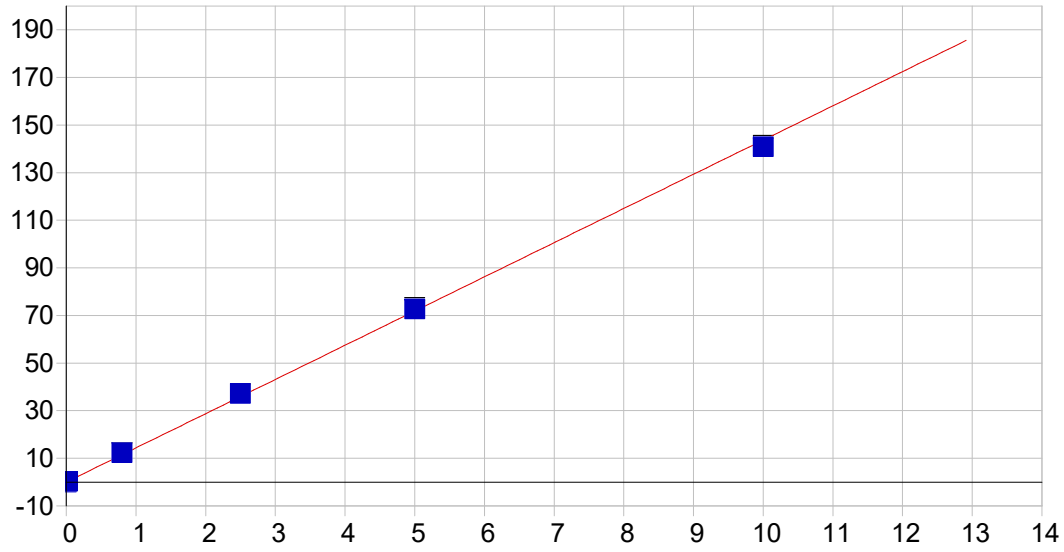
Li 670.784 { 50}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002038	Re-Slope:	1.000000
A1 (Gain):	1.107343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000280		
Predicted MDL:	0.000653		
Predicted MQL:	0.002176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00204	.001	1
S5	10.000	10.076	.076	.758	11.169	.033	1
S4	5.0000	4.9674	-.033	-.652	5.5076	.027	1
S3	2.5000	2.4457	-.054	-2.17	2.7127	.008	1
S1	.02000	.02071	.001	3.55	.02537	.001	1
S2	.80000	.81039	.010	1.30	.90021	.004	1

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



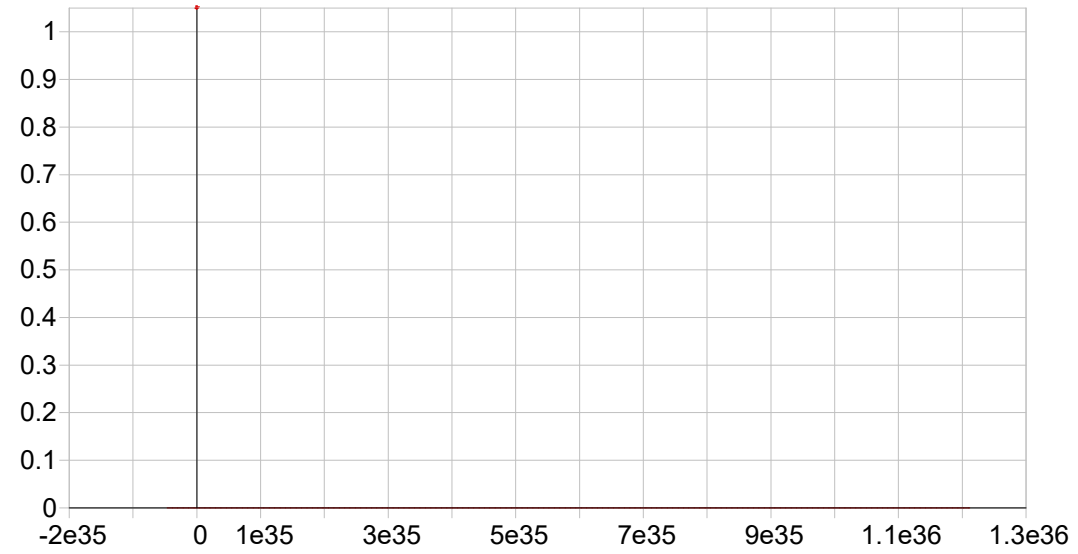
Sr 407.771 { 83}

Date of Fit:	12/6/2024 12:14:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000207	Re-Slope:	1.000000
A1 (Gain):	14.370415	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999683	Status:	OK.
Std Error of Est:	0.008491		
Predicted MDL:	0.000029		
Predicted MQL:	0.000098		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.02000	.02169	.002	8.46	.31337	.001	1
S3	2.5000	2.5848	.085	3.39	37.181	.047	1
S4	5.0000	5.0590	.059	1.18	72.773	.570	1
S5	10.000	9.7987	-.201	-2.01	140.96	.599	1
S2	.80000	.85572	.056	6.96	12.309	.024	1

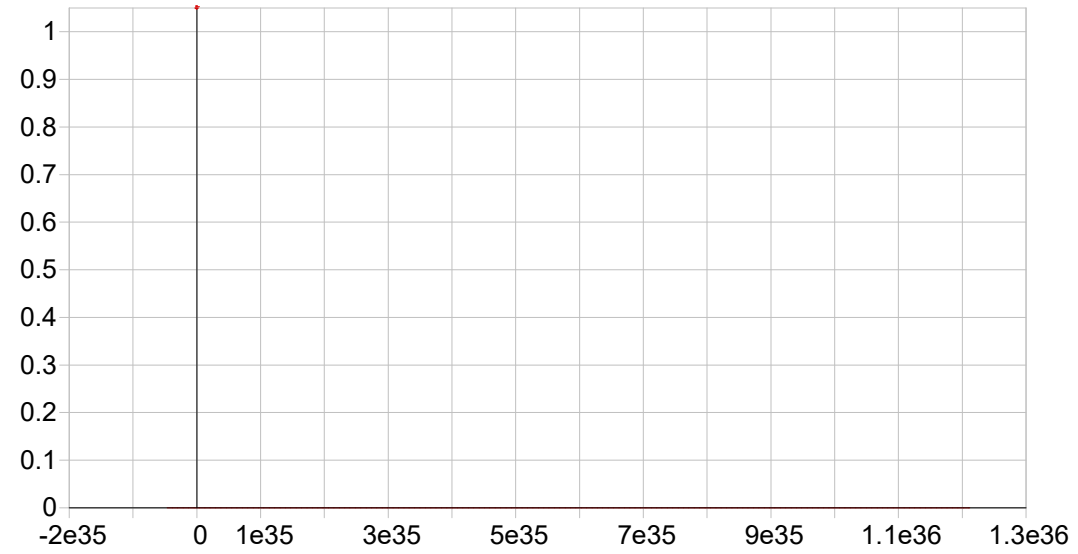
Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



Y 224.306 {450}*

Date of Fit:	12/6/2024 11:45:35	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



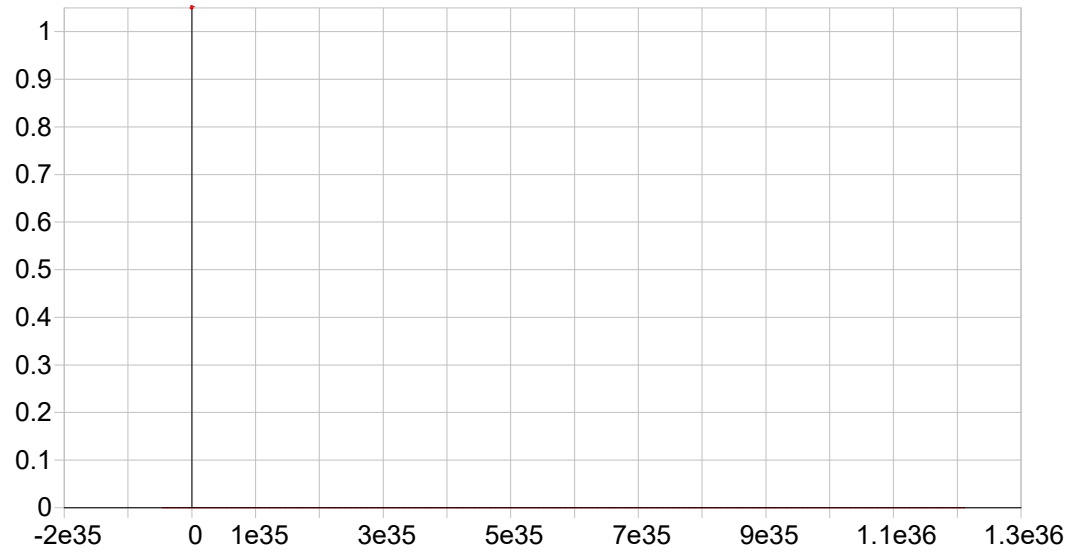
Y 360.073 { 94}*

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

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

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

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



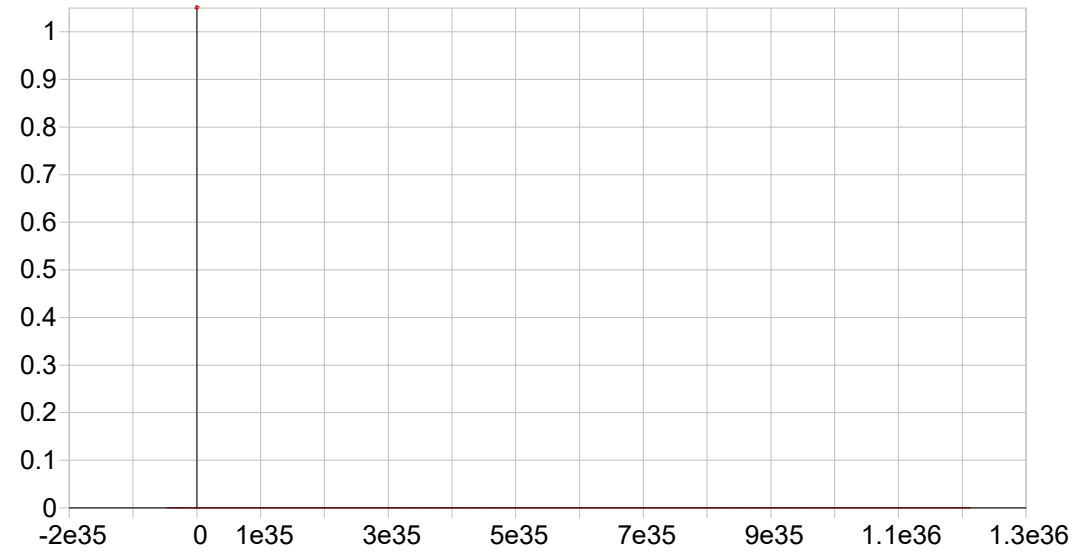
Y 371.030 { 91}*

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

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

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

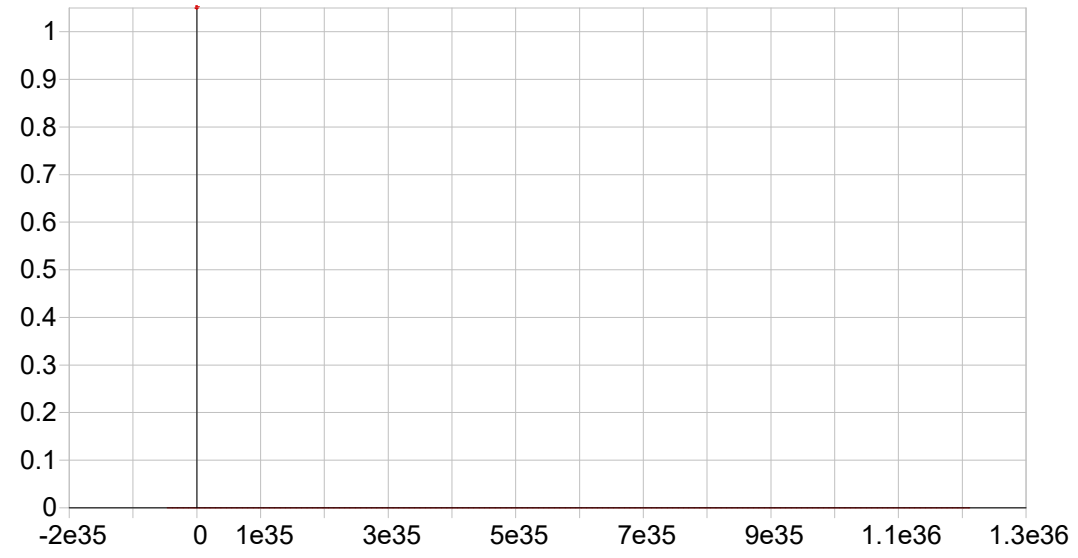
Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

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

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

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S0 Acquired: 12/6/2024 11:48:28 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**-.00022**	**-.00039**	**-.00021**	**.00050**	**.00008**	**.00032**	**-.01688**	**-.00067**
Stddev	.00002	.00004	.00004	.00012	.00000	.00014	.00255	.00021
%RSD	9.9345	10.231	19.012	24.771	5.7055	43.023	15.090	31.974
#1	-.00023	-.00040	-.00020	.00064	.00008	.00019	-.01863	-.00056
#2	-.00023	-.00034	-.00017	.00043	.00007	.00046	-.01806	-.00053
#3	-.00019	-.00042	-.00025	.00043	.00007	.00031	-.01396	-.00091

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	**-.00024**	**.00207**	**-.00001**	**-.00002**	**.00693**	**-.00000**	**-.00001**	**-.00015**
Stddev	.00005	.00027	.00003	.00014	.00027	.00001	.00001	.00003
%RSD	20.969	13.090	231.16	663.28	3.8603	518.15	150.00	17.668
#1	-.00019	.00197	.00002	.00014	.00667	.00001	-.00001	-.00016
#2	-.00025	.00237	-.00001	-.00011	.00692	-.00001	.00000	-.00017
#3	-.00029	.00185	-.00005	-.00010	.00721	-.00001	-.00002	-.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	**-.00021**	**-.00121**	**.00538**	**.00001**	**.00614**	**.00128**	**.00230**	**.00017**
Stddev	.00018	.00008	.00032	.00003	.00009	.00019	.00006	.00010
%RSD	85.908	6.4949	5.8705	333.60	1.5196	14.960	2.5719	62.027
#1	-.00038	-.00130	.00502	.00000	.00619	.00111	.00223	.00025
#2	-.00022	-.00119	.00548	-.00002	.00603	.00125	.00233	.00019
#3	-.00002	-.00115	.00563	.00004	.00620	.00148	.00234	.00005

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	**.00014**	**.00181**	**.00019**	**-.00110**	**.00018**	**.00204**	**.00016**
Stddev	.00005	.00011	.00004	.00011	.00001	.00073	.00019
%RSD	35.019	6.2799	18.694	10.036	6.8841	35.789	120.82
#1	.00013	.00189	.00018	-.00099	.00017	.00120	.00013
#2	.00010	.00168	.00024	-.00109	.00019	.00242	.00036
#3	.00019	.00187	.00017	-.00121	.00019	.00250	-.00002

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S0 Acquired: 12/6/2024 11:48:28 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	2726.8	63449.	13609.	1900.6	4609.0
Stddev	.2	69.	42.	.6	4.2
%RSD	.00862	.10823	.30855	.03160	.09168
#1	2726.5	63383.	13561.	1901.2	4604.5
#2	2727.0	63520.	13634.	1900.0	4609.9
#3	2726.8	63444.	13632.	1900.6	4612.8

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S1 Acquired: 12/6/2024 11:52:52 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**.00124**	**.00199**	**.00251**	**.00213**	**.01227**	**.00889**	**.34470**	**.02158**
Stddev	.00016	.00007	.00023	.00007	.00013	.00041	.00276	.00025
%RSD	13.312	3.5660	9.1990	3.0765	1.0804	4.5833	.80000	1.1457
#1	.00139	.00203	.00276	.00208	.01222	.00870	.34748	.02165
#2	.00127	.00191	.00231	.00211	.01217	.00861	.34464	.02178
#3	.00106	.00202	.00245	.00220	.01242	.00935	.34196	.02130

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	**.01288**	**.11126**	**.00200**	**.02558**	**.02425**	**.00055**	**.01389**	**.03243**
Stddev	.00006	.00011	.00005	.00009	.00012	.00001	.00013	.00012
%RSD	.44121	.09720	2.7294	.34498	.50394	1.9857	.92044	.37863
#1	.01282	.11123	.00206	.02548	.02412	.00056	.01390	.03229
#2	.01294	.11138	.00198	.02561	.02437	.00054	.01376	.03246
#3	.01288	.11118	.00196	.02565	.02426	.00055	.01402	.03253

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	**.02435**	**.00151**	**.06449**	**.00506**	**.14998**	**.01942**	**.04569**	**.16265**
Stddev	.00010	.00001	.00010	.00003	.00045	.00005	.00004	.00021
%RSD	.39075	.52897	.15682	.59473	.30190	.24070	.09103	.12888
#1	.02445	.00151	.06438	.00506	.14997	.01938	.04566	.16264
#2	.02426	.00152	.06452	.00503	.15044	.01947	.04574	.16245
#3	.02433	.00151	.06457	.00509	.14954	.01941	.04568	.16287

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	**.00435**	**.02368**	**.00248**	**-.00054**	**.00063**	**.02537**	**.31337**
Stddev	.00010	.00030	.00000	.00002	.00005	.00069	.00118
%RSD	2.2446	1.2511	.07589	4.6000	8.6648	2.7008	.37600
#1	.00431	.02364	.00248	-.00057	.00058	.02505	.31467
#2	.00447	.02400	.00248	-.00052	.00068	.02616	.31308
#3	.00428	.02341	.00247	-.00053	.00064	.02490	.31236

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S1 Acquired: 12/6/2024 11:52:52 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	2661.0	62452.	13516.	1900.7	4451.8
Stddev	4.9	137.	25.	4.1	6.3
%RSD	.18417	.22006	.18737	.21581	.14197
#1	2656.4	62294.	13506.	1897.5	4446.9
#2	2666.2	62545.	13498.	1905.3	4458.9
#3	2660.3	62517.	13545.	1899.2	4449.5

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S2 Acquired: 12/6/2024 11:57:15 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**.05784**	**.05027**	**.18901**	**.07422**	**.19055**	**.12781**	**5.7760**	**.14622**
Stddev	.00022	.00031	.00023	.00020	.00026	.00083	.0064	.00016
%RSD	.38708	.62251	.12073	.27165	.13396	.64780	.11058	.10894
#1	.05759	.05050	.18924	.07437	.19054	.12876	5.7834	.14635
#2	.05791	.05039	.18879	.07399	.19081	.12748	5.7717	.14626
#3	.05801	.04991	.18899	.07430	.19030	.12720	5.7731	.14604

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	**.85459**	**.21449**	**.03314**	**.34432**	**.16582**	**.00456**	**.26728**	**.05995**
Stddev	.00097	.00065	.00012	.00070	.00042	.00003	.00031	.00012
%RSD	.11314	.30524	.35998	.20275	.25388	.64700	.11621	.19893
#1	.85478	.21446	.03301	.34455	.16539	.00453	.26743	.05999
#2	.85354	.21515	.03315	.34354	.16585	.00457	.26692	.05982
#3	.85544	.21384	.03325	.34488	.16623	.00458	.26748	.06005

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	**.24632**	**.05250**	**.12260**	**.05200**	**1.4272**	**.03713**	**.33723**	**.64246**
Stddev	.00071	.00013	.00035	.00039	.0010	.00015	.00040	.00137
%RSD	.28661	.25630	.28174	.74709	.06969	.39071	.11821	.21279
#1	.24658	.05242	.12298	.05240	1.4278	.03707	.33742	.64177
#2	.24552	.05265	.12250	.05163	1.4278	.03703	.33750	.64404
#3	.24686	.05242	.12231	.05197	1.4261	.03730	.33677	.64158

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	**.08373**	**.43406**	**.00539**	**.02307**	**.01868**	**.90021**	**12.309**
Stddev	.00022	.00038	.00003	.00009	.00013	.00387	.024
%RSD	.26632	.08817	.51709	.37651	.71477	.42990	.19755
#1	.08366	.43362	.00536	.02317	.01863	.90392	12.336
#2	.08355	.43433	.00540	.02303	.01883	.89620	12.301
#3	.08398	.43422	.00541	.02301	.01858	.90052	12.289

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S2 Acquired: 12/6/2024 11:57:15 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	2667.5	62460.	13697.	1885.4	4388.1
Stddev	5.8	71.	31.	3.4	1.1
%RSD	.21904	.11361	.22366	.18296	.02397
#1	2673.5	62378.	13662.	1881.5	4389.0
#2	2661.8	62506.	13708.	1886.8	4388.3
#3	2667.1	62495.	13720.	1887.9	4386.9

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S3 Acquired: 12/6/2024 12:01:33 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	.18085	.15450	.58576	.23149	.58639	.39274	17.585	.44658
Stddev	.00017	.00169	.00055	.00044	.00232	.00019	.144	.00196
%RSD	.09336	1.0966	.09354	.19037	.39623	.04964	.82091	.43897
#1	.18068	.15539	.58630	.23184	.58451	.39292	17.420	.44508
#2	.18102	.15255	.58520	.23100	.58568	.39253	17.690	.44880
#3	.18086	.15556	.58577	.23164	.58899	.39277	17.644	.44587

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	2.6641	.64879	.10166	1.0591	.50534	.01408	.80192	.18374
Stddev	.0021	.00141	.00021	.0010	.00132	.00004	.00162	.00083
%RSD	.08037	.21698	.20379	.08964	.26181	.27301	.20232	.45327
#1	2.6666	.64717	.10149	1.0593	.50390	.01411	.80378	.18303
#2	2.6627	.64970	.10160	1.0599	.50562	.01404	.80116	.18353
#3	2.6630	.64950	.10189	1.0581	.50650	.01408	.80082	.18466

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	.75505	.16190	.37429	.15923	4.3369	.11327	1.0373	1.9694
Stddev	.00076	.00032	.00209	.00019	.0079	.00008	.0020	.0069
%RSD	.10005	.19873	.55816	.11805	.18221	.06671	.19677	.35081
#1	.75592	.16183	.37660	.15902	4.3295	.11320	1.0350	1.9634
#2	.75460	.16163	.37374	.15931	4.3359	.11335	1.0385	1.9678
#3	.75462	.16226	.37254	.15937	4.3452	.11325	1.0385	1.9770

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	.26083	1.3312	.01729	.07519	.05904	2.7127	37.181
Stddev	.00034	.0007	.00009	.00031	.00031	.0078	.047
%RSD	.13149	.05290	.54325	.41594	.52679	.28878	.12530
#1	.26109	1.3306	.01735	.07522	.05901	2.7182	37.138
#2	.26044	1.3320	.01718	.07486	.05875	2.7162	37.173
#3	.26097	1.3310	.01733	.07549	.05937	2.7037	37.231

Reviewed By:jaswal
On:12/11/2024
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Inst Id :P4
LB :LB133790

Sample Name: S3 Acquired: 12/6/2024 12:01:33 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	2593.8	60852.	13615.	1824.9	4173.5
Stddev	7.1	179.	6.	6.4	3.8
%RSD	.27194	.29383	.04216	.35261	.09046
#1	2601.1	60755.	13622.	1826.0	4175.0
#2	2593.3	61058.	13613.	1830.6	4176.3
#3	2587.0	60742.	13611.	1817.9	4169.2

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S4 Acquired: 12/6/2024 12:05:51 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**.36554**	**.30250**	**1.1621**	**.46556**	**1.1846**	**.78516**	**34.921**	**.86834**
Stddev	.00079	.00495	.0017	.00117	.0020	.00178	.431	.00227
%RSD	.21658	1.6358	.14556	.25119	.17135	.22708	1.2356	.26158
#1	.36577	.30765	1.1636	.46684	1.1862	.78487	35.306	.87096
#2	.36620	.30206	1.1602	.46530	1.1853	.78354	35.002	.86686
#3	.36466	.29778	1.1624	.46454	1.1823	.78707	34.455	.86721

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	**5.3448**	**1.2734**	**.19995**	**2.1240**	**.99731**	**.02816**	**1.5676**	**.36442**
Stddev	.0076	.0027	.00033	.0011	.00035	.00006	.0069	.00059
%RSD	.14179	.21360	.16719	.05070	.03465	.21818	.44340	.16099
#1	5.3475	1.2763	.20030	2.1248	.99728	.02820	1.5756	.36399
#2	5.3362	1.2727	.19993	2.1228	.99698	.02818	1.5640	.36508
#3	5.3507	1.2710	.19963	2.1246	.99767	.02809	1.5632	.36418

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	**1.5061**	**.32406**	**.77332**	**.31601**	**8.6246**	**.23141**	**2.0340**	**3.9152**
Stddev	.0017	.00061	.00703	.00038	.0096	.00058	.0055	.0055
%RSD	.11513	.18920	.90968	.11985	.11105	.25132	.26906	.14075
#1	1.5081	.32471	.78114	.31643	8.6150	.23208	2.0403	3.9215
#2	1.5047	.32396	.77129	.31591	8.6342	.23114	2.0301	3.9128
#3	1.5056	.32350	.76752	.31570	8.6246	.23102	2.0316	3.9113

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	**.52224**	**2.6374**	**.03532**	**.15501**	**.12091**	**5.5076**	**72.773**
Stddev	.00113	.0079	.00020	.00120	.00057	.0269	.570
%RSD	.21626	.29837	.55316	.77262	.46817	.48845	.78301
#1	.52340	2.6464	.03510	.15596	.12156	5.5318	73.138
#2	.52115	2.6320	.03546	.15540	.12064	5.4787	73.064
#3	.52217	2.6337	.03540	.15367	.12053	5.5125	72.116

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S4 Acquired: 12/6/2024 12:05:51 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**2510.6**	**59526.**	**13603.**	**1753.8**	**3984.4**
Stddev	2.9	145.	48.	2.0	6.3
%RSD	.11432	.24403	.35479	.11441	.15924
#1	2510.4	59398.	13548.	1755.3	3980.2
#2	2507.9	59496.	13625.	1751.5	3981.2
#3	2513.6	59684.	13637.	1754.5	3991.7

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S5 Acquired: 12/6/2024 12:10:03 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	**.74881**	**.59614**	**2.3164**	**.95335**	**2.4247**	**1.5829**	**69.041**	**1.6842**
Stddev	.00239	.00576	.0037	.00406	.0092	.0007	.463	.0087
%RSD	.31935	.96619	.16011	.42629	.38084	.04359	.67031	.51677
#1	.74754	.59174	2.3136	.95113	2.4206	1.5834	68.518	1.6941
#2	.74732	.59403	2.3149	.95087	2.4182	1.5821	69.397	1.6780
#3	.75157	.60266	2.3206	.95804	2.4352	1.5832	69.208	1.6804

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.707**	**2.5099**	**.39018**	**4.2825**	**1.9841**	**.05615**	**3.0893**	**.73077**
Stddev	.017	.0047	.00156	.0063	.0052	.00010	.0034	.00188
%RSD	.15737	.18821	.39952	.14646	.26215	.18216	.10975	.25677
#1	10.688	2.5150	.39195	4.2759	1.9809	.05616	3.0919	.73288
#2	10.714	2.5058	.38961	4.2834	1.9813	.05624	3.0904	.73017
#3	10.719	2.5088	.38900	4.2883	1.9901	.05604	3.0855	.72927

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	**3.0177**	**.65076**	**1.5863**	**.62700**	**16.849**	**.47783**	**3.9777**	**7.8105**
Stddev	.0040	.00042	.0048	.00048	.076	.00160	.0076	.0286
%RSD	.13274	.06467	.30056	.07666	.45128	.33567	.19203	.36674
#1	3.0131	.65125	1.5861	.62705	16.835	.47620	3.9857	7.7889
#2	3.0204	.65048	1.5912	.62650	16.932	.47941	3.9705	7.7996
#3	3.0197	.65056	1.5817	.62745	16.781	.47788	3.9769	7.8430

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	**1.0419**	**5.2572**	**.07316**	**.32102**	**.25277**	**11.169**	**140.96**
Stddev	.0016	.0044	.00034	.00106	.00076	.033	.60
%RSD	.15731	.08416	.46468	.32970	.30031	.29966	.42476
#1	1.0401	5.2597	.07278	.32086	.25192	11.131	140.32
#2	1.0422	5.2599	.07342	.32004	.25302	11.190	141.04
#3	1.0433	5.2521	.07330	.32214	.25338	11.187	141.51

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: S5 Acquired: 12/6/2024 12:10:03 Type: Cal
Method: NON EPA-6010-200.7(v2499) 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	2360.9	57482.	13409.	1652.1	3692.2
Stddev	6.0	136.	42.	12.3	7.5
%RSD	.25338	.23586	.31296	.74679	.20182
#1	2365.9	57426.	13363.	1654.2	3700.7
#2	2362.4	57383.	13416.	1638.9	3688.2
#3	2354.3	57636.	13446.	1663.3	3687.5

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICV01 Acquired: 12/6/2024 12:14:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9950069**	**1.038737**	**.9999449**	**1.028630**	**1.019173**	**2.569841**
Stddev	.0028617	.010441	.0007274	.004002	.003013	.012211
%RSD	.2876079	1.005143	.0727429	.3890846	.2956281	.4751669
#1	.9945823	1.047529	1.000375	1.029905	1.019067	2.556201
#2	.9980571	1.041486	.999105	1.031840	1.022237	2.579753
#3	.9923812	1.027197	1.000355	1.024146	1.016214	2.573570

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5157129**	**.5176569**	**.5034005**	**10.08203**	**.5262517**	**.5120550**
Stddev	.0009090	.0010968	.0008408	.01544	.0017604	.0003531
%RSD	.1762651	.2118779	.1670290	.1531862	.3345245	.0689680
#1	.5158260	.5169744	.5034715	10.09811	.5246065	.5117838
#2	.5147527	.5189221	.5025265	10.08068	.5281082	.5119268
#3	.5165601	.5170742	.5042036	10.06731	.5260403	.5124543

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5279246**	**9.869855**	**.5211655**	**5.929339**	**.5140424**	**.2530267**
Stddev	.0002850	.030712	.0020728	.026434	.0002354	.0003611
%RSD	.0539772	.3111736	.3977163	.4458142	.0457855	.1427094
#1	.5278434	9.901266	.5228964	5.959823	.5140461	.2526507
#2	.5282413	9.839892	.5188685	5.915430	.5138052	.2530584
#3	.5276891	9.868408	.5217317	5.912763	.5142758	.2533708

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.548372**	**.5127348**	**1.032034**	**9.768405**	F **.0171183**	F **.0008645**
Stddev	.023525	.0021372	.001802	.041022	.0001846	.0002317
%RSD	.2463789	.4168232	.1746177	.4199441	1.078452	26.79697
#1	9.538203	.5119341	1.034098	9.771677	.0173089	.0009795
#2	9.531642	.5111136	1.030772	9.725846	.0171057	.0010162
#3	9.575271	.5151567	1.031233	9.807693	.0169403	.0005979

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICV01 Acquired: 12/6/2024 12:14:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	F -.001003	F -.000268	F .0016140	F .0055422	F .0000184	F -.001585
Stddev	.000688	.000307	.0040285	.0007679	.0016537	.000273
%RSD	68.59483	114.5122	249.5954	13.85517	8991.099	17.22181
#1	-.000286	.000086	-.002485	.0064252	-.001224	-.001755
#2	-.001658	-.000446	.001759	.0050310	.001895	-.001730
#3	-.001065	-.000446	.005568	.0051704	-.000616	-.001270

Elem	Sr4077
Units	ppm
Avg	F -.008410
Stddev	.000012
%RSD	.1414048
#1	-.008417
#2	-.008396
#3	-.008416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2559.778	61204.47	13834.45	1784.520	4254.546
Stddev	.382	131.57	35.12	8.527	3.748
%RSD	.0149323	.2149605	.2538940	.4778404	.0881026
#1	2559.485	61072.23	13793.89	1775.295	4257.848
#2	2559.640	61335.34	13854.28	1792.114	4255.320
#3	2560.210	61205.83	13855.17	1786.150	4250.472

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LLICV01 Acquired: 12/6/2024 12:20:00 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0197574	.0401282	.0105228	.0179678	.0510959	.1047103	.0969324
Stddev	.0016683	.0019763	.0002140	.0018892	.0007199	.0051237	.0005104
%RSD	8.443734	4.924947	2.033246	10.51419	1.408942	4.893188	.5264997
#1	.0216661	.0410829	.0107088	.0201037	.0507401	.0988443	.0963998
#2	.0185779	.0378558	.0102889	.0165158	.0506232	.1069768	.0974171
#3	.0190283	.0414458	.0105705	.0172839	.0519244	.1083099	.0969803

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061992	.0059792	2.047987	.0100479	.0295078	.0221209	.0980836
Stddev	.0000459	.0000366	.004877	.0000849	.0001777	.0003021	.0031014
%RSD	.7405079	.6127171	.2381501	.8448687	.6021712	1.365481	3.161978
#1	.0061470	.0059705	2.044714	.0100289	.0295120	.0218344	.0986080
#2	.0062332	.0059476	2.053593	.0101407	.0296834	.0224364	.1008894
#3	.0062174	.0060193	2.045654	.0099741	.0293281	.0220918	.0947535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206428	2.135528	.0395155	.0105519	1.810484	.0398113	.0421728
Stddev	.0003721	.018403	.0002696	.0002891	.006134	.0006520	.0003351
%RSD	1.802700	.8617437	.6822485	2.740130	.3388003	1.637633	.7944888
#1	.0203251	2.128560	.0392208	.0102347	1.803908	.0399039	.0419749
#2	.0205511	2.121627	.0397498	.0106204	1.811493	.0404120	.0419838
#3	.0210522	2.156398	.0395761	.0108007	1.816051	.0391180	.0425596

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.892993	.1096103	.2064980	.0386066	.0398072	.3250473	.0172820
Stddev	.026283	.0002841	.0003329	.0011064	.0004682	.0074770	.0025005
%RSD	1.388412	.2591782	.1611992	2.865741	1.176147	2.300288	14.46887
#1	1.862735	.1099217	.2063649	.0373491	.0403476	.3219443	.0144522
#2	1.910148	.1093654	.2068768	.0390404	.0395516	.3196213	.0191935
#3	1.906097	.1095437	.2062523	.0394304	.0395225	.3335762	.0182004

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LLICV01 Acquired: 12/6/2024 12:20:00 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0186481	.0190730	.0208366
Stddev	.0014159	.0008382	.0000543
%RSD	7.592906	4.394694	.2606892
#1	.0178629	.0181053	.0207794
#2	.0177988	.0195718	.0208874
#3	.0202827	.0195420	.0208429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.144	62337.53	13815.33	1818.083	4469.142
Stddev	5.077	115.47	34.64	3.778	4.438
%RSD	.1931852	.1852287	.2507068	.2078179	.0993123
#1	2625.606	62291.99	13781.70	1815.335	4467.064
#2	2624.837	62468.82	13813.39	1822.392	4466.124
#3	2633.990	62251.77	13850.89	1816.522	4474.239

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICB01 Acquired: 12/6/2024 12:24:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0000253	-.000293	-.000761	-.000901	.0007179	-.002897	-.001949
Stddev	.0009467	.001024	.000053	.001988	.0002503	.005373	.000579
%RSD	3735.830	349.6381	6.986214	220.7912	34.86452	185.4472	29.70832
#1	-.001067	-.000243	-.000816	-.000789	.0008415	-.008956	-.002000
#2	.000602	.000705	-.000710	-.002942	.0008824	-.001023	-.002501
#3	.000541	-.001341	-.000758	.001030	.0004299	.001287	-.001346

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000747	.0000272	-.007974	.0000199	.0000095	-.000472	-.000292
Stddev	.0000312	.0000680	.005365	.0001304	.0001458	.000373	.002155
%RSD	41.74590	250.0801	67.28682	656.6102	1536.797	79.01908	737.7539
#1	.0000689	.0000220	-.002624	-.000102	.0001542	-.000671	.001237
#2	.0000468	.0000976	-.013355	.000157	.0000118	-.000042	.000643
#3	.0001084	-.000038	-.007943	.000005	-.000137	-.000702	-.002756

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	.0021320	.0002536	.0002897	-.024239	.0001112	-.001036
Stddev	.000206	.0090437	.0000755	.0002962	.010584	.0008309	.000355
%RSD	261.3619	424.1807	29.76968	102.2270	43.66376	747.1582	34.27853
#1	-.000277	-.005748	.0002468	.0004344	-.035854	-.000801	-.000909
#2	-.000093	.012006	.0001818	.0004858	-.021721	.000825	-.001437
#3	.000134	.000138	.0003323	-.000051	-.015141	.000310	-.000761

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.027134	.0025701	.0001850	-.000717	-.000123	-.005075	-.003040
Stddev	.005615	.0002689	.0001896	.000714	.000290	.001741	.001188
%RSD	20.69546	10.46323	102.4880	99.52676	236.6660	34.29779	39.08140
#1	-.032643	.0023176	.0001426	-.000093	-.000054	-.007019	-.002289
#2	-.021418	.0028529	.0003922	-.001496	-.000441	-.004549	-.004410
#3	-.027340	.0025400	.0000202	-.000563	.000127	-.003658	-.002421

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICB01 Acquired: 12/6/2024 12:24:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.002511**	**-.000694**	**-.000013**
Stddev	.001082	.000756	.000008
%RSD	43.10342	108.8764	64.60847
#1	-.001275	-.001553	-.000004
#2	-.002968	-.000398	-.000015
#3	-.003289	-.000131	-.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2630.432**	**62730.96**	**13713.69**	**1842.909**	**4551.111**
Stddev	2.480	127.90	33.54	9.804	3.534
%RSD	.0942910	.2038821	.2445837	.5320090	.0776587
#1	2632.978	62625.70	13675.32	1835.229	4550.209
#2	2628.023	62873.30	13728.32	1853.953	4555.009
#3	2630.293	62693.88	13737.44	1839.546	4548.115

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CRI01 Acquired: 12/6/2024 12:28:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0201963	.0413979	.0111279	.0198316	.0500760	.1045023	.0974534
Stddev	.0017517	.0006105	.0004816	.0015222	.0004341	.0018720	.0004883
%RSD	8.673097	1.474723	4.327881	7.675573	.8668846	1.791369	.5010490
#1	.0217317	.0415432	.0109969	.0187027	.0503726	.1064286	.0974077
#2	.0182883	.0419226	.0116615	.0215628	.0502777	.1043883	.0979630
#3	.0205689	.0407279	.0107254	.0192294	.0495778	.1026898	.0969896

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061969	.0058934	2.062441	.0100219	.0294539	.0220463	.0965879
Stddev	.0000545	.0000196	.004360	.0001192	.0000219	.0002535	.0029766
%RSD	.8786304	.3329655	.2114025	1.188857	.0742097	1.149838	3.081710
#1	.0062424	.0059076	2.059521	.0099660	.0294359	.0217870	.0936798
#2	.0061366	.0058710	2.060350	.0101587	.0294782	.0220583	.0964553
#3	.0062116	.0059016	2.067453	.0099409	.0294475	.0222936	.0996285

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209596	2.156755	.0399791	.0102858	1.810461	.0402960	.0424250
Stddev	.0002611	.010422	.0002380	.0000914	.004317	.0004720	.0002633
%RSD	1.245573	.4832234	.5954233	.8883905	.2384321	1.171310	.6207488
#1	.0206582	2.145625	.0400068	.0101838	1.808221	.0400719	.0427249
#2	.0211073	2.166284	.0397284	.0103603	1.815437	.0408382	.0422316
#3	.0211134	2.158355	.0402021	.0103131	1.807724	.0399777	.0423185

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.909635	.1046205	.2075951	.0392162	.0399823	.3276935	.0157701
Stddev	.015574	.0012230	.0002234	.0008271	.0006459	.0023233	.0000421
%RSD	.8155704	1.169006	.1076037	2.109148	1.615600	.7089847	.2667196
#1	1.901684	.1054938	.2073728	.0397868	.0406016	.3292681	.0157218
#2	1.899640	.1051449	.2078196	.0395942	.0400327	.3250251	.0157893
#3	1.927580	.1032227	.2075930	.0382676	.0393126	.3287871	.0157991

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CRI01 Acquired: 12/6/2024 12:28:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0176617	.0190053	.0208996
Stddev	.0013953	.0004148	.0000993
%RSD	7.900256	2.182674	.4751635
#1	.0165653	.0185448	.0208044
#2	.0171873	.0193496	.0210025
#3	.0192323	.0191215	.0208918

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2623.061	62651.80	13838.39	1840.801	4469.738
Stddev	4.942	24.18	34.59	1.314	6.147
%RSD	.1884121	.0385967	.2499434	.0713570	.1375191
#1	2626.130	62626.00	13847.81	1841.926	4476.799
#2	2617.359	62673.95	13800.07	1841.120	4465.583
#3	2625.693	62655.45	13867.29	1839.358	4466.832

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSA01 Acquired: 12/6/2024 12:50:59 Type: Unk
Method: NON EPA-6010-200.7(v2500) 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	.0063854	-.002739	.0119258	-.018612	-.002001	266.5186
Stddev	.0033028	.001724	.0036034	.001451	.001288	.7309
%RSD	51.72429	62.95691	30.21493	7.794018	64.33635	.2742523
#1	.0094744	-.004194	.0146562	-.020254	-.003339	265.6864
#2	.0067779	-.000835	.0132797	-.018078	-.001894	267.0565
#3	.0029039	-.003187	.0078416	-.017505	-.000771	266.8129

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018154	.0014751	.0043327	249.8535	.0583485	.0024317
Stddev	.0001730	.0000786	.0001223	.3661	.0005579	.0001563
%RSD	9.527467	5.327302	2.823242	.1465126	.9562160	6.425755
#1	.0016177	.0013864	.0042850	249.6284	.0586934	.0022514
#2	.0019387	.0015030	.0044717	249.6563	.0577048	.0025147
#3	.0018898	.0015359	.0042414	250.2759	.0586473	.0025289

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000591	100.8494	.0048669	272.7946	.0328801	-.001234
Stddev	.000253	.1015	.0003964	.4506	.0004125	.000325
%RSD	42.85432	.1006465	8.143914	.1651949	1.254609	26.33863
#1	-.000308	100.8687	.0044702	273.0765	.0326809	-.001604
#2	-.000796	100.9399	.0052629	272.2748	.0333544	-.000997
#3	-.000671	100.7397	.0048677	273.0324	.0326050	-.001100

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1198943	.0083412	-.006247	.0140736	.0284579	-.000568
Stddev	.0185452	.0008590	.000551	.0300609	.0001910	.000423
%RSD	15.46796	10.29892	8.813736	213.5974	.6711721	74.40550
#1	.1024381	.0091851	-.005682	-.020633	.0282532	-.000136
#2	.1178808	.0074677	-.006278	.031900	.0286313	-.000981
#3	.1393641	.0083707	-.006782	.030954	.0284891	-.000588

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSA01 Acquired: 12/6/2024 12:50:59 Type: Unk
Method: NON EPA-6010-200.7(v2500) 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	-.004676	-.001326	.0149330	.0099043	-.010352	F -.042326
Stddev	.000862	.000317	.0035167	.0030890	.002167	.000349
%RSD	18.43248	23.93306	23.55013	31.18797	20.93821	.8233658
#1	-.005669	-.001166	.0182420	.0067056	-.010715	-.041947
#2	-.004230	-.001691	.0153170	.0128703	-.012314	-.042400
#3	-.004128	-.001120	.0112400	.0101372	-.008025	-.042632

Elem	Sr4077
Units	ppm
Avg	.0050121
Stddev	.0003446
%RSD	6.875707
#1	.0049978
#2	.0046749
#3	.0053637

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2238.902	53075.65	12894.81	1529.947	3409.916
Stddev	3.345	146.79	5.48	2.091	7.888
%RSD	.1493833	.2765608	.0424993	.1366437	.2313348
#1	2235.912	52928.51	12896.84	1529.764	3403.554
#2	2242.514	53076.36	12898.98	1532.123	3418.742
#3	2238.279	53222.08	12888.60	1527.954	3407.452

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSAB01 Acquired: 12/6/2024 12:55:37 Type: Unk
Method: NON EPA-6010-200.7(v2501) 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	.1059221	.0813965	.0605307	.0330611	.6084385	264.3929
Stddev	.0034553	.0022020	.0015122	.0019710	.0032580	.6576
%RSD	3.262159	2.705287	2.498289	5.961599	.5354672	.2487206
#1	.1023155	.0799463	.0611061	.0343692	.6060721	264.4402
#2	.1092032	.0803129	.0588152	.0307942	.6070891	263.7129
#3	.1062476	.0839304	.0616707	.0340199	.6121544	265.0256

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5007856	.5067591	1.008522	245.5568	.5613862	.5084212
Stddev	.0007624	.0015132	.001264	.3083	.0015857	.0010860
%RSD	.1522398	.2985984	.1253184	.1255328	.2824689	.2136085
#1	.5016006	.5082893	1.008851	245.2185	.5620442	.5093958
#2	.5000898	.5052636	1.009588	245.6302	.5595773	.5086173
#3	.5006666	.5067245	1.007126	245.8217	.5625370	.5072505

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4859634	99.23169	.4945183	267.9322	1.030547	.1963589
Stddev	.0021362	.24412	.0008962	.6552	.001539	.0006850
%RSD	.4395757	.2460079	.1812226	.2445439	.1493192	.3488267
#1	.4854381	98.99002	.4938786	267.1963	1.029249	.1963172
#2	.4841389	99.47818	.4955426	268.1481	1.032247	.1956957
#3	.4883132	99.22687	.4941337	268.4522	1.030146	.1970637

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1040701	.5013904	.9420485	-.035493	F .0255190	F -.000038
Stddev	.0153071	.0007554	.0019592	.026692	.0003536	.000499
%RSD	14.70843	.1506528	.2079756	75.20350	1.385676	1310.018
#1	.0884675	.5007704	.9399279	-.060253	.0253110	.000035
#2	.1046794	.5011691	.9437912	-.039011	.0253187	-.000570
#3	.1190635	.5022317	.9424266	-.007217	.0259273	.000420

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSAB01 Acquired: 12/6/2024 12:55:37 Type: Unk
Method: NON EPA-6010-200.7(v2501) 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 -.003845	F -.002145	F .0065975	F .0158147	F -.008894	F -.041752
Stddev	.001683	.000177	.0053558	.0030141	.001734	.000542
%RSD	43.77436	8.229233	81.17849	19.05901	19.50009	1.297333
#1	-.004807	-.002182	.0010983	.0189261	-.010227	-.041333
#2	-.001901	-.002300	.0068971	.0129084	-.009523	-.042363
#3	-.004826	-.001953	.0117973	.0156094	-.006933	-.041559

Elem	Sr4077
Units	ppm
Avg	F .0056664
Stddev	.0002544
%RSD	4.489452
#1	.0059365
#2	.0054313
#3	.0056314

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.778	53242.00	12980.13	1521.910	3404.036
Stddev	8.481	158.59	14.90	4.069	1.801
%RSD	.3829102	.2978625	.1148195	.2673624	.0529175
#1	2217.335	53383.28	12987.69	1526.172	3405.882
#2	2221.686	53070.46	12962.96	1518.066	3403.942
#3	2205.313	53272.26	12989.74	1521.491	3402.283

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSADLX20 Acquired: 12/6/2024 13:00:39 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.001618**	**-.000577**	**-.000760**	**-.000571**	**-.000399**	**12.46810**	**-.003077**
Stddev	.001221	.000413	.000413	.001655	.000676	.01442	.000395
%RSD	75.47271	71.50182	54.41643	289.8103	169.5207	.1156661	12.84597
#1	-.000682	-.000101	-.000944	-.002022	-.000739	12.48473	-.002825
#2	-.001172	-.000807	-.001048	-.000922	.000380	12.46066	-.002874
#3	-.002999	-.000825	-.000286	.001231	-.000837	12.45893	-.003533

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001709**	**.0001369**	**12.29117**	**.0029441**	**.0001721**	**.0000233**	**4.823142**
Stddev	.0000302	.0000256	.00222	.0000887	.0000854	.0004529	.015095
%RSD	17.65777	18.67515	.0180800	3.013338	49.64014	1946.584	.3129640
#1	.0002042	.0001287	12.29365	.0028438	.0002427	.0002662	4.808951
#2	.0001632	.0001165	12.28936	.0029760	.0001965	-.000499	4.821473
#3	.0001453	.0001656	12.29051	.0030124	.0000771	.000303	4.839002

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001265**	**12.59746**	**.0015733**	**.0004712**	**.0237593**	**.0001641**	**.0066109**
Stddev	.0001699	.01047	.0002686	.0002709	.0094821	.0006002	.0002950
%RSD	134.3389	.0831405	17.06987	57.48942	39.90911	365.8484	4.462365
#1	-.000068	12.58537	.0014300	.0005350	.0128951	.0001627	.0064123
#2	.000204	12.60390	.0014067	.0001741	.0303690	-.000435	.0069499
#3	.000244	12.60310	.0018831	.0007045	.0280140	.000765	.0064705

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.082883**	**-.002038**	**.0000606**	**-.001168**	**-.000126**	**.0028389**	**-.000528**
Stddev	.015638	.000289	.0001937	.000435	.000335	.0022601	.002015
%RSD	18.86762	14.19451	319.5562	37.27801	265.5930	79.61192	381.9478
#1	-.086324	-.001793	.0002835	-.001000	-.000512	.0054452	-.001222
#2	-.096515	-.001965	-.000035	-.001662	.000089	.0016495	-.002104
#3	-.065811	-.002357	-.000067	-.000842	.000045	.0014218	.001743

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSADLX20 Acquired: 12/6/2024 13:00:39 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.001399**	**-.003075**	**.0003358**
Stddev	.002458	.000369	.0000527
%RSD	175.7183	11.99668	15.69576
#1	-.002319	-.003436	.0003829
#2	.001386	-.002698	.0002789
#3	-.003264	-.003090	.0003457

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2559.546**	**60663.29**	**13746.54**	**1757.232**	**4279.929**
Stddev	7.242	93.62	50.57	4.266	5.448
%RSD	.2829293	.1543194	.3678670	.2427453	.1272938
#1	2564.901	60557.25	13689.20	1752.573	4283.341
#2	2562.430	60734.49	13765.68	1760.947	4282.800
#3	2551.306	60698.13	13784.75	1758.175	4273.646

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSABDLX20 Acquired: 12/6/2024 13:04:56 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0053292	.0040052	.0024986	.0029592	.0289567	12.68437	.0220010
Stddev	.0005051	.0005618	.0003095	.0006637	.0008168	.01260	.0002140
%RSD	9.477210	14.02653	12.38838	22.42917	2.820772	.0992977	.9725497
#1	.0054074	.0037929	.0022066	.0026880	.0298811	12.69042	.0217540
#2	.0057907	.0046422	.0028231	.0024740	.0286562	12.66990	.0221196
#3	.0047897	.0035804	.0024661	.0037156	.0283326	12.69281	.0221294

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263245	.0505586	12.50434	.0292528	.0252048	.0261039	4.867997
Stddev	.0001959	.0001981	.06253	.0002123	.0001419	.0004415	.016522
%RSD	.7440318	.3918759	.5000715	.7258489	.5630204	1.691219	.3393934
#1	.0262514	.0503449	12.47868	.0290697	.0250971	.0264311	4.869389
#2	.0261757	.0507361	12.45873	.0292032	.0251518	.0256018	4.850823
#3	.0265464	.0505949	12.57562	.0294856	.0253656	.0262789	4.883779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255702	12.87197	.0524531	.0096538	.0260082	.0255962	.0599401
Stddev	.0002569	.06893	.0003218	.0002170	.0074765	.0010123	.0003212
%RSD	1.004602	.5354789	.6135939	2.248096	28.74674	3.954994	.5359417
#1	.0252899	12.80073	.0523613	.0094355	.0183687	.0259280	.0603108
#2	.0257944	12.87686	.0528108	.0098695	.0263457	.0264010	.0597672
#3	.0256262	12.93833	.0521870	.0096565	.0333103	.0244596	.0597423

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.069083	-.001837	.0000726	-.001031	.0001386	-.001186	-.000733
Stddev	.013857	.000349	.0001591	.000072	.0000909	.003069	.001170
%RSD	20.05806	18.96945	219.2010	7.011499	65.53578	258.6971	159.6319
#1	-.084884	-.002232	.0001520	-.001019	.0001700	.000446	.000113
#2	-.059004	-.001572	-.000111	-.000966	.0002097	.000722	-.000244
#3	-.063360	-.001708	.000176	-.001109	.0000363	-.004726	-.002068

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: ICSABDLX20 Acquired: 12/6/2024 13:04:56 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0007419	-.003215	.0003585
Stddev	.0026330	.000093	.0000137
%RSD	354.9187	2.903302	3.821641
#1	-.000581	-.003163	.0003633
#2	.003774	-.003159	.0003691
#3	-.000968	-.003323	.0003430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.990	60582.70	13675.34	1760.355	4241.477
Stddev	6.313	179.48	38.22	14.010	2.148
%RSD	.2475821	.2962560	.2795159	.7958600	.0506346
#1	2543.795	60405.40	13646.30	1747.068	4239.359
#2	2556.415	60578.42	13718.64	1759.006	4243.653
#3	2549.760	60764.28	13661.07	1774.990	4241.419

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV01 Acquired: 12/6/2024 13:09:11 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**5.005538**	**5.054725**	**5.015509**	**5.058872**	**4.950787**	**10.04433**	**9.798900**
Stddev	.015915	.043344	.004444	.020971	.014751	.03133	.066203
%RSD	.3179491	.8574958	.0886047	.4145346	.2979559	.3118767	.6756216
#1	4.993868	5.103353	5.019310	5.063379	4.942412	10.01468	9.722456
#2	4.999078	5.040671	5.016595	5.036014	4.942129	10.07709	9.837420
#3	5.023667	5.020153	5.010623	5.077223	4.967819	10.04121	9.836824

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2491318**	**2.516681**	**24.74840**	**1.022059**	**2.509178**	**1.275389**	**4.942168**
Stddev	.0008747	.002745	.05478	.000151	.001560	.005217	.013297
%RSD	.3511085	.1090783	.2213596	.0148012	.0621568	.4090849	.2690492
#1	.2485789	2.519686	24.68520	1.021912	2.510979	1.273338	4.942060
#2	.2501403	2.514305	24.77751	1.022051	2.508235	1.271509	4.955518
#3	.2486762	2.516052	24.78247	1.022215	2.508321	1.281320	4.928925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.441746**	**24.78151**	**2.513097**	**1.248762**	**24.25260**	**2.500861**	**2.553939**
Stddev	.006471	.08560	.001473	.000553	.13059	.005470	.010461
%RSD	.2649954	.3454223	.0586315	.0442939	.5384431	.2187338	.4096132
#1	2.437243	24.70740	2.514771	1.248864	24.39215	2.494703	2.563830
#2	2.449161	24.76193	2.511997	1.248165	24.23230	2.502720	2.542988
#3	2.438834	24.87521	2.512524	1.249257	24.13335	2.505160	2.554999

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.73519**	**4.923375**	**5.111328**	**5.014973**	**4.925971**	**5.031279**	**4.997046**
Stddev	.01825	.016656	.013486	.009751	.013523	.016709	.023921
%RSD	.0737916	.3383126	.2638527	.1944363	.2745223	.3321031	.4787048
#1	24.71456	4.917144	5.112811	5.023659	4.912595	5.012035	5.021356
#2	24.74180	4.942248	5.097162	5.016835	4.939636	5.042108	4.996248
#3	24.74922	4.910732	5.124012	5.004426	4.925680	5.039693	4.973534

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV01 Acquired: 12/6/2024 13:09:11 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**4.932878**	**4.878441**	**4.985567**
Stddev	.011247	.015268	.018288
%RSD	.2280064	.3129707	.3668204
#1	4.945806	4.872037	4.995374
#2	4.925340	4.895868	4.996860
#3	4.927489	4.867418	4.964467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2397.342**	**57389.84**	**13378.23**	**1636.538**	**3839.920**
Stddev	9.982	114.65	27.50	8.163	7.507
%RSD	.4163771	.1997707	.2055222	.4988193	.1954965
#1	2400.539	57262.93	13386.58	1629.265	3840.803
#2	2405.333	57485.93	13347.54	1645.368	3846.946
#3	2386.153	57420.67	13400.60	1634.982	3832.010

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB01 Acquired: 12/6/2024 13:13:22 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0003873	-.000809	-.000342	-.000897	.0025424	.0047262	-.003306
Stddev	.0013453	.000414	.000709	.001640	.0010663	.0013887	.000301
%RSD	347.3974	51.13013	206.9574	182.8695	41.94056	29.38348	9.110529
#1	.0007804	-.001192	-.001121	-.002786	.0033889	.0036288	-.003152
#2	-.001111	-.000864	.000265	.000163	.0028934	.0062875	-.003113
#3	.001492	-.000371	-.000171	-.000067	.0013448	.0042622	-.003653

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000496	.0000819	.0056747	.0001199	-.000042	-.000045	-.001311
Stddev	.0000304	.0000374	.0040675	.0001316	.000210	.000163	.002423
%RSD	61.22673	45.70448	71.67782	109.7083	496.4624	362.2307	184.9066
#1	.0000280	.0000528	.0046658	.0000055	.000013	-.000225	.001487
#2	.0000844	.0000688	.0022066	.0000906	.000134	-.000004	-.002742
#3	.0000365	.0001242	.0101517	.0002637	-.000274	.000094	-.002677

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001391	-.001924	.0001516	.0003660	-.018926	.0002725	-.000743
Stddev	.0000913	.006387	.0001549	.0001604	.007189	.0010204	.000109
%RSD	65.60471	331.9341	102.2069	43.82366	37.98718	374.5050	14.67319
#1	.0001957	.004977	-.000013	.0003814	-.026969	.0003428	-.000673
#2	.0000338	-.003122	.000294	.0005181	-.016686	.0012559	-.000686
#3	.0001878	-.007627	.000174	.0001984	-.013124	-.000781	-.000868

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.085436	.0031635	.0005602	-.000237	.0003746	.0022959	-.003111
Stddev	.005787	.0008540	.0000928	.000549	.0002374	.0055048	.001558
%RSD	6.774034	26.99595	16.57188	232.2330	63.36872	239.7645	50.10182
#1	-.087854	.0032695	.0005994	.000348	.0002783	.0057368	-.004892
#2	-.089623	.0039596	.0006270	-.000316	.0002005	.0052039	-.002442
#3	-.078832	.0022614	.0004542	-.000742	.0006450	-.004053	-.001998

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB01 Acquired: 12/6/2024 13:13:22 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.002629	-.000999	.0000787
Stddev	.001614	.000699	.0000206
%RSD	61.37778	69.98563	26.22550
#1	-.004276	-.001616	.0000623
#2	-.002561	-.001142	.0001018
#3	-.001051	-.000239	.0000719

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.299	61457.50	13697.25	1772.695	4477.651
Stddev	2.173	44.99	18.32	7.653	2.170
%RSD	.0842295	.0732025	.1337797	.4317253	.0484628
#1	2580.977	61431.39	13695.49	1764.316	4475.236
#2	2582.052	61431.67	13679.88	1779.317	4479.437
#3	2577.867	61509.45	13716.40	1774.451	4478.280

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165393BL Acquired: 12/6/2024 13:17:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0014470	.0008959	.0000788	.0018095	.0012197	.0014824	-.003185
Stddev	.0002523	.0029674	.0004052	.0009612	.0001342	.0016359	.000368
%RSD	17.43433	331.2240	514.0006	53.11931	11.00506	110.3569	11.55506
#1	.0011560	-.001465	-.000197	.0009480	.0013483	.0029656	-.003423
#2	.0016038	.004227	-.000111	.0028462	.0012301	-.000272	-.003371
#3	.0015812	-.000075	.000544	.0016342	.0010805	.001754	-.002761

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002649	.0002578	.0117292	.0004886	.0002919	.0000716	.0045312
Stddev	.0000489	.0000364	.0035850	.0002387	.0001375	.0002316	.0035594
%RSD	18.44493	14.11150	30.56478	48.85766	47.10691	323.3528	78.55280
#1	.0003176	.0002764	.0099368	.0006844	.0003301	.0001754	.0085249
#2	.0002560	.0002158	.0093939	.0005587	.0004062	-.000194	.0033748
#3	.0002211	.0002811	.0158569	.0002227	.0001393	.000233	.0016938

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001209	.0069856	.0006277	.0007348	-.012655	.0006485	.0008882
Stddev	.0001961	.0068030	.0000496	.0001762	.007268	.0010181	.0001398
%RSD	162.2094	97.38687	7.900381	23.97554	57.43390	157.0006	15.73964
#1	.0000313	.0035176	.0005730	.0008977	-.021005	-.000483	.0007297
#2	-.000014	.0148237	.0006698	.0005478	-.009209	.001491	.0009939
#3	.000346	.0026154	.0006403	.0007588	-.007750	.000938	.0009410

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.054090	.0001053	.0005813	-.000030	.0003292	.0030489	.0056016
Stddev	.009717	.0001468	.0001211	.000764	.0008536	.0072897	.0014257
%RSD	17.96418	139.4397	20.83398	2573.924	259.2865	239.0939	25.45170
#1	-.047888	-.000010	.0004435	.000616	.0013032	.0044889	.0072248
#2	-.065289	.000271	.0006295	.000169	-.000027	-.004853	.0045526
#3	-.049094	.000055	.0006708	-.000873	-.000288	.009511	.0050273

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165393BL Acquired: 12/6/2024 13:17:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.000708	-.001139	.0002457
Stddev	.001059	.000527	.0000323
%RSD	149.5177	46.24949	13.15248
#1	.000434	-.001746	.0002822
#2	-.001658	-.000857	.0002207
#3	-.000901	-.000813	.0002342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.192	61451.45	13740.65	1743.345	4481.918
Stddev	8.109	162.35	31.17	5.906	12.458
%RSD	.3144045	.2641969	.2268205	.3387821	.2779695
#1	2574.470	61513.14	13707.08	1744.673	4471.669
#2	2574.551	61573.91	13768.66	1748.474	4478.301
#3	2588.555	61267.29	13746.21	1736.888	4495.785

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165393BS Acquired: 12/6/2024 13:22:04 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.7406467**	**1.984188**	**.9502460**	**1.863648**	**.7421918**	**1.956336**
Stddev	.0017407	.013955	.0010834	.006447	.0022757	.007227
%RSD	.2350207	.7032916	.1140114	.3459478	.3066175	.3694077
#1	.7426566	1.998657	.9509223	1.868391	.7407821	1.948280
#2	.7396435	1.983096	.9508193	1.866246	.7409762	1.958480
#3	.7396399	1.970812	.9489964	1.856307	.7448172	1.962248

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1896989**	**.2056008**	**.1907559**	**1.032822**	**.4004463**	**.1934634**
Stddev	.0007150	.0000702	.0003077	.006390	.0008048	.0003330
%RSD	.3769134	.0341233	.1613058	.6187256	.2009841	.1721191
#1	.1891947	.2055207	.1909013	1.033185	.4007338	.1938303
#2	.1905171	.2056514	.1904024	1.039024	.3995372	.1933795
#3	.1893847	.2056304	.1909639	1.026258	.4010679	.1931803

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3026029**	**2.836405**	**.2005194**	**1.967064**	**.4867157**	**.0724213**
Stddev	.0002737	.003338	.0004387	.008679	.0003325	.0002649
%RSD	.0904555	.1176928	.2187865	.4412321	.0683095	.3658255
#1	.3028488	2.837678	.2002981	1.957745	.4863532	.0727234
#2	.3023080	2.838920	.2010247	1.968530	.4870064	.0722284
#3	.3026520	2.832618	.2002355	1.974917	.4867874	.0723122

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.575046**	**.2982491**	**.2014354**	**8.939354**	**.2938099**	**.3944048**
Stddev	.017319	.0005981	.0009460	.038445	.0008029	.0011569
%RSD	.6725874	.2005195	.4696332	.4300657	.2732626	.2933410
#1	2.568830	.2987352	.2011495	8.938890	.2935096	.3953148
#2	2.594616	.2975813	.2006652	8.978029	.2947197	.3947968
#3	2.561693	.2984307	.2024913	8.901143	.2932006	.3931028

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165393BS Acquired: 12/6/2024 13:22:04 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.6653550	.1936412	F .6707269	5.500257	F -.011324	.1974257
Stddev	.0009836	.0007259	.0013895	.015905	.001499	.0009980
%RSD	.1478302	.3748908	.2071610	.2891617	13.23666	.5054833
#1	.6649107	.1930008	.6699200	5.491561	-.009675	.1962754
#2	.6664824	.1944298	.6723313	5.490596	-.011693	.1980602
#3	.6646719	.1934930	.6699294	5.518613	-.012604	.1979415

Elem	Sr4077
Units	ppm
Avg	.2008256
Stddev	.0007192
%RSD	.3581001
#1	.2002704
#2	.2016380
#3	.2005685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2655.983	62402.06	13551.78	1828.515	4425.084
Stddev	6.436	127.84	13.92	9.557	4.617
%RSD	.2423295	.2048612	.1027487	.5226763	.1043428
#1	2650.057	62271.49	13545.46	1824.656	4420.584
#2	2655.062	62526.98	13567.74	1839.398	4424.856
#3	2662.830	62407.72	13542.13	1821.491	4429.810

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165328BL Acquired: 12/6/2024 13:26:06 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.001517**	**-.000299**	**-.000742**	**-.000813**	**.0007363**	**-.000733**	**-.001150**
Stddev	.001067	.001320	.000524	.000562	.0007317	.001128	.000547
%RSD	70.33951	441.0277	70.65795	69.08820	99.38264	153.7351	47.61062
#1	-.002518	-.000057	-.000212	-.001441	.0002287	.000566	-.001301
#2	-.000394	.000883	-.000754	-.000637	.0015750	-.001309	-.000543
#3	-.001639	-.001723	-.001260	-.000360	.0004051	-.001457	-.001606

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000655**	**.0000392**	**-.008010**	**-.000013**	**.0000548**	**-.000303**	**.0020337**
Stddev	.0000139	.0000519	.002739	.000026	.0000693	.000292	.0013412
%RSD	21.20819	132.4509	34.19361	203.4553	126.5151	96.41283	65.94921
#1	.0000664	.0000502	-.010992	.000016	.0000753	-.000576	.0013818
#2	.0000512	.0000845	-.005606	-.000020	.0001115	.000005	.0011430
#3	.0000789	-.000017	-.007433	-.000034	-.000022	-.000338	.0035762

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000145**	**-.006027**	**.0000850**	**.0002198**	**-.030483**	**-.000302**	**-.000890**
Stddev	.000050	.008230	.0001044	.0002459	.012319	.000321	.000048
%RSD	34.45114	136.5450	122.8581	111.8864	40.41259	106.6284	5.423305
#1	-.000101	-.014610	.0000320	.0004993	-.044593	-.000571	-.000940
#2	-.000135	-.005268	.0002053	.0000371	-.024991	.000054	-.000843
#3	-.000200	.001797	.0000177	.0001228	-.021865	-.000387	-.000887

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.099658**	**-.001183**	**.0000570**	**-.000671**	**.0004561**	**-.002661**	**.0000559**
Stddev	.007732	.000252	.0000677	.000243	.0001773	.001286	.0010271
%RSD	7.759006	21.33653	118.8405	36.23689	38.87892	48.32500	1837.162
#1	-.095182	-.001287	.0000753	-.000706	.0006396	-.004143	-.000405
#2	-.095206	-.000895	.0001136	-.000895	.0004431	-.001995	.001233
#3	-.108587	-.001366	-.000018	-.000412	.0002856	-.001845	-.000660

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165328BL Acquired: 12/6/2024 13:26:06 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.002457	-.000560	-.000006
Stddev	.003442	.000300	.000026
%RSD	140.1116	53.62365	454.9624
#1	-.002314	-.000214	.000005
#2	-.005968	-.000708	.000013
#3	.000912	-.000757	-.000035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.034	62909.27	13706.76	1840.643	4576.582
Stddev	2.771	67.52	16.12	5.511	3.925
%RSD	.1038076	.1073361	.1175980	.2993866	.0857692
#1	2671.317	62969.82	13689.38	1842.879	4577.377
#2	2669.832	62836.45	13721.22	1844.684	4580.049
#3	2665.951	62921.53	13709.66	1834.366	4572.320

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165328BS Acquired: 12/6/2024 13:30:26 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.7478421**	**1.986322**	**.9532483**	**1.891968**	**.7464472**	**1.959721**
Stddev	.0010838	.015668	.0003859	.006720	.0023539	.008889
%RSD	.1449206	.7887796	.0404825	.3551764	.3153453	.4535649
#1	.7465989	2.004184	.9532255	1.888542	.7451410	1.956140
#2	.7483396	1.974904	.9528743	1.887653	.7491646	1.953181
#3	.7485879	1.979877	.9536451	1.899711	.7450360	1.969841

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1898165**	**.2043253**	**.1920607**	**1.030284**	**.4032203**	**.1942599**
Stddev	.0004301	.0002647	.0000702	.005846	.0005638	.0002825
%RSD	.2265838	.1295679	.0365677	.5673862	.1398339	.1454062
#1	.1897979	.2042793	.1920065	1.034973	.4026250	.1944723
#2	.1902555	.2046100	.1920356	1.032145	.4032897	.1939393
#3	.1893959	.2040866	.1921400	1.023734	.4037462	.1943681

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3061117**	**2.853449**	**.2000853**	**1.965182**	**.4881183**	**.0727368**
Stddev	.0006755	.001362	.0001529	.003502	.0003232	.0002794
%RSD	.2206828	.0477484	.0764067	.1781917	.0662037	.3840949
#1	.3053568	2.852586	.1999189	1.963654	.4884853	.0725403
#2	.3066594	2.852741	.2002196	1.962705	.4878761	.0730566
#3	.3063188	2.855019	.2001174	1.969189	.4879936	.0726134

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.599639**	**.2998434**	**.2033389**	**9.017457**	**.2904084**	**.3977952**
Stddev	.006045	.0017898	.0009927	.008065	.0003571	.0004407
%RSD	.2325295	.5969205	.4881867	.0894407	.1229641	.1107854
#1	2.604957	.2978824	.2021936	9.009099	.2902678	.3983039
#2	2.593065	.3013889	.2039515	9.018079	.2901430	.3975542
#3	2.600894	.3002590	.2038717	9.025193	.2908144	.3975276

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165328BS Acquired: 12/6/2024 13:30:26 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.6626915	.1924930	F .6812194	5.518928	F -.010043	.1985002
Stddev	.0014040	.0002465	.0042814	.022355	.001014	.0008144
%RSD	.2118675	.1280790	.6284873	.4050605	10.10167	.4102972
#1	.6633341	.1924719	.6781298	5.542105	-.010428	.1980998
#2	.6636592	.1922577	.6794219	5.517184	-.008892	.1994374
#3	.6610812	.1927494	.6861065	5.497497	-.010808	.1979635

Elem	Sr4077
Units	ppm
Avg	.2008953
Stddev	.0001564
%RSD	.0778734
#1	.2008136
#2	.2010757
#3	.2007967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2613.879	61895.88	13582.74	1790.198	4378.900
Stddev	4.877	98.24	27.86	4.764	5.931
%RSD	.1865989	.1587102	.2051414	.2660974	.1354521
#1	2618.365	61782.82	13558.19	1784.889	4380.795
#2	2614.585	61944.49	13577.00	1794.099	4383.652
#3	2608.687	61960.34	13613.03	1791.605	4372.253

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5026-05 Acquired: 12/6/2024 13:34:28 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0049194**	**-.008435**	**.0236194**	**-.012173**	**-.000145**	**34.51461**
Stddev	.0013827	.003270	.0009458	.000796	.000417	.08307
%RSD	28.10747	38.76533	4.004206	6.540193	287.5603	.2406805
#1	.0034326	-.005310	.0244433	-.011282	.000329	34.41972
#2	.0051589	-.011833	.0225867	-.012425	-.000308	34.54997
#3	.0061667	-.008163	.0238283	-.012813	-.000457	34.57416

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1140456**	**.0025789**	**.0024945**	**37.88453**	**.0809504**	**.0418622**
Stddev	.0003621	.0000730	.0001171	.07446	.0004708	.0003806
%RSD	.3175249	2.830021	4.692819	.1965419	.5816406	.9091781
#1	.1136773	.0026631	.0025619	37.85636	.0813983	.0416059
#2	.1144012	.0025395	.0023593	37.96896	.0809933	.0416812
#3	.1140584	.0025341	.0025622	37.82826	.0804595	.0422995

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0772856**	**73.30130**	**.8763200**	**32.33976**	**.0878316**	**-.000674**
Stddev	.0008228	.26976	.0032118	.03047	.0002000	.000299
%RSD	1.064658	.3680149	.3665091	.0942143	.2276499	44.35032
#1	.0779187	73.00248	.8733468	32.31339	.0876632	-.001019
#2	.0763555	73.37454	.8797264	32.37311	.0880526	-.000496
#3	.0775826	73.52687	.8758870	32.33277	.0877789	-.000506

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.429297**	**.1000371**	**.1807734**	**6.366654**	**.0257357**	**.0034286**
Stddev	.011679	.0002300	.0009778	.034609	.0007596	.0000495
%RSD	.8170799	.2299063	.5408812	.5436021	2.951356	1.444318
#1	1.417312	.1000311	.1811306	6.333982	.0253302	.0034383
#2	1.429936	.1002701	.1796672	6.363059	.0266119	.0034726
#3	1.440643	.0998102	.1815223	6.402920	.0252649	.0033750

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5026-05 Acquired: 12/6/2024 13:34:28 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.000147**	**1.793626**	F **16.30365**	**3.540362**	**.7398414**	**.0554813**
Stddev	.000617	.002405	.07654	.008219	.0022010	.0004286
%RSD	420.1245	.1340744	.4694752	.2321457	.2974985	.7725729
#1	-.000652	1.790884	16.21708	3.536701	.7418344	.0549864
#2	.000541	1.795374	16.33153	3.549775	.7402108	.0557341
#3	-.000330	1.794621	16.36234	3.534610	.7374791	.0557234

Elem	Sr4077
Units	ppm
Avg	**-.002040**
Stddev	.000141
%RSD	6.907735
#1	-.002092
#2	-.001881
#3	-.002148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2587.154**	**62340.13**	**14520.33**	**1765.292**	**3997.145**
Stddev	5.806	43.78	25.93	3.620	3.297
%RSD	.2244132	.0702201	.1785692	.2050387	.0824847
#1	2592.151	62389.93	14502.62	1769.333	4000.588
#2	2588.527	62322.71	14508.28	1762.347	3996.833
#3	2580.785	62307.74	14550.09	1764.196	3994.016

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV02 Acquired: 12/6/2024 13:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.880108**	**4.914520**	**4.902099**	**4.940101**	**4.852332**	**9.805741**	**9.400585**
Stddev	.009370	.030643	.005818	.013887	.015989	.036991	.082299
%RSD	.1920047	.6235193	.1186927	.2811104	.3295173	.3772403	.8754711
#1	4.869501	4.949830	4.907642	4.952994	4.838591	9.763194	9.312095
#2	4.883563	4.894893	4.896040	4.925397	4.848525	9.823747	9.474836
#3	4.887260	4.898836	4.902614	4.941913	4.869882	9.830281	9.414822

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2439780**	**2.457040**	**24.20431**	**1.007045**	**2.446355**	**1.246519**	**4.810765**
Stddev	.0005608	.003795	.10929	.004568	.003305	.002781	.030235
%RSD	.2298485	.1544706	.4515449	.4536437	.1350924	.2230959	.6284867
#1	.2443380	2.461267	24.07975	1.011352	2.448230	1.246011	4.775949
#2	.2442641	2.453923	24.28416	1.007529	2.442539	1.244028	4.825930
#3	.2433319	2.455931	24.24901	1.002253	2.448295	1.249519	4.830416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.364778**	**24.36698**	**2.449054**	**1.225518**	**23.48684**	**2.443851**	**2.503749**
Stddev	.010356	.09364	.002724	.001239	.04514	.009511	.009257
%RSD	.4379154	.3842979	.1112454	.1010679	.1922055	.3891995	.3697352
#1	2.352820	24.28936	2.451515	1.224461	23.43725	2.435437	2.508701
#2	2.370707	24.47098	2.446126	1.226881	23.52555	2.441946	2.509477
#3	2.370806	24.34059	2.449521	1.225212	23.49772	2.454171	2.493069

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.93175**	**4.809824**	**4.994689**	**4.884678**	**4.769576**	**4.953473**	**4.896648**
Stddev	.06508	.012733	.006540	.009981	.021437	.037330	.015952
%RSD	.2719600	.2647227	.1309472	.2043272	.4494521	.7536051	.3257777
#1	23.85686	4.797595	4.995556	4.896015	4.744842	4.914449	4.913455
#2	23.96374	4.823007	4.987758	4.880802	4.781093	4.957128	4.881716
#3	23.97464	4.808869	5.000753	4.877217	4.782793	4.988840	4.894773

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV02 Acquired: 12/6/2024 13:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**4.805876**	**4.708359**	**4.834016**
Stddev	.009020	.020264	.019040
%RSD	.1876949	.4303759	.3938794
#1	4.814107	4.685262	4.815424
#2	4.796233	4.716670	4.853475
#3	4.807288	4.723147	4.833150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2451.380**	**58462.75**	**13671.59**	**1675.048**	**3930.465**
Stddev	10.449	102.98	40.37	8.035	13.834
%RSD	.4262434	.1761478	.2953127	.4796821	.3519719
#1	2455.958	58471.66	13690.13	1671.544	3930.299
#2	2458.758	58355.61	13625.27	1669.360	3944.382
#3	2439.423	58560.99	13699.36	1684.240	3916.715

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB02 Acquired: 12/6/2024 13:42:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.000308**	**-.001033**	**-.001082**	**-.000905**	**.0030604**	**.0007412**	**-.002772**
Stddev	.001888	.000592	.000323	.001015	.0010389	.0058689	.000453
%RSD	613.1573	57.30286	29.86836	112.2290	33.94621	791.7964	16.34442
#1	.001551	-.001190	-.001181	-.001459	.0032722	.0017844	-.003295
#2	-.002223	-.001531	-.001345	.000267	.0039771	.0060185	-.002525
#3	-.000252	-.000378	-.000721	-.001522	.0019319	-.005579	-.002496

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000777**	**.0001603**	**-.002412**	**-.000020**	**.0000801**	**-.000536**	**-.001753**
Stddev	.0000053	.0000132	.007069	.000229	.0000333	.000055	.004292
%RSD	6.781426	8.252448	293.0224	1163.912	41.56052	10.20671	244.8044
#1	.0000811	.0001499	.003745	.000233	.0000417	-.000488	-.003483
#2	.0000804	.0001558	-.000851	-.000213	.0000982	-.000595	-.004910
#3	.0000716	.0001752	-.010131	-.000079	.0001004	-.000524	.003134

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000174**	**.0054894**	**.0001171**	**.0003281**	**-.041663**	**.0008131**	**-.001129**
Stddev	.000068	.0050674	.0001852	.0001741	.011723	.0001397	.000228
%RSD	39.27797	92.31324	158.1564	53.04208	28.13853	17.17821	20.21907
#1	-.000111	.0028902	-.000011	.0005281	-.054983	.0009743	-.000963
#2	-.000247	.0113291	.000033	.0002106	-.037091	.0007341	-.001035
#3	-.000165	.0022489	.000329	.0002457	-.032914	.0007308	-.001390

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.090255**	**.0021195**	**.0004032**	**-.000243**	**.0005707**	**.0009291**	**-.001135**
Stddev	.026155	.0003602	.0000710	.000188	.0005044	.0030982	.000729
%RSD	28.97956	16.99273	17.59813	77.32710	88.39136	333.4761	64.27543
#1	-.104135	.0025328	.0003542	-.000069	.0010246	-.002499	-.001907
#2	-.106544	.0018728	.0003707	-.000443	.0006598	.003530	-.000458
#3	-.060085	.0019528	.0004845	-.000218	.0000276	.001756	-.001038

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB02 Acquired: 12/6/2024 13:42:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.002107**	**-.001376**	**.0000208**
Stddev	.001077	.000281	.0000140
%RSD	51.12791	20.42585	67.16808
#1	-.001944	-.001620	.0000106
#2	-.001120	-.001069	.0000151
#3	-.003256	-.001439	.0000367

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2614.410**	**62415.54**	**14042.44**	**1788.798**	**4546.033**
Stddev	3.977	110.15	49.49	8.015	4.621
%RSD	.1521041	.1764734	.3524029	.4480593	.1016547
#1	2609.939	62475.42	13995.58	1791.585	4541.391
#2	2617.553	62482.78	14037.55	1795.048	4550.633
#3	2615.738	62288.43	14094.19	1779.762	4546.075

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P4997-07 Acquired: 12/6/2024 13:47:10 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1569758**	**-.077733**	**.0543897**	**.0140430**	**-.013002**	**1543.143**
Stddev	.0015089	.008931	.0029253	.0075644	.004417	14.625
%RSD	.9612310	11.48930	5.378412	53.86606	33.97038	.9477386
#1	.1554040	-.069074	.0577657	.0203873	-.016741	1545.131
#2	.1584127	-.077212	.0526031	.0160701	-.008129	1556.672
#3	.1571106	-.086913	.0528004	.0056716	-.014136	1527.626

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.209948**	**-.000424**	**.0063803**	**71.21711**	**.0446971**	**.0188321**
Stddev	.010760	.000036	.0001930	1.03920	.0001690	.0002064
%RSD	.8892855	8.532602	3.024246	1.459201	.3781522	1.095963
#1	1.215596	-.000383	.0065018	71.74287	.0448914	.0190128
#2	1.216708	-.000452	.0061578	71.88838	.0445839	.0188764
#3	1.197540	-.000437	.0064812	70.02009	.0446159	.0186072

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.182934**	**75.08695**	F **44.20593**	**17.27776**	**.0457779**	**.0053561**
Stddev	.002354	.13205	.44736	.26705	.0000348	.0005899
%RSD	.1990294	.1758660	1.011997	1.545636	.0761056	11.01368
#1	1.180759	75.23905	44.21886	17.34453	.0457940	.0053950
#2	1.185434	75.00156	44.64668	17.50510	.0458018	.0047477
#3	1.182610	75.02023	43.75224	16.98367	.0457379	.0059255

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**71.37750**	**.0736822**	**.2952814**	**6.685431**	**.0701433**	**.0032533**
Stddev	.22531	.0013844	.0014150	.012121	.0003169	.0008076
%RSD	.3156606	1.878831	.4792160	.1813083	.4517541	24.82471
#1	71.51271	.0724805	.2955240	6.678938	.0699749	.0040620
#2	71.11740	.0751960	.2937607	6.699415	.0705088	.0024468
#3	71.50239	.0733701	.2965594	6.677940	.0699461	.0032511

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P4997-07 Acquired: 12/6/2024 13:47:10 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0049909	.3756161	F 45.95038	F 28.12051	F 62.99062	-.001623
Stddev	.0016192	.0039296	.06228	.06847	.16337	.000478
%RSD	32.44336	1.046162	.1355382	.2434712	.2593614	29.43669
#1	.0032385	.3772629	45.98773	28.17340	63.03044	-.001114
#2	.0053026	.3784543	45.98493	28.04318	62.81102	-.002062
#3	.0064316	.3711311	45.87848	28.14497	63.13040	-.001695

Elem	Sr4077
Units	ppm
Avg	.2122624
Stddev	.0030201
%RSD	1.422819
#1	.2134452
#2	.2145122
#3	.2088300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.287	52994.17	13358.34	1544.136	3279.230
Stddev	6.535	110.28	132.12	12.928	5.392
%RSD	.2892657	.2081030	.9890415	.8372035	.1644205
#1	2265.166	53061.68	13317.55	1540.508	3284.430
#2	2252.250	53053.93	13251.42	1558.490	3279.596
#3	2260.446	52866.91	13506.04	1533.410	3273.665

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07 Acquired: 12/6/2024 13:58:33 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1088704**	**-.070286**	**.0343001**	**.0191425**	**-.009039**	**1395.097**
Stddev	.0020975	.001403	.0020759	.0014126	.002392	2.575
%RSD	1.926638	1.995917	6.052119	7.379228	26.46484	.1845699
#1	.1110844	-.070952	.0340987	.0185346	-.006494	1395.192
#2	.1086141	-.071232	.0364694	.0207572	-.009381	1392.477
#3	.1069129	-.068674	.0323323	.0181356	-.011241	1397.624

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.086346**	**-.000362**	**.0045093**	**70.76211**	**.0355369**	**.0122529**
Stddev	.004253	.000059	.0000334	.14470	.0004108	.0001529
%RSD	.3914713	16.36860	.7413947	.2044886	1.155896	1.247966
#1	1.090191	-.000429	.0045405	70.59583	.0354362	.0123036
#2	1.081778	-.000318	.0044740	70.83106	.0351858	.0123739
#3	1.087069	-.000338	.0045133	70.85944	.0359886	.0120810

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9294653**	**47.03596**	**35.25557**	**17.04384**	**.0366550**	**.0042680**
Stddev	.0023435	.07017	.15166	.03347	.0001906	.0001180
%RSD	.2521401	.1491774	.4301713	.1963656	.5200922	2.765269
#1	.9290740	46.95776	35.08058	17.02553	.0368087	.0041430
#2	.9319798	47.05669	35.34904	17.08247	.0364417	.0043776
#3	.9273420	47.09342	35.33709	17.02352	.0367147	.0042833

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**72.54459**	**.0489113**	**.2541558**	**6.531362**	**.0567476**	**.0028151**
Stddev	.39361	.0008769	.0002260	.034072	.0006976	.0005605
%RSD	.5425802	1.792843	.0889061	.5216618	1.229271	19.91066
#1	72.93964	.0480528	.2540706	6.515927	.0565679	.0034155
#2	72.15243	.0488756	.2539848	6.507740	.0575175	.0023056
#3	72.54169	.0498055	.2544120	6.570419	.0561576	.0027241

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07 Acquired: 12/6/2024 13:58:33 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0031075	.2305110	F 41.44984	F 20.92085	F 55.99594	-.004922
Stddev	.0025004	.0012130	.07577	.06235	.08341	.000470
%RSD	80.46281	.5262239	.1828046	.2980295	.1489640	9.541514
#1	.0004314	.2293665	41.36646	20.96970	56.07625	-.004431
#2	.0053841	.2317825	41.46855	20.94222	55.90973	-.005367
#3	.0035072	.2303839	41.51450	20.85062	56.00185	-.004968

Elem	Sr4077
Units	ppm
Avg	.2250455
Stddev	.0010941
%RSD	.4861640
#1	.2259827
#2	.2238432
#3	.2253107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2253.542	53472.38	13460.26	1545.586	3315.041
Stddev	5.800	146.51	31.65	6.334	11.006
%RSD	.2573531	.2739938	.2351088	.4098032	.3319919
#1	2258.833	53616.44	13486.87	1552.779	3327.740
#2	2247.341	53477.15	13468.65	1543.132	3308.263
#3	2254.452	53323.54	13425.27	1540.846	3309.122

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07DUP Acquired: 12/6/2024 14:04:04 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.1091285	-.071637	.0374789	.0162879	-.011060	1416.751
Stddev	.0009411	.008660	.0050733	.0068438	.001757	12.797
%RSD	.8624160	12.08820	13.53656	42.01759	15.88845	.9032928
#1	.1101057	-.068431	.0341502	.0093174	-.012715	1402.110
#2	.1090517	-.065037	.0433180	.0165488	-.009216	1425.803
#3	.1082281	-.081442	.0349685	.0229975	-.011249	1422.341

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.108578	-.000387	.0046764	71.27500	.0355198	.0119493
Stddev	.013231	.000046	.0002208	.73494	.0002813	.0002497
%RSD	1.193517	11.74983	4.720903	1.031127	.7921040	2.089835
#1	1.094704	-.000336	.0047870	70.44768	.0352024	.0116702
#2	1.121055	-.000404	.0044222	71.85235	.0356184	.0121516
#3	1.109977	-.000422	.0048200	71.52496	.0357385	.0120259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9425769	47.99011	35.80792	17.13470	.0372286	.0045330
Stddev	.0044697	.14336	.47734	.23725	.0005553	.0001207
%RSD	.4741976	.2987364	1.333056	1.384601	1.491577	2.663195
#1	.9374276	47.87913	35.26113	16.86326	.0368930	.0046717
#2	.9448502	48.15197	36.14147	17.30248	.0378695	.0044510
#3	.9454531	47.93921	36.02117	17.23836	.0369232	.0044764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	74.11587	.0497865	.2559956	6.652101	.0582218	.0019441
Stddev	.33551	.0012257	.0008152	.022875	.0005057	.0005849
%RSD	.4526836	2.461820	.3184403	.3438703	.8685398	30.08463
#1	74.05271	.0510471	.2560000	6.640029	.0586313	.0025490
#2	74.47847	.0485990	.2568086	6.678483	.0583776	.0013815
#3	73.81642	.0497135	.2551782	6.637792	.0576566	.0019020

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07DUP Acquired: 12/6/2024 14:04:04 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0030654	.2384606	F 42.41355	F 21.22412	F 56.54872	-.004718
Stddev	.0015838	.0009712	.08348	.02161	.03090	.000407
%RSD	51.66470	.4072653	.1968157	.1018219	.0546501	8.628079
#1	.0040747	.2392333	42.45638	21.21950	56.51304	-.004606
#2	.0038816	.2373705	42.46692	21.24766	56.56586	-.004378
#3	.0012401	.2387781	42.31735	21.20519	56.56725	-.005169

Elem	Sr4077
Units	ppm
Avg	.2288530
Stddev	.0032874
%RSD	1.436446
#1	.2251580
#2	.2314532
#3	.2299479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2215.687	52662.12	13333.14	1528.255	3265.081
Stddev	18.494	122.27	165.03	3.551	18.459
%RSD	.8346736	.2321783	1.237711	.2323787	.5653475
#1	2237.037	52779.53	13523.07	1527.415	3286.368
#2	2204.606	52535.51	13224.76	1525.199	3253.506
#3	2205.419	52671.32	13251.59	1532.151	3255.368

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07LX5 Acquired: 12/6/2024 14:08:25 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0212980**	**-.012417**	**.0091294**	**.0042195**	**-.002616**	**288.8426**
Stddev	.0019569	.001072	.0007365	.0013708	.001248	.8384
%RSD	9.188222	8.635827	8.066875	32.48611	47.71518	.2902655
#1	.0200282	-.011292	.0090642	.0057504	-.003703	288.2449
#2	.0203142	-.013428	.0098963	.0038025	-.002892	288.4818
#3	.0235516	-.012532	.0084277	.0031057	-.001253	289.8010

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2129090**	**-.000075**	**.0006791**	**14.92389**	**.0077399**	**.0026083**
Stddev	.0010494	.000023	.0001179	.05035	.0003973	.0001578
%RSD	.4929107	30.40986	17.36248	.3373882	5.133807	6.050567
#1	.2137028	-.000072	.0005639	14.96504	.0072853	.0027236
#2	.2117191	-.000054	.0006738	14.86774	.0080204	.0024285
#3	.2133050	-.000100	.0007996	14.93888	.0079142	.0026729

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2078978**	**9.381686**	**7.566162**	**3.577404**	**.0080199**	**.0010441**
Stddev	.0012886	.091663	.025767	.006714	.0003904	.0002712
%RSD	.6198262	.9770416	.3405598	.1876680	4.867875	25.97903
#1	.2087889	9.277311	7.591459	3.583626	.0082553	.0010086
#2	.2064203	9.418654	7.539948	3.578297	.0075692	.0007923
#3	.2084842	9.449092	7.567078	3.570288	.0082351	.0013313

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.54733**	**.0096469**	**.0491914**	**1.095431**	**.0103380**	**.0001610**
Stddev	.14105	.0017182	.0009222	.024668	.0004820	.0003019
%RSD	1.124126	17.81078	1.874666	2.251866	4.662490	187.4842
#1	12.38561	.0078643	.0481395	1.067131	.0097846	.0001946
#2	12.64493	.0112925	.0495737	1.112374	.0106662	.0004447
#3	12.61144	.0097838	.0498609	1.106789	.0105632	-.000156

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07LX5 Acquired: 12/6/2024 14:08:25 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.000025	.0478476	7.900026	4.170578	F 11.17978	-.002100
Stddev	.000800	.0004347	.076658	.031831	.07291	.000488
%RSD	3166.244	.9085047	.9703536	.7632194	.6521896	23.22757
#1	.000729	.0475073	7.818192	4.197063	11.23516	-.002625
#2	.000059	.0483373	7.970163	4.135265	11.09717	-.002015
#3	-.000864	.0476982	7.911724	4.179406	11.20701	-.001661

Elem	Sr4077
Units	ppm
Avg	.0460821
Stddev	.0002367
%RSD	.5136537
#1	.0463485
#2	.0458961
#3	.0460016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2458.679	57813.80	13588.45	1691.962	3847.325
Stddev	9.563	544.46	66.70	16.115	19.076
%RSD	.3889591	.9417396	.4908689	.9524452	.4958246
#1	2448.192	58438.29	13515.18	1709.974	3828.899
#2	2466.918	57438.73	13645.65	1678.910	3866.990
#3	2460.928	57564.39	13604.52	1687.003	3846.087

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07MS Acquired: 12/6/2024 14:12:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9082439**	**1.651421**	**.9156835**	**2.040715**	**.6938631**	**1433.302**
Stddev	.0149770	.038632	.0108181	.032548	.0087189	9.862
%RSD	1.649004	2.339303	1.181419	1.594950	1.256568	.6880960
#1	.9135929	1.628839	.9125229	2.033244	.6975489	1422.448
#2	.8913268	1.629396	.9067978	2.012551	.6839067	1435.745
#3	.9198120	1.696028	.9277299	2.076349	.7001338	1441.714

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.321757**	**.2047040**	**.1979382**	**73.90930**	**.4093927**	**.2067291**
Stddev	.008573	.0002781	.0030051	.28344	.0012701	.0027375
%RSD	.6486363	.1358531	1.518199	.3834961	.3102344	1.324173
#1	1.315110	.2045289	.1976209	73.58558	.4087770	.2058952
#2	1.318727	.2045585	.1951044	74.11288	.4108533	.2045055
#3	1.331434	.2050247	.2010894	74.02944	.4085478	.2097865

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.159401**	**44.55174**	**33.69860**	**19.19827**	**.5158899**	**.0873931**
Stddev	.014559	.16951	.28150	.09325	.0075080	.0002593
%RSD	1.255776	.3804799	.8353395	.4857268	1.455352	.2967621
#1	1.157412	44.35790	33.47538	19.09945	.5138949	.0871904
#2	1.145938	44.67223	33.60559	19.28472	.5095808	.0876853
#3	1.174853	44.62507	34.01483	19.21065	.5241939	.0873034

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.48401**	**.3427454**	**.4638684**	**18.02860**	**.3172179**	**.3637236**
Stddev	.55277	.0026137	.0029988	.09768	.0013064	.0034740
%RSD	.7227290	.7625749	.6464857	.5418252	.4118420	.9551264
#1	76.07815	.3397561	.4610695	17.95191	.3169930	.3634519
#2	76.26032	.3438797	.4670336	17.99533	.3160385	.3603934
#3	77.11358	.3446002	.4635022	18.13858	.3186221	.3673255

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07MS Acquired: 12/6/2024 14:12:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.5858478	.3951055	F 41.57967	F 25.89938	F 55.66137	.2199057
Stddev	.0079412	.0024742	.22324	.45858	.90091	.0026994
%RSD	1.355511	.6262180	.5368925	1.770632	1.618558	1.227546
#1	.5827822	.3924039	41.32331	25.71813	55.40290	.2192997
#2	.5798964	.3956514	41.73122	25.55911	54.91794	.2175608
#3	.5948649	.3972612	41.68448	26.42088	56.66326	.2228567

Elem	Sr4077
Units	ppm
Avg	.4492220
Stddev	.0032398
%RSD	.7211987
#1	.4463790
#2	.4485377
#3	.4527492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2220.197	53260.32	13074.63	1539.920	3250.196
Stddev	23.486	186.38	56.37	13.731	41.120
%RSD	1.057827	.3499379	.4311054	.8916980	1.265149
#1	2227.343	53475.11	13132.07	1554.938	3263.308
#2	2239.280	53164.64	13072.43	1528.007	3283.161
#3	2193.969	53141.23	13019.40	1536.815	3204.119

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07MSD Acquired: 12/6/2024 14:17:00 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8977225	1.603239	.9021848	2.035525	.6881815	1423.661
Stddev	.0065501	.005004	.0017185	.002463	.0011074	10.271
%RSD	.7296352	.3120892	.1904762	.1210216	.1609192	.7214755
#1	.8925903	1.608205	.9010364	2.034973	.6875009	1427.740
#2	.8954774	1.598199	.9013575	2.038218	.6894593	1411.977
#3	.9051000	1.603314	.9041604	2.033385	.6875842	1431.267

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.291971	.2031240	.1952904	72.99764	.4076505	.2030371
Stddev	.006718	.0003133	.0001836	.30986	.0014093	.0004028
%RSD	.5200168	.1542333	.0940262	.4244851	.3457099	.1984086
#1	1.291118	.2034513	.1954849	72.81136	.4084759	.2031428
#2	1.299075	.2030938	.1952660	72.82622	.4060232	.2025920
#3	1.285719	.2028269	.1951201	73.35534	.4084523	.2033766

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146926	43.51933	33.14734	19.03259	.5068370	.0866723
Stddev	.001507	.20785	.04309	.07469	.0003834	.0002814
%RSD	.1314364	.4775977	.1299844	.3924212	.0756531	.3246402
#1	1.146144	43.46099	33.17958	19.00465	.5072627	.0869462
#2	1.145971	43.34688	33.09840	18.97590	.5065188	.0866865
#3	1.148664	43.75011	33.16404	19.11722	.5067295	.0863840

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	74.35610	.3383440	.4603375	17.67227	.3130920	.3606946
Stddev	.33302	.0018694	.0006172	.01408	.0014392	.0009792
%RSD	.4478689	.5524990	.1340694	.0796786	.4596673	.2714733
#1	74.52540	.3366515	.4597131	17.65716	.3114836	.3618185
#2	74.57046	.3380301	.4603522	17.68502	.3142581	.3602398
#3	73.97245	.3403505	.4609472	17.67464	.3135342	.3600255

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07MSD Acquired: 12/6/2024 14:17:00 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.5725412	.3894535	F 41.17072	F 25.26756	F 54.50996	.2150773
Stddev	.0015751	.0005502	.15747	.04180	.07156	.0023120
%RSD	.2751003	.1412875	.3824732	.1654164	.1312860	1.074954
#1	.5742429	.3888658	41.09314	25.31177	54.55073	.2166362
#2	.5722459	.3899564	41.06709	25.22868	54.42732	.2161746
#3	.5711346	.3895383	41.35192	25.26224	54.55181	.2124210

Elem	Sr4077
Units	ppm
Avg	.4419219
Stddev	.0015245
%RSD	.3449607
#1	.4418007
#2	.4435034
#3	.4404617

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2228.672	53718.28	13160.01	1541.237	3289.184
Stddev	1.583	167.91	25.76	3.469	2.513
%RSD	.0710389	.3125841	.1957374	.2251070	.0764164
#1	2230.084	53763.47	13173.20	1542.963	3291.678
#2	2228.971	53858.97	13176.51	1543.505	3289.222
#3	2226.961	53532.39	13130.33	1537.243	3286.652

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07A Acquired: 12/6/2024 14:21:14 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9004092**	**1.624998**	**.9141554**	**2.036347**	**.6842569**	**1440.092**
Stddev	.0019112	.025709	.0056015	.011087	.0059094	11.273
%RSD	.2122593	1.582075	.6127514	.5444612	.8636187	.7827937
#1	.9022421	1.605552	.9104958	2.047327	.6821049	1432.393
#2	.8984283	1.615296	.9113666	2.025156	.6797251	1434.852
#3	.9005571	1.654146	.9206039	2.036557	.6909407	1453.031

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.292728**	**.2047506**	**.1979363**	**73.53596**	**.4175037**	**.2059188**
Stddev	.004142	.0007463	.0005287	.56502	.0017098	.0008420
%RSD	.3204028	.3645076	.2670964	.7683621	.4095339	.4089203
#1	1.296936	.2051786	.1980956	73.22683	.4190042	.2060649
#2	1.288656	.2038888	.1973463	73.19294	.4156422	.2050133
#3	1.292592	.2051844	.1983670	74.18809	.4178646	.2066783

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.150861**	**44.16467**	**33.14378**	**19.22636**	**.5141221**	**.0884487**
Stddev	.003851	.25814	.06482	.13329	.0012211	.0004595
%RSD	.3345931	.5844986	.1955619	.6932711	.2375058	.5195389
#1	1.151092	44.06587	33.18530	19.15312	.5139096	.0889652
#2	1.146901	43.97052	33.06909	19.14576	.5130212	.0880851
#3	1.154592	44.45762	33.17694	19.38022	.5154355	.0882958

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**74.94531**	**.3426367**	**.4688335**	**17.94312**	**.3141205**	**.3629047**
Stddev	.63934	.0017672	.0004344	.12054	.0021023	.0016306
%RSD	.8530809	.5157765	.0926635	.6717761	.6692643	.4493094
#1	75.68311	.3409342	.4693324	18.08183	.3147692	.3622849
#2	74.55397	.3425136	.4685386	17.86382	.3117703	.3616749
#3	74.59886	.3444623	.4686295	17.88370	.3158220	.3647543

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5018-07A Acquired: 12/6/2024 14:21:14 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.5820443	.3925631	F 42.22265	F 25.73041	F 55.24291	.2162221
Stddev	.0031266	.0015122	.20225	.11825	.24148	.0021772
%RSD	.5371664	.3852161	.4790184	.4595659	.4371295	1.006902
#1	.5786799	.3922178	42.33960	25.75710	55.10530	.2187147
#2	.5825924	.3912535	41.98911	25.60109	55.10168	.2152593
#3	.5848605	.3942182	42.33925	25.83302	55.52174	.2146924

Elem	Sr4077
Units	ppm
Avg	.4420794
Stddev	.0018305
%RSD	.4140758
#1	.4434664
#2	.4400045
#3	.4427672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2223.613	52450.21	13016.50	1495.039	3261.302
Stddev	4.127	226.82	51.82	4.202	4.685
%RSD	.1855898	.4324532	.3980782	.2810420	.1436570
#1	2219.169	52256.95	13014.87	1492.599	3256.094
#2	2227.325	52699.93	13069.12	1499.890	3265.173
#3	2224.346	52393.74	12965.52	1492.627	3262.638

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5051-07 Acquired: 12/6/2024 14:25:26 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1435440**	**-.075894**	**.0390187**	**.0176630**	**-.011919**	**1489.792**
Stddev	.0050047	.006012	.0035017	.0058580	.003896	5.787
%RSD	3.486537	7.921125	8.974343	33.16563	32.69197	.3884126
#1	.1391380	-.082419	.0361934	.0206249	-.015659	1483.162
#2	.1425085	-.070581	.0379263	.0214486	-.012215	1493.826
#3	.1489854	-.074681	.0429363	.0109154	-.007883	1492.387

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.178377**	**-.000718**	**.0057952**	**72.44862**	**.0416988**	**.0170754**
Stddev	.003980	.000035	.0002493	.28343	.0002024	.0003407
%RSD	.3377154	4.911308	4.302285	.3912189	.4853733	1.995241
#1	1.176565	-.000709	.0055369	72.12134	.0416461	.0167326
#2	1.175625	-.000757	.0058143	72.61133	.0419224	.0170795
#3	1.182940	-.000688	.0060345	72.61319	.0415280	.0174140

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001978**	**67.36625**	F **43.93396**	**17.65289**	**.0457482**	**.0052327**
Stddev	.004121	.21019	.22370	.03698	.0001167	.0002033
%RSD	.4112869	.3120047	.5091777	.2094569	.2549833	3.884211
#1	1.001120	67.43460	43.69555	17.61870	.0458253	.0050082
#2	1.006460	67.53376	43.96705	17.64783	.0458053	.0052857
#3	.998353	67.13040	44.13927	17.69213	.0456140	.0054043

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**70.33651**	**.0656971**	**.2565637**	**6.539375**	**.0673286**	**.0028738**
Stddev	.29545	.0025509	.0008025	.024300	.0008399	.0004350
%RSD	.4200554	3.882814	.3127853	.3716022	1.247428	15.13526
#1	70.66177	.0654798	.2570873	6.551996	.0680717	.0029916
#2	70.26302	.0632618	.2569640	6.554768	.0674967	.0032377
#3	70.08474	.0683496	.2556398	6.511361	.0664174	.0023921

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5051-07 Acquired: 12/6/2024 14:25:26 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0045452	.3390054	F 46.16704	F 28.00372	F 64.60601	-.003375
Stddev	.0010150	.0003299	.18281	.16497	.15524	.000137
%RSD	22.33176	.0973078	.3959831	.5890847	.2402863	4.048162
#1	.0035274	.3392507	46.30904	27.83667	64.42819	-.003407
#2	.0055574	.3386304	46.23132	28.00798	64.71453	-.003492
#3	.0045509	.3391351	45.96077	28.16652	64.67530	-.003225

Elem	Sr4077
Units	ppm
Avg	.2096323
Stddev	.0008403
%RSD	.4008400
#1	.2094135
#2	.2089231
#3	.2105604

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.007	53772.16	13394.88	1595.840	3320.579
Stddev	11.148	211.61	49.37	8.672	12.405
%RSD	.4803180	.3935275	.3685861	.5433823	.3735876
#1	2311.727	53656.24	13450.95	1587.021	3307.697
#2	2317.922	53643.84	13375.75	1596.142	3321.596
#3	2333.373	54016.40	13357.94	1604.356	3332.445

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07 Acquired: 12/6/2024 14:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1620067**	**-.087844**	**.0452555**	**.0201677**	**-.010198**	**1697.035**
Stddev	.0032487	.005990	.0017082	.0024838	.006194	11.270
%RSD	2.005307	6.818487	3.774547	12.31582	60.73476	.6641239
#1	.1652752	-.084783	.0456644	.0189166	-.013802	1710.024
#2	.1619668	-.094746	.0433800	.0230283	-.013745	1689.842
#3	.1587781	-.084004	.0467221	.0185582	-.003046	1691.239

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.316203**	**-.000726**	**.0061398**	**75.70989**	**.0436720**	**.0172253**
Stddev	.004712	.000039	.0001548	.51564	.0004616	.0002116
%RSD	.3580049	5.357054	2.521532	.6810704	1.056989	1.228273
#1	1.321298	-.000735	.0060872	76.30510	.0441992	.0171127
#2	1.315309	-.000684	.0060182	75.39902	.0433401	.0174694
#3	1.312002	-.000760	.0063141	75.42555	.0434768	.0170938

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.123346**	**72.24879**	F **48.39975**	**16.97589**	**.0505129**	**.0060199**
Stddev	.003160	.39386	.22716	.12200	.0006950	.0003214
%RSD	.2812602	.5451433	.4693474	.7186878	1.375961	5.339087
#1	1.125707	72.67028	48.65086	17.10798	.0499198	.0062855
#2	1.124575	72.18597	48.20854	16.95227	.0512777	.0056626
#3	1.119757	71.89011	48.33987	16.86742	.0503413	.0061117

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**68.84284**	**.0729795**	**.2835627**	**6.694421**	**.0707018**	**.0025381**
Stddev	.13078	.0008815	.0006832	.019985	.0009074	.0005751
%RSD	.1899743	1.207903	.2409403	.2985252	1.283382	22.65705
#1	68.92519	.0737473	.2840474	6.680922	.0716158	.0027401
#2	68.91128	.0731743	.2827813	6.717379	.0698012	.0018893
#3	68.69203	.0720169	.2838595	6.684962	.0706885	.0029849

Reviewed By:jaswal
On:12/11/2024
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Inst Id :P4
LB :LB133790

Sample Name: P5068-07 Acquired: 12/6/2024 14:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0037436	.2456263	F 51.79160	F 29.93593	F 68.73331	-.005103
Stddev	.0019950	.0004275	.10627	.08368	.20840	.000395
%RSD	53.29259	.1740509	.2051928	.2795186	.3031940	7.739221
#1	.0022144	.2453605	51.83221	30.01029	68.82732	-.005515
#2	.0060003	.2461195	51.67101	29.95218	68.87813	-.005064
#3	.0030159	.2453990	51.87158	29.84532	68.49447	-.004728

Elem	Sr4077
Units	ppm
Avg	.2277616
Stddev	.0005011
%RSD	.2199935
#1	.2283349
#2	.2274079
#3	.2275419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2325.422	53208.11	13349.25	1597.309	3315.789
Stddev	7.343	86.70	41.66	.758	8.536
%RSD	.3157890	.1629472	.3120590	.0474485	.2574216
#1	2316.984	53229.34	13303.23	1596.771	3306.177
#2	2328.913	53282.22	13384.39	1596.980	3318.708
#3	2330.368	53112.76	13360.13	1598.176	3322.483

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DUP Acquired: 12/6/2024 14:34:10 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1638367**	**-.082477**	**.0438956**	**.0216372**	**-.011524**	**1725.087**
Stddev	.0051112	.002696	.0011939	.0022300	.004710	11.060
%RSD	3.119709	3.268618	2.719832	10.30639	40.86871	.6411168
#1	.1597491	-.085561	.0443115	.0241296	-.011496	1725.065
#2	.1695674	-.081298	.0448260	.0209509	-.016248	1714.039
#3	.1621935	-.080571	.0425494	.0198309	-.006829	1736.159

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.310300**	**-.000673**	**.0066526**	**76.04689**	**.0441338**	**.0173866**
Stddev	.004170	.000052	.0000865	.32715	.0005857	.0000249
%RSD	.3182804	7.711852	1.300287	.4302010	1.327179	.1429472
#1	1.307233	-.000722	.0067473	75.98142	.0443612	.0173965
#2	1.308618	-.000619	.0066328	75.75742	.0434685	.0174049
#3	1.315049	-.000679	.0065778	76.40183	.0445717	.0173583

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.142267**	**72.19623**	F **48.34527**	**17.07437**	**.0512679**	**.0060812**
Stddev	.002984	.10732	.37835	.08008	.0003245	.0006093
%RSD	.2612380	.1486450	.7825983	.4690134	.6328717	10.01962
#1	1.142038	72.09926	48.12136	17.09326	.0516131	.0056401
#2	1.139404	72.31153	48.13235	16.98653	.0512213	.0067765
#3	1.145359	72.17790	48.78211	17.14331	.0509693	.0058271

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**68.37429**	**.0731426**	**.2882171**	**6.754426**	**.0681878**	**.0034697**
Stddev	.29066	.0004255	.0008510	.044844	.0010471	.0005121
%RSD	.4250969	.5817284	.2952740	.6639152	1.535614	14.75900
#1	68.12248	.0729530	.2876236	6.702645	.0670342	.0040333
#2	68.69236	.0728448	.2891921	6.780436	.0684509	.0033427
#3	68.30804	.0736299	.2878356	6.780197	.0690782	.0030330

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DUP Acquired: 12/6/2024 14:34:10 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0050613	.2449273	F 52.49649	F 29.85358	F 69.00775	-.005556
Stddev	.0015722	.0018778	.14417	.18386	.15051	.000389
%RSD	31.06291	.7666740	.2746197	.6158643	.2181130	7.007267
#1	.0051674	.2429707	52.33486	30.06403	69.15320	-.005114
#2	.0034388	.2450963	52.54281	29.72417	69.01741	-.005847
#3	.0065778	.2467149	52.61180	29.77253	68.85264	-.005708

Elem	Sr4077
Units	ppm
Avg	.2279372
Stddev	.0008934
%RSD	.3919297
#1	.2274040
#2	.2274391
#3	.2289686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2270.203	52628.50	13264.66	1551.208	3256.403
Stddev	10.960	118.33	60.62	6.345	9.866
%RSD	.4827804	.2248424	.4569686	.4090271	.3029852
#1	2276.816	52758.56	13290.18	1557.964	3265.309
#2	2276.241	52599.76	13308.34	1550.285	3258.102
#3	2257.551	52527.19	13195.46	1545.375	3245.797

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV03 Acquired: 12/6/2024 14:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2502) 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	**4.819690**	**4.845704**	**4.875528**	**4.870575**	**4.776356**	**9.820445**	**9.368712**
Stddev	.021899	.006161	.004951	.014573	.013775	.073100	.106111
%RSD	.4543742	.1271441	.1015552	.2992056	.2884074	.7443608	1.132609
#1	4.795109	4.839530	4.879386	4.854758	4.760988	9.775587	9.290003
#2	4.826840	4.851852	4.869945	4.873510	4.780487	9.780952	9.326746
#3	4.837121	4.845730	4.877254	4.883457	4.787594	9.904797	9.489388

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2449340**	**2.450296**	**24.19935**	**1.000005**	**2.433972**	**1.233605**	**4.772156**
Stddev	.0012800	.001622	.25846	.002450	.000828	.001898	.027752
%RSD	.5225726	.0661782	1.068038	.2450245	.0340087	.1538946	.5815352
#1	.2441633	2.452162	23.98303	1.002465	2.434250	1.232022	4.745538
#2	.2442272	2.449501	24.12946	.999987	2.434626	1.233084	4.770013
#3	.2464115	2.449226	24.48557	.997565	2.433041	1.235710	4.800917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.362156**	**24.29699**	**2.440848**	**1.213053**	**24.92107**	**2.449013**	**2.466938**
Stddev	.023612	.24844	.001530	.001042	.13521	.021643	.004957
%RSD	.9996069	1.022501	.0626715	.0859350	.5425434	.8837420	.2009329
#1	2.343758	24.14616	2.442392	1.211852	25.05739	2.432641	2.461409
#2	2.353928	24.16107	2.439333	1.213584	24.91882	2.440847	2.470985
#3	2.388781	24.58373	2.440820	1.213724	24.78700	2.473551	2.468421

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.32600**	**4.806496**	**4.936737**	**4.855514**	**4.760643**	**4.955559**	**4.871258**
Stddev	.02646	.029059	.010773	.006832	.028797	.031069	.003543
%RSD	.1134518	.6045673	.2182216	.1407072	.6049030	.6269538	.0727344
#1	23.32040	4.787300	4.926188	4.862626	4.735899	4.919789	4.869435
#2	23.35482	4.792262	4.936302	4.854914	4.753778	4.971070	4.868998
#3	23.30279	4.839928	4.947721	4.849001	4.792253	4.975819	4.875341

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV03 Acquired: 12/6/2024 14:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2502) 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	**4.783235**	**4.642796**	**4.808604**
Stddev	.005273	.006546	.049052
%RSD	.1102368	.1410013	1.020095
#1	4.789295	4.639925	4.752204
#2	4.779699	4.638176	4.832289
#3	4.780710	4.650287	4.841320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2460.195**	**58560.41**	**13555.21**	**1685.618**	**3932.806**
Stddev	5.785	39.49	73.56	8.190	2.124
%RSD	.2351571	.0674367	.5426667	.4858777	.0540198
#1	2466.851	58605.94	13599.00	1694.866	3934.255
#2	2457.357	58539.88	13596.34	1682.706	3930.367
#3	2456.376	58535.41	13470.28	1679.282	3933.796

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB03 Acquired: 12/6/2024 14:46:28 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0011206	-.001643	-.000556	-.001864	.0022258	.0054912	-.002109
Stddev	.0010293	.000574	.000400	.000597	.0006305	.0028187	.000420
%RSD	91.85568	34.92347	71.90887	32.00090	28.32906	51.33081	19.92333
#1	.0000523	-.002090	-.000893	-.001536	.0029315	.0049331	-.001801
#2	.0021060	-.001844	-.000114	-.001504	.0020278	.0085471	-.002588
#3	.0012035	-.000996	-.000661	-.002553	.0017179	.0029933	-.001938

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001227	.0000826	-.004553	-.000033	-.000054	-.000760	-.000210
Stddev	.0000616	.0000053	.008644	.000216	.000048	.000163	.002050
%RSD	50.20775	6.478776	189.8694	650.5250	87.29812	21.44976	978.4010
#1	.0000589	.0000765	.000181	.000213	.000000	-.000884	.000897
#2	.0001818	.0000866	-.014529	-.000189	-.000085	-.000822	-.002575
#3	.0001274	.0000846	.000691	-.000123	-.000079	-.000575	.001050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003121	-.000070	.0003329	.0006021	.1166861	-.000378	-.001053
Stddev	.0001653	.010620	.0001210	.0002867	.0127777	.001400	.000037
%RSD	52.94724	15193.26	36.33697	47.61597	10.95053	370.5030	3.507111
#1	.0001670	-.010646	.0003280	.0002780	.1024154	.001061	-.001094
#2	.0004920	-.000157	.0004563	.0007059	.1205760	-.000459	-.001044
#3	.0002773	.010593	.0002145	.0008225	.1270668	-.001736	-.001022

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.088380	.0032672	.0007853	-.000582	.0004652	.0024704	-.002008
Stddev	.009458	.0003003	.0001751	.000548	.0001139	.0011492	.002045
%RSD	10.70163	9.190432	22.29055	94.12393	24.49440	46.51888	101.8276
#1	-.099300	.0035960	.0009863	-.000022	.0005403	.0024742	-.003761
#2	-.082842	.0031983	.0006666	-.000607	.0005212	.0036178	-.002503
#3	-.082997	.0030075	.0007030	-.001118	.0003341	.0013193	.000239

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB03 Acquired: 12/6/2024 14:46:28 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.001459	-.000197	.0001620
Stddev	.000910	.000260	.0001376
%RSD	62.40228	132.1577	84.94343
#1	-.001008	-.000235	.0003179
#2	-.002506	-.000435	.0001108
#3	-.000861	.000080	.0000574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2649.372	62750.33	13964.53	1798.042	4572.520
Stddev	3.379	265.36	125.08	8.288	3.400
%RSD	.1275336	.4228764	.8956958	.4609595	.0743525
#1	2650.836	62446.76	13820.12	1789.566	4573.039
#2	2645.508	62866.13	14034.67	1798.431	4568.891
#3	2651.773	62938.11	14038.80	1806.129	4575.631

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07LX5 Acquired: 12/6/2024 14:50:48 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0297042**	**-.014063**	**.0140600**	**-.000163**	**-.002470**	**358.1984**
Stddev	.0021881	.001811	.0006177	.001225	.000950	.9636
%RSD	7.366293	12.87427	4.393549	751.7215	38.47000	.2690091
#1	.0272441	-.012015	.0144230	.000760	-.002671	357.8217
#2	.0314329	-.015449	.0133467	.000304	-.003303	357.4800
#3	.0304356	-.014726	.0144102	-.001553	-.001435	359.2934

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2581055**	**-.000197**	**.0008913**	**15.60463**	**.0091716**	**.0035214**
Stddev	.0000658	.000046	.0000395	.05317	.0002274	.0000362
%RSD	.0254931	23.25658	4.434303	.3407556	2.478969	1.028224
#1	.2581646	-.000243	.0009271	15.64994	.0093613	.0034803
#2	.2581173	-.000151	.0008489	15.54609	.0089196	.0035350
#3	.2580346	-.000198	.0008980	15.61786	.0092341	.0035488

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2568564**	**14.10202**	**10.30052**	**3.489401**	**.0105781**	**.0017136**
Stddev	.0004083	.04310	.02551	.035420	.0001040	.0002643
%RSD	.1589699	.3056246	.2476632	1.015068	.9832183	15.42569
#1	.2570518	14.09065	10.31143	3.459972	.0105920	.0018516
#2	.2571303	14.06575	10.27137	3.479518	.0104678	.0014088
#3	.2563871	14.14967	10.31876	3.528713	.0106744	.0018803

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.91630**	**.0151319**	**.0545302**	**1.117423**	**.0145304**	**.0008167**
Stddev	.03669	.0011935	.0003974	.023186	.0006487	.0005627
%RSD	.3079253	7.887278	.7288078	2.074963	4.464148	68.89911
#1	11.93521	.0164610	.0542245	1.091652	.0148569	.0002648
#2	11.93967	.0147827	.0543867	1.136593	.0149509	.0013896
#3	11.87400	.0141519	.0549795	1.124024	.0137834	.0007957

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07LX5 Acquired: 12/6/2024 14:50:48 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.000183	.0501373	9.772585	5.876428	F 13.79432	-.001477
Stddev	.000505	.0002909	.030672	.010971	.03983	.000440
%RSD	275.2344	.5801578	.3138554	.1866959	.2887644	29.76710
#1	-.000584	.0502433	9.746757	5.887646	13.83320	-.000980
#2	-.000350	.0498083	9.764512	5.865722	13.75360	-.001633
#3	.000384	.0503603	9.806485	5.875915	13.79616	-.001817

Elem	Sr4077
Units	ppm
Avg	.0466729
Stddev	.0001874
%RSD	.4014419
#1	.0465616
#2	.0468892
#3	.0465679

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2480.026	58357.79	13821.22	1720.962	3824.384
Stddev	7.219	63.80	33.17	3.829	.917
%RSD	.2910861	.1093219	.2400036	.2224949	.0239700
#1	2487.376	58303.34	13784.46	1724.410	3824.445
#2	2472.945	58427.99	13848.93	1716.841	3823.438
#3	2479.756	58342.04	13830.26	1721.634	3825.269

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MS Acquired: 12/6/2024 14:55:09 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9835258**	**1.643842**	**.9408259**	**2.075568**	**.5739221**	**1815.359**
Stddev	.0071799	.005985	.0012343	.008754	.0056448	1.637
%RSD	.7300131	.3641054	.1311881	.4217484	.9835525	.0901518
#1	.9752471	1.641727	.9400504	2.074172	.5691828	1813.865
#2	.9872809	1.639202	.9422492	2.084936	.5724164	1817.108
#3	.9880494	1.650598	.9401780	2.067596	.5801671	1815.105

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.631042**	**.2155863**	**.2060804**	**81.96304**	**.4388887**	**.2184753**
Stddev	.004845	.0008018	.0005936	.51409	.0011045	.0003419
%RSD	.2970594	.3719187	.2880317	.6272164	.2516628	.1564823
#1	1.636589	.2164571	.2057043	82.51870	.4378581	.2181955
#2	1.628902	.2154232	.2057721	81.86608	.4387533	.2183740
#3	1.627635	.2148785	.2067646	81.50434	.4400546	.2188564

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.440928**	**79.08570**	F **51.90319**	**20.07228**	**.5436323**	**.0945411**
Stddev	.002667	.28627	.19611	.18325	.0011458	.0003146
%RSD	.1850632	.3619711	.3778299	.9129418	.2107607	.3327918
#1	1.437849	79.26722	52.06016	20.26225	.5425254	.0941815
#2	1.442499	78.75570	51.96605	20.05799	.5435582	.0946760
#3	1.442436	79.23419	51.68336	19.89659	.5448133	.0947658

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.23043**	**.3820780**	**.5206876**	**18.90775**	**.3380799**	**.3096999**
Stddev	.45910	.0040598	.0030731	.10695	.0010805	.0010222
%RSD	.6022478	1.062556	.5902071	.5656387	.3195947	.3300588
#1	76.00403	.3861477	.5192779	18.83609	.3380904	.3085736
#2	75.92851	.3820582	.5185723	18.85647	.3369943	.3099575
#3	76.75876	.3780282	.5242127	19.03068	.3391552	.3105687

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MS Acquired: 12/6/2024 14:55:09 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.4653497	.4325466	F 55.92573	F 36.62836	F 72.29393	.2174106
Stddev	.0038427	.0009808	.21012	.12127	.14220	.0004437
%RSD	.8257714	.2267391	.3757104	.3310791	.1967032	.2040851
#1	.4658087	.4335165	55.96811	36.70542	72.29147	.2179153
#2	.4612980	.4325678	55.69766	36.48857	72.15297	.2170818
#3	.4689422	.4315554	56.11144	36.69108	72.43735	.2172348

Elem	Sr4077
Units	ppm
Avg	.4565106
Stddev	.0013807
%RSD	.3024481
#1	.4580901
#2	.4559081
#3	.4555335

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2223.478	52088.50	12914.43	1535.050	3171.718
Stddev	2.430	175.29	42.70	8.427	4.285
%RSD	.1092733	.3365242	.3306575	.5489788	.1350934
#1	2226.020	52216.52	12872.11	1537.016	3173.695
#2	2221.178	52160.27	12913.69	1542.319	3174.657
#3	2223.237	51888.71	12957.50	1525.813	3166.801

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSD Acquired: 12/6/2024 14:59:22 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9834840**	**1.634700**	**.9337711**	**2.061688**	**.5662728**	**1821.938**
Stddev	.0066057	.012224	.0023259	.009760	.0049661	1.808
%RSD	.6716628	.7477809	.2490917	.4733793	.8769816	.0992458
#1	.9766285	1.625328	.9353752	2.051856	.5608024	1824.020
#2	.9898077	1.648526	.9348345	2.071374	.5704973	1821.032
#3	.9840158	1.630245	.9311035	2.061833	.5675188	1820.761

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.603103**	**.2132781**	**.2031659**	**81.28542**	**.4322954**	**.2145249**
Stddev	.000884	.0009785	.0003146	.18609	.0014679	.0005988
%RSD	.0551529	.4588065	.1548545	.2289289	.3395500	.2791318
#1	1.602107	.2141562	.2034293	81.07059	.4337689	.2142218
#2	1.603797	.2134548	.2032508	81.39684	.4322841	.2141383
#3	1.603403	.2122232	.2028175	81.38882	.4308332	.2152147

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.426632**	**78.06051**	F **51.50607**	**19.90753**	**.5347318**	**.0937751**
Stddev	.004218	.23109	.18665	.05097	.0004156	.0004749
%RSD	.2956312	.2960347	.3623910	.2560484	.0777145	.5064266
#1	1.421770	77.85419	51.46561	19.84869	.5352080	.0939188
#2	1.428819	78.01711	51.34296	19.93550	.5345444	.0941615
#3	1.429307	78.31021	51.70963	19.93839	.5344429	.0932449

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**74.79274**	**.3777370**	**.5141455**	**18.56946**	**.3326062**	**.3073612**
Stddev	.02929	.0005981	.0030512	.07691	.0012891	.0004506
%RSD	.0391560	.1583291	.5934578	.4141938	.3875621	.1465913
#1	74.81105	.3778884	.5144723	18.48351	.3333540	.3069812
#2	74.80821	.3770777	.5109439	18.63181	.3333470	.3072434
#3	74.75896	.3782448	.5170201	18.59305	.3311178	.3078589

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSD Acquired: 12/6/2024 14:59:22 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.4590965	.4265046	F 55.44110	F 36.43178	F 71.43584	.2139659
Stddev	.0052046	.0015972	.07969	.03243	.06666	.0002415
%RSD	1.133653	.3744895	.1437379	.0890173	.0933172	.1128483
#1	.4650895	.4263062	55.34995	36.44659	71.46715	.2141947
#2	.4557126	.4250159	55.49759	36.45417	71.48109	.2139893
#3	.4564874	.4281918	55.47577	36.39459	71.35929	.2137136

Elem	Sr4077
Units	ppm
Avg	.4501129
Stddev	.0005475
%RSD	.1216431
#1	.4497326
#2	.4507405
#3	.4498657

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2240.514	52233.85	12933.23	1530.845	3208.296
Stddev	8.409	162.11	25.45	12.048	4.904
%RSD	.3753001	.3103467	.1968004	.7870418	.1528501
#1	2250.027	52415.41	12962.29	1540.769	3213.071
#2	2237.441	52182.54	12922.50	1534.328	3208.545
#3	2234.074	52103.62	12914.89	1517.439	3203.273

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07A Acquired: 12/6/2024 15:03:35 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.9887169**	**1.645890**	**.9237275**	**2.068737**	**.5681203**	**1798.088**
Stddev	.0049554	.018212	.0031742	.008165	.0043883	9.602
%RSD	.5011943	1.106493	.3436316	.3946718	.7724244	.5340124
#1	.9857350	1.656136	.9241261	2.060985	.5724514	1808.823
#2	.9944372	1.624863	.9203728	2.067966	.5636770	1790.318
#3	.9859785	1.656671	.9266836	2.077259	.5682326	1795.123

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.588933**	**.2112788**	**.2027700**	**80.08831**	**.4301324**	**.2140745**
Stddev	.005777	.0005119	.0009676	.25623	.0010241	.0007792
%RSD	.3635548	.2422777	.4771790	.3199397	.2380997	.3639608
#1	1.595449	.2106930	.2016828	79.87756	.4292611	.2131948
#2	1.586910	.2115030	.2030908	80.01385	.4312605	.2146776
#3	1.584440	.2116403	.2035365	80.37353	.4298756	.2143512

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.423815**	**77.09341**	F **51.00469**	**19.60221**	**.5324621**	**.0927452**
Stddev	.009445	.02939	.12365	.08171	.0024157	.0004554
%RSD	.6633454	.0381230	.2424204	.4168368	.4536791	.4910802
#1	1.413112	77.08265	50.94935	19.57074	.5301755	.0925685
#2	1.427350	77.12666	50.91837	19.54092	.5322218	.0932625
#3	1.430982	77.07090	51.14634	19.69498	.5349889	.0924046

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**74.42415**	**.3738165**	**.5109669**	**18.38680**	**.3294353**	**.3060248**
Stddev	.50156	.0013074	.0010696	.07036	.0011195	.0016899
%RSD	.6739272	.3497297	.2093260	.3826474	.3398183	.5522218
#1	74.99794	.3724950	.5121994	18.46596	.3283864	.3041503
#2	74.20535	.3751092	.5102822	18.33141	.3306140	.3064925
#3	74.06915	.3738452	.5104190	18.36302	.3293054	.3074317

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07A Acquired: 12/6/2024 15:03:35 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.4528860	.4211680	F 54.88747	F 36.50282	F 71.39873	.2108909
Stddev	.0025540	.0016104	.05142	.16345	.33176	.0014773
%RSD	.5639288	.3823685	.0936754	.4477798	.4646584	.7004847
#1	.4507420	.4210787	54.93677	36.57782	71.13142	.2125906
#2	.4522044	.4196041	54.83417	36.31533	71.29473	.2101651
#3	.4557116	.4228212	54.89147	36.61532	71.77003	.2099169

Elem	Sr4077
Units	ppm
Avg	.4457253
Stddev	.0014178
%RSD	.3180957
#1	.4473625
#2	.4448974
#3	.4449162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2226.192	52585.91	13044.99	1540.620	3188.142
Stddev	14.745	35.37	14.99	5.545	17.692
%RSD	.6623589	.0672604	.1149331	.3599359	.5549333
#1	2243.218	52545.30	13059.38	1535.845	3208.568
#2	2217.560	52609.93	13046.15	1546.702	3177.649
#3	2217.798	52602.51	13029.46	1539.314	3178.209

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5069-01 Acquired: 12/6/2024 15:07:50 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.2278695	.0415702	4.916117	-.481662	.0892087	490.7141
Stddev	.0053834	.0042918	.011540	.003407	.0041861	2.8907
%RSD	2.362495	10.32419	.2347308	.7073088	4.692493	.5890809
#1	.2340415	.0444343	4.929238	-.484810	.0908965	493.8799
#2	.2241426	.0366357	4.907543	-.478045	.0844422	488.2151
#3	.2254245	.0436405	4.911571	-.482132	.0922874	490.0472

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.080622	.0235642	.3383709	375.7656	1.687401	.4036299
Stddev	.013572	.0000833	.0027715	1.1240	.005139	.0013875
%RSD	.4405753	.3535772	.8190745	.2991097	.3045637	.3437664
#1	3.091505	.0234680	.3415452	376.6280	1.693191	.4050197
#2	3.084947	.0236124	.3364315	376.1744	1.683379	.4022446
#3	3.065414	.0236122	.3371360	374.4945	1.685633	.4036254

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.11266	F 1430.914	29.44280	401.5599	.9218791	^ *****
Stddev	.00861	4.487	.05097	.8525	.0013124	-----
%RSD	.0569629	.3135676	.1731018	.2122985	.1423563	-----
#1	15.12107	1426.180	29.50145	401.5339	.9230595	^ -----
#2	15.10386	1431.458	29.41769	402.4251	.9221119	^ -----
#3	15.11304	1435.104	29.40926	400.7207	.9204660	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.84493	.9148686	22.62842	23.07360	^ *****	.0739935
Stddev	.09480	.0019012	.09629	.02236	-----	.0011059
%RSD	.2067855	.2078069	.4255340	.0968976	-----	1.494605
#1	45.74035	.9138753	22.51724	23.06057	^ -----	.0727880
#2	45.92523	.9170607	22.68299	23.06081	^ -----	.0742314
#3	45.86922	.9136699	22.68503	23.09941	^ -----	.0749612

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5069-01 Acquired: 12/6/2024 15:07:50 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.4110711	6.736886	F 34.38284	F 24.66467	F 95.69635	.2740214
Stddev	.0014228	.017207	.35537	.17516	.44011	.0003337
%RSD	.3461179	.2554132	1.033578	.7101456	.4598980	.1217617
#1	.4116029	6.736768	34.04461	24.86084	96.20027	.2738725
#2	.4121514	6.754152	34.35073	24.60922	95.38744	.2744036
#3	.4094590	6.719739	34.75317	24.52395	95.50134	.2737881

Elem	Sr4077
Units	ppm
Avg	.5754523
Stddev	.0093489
%RSD	1.624621
#1	.5831985
#2	.5780907
#3	.5650677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.860	60151.19	15333.50	1559.170	2845.668
Stddev	4.120	48.15	40.02	7.435	4.781
%RSD	.1829675	.0800465	.2610008	.4768603	.1679995
#1	2256.127	60160.05	15304.64	1566.545	2846.193
#2	2251.549	60194.30	15316.68	1559.290	2850.164
#3	2247.904	60099.23	15379.19	1551.676	2840.646

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01 Acquired: 12/6/2024 15:12:41 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0507858	-.003067	.0643563	-.021218	.0003570	50.89126	.2828305
Stddev	.0015994	.002516	.0010956	.001528	.0006518	.03198	.0005574
%RSD	3.149202	82.03272	1.702387	7.202989	182.5505	.0628459	.1970692
#1	.0505496	-.001218	.0646959	-.022529	.0005951	50.87306	.2829880
#2	.0524902	-.002050	.0652418	-.021586	.0008563	50.92819	.2832922
#3	.0493178	-.005932	.0631311	-.019539	-.000380	50.87252	.2822113

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047620	.0032006	3.727963	.1461329	.0414100	.0972053	133.2867
Stddev	.0000861	.0000910	.018278	.0003243	.0002173	.0002862	.4069
%RSD	1.807287	2.844519	.4902890	.2219202	.5248142	.2944042	.3052782
#1	.0048400	.0033005	3.706860	.1457611	.0415724	.0970120	132.9081
#2	.0046697	.0031222	3.738798	.1462800	.0414945	.0970698	133.7169
#3	.0047764	.0031792	3.738230	.1463576	.0411631	.0975340	133.2350

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9424324	5.620681	.0498281	.0000317	.0564931	.2584574	.1745682
Stddev	.0029131	.038955	.0001711	.0002520	.0021826	.0005464	.0005671
%RSD	.3091073	.6930657	.3434502	794.6464	3.863482	.2114052	.3248693
#1	.9390722	5.575707	.0500059	-.000171	.0583926	.2590500	.1741392
#2	.9442463	5.642442	.0498140	-.000047	.0541089	.2583486	.1752112
#3	.9439788	5.643893	.0496645	.000314	.0569777	.2579737	.1743543

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.025385	.0336710	.0047026	.0055027	.8561703	2.627519	1.376052
Stddev	.020556	.0013652	.0003125	.0006894	.0021047	.007484	.002037
%RSD	.5106701	4.054639	6.645439	12.52820	.2458316	.2848413	.1480632
#1	4.046923	.0326987	.0046963	.0061811	.8567263	2.618910	1.374771
#2	4.005976	.0352318	.0050183	.0048029	.8579412	2.631166	1.374984
#3	4.023255	.0330825	.0043933	.0055240	.8538434	2.632480	1.378402

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01 Acquired: 12/6/2024 15:12:41 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8728901	.0315295	-.105167
Stddev	.0042553	.0005649	.000425
%RSD	.4874915	1.791658	.4043490
#1	.8777177	.0311887	-.104714
#2	.8712689	.0321816	-.105558
#3	.8696838	.0312182	-.105228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2598.502	63424.98	14759.97	1788.061	4141.789
Stddev	4.237	52.68	8.22	7.696	4.606
%RSD	.1630722	.0830620	.0557120	.4304227	.1112039
#1	2598.185	63451.54	14769.00	1793.723	4136.487
#2	2602.888	63364.30	14758.00	1779.298	4144.086
#3	2594.431	63459.09	14752.92	1791.164	4144.796

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01DUP Acquired: 12/6/2024 15:16:51 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0507437	-.001268	.0642109	-.020288	-.000008	50.49349	.2831858
Stddev	.0014035	.001596	.0006245	.001844	.000968	.09357	.0009380
%RSD	2.765883	125.8453	.9725227	9.090687	12570.60	.1853126	.3312210
#1	.0495112	-.000995	.0634934	-.018808	-.000199	50.40390	.2821214
#2	.0504486	.000173	.0645074	-.019702	-.000865	50.59059	.2838914
#3	.0522713	-.002982	.0646319	-.022354	.001041	50.48598	.2835445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048773	.0028693	3.594454	.1468110	.0416604	.0988098	133.3792
Stddev	.0000514	.0000893	.030363	.0005705	.0000962	.0008348	.4201
%RSD	1.054650	3.111974	.8447069	.3886284	.2309062	.8448940	.3149504
#1	.0049352	.0029709	3.560436	.1465236	.0416064	.0978472	132.9339
#2	.0048370	.0028336	3.604116	.1474681	.0416034	.0993361	133.4352
#3	.0048597	.0028034	3.618810	.1464412	.0417715	.0992460	133.7684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9465513	5.643571	.0497547	-.000658	.0406173	.2595200	.1623884
Stddev	.0068812	.028126	.0001826	.000172	.0050702	.0025139	.0001018
%RSD	.7269804	.4983778	.3669803	26.13212	12.48292	.9686542	.0626826
#1	.9399339	5.611787	.0495970	-.000462	.0355309	.2566172	.1625059
#2	.9460508	5.653682	.0497124	-.000783	.0456712	.2609722	.1623296
#3	.9536691	5.665244	.0499547	-.000729	.0406499	.2609705	.1623296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.914974	.0371467	.0042164	.0056888	.8594578	2.622310	1.391769
Stddev	.034477	.0004492	.0001122	.0004655	.0056806	.016776	.001553
%RSD	.8806411	1.209360	2.661445	8.182897	.6609563	.6397576	.1116140
#1	3.912610	.0370105	.0043422	.0051994	.8545679	2.603274	1.392088
#2	3.950572	.0367814	.0041803	.0061260	.8581164	2.634938	1.390081
#3	3.881740	.0376483	.0041266	.0057408	.8656891	2.628718	1.393139

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01DUP Acquired: 12/6/2024 15:16:51 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8620275	.0311168	-.105498
Stddev	.0070027	.0001525	.000388
%RSD	.8123480	.4900715	.3674209
#1	.8551868	.0312668	-.105187
#2	.8617141	.0309619	-.105376
#3	.8691816	.0311215	-.105932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.418	64104.71	14716.11	1845.215	4201.201
Stddev	5.756	126.43	43.44	12.580	5.555
%RSD	.2155383	.1972256	.2951562	.6817504	.1322318
#1	2664.357	64012.60	14757.10	1832.227	4199.511
#2	2675.809	64052.68	14720.64	1846.077	4207.404
#3	2671.089	64248.85	14670.58	1857.342	4196.686

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01LX5 Acquired: 12/6/2024 15:21:02 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0113962	-.000138	.0133636	-.006143	-.000781	10.56137	.0606100
Stddev	.0031885	.001054	.0003626	.001960	.000172	.00330	.0005446
%RSD	27.97894	765.5232	2.713323	31.90907	22.06132	.0312016	.8984791
#1	.0149312	-.000144	.0129836	-.003906	-.000770	10.56508	.0599830
#2	.0087373	-.001188	.0137058	-.006966	-.000615	10.56022	.0609648
#3	.0105201	.000919	.0134016	-.007558	-.000959	10.55879	.0608823

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011238	.0001760	.7186874	.0312823	.0085896	.0215374	27.91170
Stddev	.0000889	.0000694	.0089631	.0004904	.0002009	.0004287	.08197
%RSD	7.910988	39.43672	1.247154	1.567767	2.338904	1.990466	.2936903
#1	.0010513	.0001568	.7113317	.0307572	.0087286	.0215671	27.82434
#2	.0012230	.0002529	.7286707	.0317285	.0086811	.0219505	27.92384
#3	.0010971	.0001182	.7160599	.0313612	.0083593	.0210947	27.98693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2075118	1.222991	.0103142	-.000330	.0425467	.0544235	.0324515
Stddev	.0003042	.014642	.0001629	.000181	.0173606	.0004118	.0001145
%RSD	.1465965	1.197246	1.579188	54.92495	40.80373	.7566120	.3529202
#1	.2077166	1.237854	.0101359	-.000237	.0263686	.0543540	.0325774
#2	.2071622	1.222539	.0103514	-.000215	.0403842	.0540509	.0324236
#3	.2076565	1.208580	.0104553	-.000539	.0608872	.0548656	.0323535

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7020650	.0052223	.0006770	.0000379	.1809859	.5241692	.2813168
Stddev	.0116264	.0002923	.0000596	.0006272	.0017752	.0065288	.0029921
%RSD	1.656023	5.597160	8.804077	1656.246	.9808474	1.245547	1.063619
#1	.6886470	.0049331	.0006183	.0002933	.1828594	.5178972	.2779200
#2	.7084006	.0052160	.0007375	.0004970	.1793289	.5236830	.2824681
#3	.7091475	.0055176	.0006752	-.000677	.1807694	.5309275	.2835623

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01LX5 Acquired: 12/6/2024 15:21:02 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.1764416	.0059048	-.022002
Stddev	.0003482	.0003453	.000072
%RSD	.1973442	5.847067	.3273257
#1	.1760674	.0055150	-.021921
#2	.1767561	.0061721	-.022059
#3	.1765015	.0060272	-.022025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.252	63400.10	13909.74	1879.198	4453.100
Stddev	4.035	57.71	47.98	3.647	2.317
%RSD	.1492701	.0910314	.3449078	.1940682	.0520409
#1	2704.242	63376.20	13877.52	1875.685	4450.573
#2	2706.701	63358.17	13886.82	1878.945	4455.127
#3	2698.815	63465.92	13964.87	1882.965	4453.600

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01MS Acquired: 12/6/2024 15:25:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8010300	1.874968	1.027130	1.719334	.3636938	75.23176	.5360764
Stddev	.0017663	.007879	.001560	.006017	.0007374	.14405	.0022513
%RSD	.2205035	.4202272	.1518898	.3499447	.2027487	.1914721	.4199555
#1	.7992597	1.874113	1.025374	1.718843	.3635155	75.10844	.5334809
#2	.8010381	1.867551	1.027661	1.713577	.3630619	75.19674	.5372490
#3	.8027923	1.883240	1.028356	1.725581	.3645040	75.39008	.5374993

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2067468	.2030028	5.076055	.5958219	.2541720	.4098726	176.3880
Stddev	.0001815	.0000646	.006143	.0021441	.0001913	.0003325	.3088
%RSD	.0877980	.0318136	.1210270	.3598616	.0752574	.0811214	.1750765
#1	.2067518	.2029367	5.069335	.5949848	.2543524	.4094987	176.0732
#2	.2065628	.2030061	5.077450	.5942226	.2541924	.4099839	176.4004
#3	.2069258	.2030657	5.081382	.5982583	.2539714	.4101351	176.6905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.231623	9.102359	.5718324	.0717926	2.709548	.6562518	.4097375
Stddev	.002379	.026534	.0005898	.0002289	.028932	.0026960	.0009103
%RSD	.1931208	.2915041	.1031337	.3188310	1.067770	.4108121	.2221674
#1	1.232611	9.130058	.5718037	.0717388	2.676493	.6584514	.4093459
#2	1.228909	9.077168	.5712575	.0720436	2.730265	.6532442	.4107781
#3	1.233348	9.099850	.5724360	.0715954	2.721887	.6570597	.4090885

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.46007	.2713391	.3828193	.6309925	1.279361	3.924791	7.362907
Stddev	.08806	.0011722	.0003691	.0016871	.002943	.010315	.019610
%RSD	.6542504	.4319964	.0964101	.2673700	.2300757	.2628185	.2663353
#1	13.35864	.2700141	.3823933	.6295549	1.275992	3.933141	7.384931
#2	13.50460	.2722407	.3830425	.6305728	1.281438	3.913260	7.347339
#3	13.51698	.2717627	.3830221	.6328498	1.280652	3.927973	7.356450

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01MS Acquired: 12/6/2024 15:25:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	1.000426	.2449499	.0757049
Stddev	.007241	.0012540	.0004623
%RSD	.7237502	.5119538	.6106537
#1	1.007551	.2435564	.0751821
#2	.993075	.2453057	.0760597
#3	1.000652	.2459876	.0758730

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.259	63523.46	14203.25	1825.834	4104.180
Stddev	4.181	107.58	23.53	9.011	3.954
%RSD	.1580021	.1693523	.1656900	.4935371	.0963289
#1	2650.793	63640.29	14182.48	1836.223	4108.550
#2	2642.554	63501.60	14228.81	1821.143	4103.139
#3	2645.431	63428.49	14198.45	1820.137	4100.852

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01MSD Acquired: 12/6/2024 15:29:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.7906202**	**1.854203**	**1.011283**	**1.707085**	**.3598908**	**74.07296**	**.5243022**
Stddev	.0022295	.014871	.002702	.003055	.0019342	.13299	.0025223
%RSD	.2819917	.8020194	.2672174	.1789597	.5374377	.1795422	.4810817
#1	.7914751	1.866685	1.008557	1.710609	.3594035	73.92867	.5230852
#2	.7880898	1.837749	1.011331	1.705449	.3620221	74.19063	.5272022
#3	.7922958	1.858175	1.013961	1.705197	.3582469	74.09957	.5226191

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2010445**	**.2000522**	**5.018781**	**.5882182**	**.2503718**	**.4022377**	**174.3632**
Stddev	.0004328	.0005320	.026643	.0016948	.0005088	.0012824	.4584
%RSD	.2152869	.2659192	.5308579	.2881277	.2032101	.3188165	.2629024
#1	.2015038	.1996594	5.022857	.5870699	.2497867	.4030489	174.1850
#2	.2006443	.1998398	5.043150	.5874198	.2506185	.4007592	174.8839
#3	.2009854	.2006576	4.990335	.5901647	.2507102	.4029049	174.0206

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.196414**	**8.895204**	**.5633070**	**.0710162**	**2.681158**	**.6424738**	**.4036929**
Stddev	.004912	.034840	.0009498	.0001253	.012598	.0012791	.0013173
%RSD	.4105530	.3916696	.1686175	.1763940	.4698754	.1990953	.3263222
#1	1.193455	8.913070	.5622250	.0711072	2.669224	.6410178	.4049597
#2	1.202084	8.917487	.5636931	.0710680	2.694329	.6434167	.4037888
#3	1.193703	8.855055	.5640031	.0708733	2.679921	.6429869	.4023302

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.43041**	**.2642312**	**.3803018**	**.6213081**	**1.254868**	**4.008086**	**7.281011**
Stddev	.05171	.0012016	.0002060	.0022410	.002710	.028645	.018259
%RSD	.3850222	.4547618	.0541747	.3606914	.2159475	.7146858	.2507699
#1	13.38939	.2631434	.3804677	.6208757	1.253402	3.983993	7.298759
#2	13.48850	.2640291	.3800712	.6193148	1.257996	4.039759	7.262281
#3	13.41335	.2655210	.3803666	.6237338	1.253207	4.000507	7.281992

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01MSD Acquired: 12/6/2024 15:29:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.9837880	.2402912	.0725262
Stddev	.0038941	.0010888	.0005085
%RSD	.3958318	.4531233	.7010863
#1	.9852748	.2392819	.0721521
#2	.9793694	.2414451	.0731051
#3	.9867197	.2401465	.0723213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2654.825	63501.98	14455.51	1822.261	4132.929
Stddev	5.472	20.10	26.23	4.108	1.163
%RSD	.2061055	.0316599	.1814825	.2254099	.0281363
#1	2649.247	63523.21	14437.89	1818.004	4132.049
#2	2655.045	63499.50	14442.98	1822.578	4132.490
#3	2660.184	63483.23	14485.66	1826.201	4134.247

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV04 Acquired: 12/6/2024 15:40:34 Type: Unk
Method: NON EPA-6010-200.7(v2506) 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	**4.871450**	**4.908309**	**4.955478**	**4.907397**	**4.784339**	**9.823094**	**9.560022**
Stddev	.013808	.079963	.005015	.020373	.009564	.014129	.056242
%RSD	.2834440	1.629128	.1012020	.4151412	.1998917	.1438353	.5883059
#1	4.860221	4.835755	4.955796	4.886493	4.773891	9.835030	9.565271
#2	4.886867	4.994042	4.960327	4.908505	4.786465	9.807494	9.501340
#3	4.867263	4.895128	4.950312	4.927193	4.792660	9.826759	9.613456

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2496168**	**2.498755**	**24.61994**	**1.016807**	**2.477214**	**1.244085**	**4.883362**
Stddev	.0008411	.000894	.05140	.004675	.001491	.000325	.015578
%RSD	.3369434	.0357603	.2087819	.4597451	.0602060	.0260930	.3190081
#1	.2486829	2.499681	24.57811	1.011772	2.477806	1.244029	4.865417
#2	.2498528	2.497898	24.60439	1.021010	2.475517	1.244434	4.893414
#3	.2503146	2.498686	24.67733	1.017639	2.478318	1.243792	4.891255

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.416118**	**24.75055**	**2.481885**	**1.227302**	**25.61600**	**2.480474**	**2.429368**
Stddev	.004623	.06588	.000142	.001959	.12535	.003113	.009329
%RSD	.1913355	.2661789	.0057160	.1595857	.4893578	.1255083	.3840148
#1	2.410818	24.69529	2.481967	1.225698	25.60984	2.478502	2.427276
#2	2.419316	24.73291	2.481721	1.226722	25.74432	2.484063	2.421263
#3	2.418221	24.82346	2.481966	1.229485	25.49384	2.478856	2.439566

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.46360**	**4.877799**	**4.994352**	**4.949422**	**4.818825**	**5.112867**	**4.950523**
Stddev	.07370	.010619	.009502	.006485	.001414	.028716	.018041
%RSD	.3140845	.2177057	.1902531	.1310352	.0293512	.5616387	.3644159
#1	23.42364	4.876261	4.983383	4.945620	4.817352	5.079774	4.938053
#2	23.54864	4.868033	5.000055	4.956911	4.818950	5.131210	4.971209
#3	23.41851	4.889103	4.999618	4.945736	4.820173	5.127617	4.942307

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV04 Acquired: 12/6/2024 15:40:34 Type: Unk
Method: NON EPA-6010-200.7(v2506) 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	**4.841848**	**4.649151**	**4.863035**
Stddev	.020232	.016855	.024974
%RSD	.4178511	.3625371	.5135547
#1	4.823163	4.643736	4.884991
#2	4.863334	4.668048	4.835866
#3	4.839046	4.635669	4.868249

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2460.820**	**58144.82**	**13436.07**	**1681.823**	**3913.893**
Stddev	4.661	55.20	29.46	5.247	6.405
%RSD	.1893928	.0949378	.2192607	.3120015	.1636509
#1	2463.787	58087.02	13407.59	1676.361	3917.659
#2	2463.224	58150.43	13466.42	1686.825	3917.523
#3	2455.448	58196.99	13434.19	1682.282	3906.498

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB04 Acquired: 12/6/2024 15:44:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0007085**	**-.001006**	**-.000117**	**-.000389**	**.0028155**	**.0137595**	**-.000866**
Stddev	.0029937	.001416	.001081	.001022	.0014688	.0020414	.000247
%RSD	422.5444	140.7781	924.3303	262.7037	52.16741	14.83619	28.56138
#1	-.002748	-.000426	.000451	-.000628	.0038779	.0142480	-.000582
#2	.002490	-.002620	-.001363	-.001271	.0034291	.0155122	-.000981
#3	.002383	.000028	.000561	.000731	.0011394	.0115181	-.001035

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000526**	**.0001713**	**-.001087**	**.0001504**	**.0001273**	**-.000242**	**.0077896**
Stddev	.0000761	.0000430	.007101	.0003046	.0001894	.000139	.0007308
%RSD	144.8086	25.08057	653.2334	202.4931	148.8508	57.39199	9.381869
#1	.0001383	.0002207	.004465	.0000678	.0001608	-.000126	.0085915
#2	.0000267	.0001426	-.009089	-.000104	.0002977	-.000204	.0076164
#3	-.000007	.0001506	.001362	.000488	-.000077	-.000396	.0071610

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005724**	**-.001006**	**.0005344**	**.0007873**	**.0507638**	**.0008439**	**-.000807**
Stddev	.0000974	.002728	.0003179	.0000992	.0125345	.0007522	.000137
%RSD	17.02349	271.1136	59.48745	12.59676	24.69173	89.14038	17.01410
#1	.0005157	.001661	.0006780	.0007893	.0365662	.0005222	-.000657
#2	.0006849	-.000888	.0001700	.0006872	.0554266	.0017035	-.000838
#3	.0005165	-.003792	.0007551	.0008855	.0602985	.0003059	-.000926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.060190**	**.0053236**	**.0010499**	**-.000830**	**.0013275**	**.0025687**	**-.002643**
Stddev	.001252	.0002836	.0002587	.000698	.0001246	.0034289	.000625
%RSD	2.080201	5.327156	24.63653	84.07984	9.382676	133.4920	23.63494
#1	-.058930	.0054273	.0012691	-.000437	.0012099	.0036280	-.001997
#2	-.060204	.0055407	.0007646	-.000418	.0013147	-.001265	-.003244
#3	-.061434	.0050027	.0011160	-.001636	.0014580	.005343	-.002689

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB04 Acquired: 12/6/2024 15:44:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.003846	-.000125	.0006486
Stddev	.001448	.000115	.0001072
%RSD	37.66146	92.01750	16.52099
#1	-.004755	-.000191	.0007380
#2	-.002175	.000008	.0006779
#3	-.004607	-.000190	.0005298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2624.178	62209.93	13624.71	1811.855	4525.391
Stddev	3.549	94.17	5.48	4.530	5.429
%RSD	.1352427	.1513690	.0402430	.2500282	.1199579
#1	2620.099	62168.06	13622.83	1806.802	4522.367
#2	2626.555	62143.96	13620.41	1813.207	4531.658
#3	2625.881	62317.77	13630.88	1815.555	4522.147

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01A Acquired: 12/6/2024 15:48:36 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8020518	1.870463	1.022877	1.730337	.3665896	74.13253	.5350920
Stddev	.0030644	.001542	.000719	.002561	.0009555	.16079	.0033836
%RSD	.3820651	.0824304	.0702595	.1479982	.2606485	.2168934	.6323414
#1	.8040639	1.870924	1.022262	1.732627	.3676799	74.02354	.5326260
#2	.7985251	1.871722	1.023667	1.727572	.3658981	74.05685	.5337006
#3	.8035665	1.868744	1.022702	1.730812	.3661908	74.31719	.5389495

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1997755	.2019722	5.112447	.5859793	.2535028	.4046543	176.8169
Stddev	.0006813	.0001000	.019788	.0026249	.0003411	.0021837	1.0668
%RSD	.3410226	.0494854	.3870476	.4479493	.1345546	.5396568	.6033317
#1	.1993740	.2018568	5.098910	.5843049	.2534991	.4071339	175.6543
#2	.1993903	.2020262	5.135156	.5846284	.2538457	.4030177	177.0458
#3	.2005621	.2020334	5.103275	.5890045	.2531635	.4038112	177.7507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.210812	8.842035	.5696116	.0723043	2.750030	.6432086	.4068880
Stddev	.007403	.036832	.0007598	.0002823	.018828	.0050949	.0015795
%RSD	.6113682	.4165516	.1333952	.3903901	.6846482	.7921096	.3881796
#1	1.202294	8.807098	.5687571	.0720649	2.745478	.6377830	.4073573
#2	1.214452	8.880506	.5702113	.0722324	2.733896	.6439515	.4081796
#3	1.215689	8.838502	.5698664	.0726156	2.770717	.6478913	.4051270

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.75183	.2692970	.3821765	.6299672	1.276936	4.259813	7.325275
Stddev	.06514	.0033557	.0013063	.0018915	.006814	.007213	.013534
%RSD	.4736755	1.246115	.3418071	.3002583	.5336522	.1693189	.1847527
#1	13.74265	.2656811	.3834147	.6278163	1.269314	4.251533	7.326643
#2	13.69177	.2698986	.3808114	.6307141	1.279054	4.264730	7.311109
#3	13.82108	.2723112	.3823033	.6313713	1.282440	4.263176	7.338072

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5076-01A Acquired: 12/6/2024 15:48:36 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	1.000223	.2442233	.0740212
Stddev	.007765	.0014626	.0006438
%RSD	.7762864	.5988917	.8697237
#1	1.009174	.2436869	.0740608
#2	.996185	.2431046	.0733585
#3	.995309	.2458784	.0746443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2635.256	63477.57	14526.08	1834.856	4091.017
Stddev	10.365	24.34	22.51	6.694	6.015
%RSD	.3933367	.0383434	.1549380	.3648414	.1470279
#1	2624.787	63490.66	14548.43	1829.605	4085.332
#2	2645.515	63492.56	14503.42	1832.568	4097.315
#3	2635.467	63449.49	14526.39	1842.394	4090.405

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5095-01 Acquired: 12/6/2024 15:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0660730**	**-.005892**	**.2627390**	**-.072798**	**-.001082**	**149.6222**
Stddev	.0012334	.004945	.0047931	.001194	.002142	.3302
%RSD	1.866709	83.92975	1.824299	1.640166	197.9538	.2206814
#1	.0663880	-.000182	.2578816	-.073676	-.001959	149.2412
#2	.0647126	-.008719	.2628701	-.073279	.001359	149.7992
#3	.0671183	-.008775	.2674652	-.071439	-.002647	149.8260

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.658759**	**.0173459**	**.0372384**	**94.57198**	**.3467686**	**.2226975**
Stddev	.004250	.0000055	.0003843	.32576	.0014078	.0003848
%RSD	.1598307	.0314838	1.032091	.3444612	.4059880	.1728092
#1	2.654304	.0173520	.0367953	94.79658	.3483914	.2224285
#2	2.659205	.0173443	.0374818	94.72101	.3458736	.2225257
#3	2.662768	.0173415	.0374381	94.19836	.3460409	.2231383

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2669257**	**361.2345**	**8.616108**	**92.72572**	**.4807973**	**-.001713**
Stddev	.0005631	1.8561	.028363	.23571	.0012002	.000732
%RSD	.2109409	.5138285	.3291902	.2542064	.2496289	42.73480
#1	.2674051	361.0519	8.611316	92.79820	.4800094	-.002412
#2	.2670663	359.4765	8.646562	92.91668	.4802039	-.001774
#3	.2663057	363.1752	8.590446	92.46228	.4821786	-.000952

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.67135**	**.4192963**	**.9273600**	**34.09031**	**.1608996**	**.0020068**
Stddev	.02935	.0005977	.0017148	.01276	.0028890	.0002217
%RSD	.2146683	.1425474	.1849089	.0374422	1.795518	11.04531
#1	13.63852	.4188758	.9293099	34.07757	.1603855	.0019587
#2	13.69505	.4190325	.9266831	34.10310	.1583021	.0018132
#3	13.68047	.4199805	.9260870	34.09027	.1640111	.0022486

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5095-01 Acquired: 12/6/2024 15:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0099545	3.664020	1.751450	F 10.67311	.5864354	.3808473
Stddev	.0006672	.004621	.015485	.03081	.0016600	.0011956
%RSD	6.702644	.1261156	.8841344	.2886977	.2830631	.3139410
#1	.0100319	3.658762	1.768904	10.63841	.5875853	.3794667
#2	.0092519	3.667437	1.739362	10.69726	.5845323	.3815344
#3	.0105796	3.665860	1.746083	10.68367	.5871885	.3815408

Elem	Sr4077
Units	ppm
Avg	-.055206
Stddev	.001970
%RSD	3.567757
#1	-.055965
#2	-.052970
#3	-.056683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2931.115	71957.98	17297.47	2043.715	3557.422
Stddev	12.689	104.54	13.24	4.330	13.012
%RSD	.4329025	.1452760	.0765417	.2118914	.3657729
#1	2934.813	71849.11	17292.13	2040.032	3563.737
#2	2941.543	71967.26	17287.74	2048.485	3566.072
#3	2916.987	72057.56	17312.55	2042.626	3542.458

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5096-01 Acquired: 12/6/2024 15:56:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.3334467**	**.0257821**	**3.182391**	**-.136423**	**.0141929**	**174.0356**
Stddev	.0018470	.0013860	.003830	.004446	.0005661	.3607
%RSD	.5539154	5.375768	.1203635	3.258804	3.988831	.2072796
#1	.3344588	.0264667	3.183514	-.141510	.0137448	173.8475
#2	.3313148	.0241870	3.178125	-.133286	.0140047	174.4515
#3	.3345664	.0266926	3.185535	-.134472	.0148292	173.8077

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.477616**	**.0196597**	**.0808840**	**49.93919**	**.9431221**	**.2978337**
Stddev	.006696	.0000585	.0007975	.13694	.0018145	.0012776
%RSD	.2702502	.2977369	.9860308	.2742105	.1923972	.4289570
#1	2.469885	.0196339	.0817391	49.99503	.9436542	.2970339
#2	2.481407	.0197267	.0801604	50.03938	.9411010	.2971600
#3	2.481556	.0196184	.0807525	49.78315	.9446111	.2993071

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.074847**	**664.5556**	**11.08320**	**92.42676**	**.6398744**	**-.007650**
Stddev	.006315	4.7411	.02292	.29550	.0006705	.000289
%RSD	.5875577	.7134213	.2067653	.3197131	.1047877	3.780002
#1	1.081969	659.3638	11.06273	92.59526	.6397015	-.007928
#2	1.069928	668.6555	11.10795	92.59947	.6393072	-.007351
#3	1.072645	665.6475	11.07892	92.08556	.6406144	-.007671

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.42369**	**.6321748**	**2.389870**	**28.20516**	**.1468947**	**.0167943**
Stddev	.07622	.0020205	.004076	.14708	.0065342	.0001235
%RSD	.5678140	.3196124	.1705504	.5214532	4.448192	.7356192
#1	13.34292	.6300870	2.385168	28.03734	.1396743	.0168165
#2	13.49436	.6341206	2.392405	28.31161	.1486090	.0166611
#3	13.43379	.6323166	2.392036	28.26654	.1524008	.0169052

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5096-01 Acquired: 12/6/2024 15:56:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.2129698	3.414836	2.220070	F 10.93390	1.761453	.5559496
Stddev	.0013352	.006160	.018741	.06572	.012349	.0011714
%RSD	.6269271	.1804000	.8441769	.6010566	.7010508	.2106940
#1	.2119140	3.411570	2.199278	10.86564	1.756798	.5546541
#2	.2144707	3.421942	2.225273	10.93931	1.752108	.5569339
#3	.2125248	3.410996	2.235661	10.99674	1.775452	.5562609

Elem	Sr4077
Units	ppm
Avg	-.362510
Stddev	.004209
%RSD	1.161013
#1	-.357891
#2	-.366129
#3	-.363510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.737	67172.09	16081.91	1892.834	3559.041
Stddev	3.546	224.02	6.45	7.891	2.214
%RSD	.1315443	.3335006	.0401139	.4168657	.0622133
#1	2691.981	67429.88	16074.95	1901.889	3557.217
#2	2696.202	67024.64	16083.10	1887.433	3561.504
#3	2699.027	67061.76	16087.69	1889.180	3558.401

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5096-05 Acquired: 12/6/2024 16:01:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0620407**	**-.004251**	**2.160962**	**-.062713**	**.0026591**	**143.4972**
Stddev	.0016048	.000539	.006908	.000994	.0022106	.0618
%RSD	2.586715	12.68000	.3196883	1.585728	83.13179	.0430369
#1	.0622794	-.004862	2.153853	-.063741	.0002462	143.5644
#2	.0635129	-.003844	2.161383	-.062641	.0031444	143.4430
#3	.0603300	-.004046	2.167650	-.061756	.0045867	143.4841

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.153693**	**.0138794**	**.0326939**	**60.63651**	**.3272727**	**.2236688**
Stddev	.003892	.0000978	.0003587	.25225	.0008524	.0006305
%RSD	.1807280	.7043662	1.097275	.4160026	.2604683	.2818796
#1	2.158059	.0138513	.0328335	60.82144	.3275272	.2231480
#2	2.150586	.0137987	.0322864	60.73893	.3279690	.2234888
#3	2.152436	.0139881	.0329619	60.34916	.3263220	.2243697

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3938216**	**323.1945**	**7.079960**	**70.96304**	**.4195053**	**-.001254**
Stddev	.0010677	1.2020	.022607	.28940	.0015268	.000469
%RSD	.2711072	.3719076	.3193100	.4078240	.3639433	37.40994
#1	.3946122	322.3243	7.096419	71.14843	.4190653	-.001476
#2	.3926071	322.6930	7.089277	71.11113	.4182468	-.001570
#3	.3942456	324.5660	7.054183	70.62956	.4212037	-.000715

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.417955**	**.4529929**	**1.330121**	**17.53829**	**.1312888**	**.0081116**
Stddev	.003064	.0001580	.002359	.01124	.0022438	.0000801
%RSD	.0413094	.0348818	.1773632	.0640671	1.709036	.9880386
#1	7.421357	.4531073	1.332437	17.55125	.1293760	.0081698
#2	7.417099	.4528126	1.330205	17.53120	.1307318	.0080202
#3	7.415411	.4530588	1.327721	17.53243	.1337587	.0081450

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5096-05 Acquired: 12/6/2024 16:01:18 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0331104	2.656104	2.525707	F 10.22652	1.391039	.3901387
Stddev	.0003504	.004371	.010587	.04630	.000655	.0008372
%RSD	1.058335	.1645630	.4191529	.4527107	.0471144	.2145976
#1	.0335033	2.660889	2.513701	10.25249	1.391127	.3910301
#2	.0328303	2.655102	2.529719	10.17307	1.390344	.3893689
#3	.0329975	2.652322	2.533702	10.25400	1.391645	.3900170

Elem	Sr4077
Units	ppm
Avg	-.062073
Stddev	.001678
%RSD	2.703035
#1	-.060694
#2	-.061585
#3	-.063941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.417	70655.40	16956.12	2011.333	3662.073
Stddev	5.292	95.62	36.99	5.324	5.066
%RSD	.1835992	.1353333	.2181607	.2646768	.1383336
#1	2877.364	70744.06	16922.52	2016.948	3663.909
#2	2887.919	70668.04	16950.08	2006.359	3665.965
#3	2881.967	70554.08	16995.76	2010.692	3656.345

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5098-01 Acquired: 12/6/2024 16:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0410071	.0014718	.1284644	-.028022	-.000721	89.51540	.3671863
Stddev	.0013509	.0009713	.0002879	.002856	.001912	.02819	.0004858
%RSD	3.294176	65.99429	.2241329	10.19226	265.2137	.0314917	.1323028
#1	.0398995	.0013657	.1283057	-.030460	-.002927	89.51689	.3677451
#2	.0406097	.0024917	.1287968	-.024880	.000459	89.48649	.3669500
#3	.0425121	.0005579	.1282907	-.028726	.000305	89.54282	.3668639

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062853	.0066091	20.40521	.1423034	.0764441	1.099514	169.6166
Stddev	.0000078	.0002468	.11223	.0008991	.0007320	.010800	.7290
%RSD	.1244491	3.734338	.5500023	.6318058	.9575680	.9822286	.4297681
#1	.0062885	.0068103	20.42549	.1426626	.0768206	1.103647	169.5041
#2	.0062909	.0066833	20.50592	.1429674	.0769113	1.107637	170.3952
#3	.0062763	.0063337	20.28423	.1412803	.0756005	1.087258	168.9503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.283766	34.75509	.1592855	.0005509	1.986836	.2228875	.4428602
Stddev	.019755	.23705	.0013058	.0003745	.006841	.0014155	.0016529
%RSD	.6016078	.6820515	.8198065	67.97541	.3443037	.6350862	.3732260
#1	3.296776	34.82687	.1596044	.0001686	1.991408	.2241872	.4409808
#2	3.293488	34.94796	.1604024	.0005672	1.978972	.2230960	.4435120
#3	3.261033	34.49045	.1578498	.0009170	1.990129	.2213793	.4440878

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.671627	.0725532	.0010955	.0057220	1.194843	3.721503	3.124033
Stddev	.022416	.0006933	.0002815	.0009396	.002812	.017161	.011817
%RSD	.3359941	.9556164	25.69956	16.42111	.2353792	.4611188	.3782451
#1	6.659607	.0717760	.0012853	.0066456	1.195801	3.740850	3.121194
#2	6.657784	.0727752	.0012291	.0057535	1.197052	3.708122	3.137010
#3	6.697490	.0731083	.0007720	.0047671	1.191677	3.715536	3.113894

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5098-01 Acquired: 12/6/2024 16:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	1.286419	.1810609	-.066442
Stddev	.009302	.0010719	.000859
%RSD	.7230791	.5920155	1.293298
#1	1.295906	.1808529	-.066116
#2	1.286038	.1801082	-.067417
#3	1.277314	.1822216	-.065794

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2645.473	64025.50	15013.15	1809.300	3963.468
Stddev	22.798	92.42	59.70	10.037	31.098
%RSD	.8617616	.1443475	.3976785	.5547558	.7846216
#1	2632.207	64132.21	14980.28	1819.299	3946.303
#2	2632.415	63972.27	14977.11	1809.376	3944.735
#3	2671.797	63972.01	15082.07	1799.225	3999.366

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5100-01 Acquired: 12/6/2024 16:09:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0423989**	**-.008881**	**.3739336**	**-.035465**	**-.000573**	**119.2298**	**.5110811**
Stddev	.0013573	.002344	.0014204	.000753	.000890	.1821	.0020378
%RSD	3.201283	26.39202	.3798654	2.123525	155.2002	.1527136	.3987170
#1	.0421225	-.011164	.3729176	-.035044	.000451	119.0237	.5097936
#2	.0412010	-.006480	.3733264	-.035016	-.001156	119.2969	.5134305
#3	.0438731	-.009000	.3755567	-.036335	-.001014	119.3688	.5100193

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078962**	**.0135178**	**90.60498**	**.1727415**	**.0866135**	**.1699619**	**201.9608**
Stddev	.0001989	.0002097	.27375	.0006403	.0000626	.0023599	.8663
%RSD	2.518571	1.550965	.3021324	.3706879	.0723110	1.388464	.4289325
#1	.0079198	.0133006	90.77660	.1732164	.0866440	.1687998	202.7011
#2	.0076865	.0135338	90.74907	.1729947	.0865414	.1684084	202.1733
#3	.0080821	.0137190	90.28929	.1720132	.0866550	.1726774	201.0081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.636478**	**50.70888**	**.1623657**	**-.001193**	**4.979631**	**.3097306**	**.6320704**
Stddev	.016519	.18381	.0006449	.000264	.021352	.0023935	.0019098
%RSD	.4542666	.3624835	.3971800	22.08468	.4287840	.7727544	.3021506
#1	3.636395	50.89215	.1623259	-.001395	4.992742	.3077539	.6338683
#2	3.653038	50.70996	.1630295	-.000895	4.991158	.3123917	.6300656
#3	3.620000	50.52454	.1617416	-.001290	4.954993	.3090461	.6322774

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.455824**	**.0687989**	**.0022588**	**.0155317**	**2.655596**	**5.512631**	**5.764023**
Stddev	.015662	.0021767	.0002232	.0011498	.006211	.024593	.023525
%RSD	.2426082	3.163799	9.881585	7.403115	.2338772	.4461123	.4081275
#1	6.448702	.0712377	.0021028	.0154576	2.657132	5.534483	5.738287
#2	6.473782	.0681059	.0021592	.0144207	2.660896	5.517410	5.769364
#3	6.444989	.0670532	.0025145	.0167168	2.648762	5.485999	5.784418

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5100-01 Acquired: 12/6/2024 16:09:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	1.357278	.0953579	.0179721
Stddev	.004953	.0001887	.0009793
%RSD	.3649587	.1979177	5.448875
#1	1.353039	.0954206	.0168528
#2	1.356070	.0955073	.0183925
#3	1.362723	.0951458	.0186710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2801.360	66889.03	15773.89	1923.082	3822.568
Stddev	3.373	125.43	31.78	10.279	2.077
%RSD	.1203914	.1875155	.2014813	.5345144	.0543341
#1	2799.044	66774.57	15795.89	1916.170	3821.116
#2	2805.229	66869.40	15737.45	1918.181	3821.640
#3	2799.807	67023.12	15788.33	1934.894	3824.947

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5105-01 Acquired: 12/6/2024 16:13:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**1.511848**	**.0225062**	**.5971194**	**-.151098**	**.0158662**	**156.4332**
Stddev	.003021	.0008476	.0026456	.000276	.0011747	.4303
%RSD	.1998128	3.766130	.4430520	.1824867	7.403468	.2750946
#1	1.508370	.0227976	.5972882	-.150926	.0169454	156.4469
#2	1.513360	.0215514	.5996764	-.150952	.0146151	155.9962
#3	1.513815	.0231697	.5943934	-.151416	.0160381	156.8566

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.126220**	**.0311318**	**.0853952**	**190.3259**	**.4556571**	**.4811361**
Stddev	.002456	.0002891	.0009224	.1193	.0003325	.0009713
%RSD	.2180405	.9284716	1.080174	.0626840	.0729805	.2018844
#1	1.123951	.0308003	.0843947	190.4350	.4553481	.4812146
#2	1.128828	.0313307	.0862119	190.1985	.4560090	.4801279
#3	1.125882	.0312646	.0855788	190.3441	.4556141	.4820658

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5985412**	**654.8583**	**10.76360**	**118.4091**	**.4996559**	**-.017597**
Stddev	.0033581	3.2793	.00946	.2888	.0014087	.000719
%RSD	.5610532	.5007684	.0878649	.2439138	.2819381	4.088711
#1	.5948011	657.9058	10.76018	118.2485	.5006313	-.016869
#2	.6012979	651.3882	10.77429	118.2364	.4980409	-.018308
#3	.5995245	655.2811	10.75633	118.7426	.5002956	-.017615

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.127734**	**.5224558**	**1.670848**	**16.30853**	**.1501219**	**.0065950**
Stddev	.001838	.0015267	.005610	.02837	.0060344	.0001239
%RSD	.1629470	.2922198	.3357444	.1739771	4.019634	1.879087
#1	1.129571	.5217964	1.677313	16.33651	.1569478	.0065568
#2	1.127736	.5213696	1.667966	16.30932	.1454972	.0067335
#3	1.125895	.5242014	1.667266	16.27978	.1479207	.0064946

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5105-01 Acquired: 12/6/2024 16:13:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0363836	3.249689	2.462031	F 10.43597	1.163072	.0987647
Stddev	.0014614	.007062	.002134	.03155	.010940	.0006340
%RSD	4.016739	.2173098	.0866690	.3023276	.9406491	.6419160
#1	.0358083	3.241692	2.464480	10.42127	1.163941	.0981751
#2	.0380452	3.255070	2.460567	10.41445	1.151722	.0986839
#3	.0352975	3.252304	2.461047	10.47219	1.173551	.0994353

Elem	Sr4077
Units	ppm
Avg	-.280948
Stddev	.004007
%RSD	1.426194
#1	-.284873
#2	-.276864
#3	-.281107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2936.658	72883.78	17194.56	2069.041	3517.950
Stddev	5.547	123.58	22.45	14.619	5.463
%RSD	.1888769	.1695541	.1305884	.7065459	.1552792
#1	2942.974	72744.30	17211.48	2052.290	3524.113
#2	2932.581	72979.60	17203.11	2075.608	3516.032
#3	2934.419	72927.44	17169.08	2079.224	3513.706

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5108-01 Acquired: 12/6/2024 16:17:59 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0232476**	**-.144684**	**.0715845**	**-.151204**	**-.001825**	**397.4076**
Stddev	.0024535	.004630	.0028336	.001477	.001757	2.6719
%RSD	10.55396	3.199892	3.958416	.9768888	96.28363	.6723226
#1	.0259266	-.145910	.0686989	-.151914	-.003383	394.6942
#2	.0227063	-.148577	.0716915	-.149506	.000080	397.4926
#3	.0211099	-.139565	.0743631	-.152193	-.002173	400.0359

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2800928**	**.0123863**	**.0989660**	**308.2720**	**.3027911**	**.5597849**
Stddev	.0003304	.0000490	.0002762	1.0682	.0011193	.0010702
%RSD	.1179790	.3958623	.2790740	.3465097	.3696428	.1911835
#1	.2797714	.0124353	.0987396	307.0582	.3015240	.5590264
#2	.2800754	.0123863	.0988846	309.0689	.3032041	.5593192
#3	.2804316	.0123372	.0992737	308.6890	.3036451	.5610090

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.111464**	**628.0008**	**6.502136**	**327.6811**	**.8785334**	**-.006263**
Stddev	.005522	.7797	.027083	.9096	.0017905	.001059
%RSD	.4967979	.1241536	.4165278	.2775863	.2038032	16.91279
#1	1.110052	627.9221	6.471502	326.6629	.8767384	-.005055
#2	1.117554	627.2634	6.522901	328.4135	.8785427	-.007036
#3	1.106784	628.8168	6.512005	327.9669	.8803193	-.006697

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.305046**	**1.655825**	**.8179886**	**.7307708**	**.5133600**	**-.005041**
Stddev	.018668	.003258	.0004857	.0036873	.0047393	.000479
%RSD	.2247772	.1967719	.0593761	.5045761	.9231915	9.491809
#1	8.321939	1.652370	.8174356	.7266065	.5093181	-.005529
#2	8.285004	1.658842	.8183459	.7320849	.5121859	-.004572
#3	8.308194	1.656263	.8181842	.7336211	.5185759	-.005023

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5108-01 Acquired: 12/6/2024 16:17:59 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.028593**	F **34.64821**	**1.594498**	F **10.06334**	**5.372772**	**.2159755**
Stddev	.001877	.07118	.005285	.01217	.023076	.0008119
%RSD	6.564271	.2054280	.3314612	.1209141	.4295007	.3759029
#1	-.026449	34.57695	1.589659	10.07024	5.347910	.2156656
#2	-.029938	34.71931	1.593698	10.04929	5.376902	.2153643
#3	-.029391	34.64836	1.600138	10.07049	5.393505	.2168967

Elem	Sr4077
Units	ppm
Avg	**-.246495**
Stddev	.000471
%RSD	.1908798
#1	-.246858
#2	-.245963
#3	-.246663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2684.198**	**67414.40**	**16795.77**	**1858.972**	**3159.876**
Stddev	7.646	71.05	34.90	5.074	5.890
%RSD	.2848387	.1053945	.2078125	.2729661	.1864143
#1	2675.377	67362.67	16834.75	1855.363	3155.023
#2	2688.297	67495.41	16785.13	1864.774	3166.429
#3	2688.920	67385.12	16767.42	1856.779	3158.174

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LR1 Acquired: 12/6/2024 16:25:34 Type: Unk
Method: NON EPA-6010-200.7(v2503) 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	**.0422990**	**-.022119**	**-.013169**	**-.235352**	**-.008285**	**1852.242**	**.0135875**
Stddev	.0120978	.006193	.006950	.007612	.002099	6.231	.0001215
%RSD	28.60062	27.99799	52.77547	3.234438	25.33923	.3364232	.8945169
#1	.0301180	-.029208	-.020690	-.236433	-.008236	1849.245	.0134488
#2	.0424672	-.019390	-.006983	-.227257	-.006211	1848.075	.0136752
#3	.0543117	-.017759	-.011835	-.242366	-.010409	1859.405	.0136385

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097751**	**.1278610**	**1641.661**	**-.001590**	**.0467936**	**.3264891**	**988.9050**
Stddev	.0000915	.0020134	3.913	.000354	.0008362	.0091202	8.7918
%RSD	.9359202	1.574694	.2383632	22.27388	1.787086	2.793425	.8890433
#1	.0097176	.1256245	1645.931	-.001783	.0459436	.3160220	998.6702
#2	.0097271	.1295292	1640.806	-.001182	.0476154	.3327264	981.6190
#3	.0098806	.1284294	1638.246	-.001807	.0468219	.3307190	986.4259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.109808**	**1693.142**	**.0166376**	**-.043808**	**1831.461**	**.0616388**	**.3326270**
Stddev	.001053	7.956	.0009103	.002414	6.451	.0019591	.0040390
%RSD	.9585076	.4699233	5.471323	5.511252	.3522142	3.178382	1.214270
#1	-.108650	1701.942	.0156093	-.041658	1837.284	.0595432	.3325734
#2	-.110705	1686.455	.0173402	-.046420	1832.571	.0619486	.3366925
#3	-.110070	1691.029	.0169634	-.043345	1824.527	.0634246	.3286151

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1252.030**	**.1173760**	**-.013046**	**.0074727**	**-.036546**	**.1458906**	**.0893452**
Stddev	1.566	.0145757	.001908	.0051191	.000370	.0142223	.0173374
%RSD	.1250966	12.41795	14.62391	68.50448	1.012929	9.748607	19.40491
#1	1252.170	.1341377	-.014503	.0071343	-.036913	.1562973	.0720385
#2	1253.522	.1076779	-.013749	.0025311	-.036553	.1516896	.1067131
#3	1250.399	.1103124	-.010887	.0127526	-.036172	.1296850	.0892841

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LR1 Acquired: 12/6/2024 16:25:34 Type: Unk
Method: NON EPA-6010-200.7(v2503) 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	**-.217380**	**-.262678**	**-.977592**
Stddev	.014857	.000185	.008765
%RSD	6.834731	.0704112	.8965805
#1	-.226108	-.262891	-.987332
#2	-.200225	-.262559	-.970339
#3	-.225806	-.262584	-.975106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1450.200**	**36580.06**	**10093.19**	**993.7973**	**2068.371**
Stddev	6.039	35.80	17.61	3.6226	2.542
%RSD	.4164289	.0978789	.1744642	.3645169	.1229194
#1	1452.576	36561.12	10083.45	991.8829	2070.030
#2	1443.334	36557.70	10082.61	991.5336	2065.444
#3	1454.689	36621.35	10113.52	997.9754	2069.639

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LR2 Acquired: 12/6/2024 16:30:30 Type: Unk
Method: NON EPA-6010-200.7(v2503) 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	.0125600	-.044675	229.6170	.0043546	-.001667	.0795559	^F *****
Stddev	.0012082	.003445	.2150	.0026753	.000617	.0099539	-----
%RSD	9.619022	7.710994	.0936331	61.43619	37.03043	12.51183	-----
#1	.0112964	-.045377	229.3941	.0033837	-.002240	.0806241	^ -----
#2	.0126799	-.040933	229.6339	.0023004	-.001014	.0889326	^ -----
#3	.0137038	-.047714	229.8231	.0073799	-.001747	.0691110	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002632	-.006935	.3198716	.0131360	-.026987	257.6941	.0117410
Stddev	.000067	.000013	.0093928	.0002355	.000394	.8256	.0100718
%RSD	2.551334	.1812600	2.936418	1.792835	1.460254	.3203631	85.78270
#1	-.002574	-.006938	.3148216	.0128838	-.027014	257.5704	.0130504
#2	-.002706	-.006921	.3307090	.0133502	-.027367	256.9373	.0210941
#3	-.002616	-.006945	.3140841	.0131740	-.026580	258.5745	.0010786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.90602	-.068677	46.70814	.0056260	.8705715	-.016959	36.46378
Stddev	.47557	.011462	.01020	.0000794	.0378797	.000759	.21477
%RSD	1.083159	16.68951	.0218395	1.410557	4.351129	4.478033	.5889964
#1	43.60636	-.072496	46.70175	.0055477	.8971401	-.016095	36.43055
#2	43.65733	-.055793	46.70277	.0056239	.8873781	-.017258	36.26756
#3	44.45437	-.077742	46.71991	.0057064	.8271965	-.017523	36.69322

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5992306	-.002953	-.005429	-.006214	-.044222	-.002500	2.083949
Stddev	.0636726	.000609	.000393	.000109	.000328	.001957	.021091
%RSD	10.62572	20.61054	7.231613	1.749133	.7407660	78.31505	1.012084
#1	.6616584	-.003086	-.005792	-.006146	-.043970	-.002364	2.061531
#2	.6016509	-.003483	-.005482	-.006158	-.044103	-.004521	2.103399
#3	.5343823	-.002288	-.005012	-.006340	-.044592	-.000613	2.086917

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: LR2 Acquired: 12/6/2024 16:30:30 Type: Unk
Method: NON EPA-6010-200.7(v2503) 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	-.035326	.0005490	.0019267
Stddev	.003565	.0002936	.0000341
%RSD	10.09046	53.47326	1.771168
#1	-.032135	.0008360	.0018942
#2	-.039173	.0005617	.0019237
#3	-.034671	.0002493	.0019622

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.296	59428.69	13538.52	1642.441	4043.277
Stddev	6.531	103.33	122.90	6.133	6.900
%RSD	.2949293	.1738699	.9077993	.3734232	.1706416
#1	2220.854	59402.45	13622.98	1648.250	4050.061
#2	2214.241	59542.61	13595.06	1643.045	4043.504
#3	2207.794	59341.01	13397.52	1636.028	4036.267

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV05 Acquired: 12/6/2024 16:35:39 Type: Unk
Method: NON EPA-6010-200.7(v2504) 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	**4.808900**	**4.818442**	**4.887056**	**4.845994**	**4.734450**	**9.797142**	**9.512353**
Stddev	.025705	.063305	.036579	.035195	.015147	.037731	.057844
%RSD	.5345266	1.313797	.7484774	.7262679	.3199416	.3851185	.6080925
#1	4.838304	4.891489	4.924535	4.886517	4.748907	9.755965	9.508266
#2	4.797708	4.779573	4.885183	4.828404	4.735747	9.830057	9.572133
#3	4.790690	4.784262	4.851450	4.823062	4.718695	9.805403	9.456662

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2500765**	**2.462236**	**24.45549**	**1.005357**	**2.442693**	**1.232115**	**4.848170**
Stddev	.0012737	.014676	.06171	.001759	.016618	.008554	.012439
%RSD	.5093438	.5960301	.2523502	.1749353	.6803123	.6942589	.2565658
#1	.2500881	2.477492	24.40208	1.004426	2.459593	1.240788	4.835611
#2	.2513445	2.460996	24.52305	1.007385	2.442116	1.231871	4.860485
#3	.2487970	2.448219	24.44134	1.004259	2.426372	1.223685	4.848415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.418867**	**24.48971**	**2.446564**	**1.222560**	**25.31137**	**2.468717**	**2.384496**
Stddev	.004770	.18759	.013225	.003271	.34814	.006895	.010459
%RSD	.1971916	.7659860	.5405641	.2675748	1.375430	.2792796	.4386280
#1	2.417869	24.27672	2.459890	1.224588	25.69706	2.462616	2.385589
#2	2.424057	24.63035	2.446360	1.224306	25.21668	2.476197	2.394366
#3	2.414675	24.56206	2.433441	1.218786	25.02037	2.467339	2.373534

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.23568**	**4.909185**	**4.921135**	**4.878396**	**4.826850**	**5.012539**	**4.885792**
Stddev	.03630	.016720	.026047	.034374	.009375	.011366	.042655
%RSD	.1562084	.3405810	.5292864	.7046128	.1942216	.2267589	.8730426
#1	23.25815	4.912814	4.948260	4.915669	4.822064	5.006105	4.934246
#2	23.19381	4.923792	4.918823	4.871573	4.837652	5.005850	4.869217
#3	23.25509	4.890949	4.896321	4.847945	4.820836	5.025663	4.853912

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV05 Acquired: 12/6/2024 16:35:39 Type: Unk
Method: NON EPA-6010-200.7(v2504) 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	**4.787840**	**4.646205**	**4.873138**
Stddev	.039982	.008017	.021356
%RSD	.8350730	.1725435	.4382413
#1	4.834001	4.652411	4.895247
#2	4.764134	4.649052	4.852625
#3	4.765384	4.637154	4.871541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2492.839**	**58609.91**	**13423.11**	**1703.552**	**3969.966**
Stddev	10.197	82.28	47.90	6.392	20.305
%RSD	.4090674	.1403833	.3568630	.3752196	.5114666
#1	2483.904	58576.88	13427.59	1700.832	3951.279
#2	2490.666	58549.29	13373.13	1698.969	3967.045
#3	2503.948	58703.58	13468.62	1710.854	3991.573

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB05 Acquired: 12/6/2024 16:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0002278	-.001088	.0012933	-.001448	.0015053	.0053150	-.001748
Stddev	.0023241	.000840	.0006449	.001602	.0005789	.0041972	.000201
%RSD	1020.380	77.23345	49.86318	110.6189	38.45877	78.96862	11.52205
#1	.0013032	-.002040	.0009706	.000174	.0013492	.0082491	-.001597
#2	.0018194	-.000448	.0020358	-.001490	.0010205	.0071887	-.001976
#3	-.002439	-.000776	.0008735	-.003029	.0021464	.0005073	-.001670

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000604	.0001375	-.000749	.0000783	.0001134	.0011229	.0062265
Stddev	.0000276	.0000131	.001759	.0001389	.0001045	.0001091	.0035234
%RSD	45.68302	9.548612	234.8703	177.4254	92.21055	9.713310	56.58728
#1	.0000842	.0001377	.000107	.0002251	-.000006	.0012451	.0092746
#2	.0000667	.0001242	-.002772	.0000607	.000155	.0010881	.0023687
#3	.0000302	.0001504	.000418	-.000051	.000190	.0010354	.0070361

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002440	.0102519	.0006829	.0008120	.3298239	-.000263	-.000908
Stddev	.0002671	.0086737	.0001784	.0001483	.0150712	.001231	.000130
%RSD	109.4469	84.60548	26.12771	18.26615	4.569464	468.7302	14.33674
#1	-.000015	.0199092	.0006433	.0007142	.3124218	.001147	-.000903
#2	.000518	.0031243	.0008779	.0009827	.3386495	-.001123	-.000780
#3	.000229	.0077222	.0005277	.0007392	.3384004	-.000811	-.001041

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2121548	.0016860	.0007072	-.000219	.0002771	.0012241	-.002026
Stddev	.0119418	.0002943	.0001944	.000126	.0001863	.0030603	.002004
%RSD	5.628828	17.45773	27.48925	57.56886	67.23119	250.0007	98.92227
#1	.1984799	.0019275	.0009187	-.000126	.0001158	-.000428	.000017
#2	.2174581	.0013581	.0006663	-.000363	.0002346	-.000655	-.003989
#3	.2205266	.0017724	.0005365	-.000169	.0004810	.004755	-.002106

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB05 Acquired: 12/6/2024 16:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.002062**	**.0014000**	**.0000800**
Stddev	.001851	.0004204	.0000330
%RSD	89.77912	30.02815	41.23153
#1	-.000657	.0010092	.0001169
#2	-.001370	.0018448	.0000532
#3	-.004160	.0013462	.0000700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2671.607**	**62564.33**	**13676.24**	**1831.786**	**4598.440**
Stddev	1.619	25.64	23.16	5.916	5.044
%RSD	.0605968	.0409792	.1693747	.3229712	.1096881
#1	2670.015	62547.43	13656.68	1830.095	4593.162
#2	2673.252	62551.74	13701.82	1838.364	4598.948
#3	2671.555	62593.83	13670.22	1826.900	4603.211

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P4997-07DLX5 Acquired: 12/6/2024 16:43:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0284195**	**-.011829**	**.0112602**	**.0030561**	**-.002431**	**294.5153**
Stddev	.0020950	.004034	.0010005	.0016100	.001149	.4716
%RSD	7.371763	34.10425	8.885114	52.68198	47.27144	.1601127
#1	.0260176	-.010353	.0104632	.0044375	-.002351	294.9559
#2	.0293712	-.016393	.0109343	.0034429	-.001324	294.5720
#3	.0298698	-.008740	.0123829	.0012879	-.003619	294.0179

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2222549**	**-.000065**	**.0007009**	**14.17993**	**.0090361**	**.0036322**
Stddev	.0006376	.000008	.0000826	.05487	.0000226	.0002841
%RSD	.2868664	12.44389	11.78004	.3869202	.2503538	7.822425
#1	.2229847	-.000074	.0006481	14.11679	.0090239	.0035536
#2	.2219739	-.000058	.0006585	14.21598	.0090622	.0033957
#3	.2218060	-.000063	.0007960	14.20703	.0090222	.0039474

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2541343**	**14.17633**	**9.055588**	**3.404317**	**.0090956**	**.0015619**
Stddev	.0005386	.05469	.012366	.015424	.0003730	.0001903
%RSD	.2119211	.3857549	.1365597	.4530604	4.101411	12.18403
#1	.2537111	14.12069	9.041389	3.386546	.0094060	.0014059
#2	.2539513	14.17827	9.063994	3.412192	.0086818	.0015059
#3	.2547405	14.23001	9.061381	3.414214	.0091991	.0017739

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.89646**	**.0146606**	**.0525818**	**1.201253**	**.0112907**	**.0009389**
Stddev	.05206	.0006964	.0000960	.025409	.0002572	.0003694
%RSD	.4777429	4.750283	.1825340	2.115173	2.277843	39.34453
#1	10.95175	.0154505	.0525294	1.209507	.0113892	.0011291
#2	10.84838	.0141352	.0526925	1.172743	.0109988	.0005131
#3	10.88924	.0143961	.0525234	1.221508	.0114841	.0011744

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P4997-07DLX5 Acquired: 12/6/2024 16:43:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0001659	.0722371	8.189712	5.394280	F 12.00496	-.000192
Stddev	.0002432	.0001373	.066407	.025286	.05555	.000501
%RSD	146.5932	.1900369	.8108529	.4687620	.4627369	261.6469
#1	-.000088	.0721887	8.174247	5.418510	12.05080	-.000467
#2	.000397	.0721305	8.132403	5.396275	12.02090	-.000495
#3	.000189	.0723920	8.262487	5.368055	11.94318	.000387

Elem	Sr4077
Units	ppm
Avg	.0403748
Stddev	.0001417
%RSD	.3509247
#1	.0404942
#2	.0402183
#3	.0404120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.803	59451.15	13935.08	1751.987	3941.414
Stddev	2.420	137.22	12.11	4.807	2.521
%RSD	.0954457	.2308116	.0868724	.2743901	.0639699
#1	2537.183	59448.16	13930.26	1754.583	3941.213
#2	2537.217	59589.85	13926.12	1754.937	3944.030
#3	2533.008	59315.45	13948.85	1746.439	3939.000

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5051-07DLX5 Acquired: 12/6/2024 16:48:19 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0267984**	**-.013294**	**.0112955**	**.0040464**	**-.002927**	**303.6090**
Stddev	.0025633	.003440	.0003948	.0009325	.000401	.5036
%RSD	9.565062	25.87857	3.494749	23.04406	13.70215	.1658612
#1	.0253404	-.009344	.0117239	.0041615	-.002678	303.4638
#2	.0252967	-.015635	.0112163	.0030617	-.003390	304.1692
#3	.0297581	-.014903	.0109464	.0049160	-.002713	303.1940

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2333589**	**-.000134**	**.0007805**	**14.86402**	**.0084238**	**.0033814**
Stddev	.0012210	.000036	.0000902	.01740	.0000247	.0001662
%RSD	.5232395	27.01707	11.55847	.1170600	.2927759	4.913683
#1	.2320252	-.000173	.0008805	14.87967	.0083954	.0035001
#2	.2336296	-.000101	.0007051	14.86709	.0084396	.0034526
#3	.2344218	-.000129	.0007560	14.84528	.0084365	.0031915

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2244941**	**13.31050**	**9.380927**	**3.599760**	**.0094994**	**.0012376**
Stddev	.0003591	.03818	.020453	.013757	.0002052	.0002486
%RSD	.1599371	.2868358	.2180261	.3821703	2.159797	20.08712
#1	.2242083	13.29511	9.367907	3.586555	.0095968	.0009510
#2	.2248971	13.28242	9.370373	3.614010	.0096378	.0013675
#3	.2243770	13.35397	9.404501	3.598716	.0092637	.0013944

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.25434**	**.0138807**	**.0476065**	**1.241447**	**.0116785**	**.0006696**
Stddev	.04622	.0003599	.0001630	.026928	.0004358	.0001091
%RSD	.3771648	2.593128	.3422811	2.169049	3.731988	16.28935
#1	12.24514	.0140289	.0476565	1.223899	.0113602	.0005890
#2	12.21340	.0134703	.0474245	1.227992	.0121752	.0006261
#3	12.30446	.0141428	.0477387	1.272450	.0115000	.0007937

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5051-07DLX5 Acquired: 12/6/2024 16:48:19 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.001049	.0685058	8.697867	5.349038	F 12.50973	-.000818
Stddev	.000772	.0002846	.035268	.010338	.02465	.000086
%RSD	73.54862	.4155031	.4054808	.1932612	.1970100	10.56000
#1	-.001648	.0682353	8.661382	5.337188	12.48528	-.000891
#2	-.001322	.0688028	8.700441	5.356210	12.53457	-.000723
#3	-.000178	.0684794	8.731778	5.353716	12.50934	-.000840

Elem	Sr4077
Units	ppm
Avg	.0432229
Stddev	.0002379
%RSD	.5504438
#1	.0429912
#2	.0432108
#3	.0434666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2518.668	59252.60	13933.80	1757.494	3929.258
Stddev	2.651	58.21	20.65	3.771	5.096
%RSD	.1052419	.0982375	.1481947	.2145568	.1296930
#1	2515.780	59262.34	13911.09	1761.091	3923.804
#2	2520.989	59305.32	13938.88	1757.820	3930.070
#3	2519.234	59190.13	13951.44	1753.571	3933.898

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DLX5 Acquired: 12/6/2024 16:52:40 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0311929**	**-.015769**	**.0125213**	**.0030393**	**-.003643**	**354.3691**
Stddev	.0011462	.003236	.0019855	.0042228	.001326	.8227
%RSD	3.674584	20.51774	15.85708	138.9373	36.40982	.2321482
#1	.0324061	-.015198	.0117715	-.001164	-.002973	354.3764
#2	.0301282	-.012858	.0110199	.007281	-.002785	353.5428
#3	.0310443	-.019253	.0147726	.003001	-.005170	355.1880

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2578532**	**-.000165**	**.0008877**	**15.65939**	**.0088917**	**.0033490**
Stddev	.0014690	.000056	.0003190	.03469	.0005729	.0001123
%RSD	.5697079	34.22473	35.93437	.2215120	6.443611	3.353111
#1	.2565331	-.000107	.0012479	15.62142	.0082600	.0032565
#2	.2594358	-.000168	.0007744	15.68942	.0093780	.0034739
#3	.2575907	-.000220	.0006408	15.66732	.0090370	.0033165

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2558729**	**14.12898**	**10.36935**	**3.504942**	**.0107667**	**.0017673**
Stddev	.0001968	.06186	.04847	.012561	.0001121	.0002760
%RSD	.0768927	.4378573	.4673958	.3583759	1.040932	15.61507
#1	.2560933	14.05765	10.31506	3.490665	.0107865	.0020832
#2	.2558105	14.16120	10.40826	3.509866	.0106461	.0015728
#3	.2557150	14.16808	10.38473	3.514295	.0108677	.0016460

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.73892**	**.0146416**	**.0529799**	**1.223763**	**.0114920**	**.0006788**
Stddev	.07961	.0004885	.0004123	.018387	.0008115	.0003127
%RSD	.6782137	3.336253	.7782186	1.502465	7.061861	46.06272
#1	11.69023	.0144936	.0525072	1.215780	.0105572	.0005159
#2	11.83079	.0151870	.0531675	1.210716	.0120165	.0010393
#3	11.69572	.0142443	.0532651	1.244791	.0119023	.0004812

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DLX5 Acquired: 12/6/2024 16:52:40 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0008400	.0499521	9.708939	5.841091	F 13.64739	-.001252
Stddev	.0010443	.0002848	.024218	.019768	.04900	.000284
%RSD	124.3234	.5701597	.2494417	.3384298	.3590591	22.68021
#1	-.000333	.0496237	9.692128	5.862381	13.69556	-.001440
#2	.001186	.0501012	9.697992	5.837575	13.64901	-.001391
#3	.001667	.0501313	9.736699	5.823317	13.59759	-.000925

Elem	Sr4077
Units	ppm
Avg	.0466785
Stddev	.0003172
%RSD	.6795794
#1	.0463930
#2	.0470200
#3	.0466225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2480.022	57938.00	13622.41	1718.416	3824.132
Stddev	3.251	43.76	14.46	.710	1.941
%RSD	.1311008	.0755312	.1061349	.0412905	.0507672
#1	2477.160	57980.68	13638.95	1717.619	3824.061
#2	2479.349	57940.09	13612.20	1718.979	3822.227
#3	2483.557	57893.23	13616.07	1718.651	3826.108

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DUPDLX5 Acquired: 12/6/2024 16:57:02 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0313609**	**-.013818**	**.0113473**	**.0040585**	**-.002722**	**367.2116**
Stddev	.0012044	.003492	.0015156	.0009857	.001376	2.0785
%RSD	3.840295	25.27179	13.35626	24.28686	50.53081	.5660093
#1	.0325753	-.009831	.0101759	.0051866	-.003613	367.5081
#2	.0313406	-.016333	.0130590	.0036254	-.001138	369.1258
#3	.0301668	-.015289	.0108069	.0033635	-.003416	365.0008

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2694211**	**-.000152**	**.0007841**	**16.16872**	**.0093863**	**.0036332**
Stddev	.0014338	.000040	.0000809	.12955	.0001456	.0000729
%RSD	.5321657	26.11920	10.32302	.8012486	1.551125	2.007625
#1	.2697015	-.000192	.0007137	16.17304	.0092185	.0036730
#2	.2706940	-.000153	.0008726	16.29606	.0094792	.0036775
#3	.2678679	-.000112	.0007660	16.03707	.0094612	.0035490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2661596**	**14.73696**	**10.79212**	**3.608128**	**.0110264**	**.0015554**
Stddev	.0004704	.10545	.07479	.035333	.0004674	.0000476
%RSD	.1767435	.7155390	.6930371	.9792746	4.238566	3.062119
#1	.2657840	14.61803	10.77245	3.593930	.0104868	.0015557
#2	.2666872	14.77380	10.87478	3.648352	.0112891	.0015076
#3	.2660076	14.81905	10.72913	3.582101	.0113032	.0016029

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.32072**	**.0148656**	**.0560208**	**1.260906**	**.0124253**	**.0008272**
Stddev	.01145	.0015213	.0004552	.005949	.0006107	.0004855
%RSD	.0929649	10.23361	.8125300	.4718400	4.915089	58.68950
#1	12.33390	.0163153	.0555027	1.256172	.0122667	.0013437
#2	12.31507	.0132817	.0562036	1.258962	.0119095	.0003804
#3	12.31319	.0149999	.0563562	1.267585	.0130996	.0007574

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07DUPDLX5 Acquired: 12/6/2024 16:57:02 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.000603	.0522932	F 10.09215	6.085883	F 14.22582	-.001526
Stddev	.001108	.0005608	.11682	.024908	.04142	.000274
%RSD	183.6724	1.072439	1.157489	.4092791	.2911888	17.93716
#1	-.000378	.0529082	10.04794	6.058179	14.21010	-.001841
#2	-.001807	.0521613	10.00390	6.093042	14.19457	-.001383
#3	.000375	.0518101	10.22462	6.106427	14.27281	-.001353

Elem	Sr4077
Units	ppm
Avg	.0486256
Stddev	.0003544
%RSD	.7287309
#1	.0488118
#2	.0488480
#3	.0482169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.375	57550.87	13591.45	1706.866	3774.327
Stddev	1.998	267.10	93.69	6.553	1.348
%RSD	.0815680	.4641171	.6893414	.3839308	.0357034
#1	2447.250	57710.30	13561.18	1711.758	3775.012
#2	2449.660	57699.81	13516.64	1709.419	3775.194
#3	2451.215	57242.50	13696.54	1699.420	3772.774

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07LDLX25 Acquired: 12/6/2024 17:01:23 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0061236**	**-.003280**	**.0027829**	**.0006179**	**-.000276**	**71.88705**	**.0511384**
Stddev	.0014651	.001042	.0008507	.0021410	.000425	.35270	.0004712
%RSD	23.92547	31.77372	30.56725	346.4693	153.7231	.4906348	.9213616
#1	.0078107	-.002976	.0020764	.0013851	-.000634	71.48595	.0506129
#2	.0051725	-.004441	.0025451	-.001801	-.000388	72.14871	.0512791
#3	.0053874	-.002424	.0037272	.002270	.000193	72.02650	.0515232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000015**	**.0001799**	**3.201961**	**.0016945**	**.0008070**	**.0546722**	**2.837342**
Stddev	.000040	.0000420	.033302	.0001385	.0000552	.0001872	.021326
%RSD	261.5627	23.31929	1.040065	8.174095	6.840578	.3423105	.7516221
#1	-.000007	.0002282	3.165476	.0015345	.0008669	.0546729	2.823143
#2	-.000058	.0001527	3.209684	.0017739	.0007582	.0544847	2.827018
#3	.000020	.0001589	3.230723	.0017750	.0007958	.0548590	2.861866

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.149676**	**.7249424**	**.0023615**	**.0007217**	**2.418831**	**.0031987**	**.0098450**
Stddev	.017854	.0059982	.0001445	.0001678	.008398	.0011654	.0001519
%RSD	.8305379	.8274029	6.119991	23.24570	.3471925	36.43316	1.542939
#1	2.130885	.7180747	.0022472	.0008771	2.428301	.0020729	.0097416
#2	2.151728	.7275989	.0023133	.0007442	2.412287	.0044000	.0097741
#3	2.166416	.7291537	.0025239	.0005439	2.415906	.0031232	.0100194

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2329840**	**-.000070**	**.0002125**	**-.000431**	**.0103921**	**1.912902**	**1.118905**
Stddev	.0039765	.000230	.0000833	.000531	.0002403	.010994	.003475
%RSD	1.706773	330.6339	39.21359	123.1026	2.312355	.5747392	.3105366
#1	.2313558	-.000192	.0002388	.000176	.0101160	1.900337	1.114899
#2	.2375161	-.000213	.0002794	-.000662	.0105057	1.920757	1.121101
#3	.2300799	.000196	.0001192	-.000808	.0105545	1.917611	1.120716

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07LDLX25 Acquired: 12/6/2024 17:01:23 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	2.626147	-.001117	.0098215
Stddev	.010176	.000463	.0000783
%RSD	.3875021	41.42741	.7970668
#1	2.620628	-.000722	.0097485
#2	2.637891	-.001004	.0099042
#3	2.619923	-.001626	.0098118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2565.829	60634.82	13793.09	1796.841	4194.219
Stddev	1.156	96.26	68.63	7.914	4.627
%RSD	.0450469	.1587607	.4975666	.4404595	.1103148
#1	2564.964	60536.78	13871.43	1792.654	4190.977
#2	2567.142	60729.20	13743.58	1805.970	4192.163
#3	2565.381	60638.47	13764.27	1791.900	4199.518

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSDLX5 Acquired: 12/6/2024 17:05:40 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1846994**	**.3566106**	**.2009735**	**.3887596**	**.1094116**	**366.3757**
Stddev	.0028779	.0050479	.0010024	.0015641	.0003294	2.4470
%RSD	1.558152	1.415515	.4987755	.4023402	.3010703	.6678807
#1	.1818716	.3531546	.1998976	.3904645	.1091910	367.8247
#2	.1846018	.3542739	.2018811	.3873908	.1092537	363.5505
#3	.1876249	.3624035	.2011417	.3884237	.1097903	367.7519

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3031764**	**.0397485**	**.0404283**	**16.26261**	**.0883990**	**.0432724**
Stddev	.0015407	.0003453	.0001390	.10286	.0005039	.0002883
%RSD	.5081910	.8687755	.3437392	.6324806	.5699792	.6662757
#1	.3026145	.0394869	.0403276	16.24201	.0884683	.0429940
#2	.3019955	.0396186	.0405868	16.17161	.0878641	.0432533
#3	.3049192	.0401399	.0403705	16.37420	.0888647	.0435697

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3179637**	**15.00622**	**10.63326**	**3.982199**	**.1089075**	**.0166738**
Stddev	.0003278	.10152	.07824	.036636	.0002692	.0001278
%RSD	.1030780	.6765319	.7358358	.9199963	.2472027	.7667996
#1	.3176408	14.93188	10.60748	3.952380	.1086072	.0165264
#2	.3179543	14.96488	10.57116	3.971121	.1089882	.0167405
#3	.3182961	15.12188	10.72114	4.023095	.1091272	.0167545

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.60975**	**.0729381**	**.0957543**	**3.193057**	**.0664645**	**.0632217**
Stddev	.04543	.0014010	.0001455	.027631	.0003497	.0001954
%RSD	.3602975	1.920815	.1519503	.8653531	.5262117	.3090806
#1	12.66214	.0738387	.0956832	3.193734	.0664505	.0632971
#2	12.58591	.0736517	.0956580	3.165094	.0661219	.0633682
#3	12.58120	.0713240	.0959217	3.220344	.0668210	.0629998

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSDLX5 Acquired: 12/6/2024 17:05:40 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0931055	.0830171	F 10.14714	7.170334	F 13.93935	.0384373
Stddev	.0006997	.0008079	.04016	.030682	.03717	.0010670
%RSD	.7514735	.9731151	.3958109	.4279083	.2666241	2.775963
#1	.0937399	.0823956	10.10155	7.159911	13.93948	.0392611
#2	.0932216	.0827255	10.17729	7.146221	13.90212	.0388189
#3	.0923551	.0839303	10.16259	7.204870	13.97645	.0372320

Elem	Sr4077
Units	ppm
Avg	.0879951
Stddev	.0004538
%RSD	.5156916
#1	.0880613
#2	.0875119
#3	.0884122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2474.224	58364.63	13736.33	1705.575	3835.650
Stddev	4.348	127.29	60.59	2.387	1.744
%RSD	.1757468	.2180955	.4410947	.1399340	.0454613
#1	2477.153	58261.28	13722.45	1705.502	3835.823
#2	2469.228	58506.82	13802.65	1703.226	3837.301
#3	2476.291	58325.79	13683.88	1707.998	3833.826

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSDDLX5 Acquired: 12/6/2024 17:09:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1815168**	**.3604473**	**.2032777**	**.3841036**	**.1081729**	**367.5062**
Stddev	.0023043	.0030465	.0006184	.0045856	.0010438	.5578
%RSD	1.269476	.8452086	.3042259	1.193834	.9649779	.1517662
#1	.1795112	.3575310	.2025956	.3832796	.1078665	367.8317
#2	.1840339	.3602017	.2034359	.3890453	.1093356	367.8247
#3	.1810054	.3636092	.2038017	.3799859	.1073165	366.8621

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3019224**	**.0407944**	**.0411690**	**16.47705**	**.0904131**	**.0439726**
Stddev	.0013878	.0002639	.0000342	.03302	.0005505	.0001624
%RSD	.4596399	.6468489	.0830205	.2004242	.6089099	.3694317
#1	.3016168	.0406040	.0412082	16.47941	.0905157	.0437954
#2	.3034375	.0410956	.0411457	16.44291	.0909052	.0441146
#3	.3007129	.0406836	.0411531	16.50883	.0898185	.0440077

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3179077**	**15.00731**	**10.71570**	**4.049003**	**.1108155**	**.0163765**
Stddev	.0010123	.04261	.01113	.008365	.0002399	.0002768
%RSD	.3184331	.2839320	.1038942	.2065852	.2165161	1.690433
#1	.3181155	15.02356	10.71368	4.042912	.1108582	.0165396
#2	.3168077	14.95897	10.70572	4.045556	.1105570	.0165329
#3	.3188001	15.03941	10.72771	4.058540	.1110311	.0160568

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.37437**	**.0742120**	**.0962241**	**3.128559**	**.0683143**	**.0632817**
Stddev	.07389	.0011538	.0003954	.007107	.0010799	.0000955
%RSD	.5971485	1.554701	.4109486	.2271672	1.580783	.1509472
#1	12.44120	.0741228	.0957676	3.123189	.0672565	.0631722
#2	12.38690	.0754078	.0964419	3.125869	.0694150	.0633257
#3	12.29501	.0731054	.0964627	3.136618	.0682714	.0633474

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07MSDDLX5 Acquired: 12/6/2024 17:09:58 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0963989	.0836229	F 10.13086	7.333606	F 14.18595	.0379695
Stddev	.0010689	.0004959	.02482	.041409	.03921	.0002259
%RSD	1.108868	.5930442	.2449709	.5646469	.2764008	.5950717
#1	.0974692	.0838285	10.10226	7.301239	14.15433	.0380432
#2	.0953314	.0839830	10.14679	7.319311	14.17370	.0381495
#3	.0963961	.0830572	10.14352	7.380269	14.22982	.0377160

Elem	Sr4077
Units	ppm
Avg	.0875700
Stddev	.0003735
%RSD	.4265560
#1	.0875950
#2	.0879304
#3	.0871846

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2552.445	58681.61	13674.62	1736.599	3895.765
Stddev	5.806	25.35	7.44	10.081	7.809
%RSD	.2274578	.0431943	.0543984	.5805176	.2004500
#1	2547.038	58654.43	13675.11	1724.960	3890.756
#2	2558.581	58704.61	13666.94	1742.598	3904.763
#3	2551.716	58685.79	13681.79	1742.239	3891.775

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07ADLX5 Acquired: 12/6/2024 17:14:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.1817518**	**.3572662**	**.2006852**	**.3792209**	**.1059194**	**359.7719**
Stddev	.0024879	.0084864	.0022430	.0026914	.0033355	1.3798
%RSD	1.368863	2.375385	1.117649	.7097248	3.149058	.3835304
#1	.1820349	.3488210	.1989211	.3762772	.1045036	360.0350
#2	.1840860	.3571842	.1999249	.3798300	.1035253	358.2794
#3	.1791344	.3657933	.2032094	.3815556	.1097292	361.0012

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3036537**	**.0409109**	**.0409574**	**16.46147**	**.0882630**	**.0438303**
Stddev	.0015068	.0001003	.0005655	.04869	.0005896	.0004351
%RSD	.4962148	.2451476	1.380818	.2957929	.6680046	.9926343
#1	.3053930	.0407979	.0406209	16.41190	.0876679	.0434283
#2	.3028226	.0409455	.0406410	16.46328	.0888470	.0437704
#3	.3027455	.0409894	.0416103	16.50924	.0882741	.0442922

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3150541**	**14.96523**	**10.81871**	**4.028165**	**.1098298**	**.0161803**
Stddev	.0039686	.01701	.02715	.018991	.0015141	.0004801
%RSD	1.259645	.1136725	.2509868	.4714623	1.378560	2.967099
#1	.3122831	14.98483	10.83905	4.006545	.1089494	.0158907
#2	.3132789	14.95439	10.78787	4.035797	.1089620	.0159158
#3	.3196004	14.95646	10.82920	4.042153	.1115781	.0167345

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.28694**	**.0733537**	**.0946289**	**3.025315**	**.0681767**	**.0619446**
Stddev	.08991	.0012474	.0004403	.003228	.0007497	.0013018
%RSD	.7317827	1.700506	.4652979	.1066860	1.099631	2.101514
#1	12.39063	.0738614	.0947558	3.025702	.0689693	.0610486
#2	12.23054	.0742672	.0949918	3.021912	.0674789	.0613474
#3	12.23965	.0719326	.0941391	3.028333	.0680819	.0634378

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5068-07ADLX5 Acquired: 12/6/2024 17:14:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0978458	.0838979	9.955646	7.351416	F 14.08296	.0365314
Stddev	.0003658	.0002943	.021631	.104063	.17844	.0004748
%RSD	.3738125	.3507973	.2172723	1.415556	1.267073	1.299676
#1	.0981387	.0835953	9.930687	7.281660	13.95307	.0369904
#2	.0979629	.0839152	9.968968	7.301560	14.00938	.0360422
#3	.0974359	.0841832	9.967281	7.471027	14.28642	.0365616

Elem	Sr4077
Units	ppm
Avg	.0871206
Stddev	.0003580
%RSD	.4109758
#1	.0875244
#2	.0869956
#3	.0868419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2573.460	59809.87	13692.00	1817.415	3922.258
Stddev	21.593	22.33	23.41	4.642	37.560
%RSD	.8390743	.0373347	.1709543	.2554012	.9576204
#1	2585.750	59803.31	13677.40	1812.161	3944.198
#2	2586.104	59791.56	13719.00	1819.125	3943.688
#3	2548.527	59834.75	13679.60	1820.960	3878.888

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5069-01DLX5 Acquired: 12/6/2024 17:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0535769**	**.0232369**	**1.186723**	**-.084973**	**.0196947**	**112.8544**
Stddev	.0030465	.0016144	.001650	.004869	.0015150	.1114
%RSD	5.686204	6.947707	.1390429	5.729671	7.692555	.0987442
#1	.0562548	.0222332	1.188466	-.087140	.0195364	112.7408
#2	.0502624	.0250992	1.185185	-.079397	.0182651	112.8590
#3	.0542134	.0223783	1.186519	-.088383	.0212827	112.9635

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7156373**	**.0068697**	**.0244606**	**97.85033**	**.4632160**	**.0856012**
Stddev	.0018293	.0001635	.0002913	.10140	.0011726	.0003759
%RSD	.2556129	2.379968	1.190784	.1036265	.2531490	.4391196
#1	.7171638	.0070134	.0247058	97.95255	.4644890	.0857498
#2	.7161384	.0069037	.0241386	97.84866	.4629789	.0858800
#3	.7136097	.0066918	.0245373	97.74978	.4621800	.0851737

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.035713**	**430.5567**	**7.959865**	**102.6429**	**.2165228**	**-.004264**
Stddev	.006676	1.4783	.018262	.0366	.0005569	.000592
%RSD	.1654316	.3433436	.2294248	.0356552	.2571812	13.88276
#1	4.038783	429.1284	7.971471	102.6195	.2171604	-.004946
#2	4.028054	432.0803	7.969309	102.6240	.2161319	-.003889
#3	4.040302	430.4615	7.938815	102.6850	.2162761	-.003956

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.894423**	**.2317209**	**14.08915**	**4.632091**	**.1459807**	**.0172073**
Stddev	.023881	.0010566	.03987	.021084	.0024328	.0002912
%RSD	.2684970	.4559750	.2829814	.4551686	1.666514	1.692500
#1	8.912681	.2328984	14.13264	4.608051	.1449488	.0173849
#2	8.903191	.2308555	14.08048	4.640781	.1487594	.0168712
#3	8.867397	.2314087	14.05433	4.647441	.1442340	.0173658

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5069-01DLX5 Acquired: 12/6/2024 17:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0913048	1.668897	7.603714	5.234623	F 21.65322	.0547055
Stddev	.0008497	.002782	.005749	.007562	.01455	.0002670
%RSD	.9305849	.1667118	.0756028	.1444628	.0671873	.4879718
#1	.0916832	1.672086	7.609914	5.242438	21.66956	.0549820
#2	.0903316	1.667645	7.602668	5.227342	21.64167	.0544493
#3	.0918995	1.666961	7.598560	5.234089	21.64844	.0546854

Elem	Sr4077
Units	ppm
Avg	.0552685
Stddev	.0018199
%RSD	3.292774
#1	.0573500
#2	.0539777
#3	.0544779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2411.657	58971.83	13895.27	1670.990	3614.450
Stddev	2.405	122.82	49.21	8.810	2.497
%RSD	.0997348	.2082681	.3541577	.5272460	.0690850
#1	2411.734	58838.11	13840.33	1664.029	3616.045
#2	2414.023	58997.78	13910.20	1668.046	3615.733
#3	2409.214	59079.60	13935.29	1680.896	3611.573

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-01 Acquired: 12/6/2024 17:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0072985	.0029974	.0481344	-.004799	.0019549	2.997321	.0703239
Stddev	.0012833	.0017004	.0007228	.002650	.0013428	.006939	.0003361
%RSD	17.58359	56.72860	1.501548	55.22098	68.68900	.2315228	.4779096
#1	.0064016	.0039563	.0481504	-.006681	.0030501	3.004819	.0704060
#2	.0067253	.0010341	.0488490	-.005949	.0004568	2.991124	.0706114
#3	.0087685	.0040017	.0474038	-.001768	.0023579	2.996020	.0699545

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003575	.0006442	81.54811	.0111399	.0032060	.0320635	10.50906
Stddev	.0000279	.0000625	.08828	.0004002	.0000639	.0002193	.02588
%RSD	7.815339	9.696215	.1082544	3.592332	1.992588	.6839153	.2462777
#1	.0003468	.0007154	81.64891	.0113930	.0031767	.0318106	10.53330
#2	.0003892	.0005986	81.51086	.0106786	.0032793	.0321784	10.48181
#3	.0003364	.0006187	81.48457	.0113482	.0031621	.0322014	10.51208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3680804	8.021411	.0097818	.0008750	23.17245	.0095940	.4713514
Stddev	.0003643	.031413	.0000962	.0001371	.06634	.0010314	.0024195
%RSD	.0989730	.3916091	.9833982	15.67012	.2862732	10.75072	.5133086
#1	.3680903	8.014936	.0096928	.0009106	23.20245	.0086172	.4688549
#2	.3677112	8.055557	.0097686	.0007236	23.09641	.0094922	.4715136
#3	.3684396	7.993741	.0098839	.0009908	23.21848	.0106725	.4736857

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.230866	.0456405	.0023834	-.001946	.1397083	8.996992	1.967896
Stddev	.004258	.0001320	.0003847	.000521	.0050754	.046185	.008010
%RSD	.0588866	.2892691	16.14093	26.76197	3.632856	.5133404	.4070442
#1	7.235731	.0454890	.0019550	-.002347	.1451758	9.050318	1.977145
#2	7.227817	.0457016	.0024957	-.001357	.1388017	8.970936	1.963369
#3	7.229049	.0457309	.0026994	-.002132	.1351472	8.969723	1.963174

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-01 Acquired: 12/6/2024 17:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	3.812659	-.004150	.2390047
Stddev	.004484	.000494	.0011710
%RSD	.1176211	11.91200	.4899449
#1	3.817754	-.004709	.2380921
#2	3.810914	-.003769	.2385969
#3	3.809310	-.003973	.2403250

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2464.942	60003.07	14183.53	1727.833	4078.462
Stddev	14.773	30.15	39.76	2.232	20.099
%RSD	.5993322	.0502536	.2803014	.1291700	.4928052
#1	2477.773	60008.99	14227.95	1730.408	4097.115
#2	2468.260	60029.83	14171.33	1726.468	4081.095
#3	2448.791	59970.40	14151.30	1726.622	4057.177

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV06 Acquired: 12/6/2024 17:27:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**4.952131**	**4.931534**	**5.022080**	**4.995331**	**4.842304**	**9.977582**	**9.675508**
Stddev	.004678	.089942	.006512	.018262	.008029	.017800	.022794
%RSD	.0944705	1.823806	.1296607	.3655887	.1658111	.1783967	.2355876
#1	4.957446	5.025266	5.014665	5.016387	4.851540	9.957629	9.649245
#2	4.948640	4.923400	5.024706	4.985811	4.838380	9.983285	9.690143
#3	4.950306	4.845936	5.026868	4.983796	4.836991	9.991830	9.687137

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2531141**	**2.536276**	**24.92670**	**1.027187**	**2.513581**	**1.264648**	**4.908105**
Stddev	.0006492	.002190	.08800	.002339	.002050	.001834	.044276
%RSD	.2565015	.0863304	.3530402	.2277034	.0815599	.1450241	.9021047
#1	.2538521	2.537233	24.82554	1.024494	2.513633	1.263311	4.856996
#2	.2526308	2.533771	24.96889	1.028705	2.511506	1.263894	4.934774
#3	.2528595	2.537824	24.98565	1.028363	2.515605	1.266738	4.932546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.440163**	**24.97744**	**2.516768**	**1.246611**	**22.50983**	**2.516092**	**2.483741**
Stddev	.009071	.05718	.001886	.001610	.06641	.009557	.006395
%RSD	.3717231	.2289144	.0749333	.1291708	.2950306	.3798454	.2574911
#1	2.429841	24.91285	2.516627	1.244915	22.55821	2.506467	2.476799
#2	2.446861	24.99786	2.514957	1.248119	22.53717	2.525579	2.489394
#3	2.443788	25.02160	2.518721	1.246800	22.43411	2.516229	2.485029

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.69641**	**4.958328**	**5.080704**	**5.017787**	**4.888522**	**5.179105**	**5.020684**
Stddev	.09508	.014891	.010934	.007288	.005752	.052955	.020220
%RSD	.4012623	.3003156	.2152113	.1452498	.1176561	1.022475	.4027296
#1	23.58809	4.975290	5.092123	5.026158	4.883713	5.118157	5.043971
#2	23.76610	4.947409	5.079658	5.012849	4.894893	5.205305	5.007593
#3	23.73504	4.952285	5.070330	5.014354	4.886960	5.213853	5.010486

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV06 Acquired: 12/6/2024 17:27:43 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**4.927041**	**4.701146**	**4.972100**
Stddev	.026492	.011012	.007126
%RSD	.5376884	.2342445	.1433139
#1	4.956171	4.712048	4.979792
#2	4.904389	4.701363	4.965724
#3	4.920562	4.690027	4.970784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2459.075**	**58287.31**	**13464.23**	**1689.341**	**3919.202**
Stddev	2.107	101.29	50.57	4.508	3.381
%RSD	.0857025	.1737830	.3755628	.2668721	.0862746
#1	2460.144	58399.67	13408.19	1689.673	3923.029
#2	2460.434	58202.99	13478.03	1684.676	3917.956
#3	2456.647	58259.27	13506.46	1693.674	3916.620

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB06 Acquired: 12/6/2024 17:31:52 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0014075**	**.0003098**	**-.000854**	**-.001757**	**.0022123**	**-.001575**	**-.002207**
Stddev	.0021014	.0007822	.000120	.000162	.0007357	.003141	.000380
%RSD	149.3021	252.5256	14.11357	9.223112	33.25702	199.4892	17.19501
#1	.0015983	.0012105	-.000752	-.001611	.0022165	.002046	-.001774
#2	.0034070	-.000199	-.000987	-.001727	.0014745	-.003574	-.002366
#3	-.000783	-.000082	-.000821	-.001931	.0029460	-.003196	-.002482

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000303**	**.0001188**	**-.008728**	**-.000017**	**.0001763**	**-.000225**	**.0010300**
Stddev	.0000531	.0000050	.005627	.000309	.0001084	.000160	.0026365
%RSD	175.3339	4.182771	64.47299	1786.959	61.44736	70.84692	255.9578
#1	.0000694	.0001171	-.008278	.000052	.0002762	-.000190	.0032729
#2	.0000517	.0001148	-.014566	-.000356	.0000611	-.000400	-.001874
#3	-.000030	.0001244	-.003339	.000251	.0001917	-.000086	.001691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000083**	**-.005547**	**.0004444**	**.0008925**	**.0749656**	**.0002772**	**-.000980**
Stddev	.0001755	.013385	.0000991	.0004178	.0148034	.0001169	.000075
%RSD	2124.761	241.3023	22.30877	46.81501	19.74695	42.18596	7.626323
#1	.0001956	.006808	.0003450	.0012341	.0584777	.0002606	-.000985
#2	-.000018	-.019766	.0004450	.0004266	.0793041	.0001695	-.001051
#3	-.000152	-.003682	.0005432	.0010166	.0871150	.0004016	-.000902

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.052644**	**.0021520**	**.0011229**	**.0002326**	**.0004188**	**.0072958**	**-.002206**
Stddev	.016734	.0002334	.0001043	.0005815	.0002609	.0045624	.002237
%RSD	31.78628	10.84592	9.286313	250.0170	62.28676	62.53448	101.3808
#1	-.070490	.0023887	.0012416	-.000400	.0007020	.0091220	-.004609
#2	-.050137	.0019221	.0010814	.000744	.0001883	.0106623	-.000183
#3	-.037306	.0021451	.0010458	.000353	.0003662	.0021032	-.001827

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB06 Acquired: 12/6/2024 17:31:52 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.000627	-.000685	.0001058
Stddev	.001968	.000400	.0000670
%RSD	314.1195	58.30839	63.33912
#1	.001646	-.000254	.0001695
#2	-.001736	-.000758	.0001121
#3	-.001790	-.001044	.0000359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2625.087	62269.68	13857.63	1808.337	4543.636
Stddev	.901	225.94	157.58	16.312	2.282
%RSD	.0343115	.3628331	1.137148	.9020179	.0502343
#1	2624.054	62013.71	13786.60	1789.572	4543.430
#2	2625.500	62354.01	14038.22	1816.320	4546.014
#3	2625.708	62441.33	13748.06	1819.120	4541.462

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165430BL Acquired: 12/6/2024 17:36:13 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**-.000279**	**-.000548**	**-.001109**	**-.000374**	**-.000388**	**-.001278**	**-.002730**
Stddev	.000662	.000303	.000091	.001210	.000795	.002312	.000394
%RSD	237.2463	55.23672	8.225236	322.9773	204.6825	180.9215	14.44415
#1	-.000971	-.000571	-.001152	-.001767	.000241	-.001958	-.002308
#2	-.000213	-.000235	-.001004	.000232	-.001282	-.003173	-.002795
#3	.000347	-.000839	-.001171	.000412	-.000124	.001298	-.003088

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000221**	**.0000402**	**-.001948**	**.0000893**	**.0001182**	**-.000393**	**-.002192**
Stddev	.0000608	.0000949	.004355	.0003062	.0000222	.000108	.004323
%RSD	275.0953	235.9561	223.4979	343.0623	18.79100	27.50154	197.2483
#1	-.000033	.0001444	-.003499	.0004006	.0001176	-.000365	.002497
#2	.000011	-.000041	.002969	.0000788	.0000962	-.000512	-.003052
#3	.000088	.000017	-.005316	-.000212	.0001406	-.000301	-.006020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000218**	**-.003938**	**.0002339**	**.0009068**	**.0664166**	**.0000786**	**-.001195**
Stddev	.000075	.007601	.0002612	.0002615	.0113185	.0007022	.000098
%RSD	34.21523	193.0248	111.6348	28.84319	17.04164	893.3250	8.217562
#1	-.000299	-.005602	.0001459	.0011873	.0543645	-.000703	-.001084
#2	-.000204	-.010569	.0000282	.0006696	.0680646	.000655	-.001235
#3	-.000151	.004358	.0005278	.0008634	.0768209	.000284	-.001268

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.065938**	**-.001278**	**.0001913**	**-.000928**	**.0002401**	**.0040139**	**-.002805**
Stddev	.008074	.000615	.0003388	.000394	.0002150	.0007780	.001169
%RSD	12.24491	48.15028	177.1062	42.48197	89.55602	19.38272	41.67651
#1	-.069623	-.000588	-.000200	-.001222	.0004517	.0047757	-.001460
#2	-.071513	-.001476	.000372	-.000480	.0002466	.0032207	-.003578
#3	-.056679	-.001769	.000401	-.001082	.0000219	.0040452	-.003377

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165430BL Acquired: 12/6/2024 17:36:13 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.002047	-.000368	-.000004
Stddev	.001442	.000150	.000014
%RSD	70.41725	40.77640	342.0463
#1	-.003710	-.000540	.000012
#2	-.001281	-.000263	-.000016
#3	-.001150	-.000302	-.000008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2639.311	62503.65	13688.83	1814.853	4554.687
Stddev	1.948	72.59	47.96	1.812	6.038
%RSD	.0738077	.1161370	.3503544	.0998612	.1325631
#1	2640.880	62437.11	13637.67	1815.001	4556.460
#2	2639.921	62492.77	13696.07	1812.971	4559.640
#3	2637.130	62581.06	13732.76	1816.587	4547.961

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165430BS Acquired: 12/6/2024 17:40:34 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.7473945**	**1.977913**	**.9571412**	**1.893666**	**.7399291**	**1.956051**
Stddev	.0009963	.009041	.0009379	.002943	.0027836	.007484
%RSD	.1333060	.4571137	.0979854	.1553965	.3761964	.3826286
#1	.7485395	1.980665	.9567907	1.894938	.7427062	1.948490
#2	.7469190	1.985259	.9582038	1.895760	.7371391	1.956207
#3	.7467251	1.967816	.9564291	1.890302	.7399419	1.963456

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1905112**	**.2064044**	**.1926246**	**1.046577**	**.4018501**	**.1948912**
Stddev	.0009128	.0001250	.0001164	.005042	.0011144	.0001754
%RSD	.4791088	.0605750	.0604250	.4817443	.2773138	.0899939
#1	.1895003	.2063022	.1925392	1.041578	.4027341	.1950602
#2	.1907584	.2063672	.1927572	1.046493	.4005983	.1949031
#3	.1912749	.2065438	.1925774	1.051660	.4022178	.1947101

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3046948**	**2.844173**	**.2025787**	**1.975158**	**.4887939**	**.0725653**
Stddev	.0005493	.018450	.0012030	.007963	.0006764	.0000960
%RSD	.1802793	.6486883	.5938253	.4031406	.1383707	.1323221
#1	.3051140	2.830256	.2013239	1.966320	.4888367	.0726746
#2	.3040729	2.837162	.2026899	1.977381	.4880971	.0725271
#3	.3048973	2.865101	.2037221	1.981773	.4894478	.0724943

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2.520770**	**.3012711**	**.1996046**	**8.788343**	**.2936544**	**.4010910**
Stddev	.005039	.0017266	.0002057	.033652	.0003120	.0005199
%RSD	.1999131	.5731074	.1030396	.3829162	.1062590	.1296294
#1	2.515392	.2992916	.1995001	8.752436	.2932975	.4016470
#2	2.525384	.3020545	.1994722	8.793430	.2937903	.4010090
#3	2.521533	.3024670	.1998416	8.819161	.2938755	.4006169

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: PB165430BS Acquired: 12/6/2024 17:40:34 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.6726834	.1944422	F .6869290	5.553554	F -.011910	.1960027
Stddev	.0011075	.0003473	.0082720	.008431	.002645	.0001853
%RSD	.1646401	.1786179	1.204203	.1518053	22.20770	.0945396
#1	.6734406	.1940432	.6783326	5.558769	-.008970	.1959159
#2	.6731972	.1946767	.6876211	5.558066	-.014097	.1958768
#3	.6714123	.1946068	.6948332	5.543828	-.012662	.1962155

Elem	Sr4077
Units	ppm
Avg	.2023423
Stddev	.0007443
%RSD	.3678566
#1	.2014828
#2	.2027718
#3	.2027723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.276	61975.81	13416.49	1801.003	4370.397
Stddev	4.421	34.70	15.43	4.013	6.821
%RSD	.1690988	.0559968	.1150150	.2228291	.1560829
#1	2609.208	61980.71	13408.82	1798.203	4362.532
#2	2617.341	62007.81	13406.40	1805.601	4373.956
#3	2616.279	61938.92	13434.26	1799.206	4374.703

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02 Acquired: 12/6/2024 17:44:35 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0061069	.0027642	.0470209	-.004608	.0020457	3.066716	.0708831
Stddev	.0008761	.0003182	.0002486	.001305	.0011339	.012657	.0005674
%RSD	14.34604	11.50970	.5286015	28.31460	55.42827	.4127094	.8005256
#1	.0051143	.0024737	.0469506	-.005842	.0008189	3.057986	.0702344
#2	.0064342	.0031042	.0472970	-.003243	.0022629	3.060930	.0711274
#3	.0067722	.0027147	.0468150	-.004740	.0030552	3.081231	.0712875

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003868	.0006056	80.63847	.0135389	.0035228	.0310671	10.42212
Stddev	.0000336	.0000842	.30195	.0001106	.0001139	.0005526	.03179
%RSD	8.685697	13.90194	.3744521	.8169910	3.233802	1.778621	.3050117
#1	.0003768	.0005274	80.29060	.0135792	.0036136	.0308882	10.38550
#2	.0004242	.0006947	80.79203	.0136236	.0035598	.0306262	10.44262
#3	.0003593	.0005946	80.83277	.0134137	.0033950	.0316870	10.43824

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3611631	7.916587	.0121471	.0008122	23.23702	.0083157	.4605268
Stddev	.0020296	.033674	.0003434	.0001538	.07630	.0009892	.0015091
%RSD	.5619734	.4253562	2.826730	18.93586	.3283460	11.89572	.3276995
#1	.3590431	7.878303	.0124450	.0007089	23.17623	.0087015	.4605609
#2	.3613581	7.941617	.0117715	.0007387	23.21218	.0071917	.4590009
#3	.3630883	7.929841	.0122249	.0009889	23.32264	.0090539	.4620186

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.237201	.0466082	.0025285	-.002082	.1478472	9.437967	1.905849
Stddev	.007686	.0000255	.0001042	.000917	.0007504	.019839	.012034
%RSD	.1061951	.0546813	4.119862	44.04039	.5075488	.2102042	.6314248
#1	7.232831	.0466358	.0026394	-.002046	.1469891	9.439674	1.919269
#2	7.232697	.0466032	.0024327	-.001184	.1481721	9.417330	1.902261
#3	7.246075	.0465856	.0025135	-.003016	.1483805	9.456898	1.896017

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02 Acquired: 12/6/2024 17:44:35 Type: Unk
Method: NON EPA-6010-200.7(v2499) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.451140**	**-.003693**	**.2394911**
Stddev	.021830	.000100	.0014846
%RSD	.4904419	2.705413	.6199018
#1	4.472049	-.003680	.2380984
#2	4.428492	-.003600	.2393217
#3	4.452878	-.003798	.2410531

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2448.925**	**60089.06**	**14143.34**	**1726.240**	**4062.965**
Stddev	10.411	86.90	49.06	7.502	11.802
%RSD	.4251175	.1446171	.3468956	.4345773	.2904719
#1	2460.225	60181.65	14188.40	1732.206	4076.460
#2	2446.827	60076.26	14150.55	1728.696	4057.864
#3	2439.722	60009.27	14091.07	1717.818	4054.572

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02DUP Acquired: 12/6/2024 17:48:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0061120	.0015864	.0475465	-.004017	.0020536	3.424812
Stddev	.0025035	.0013629	.0009231	.000871	.0004040	.016749
%RSD	40.96116	85.90843	1.941537	21.67523	19.67223	.4890351
#1	.0032978	.0030185	.0484055	-.003410	.0023914	3.420308
#2	.0069463	.0003053	.0476636	-.003628	.0016061	3.410777
#3	.0080918	.0014355	.0465704	-.005015	.0021634	3.443352

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0731390	.0003763	.0006129	80.10683	.0136341	.0034470
Stddev	.0003530	.0000408	.0001099	.25910	.0002130	.0001175
%RSD	.4825869	10.84770	17.93073	.3234430	1.562282	3.407551
#1	.0731176	.0003303	.0004885	79.83354	.0135100	.0035186
#2	.0735021	.0003903	.0006533	80.34892	.0135123	.0033114
#3	.0727972	.0004083	.0006968	80.13802	.0138801	.0035110

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0310004	10.53551	.3604550	7.903741	.0125631	.0008029
Stddev	.0002375	.04085	.0014841	.030954	.0001878	.0003931
%RSD	.7660631	.3877042	.4117155	.3916333	1.495140	48.95954
#1	.0310295	10.49662	.3587431	7.871727	.0124985	.0004435
#2	.0307497	10.57806	.3612432	7.933512	.0127747	.0012226
#3	.0312220	10.53184	.3613786	7.905983	.0124161	.0007424

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.80218	.0097428	.4627604	7.502590	.0462055	.0023429
Stddev	.13517	.0008996	.0007457	.044043	.0004485	.0000863
%RSD	.5679080	9.233573	.1611310	.5870369	.9707745	3.684099
#1	23.75435	.0103160	.4627581	7.488009	.0457629	.0022675
#2	23.69743	.0087059	.4620159	7.467687	.0466598	.0024371
#3	23.95477	.0102064	.4635072	7.552075	.0461938	.0023243

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02DUP Acquired: 12/6/2024 17:48:47 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	-.001927	.1782157	F 10.55720	1.925397	4.524180	-.003760
Stddev	.000218	.0026140	.06853	.011014	.019000	.000306
%RSD	11.30378	1.466766	.6491679	.5720292	.4199668	8.129755
#1	-.001679	.1773842	10.56230	1.919409	4.502242	-.003545
#2	-.002085	.1761185	10.48626	1.918675	4.534958	-.004110
#3	-.002018	.1811443	10.62304	1.938108	4.535340	-.003625

Elem	Sr4077
Units	ppm
Avg	.2407050
Stddev	.0010444
%RSD	.4338707
#1	.2401503
#2	.2400551
#3	.2419097

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2412.647	59214.77	14045.12	1686.557	4010.296
Stddev	.217	131.56	30.07	4.000	4.548
%RSD	.0090051	.2221734	.2141279	.2371878	.1133997
#1	2412.890	59321.48	14079.75	1689.711	4013.057
#2	2412.472	59255.06	14030.03	1687.904	4012.784
#3	2412.578	59067.78	14025.58	1682.057	4005.047

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02LX5 Acquired: 12/6/2024 17:52:59 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0003934	.0005008	.0084169	.0005266	.0004088	.7186412	.0116258
Stddev	.0016732	.0013393	.0005543	.0002835	.0007518	.0046212	.0005548
%RSD	425.3041	267.4504	6.585486	53.83219	183.8962	.6430517	4.772615
#1	-.001055	-.000949	.0090264	.0008233	-.000394	.7222983	.0115215
#2	.002225	.000759	.0079429	.0002586	.000523	.7201779	.0111305
#3	.000010	.001692	.0082814	.0004977	.001097	.7134474	.0122254

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000985	.0000573	16.36063	.0025653	.0005841	.0060699	2.083161
Stddev	.0000478	.0000059	.04401	.0000511	.0001211	.0000183	.015458
%RSD	48.53535	10.31095	.2690018	1.991281	20.72233	.3012501	.7420652
#1	.0000541	.0000638	16.31047	.0026019	.0005671	.0060605	2.068510
#2	.0000922	.0000521	16.37863	.0025069	.0004725	.0060910	2.081655
#3	.0001491	.0000561	16.39278	.0025871	.0007128	.0060582	2.099317

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0739616	1.620060	.0026035	.0008144	4.218150	.0014360	.0865497
Stddev	.0001296	.010232	.0002310	.0002044	.017896	.0007353	.0001976
%RSD	.1752435	.6315753	8.873411	25.10158	.4242526	51.20487	.2283502
#1	.0740900	1.612184	.0025978	.0006237	4.206860	.0022826	.0863859
#2	.0738308	1.631625	.0023753	.0007894	4.238783	.0009563	.0864939
#3	.0739640	1.616371	.0028372	.0010303	4.208806	.0010692	.0867692

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.337800	.0066391	.0005399	-.000848	.0412625	2.145252	.3612426
Stddev	.016060	.0002041	.0002457	.000493	.0013931	.007083	.0028644
%RSD	1.200499	3.074072	45.50287	58.17197	3.376221	.3301796	.7929252
#1	1.320656	.0064153	.0008223	-.001354	.0397418	2.149182	.3595723
#2	1.352496	.0066868	.0003753	-.000368	.0415686	2.149500	.3596053
#3	1.340247	.0068151	.0004221	-.000821	.0424771	2.137075	.3645500

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02LX5 Acquired: 12/6/2024 17:52:59 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.8413468	-.001710	.0485381
Stddev	.0040517	.000280	.0002009
%RSD	.4815686	16.37375	.4138954
#1	.8398192	-.001394	.0485718
#2	.8459401	-.001812	.0487200
#3	.8382809	-.001925	.0483225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2522.287	60722.88	13752.35	1737.314	4277.064
Stddev	9.258	110.12	19.76	10.226	4.974
%RSD	.3670367	.1813535	.1436748	.5885889	.1163023
#1	2514.451	60846.77	13737.57	1748.354	4272.258
#2	2532.502	60636.14	13744.69	1735.419	4282.191
#3	2519.907	60685.71	13774.79	1728.168	4276.742

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02MS Acquired: 12/6/2024 17:57:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.8403905**	**2.053275**	**1.030910**	**1.055152**	**.8070126**	**5.759613**
Stddev	.0025288	.014833	.002072	.003197	.0042223	.015406
%RSD	.3009122	.7224200	.2009588	.3029495	.5232005	.2674799
#1	.8432661	2.068627	1.033013	1.053851	.8029491	5.749521
#2	.8385132	2.039022	1.030845	1.052811	.8067111	5.777345
#3	.8393921	2.052178	1.028871	1.058794	.8113775	5.751972

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2783260**	**.2114636**	**.1992372**	**86.29310**	**.4127123**	**.2054459**
Stddev	.0005796	.0004675	.0001205	.29767	.0011745	.0000925
%RSD	.2082404	.2210569	.0604826	.3449503	.2845936	.0450319
#1	.2780003	.2112688	.1992692	86.61767	.4115063	.2053393
#2	.2779826	.2111251	.1993385	86.22881	.4127780	.2054932
#3	.2789952	.2119970	.1991039	86.03284	.4138527	.2055052

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3519709**	**13.88454**	**.5868877**	**10.35750**	**.5146500**	**.0775149**
Stddev	.0011535	.08563	.0021242	.03521	.0002035	.0003027
%RSD	.3277194	.6167290	.3619493	.3399355	.0395323	.3905262
#1	.3514643	13.97040	.5891659	10.38015	.5145002	.0778639
#2	.3511575	13.88407	.5865360	10.37541	.5148816	.0773579
#3	.3532910	13.79914	.5849613	10.31694	.5145681	.0773230

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.99743**	**.3203624**	**.6883735**	**18.05576**	**.3392216**	**.4233285**
Stddev	.11616	.0015938	.0012240	.02508	.0007899	.0015760
%RSD	.4148797	.4975009	.1778088	.1388941	.2328670	.3722885
#1	27.87519	.3193593	.6871770	18.03258	.3392017	.4224804
#2	28.01075	.3195276	.6883201	18.05234	.3384419	.4223582
#3	28.10635	.3222002	.6896233	18.08238	.3400214	.4251470

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02MS Acquired: 12/6/2024 17:57:17 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.6679086**	**.3788041**	F **11.77095**	**8.091753**	**6.425091**	**.2108526**
Stddev	.0005862	.0039827	.03908	.060110	.023859	.0010478
%RSD	.0877597	1.051394	.3320159	.7428597	.3713447	.4969327
#1	.6683451	.3814885	11.79093	8.158877	6.450610	.2101855
#2	.6672424	.3742281	11.79601	8.073488	6.403341	.2103122
#3	.6681384	.3806958	11.72592	8.042893	6.421322	.2120603

Elem	Sr4077
Units	ppm
Avg	**.4701252**
Stddev	.0012771
%RSD	.2716470
#1	.4693061
#2	.4694728
#3	.4715967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2379.026**	**59106.94**	**13737.26**	**1666.942**	**3931.369**
Stddev	7.521	59.93	4.30	5.975	4.850
%RSD	.3161219	.1013925	.0312813	.3584475	.1233617
#1	2383.157	59144.04	13740.13	1672.324	3936.379
#2	2383.577	59037.81	13739.33	1660.512	3931.033
#3	2370.346	59138.98	13732.32	1667.988	3926.697

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02MSD Acquired: 12/6/2024 18:01:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.8435221**	**2.054176**	**1.035906**	**1.060813**	**.8078777**	**5.799297**
Stddev	.0039928	.011818	.003013	.003189	.0040020	.019827
%RSD	.4733497	.5753302	.2908312	.3005767	.4953727	.3418947
#1	.8480829	2.059902	1.032461	1.057192	.8055182	5.822167
#2	.8418263	2.062041	1.037211	1.062050	.8124985	5.786933
#3	.8406571	2.040586	1.038046	1.063199	.8056165	5.788792

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2783937**	**.2121232**	**.2007759**	**86.01438**	**.4156527**	**.2069019**
Stddev	.0008565	.0005042	.0000731	.28720	.0009594	.0001967
%RSD	.3076672	.2376796	.0364034	.3338931	.2308230	.0950907
#1	.2774103	.2115607	.2008070	85.82655	.4148299	.2070192
#2	.2787940	.2125346	.2006924	85.87161	.4167065	.2066747
#3	.2789768	.2122741	.2008283	86.34498	.4154216	.2070116

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3538155**	**13.89279**	**.5852747**	**10.34337**	**.5180253**	**.0778117**
Stddev	.0015935	.04608	.0022094	.01072	.0004097	.0002572
%RSD	.4503884	.3316527	.3775033	.1036271	.0790889	.3305348
#1	.3524377	13.86192	.5838334	10.33299	.5178583	.0776407
#2	.3555607	13.87069	.5841722	10.34272	.5177254	.0781075
#3	.3534481	13.94575	.5878184	10.35440	.5184921	.0776870

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.30798**	**.3200328**	**.6909890**	**18.19493**	**.3404622**	**.4250605**
Stddev	.05691	.0019917	.0065795	.00961	.0013983	.0008992
%RSD	.2010368	.6223378	.9521923	.0528257	.4107156	.2115528
#1	28.32124	.3190343	.6854164	18.20070	.3388697	.4242032
#2	28.24561	.3187379	.6893031	18.18384	.3414892	.4259965
#3	28.35709	.3223263	.6982474	18.20026	.3410277	.4249817

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02MSD Acquired: 12/6/2024 18:01:16 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.6719700	.3810315	F 11.91094	8.113739	6.454377	.2127225
Stddev	.0020687	.0041116	.06118	.025259	.001486	.0003795
%RSD	.3078640	1.079062	.5136413	.3113155	.0230230	.1784067
#1	.6721838	.3857638	11.95876	8.127696	6.452910	.2123368
#2	.6698027	.3783353	11.84200	8.128940	6.455881	.2130955
#3	.6739236	.3789953	11.93208	8.084581	6.454339	.2127352

Elem	Sr4077
Units	ppm
Avg	.4712611
Stddev	.0012234
%RSD	.2595971
#1	.4701277
#2	.4710976
#3	.4725580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2366.356	58183.05	13584.97	1639.490	3894.523
Stddev	10.479	71.54	31.04	13.074	12.298
%RSD	.4428465	.1229609	.2285160	.7974417	.3157718
#1	2377.959	58260.41	13618.39	1647.319	3904.001
#2	2357.580	58169.49	13579.50	1646.753	3898.942
#3	2363.530	58119.26	13557.03	1624.397	3880.627

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02A Acquired: 12/6/2024 18:05:15 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.8371096**	**2.032445**	**1.025590**	**1.058592**	**.7993870**	**5.925502**
Stddev	.0047918	.029919	.003013	.003253	.0025950	.024839
%RSD	.5724213	1.472077	.2938073	.3073396	.3246197	.4191947
#1	.8401766	2.004781	1.029040	1.059157	.8007218	5.947143
#2	.8315878	2.028356	1.024254	1.055093	.7963963	5.930983
#3	.8395643	2.064198	1.023475	1.061526	.8010429	5.898380

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2744774**	**.2103020**	**.1994754**	**85.70383**	**.4127822**	**.2046911**
Stddev	.0009403	.0008916	.0003618	.09161	.0007989	.0008063
%RSD	.3425738	.4239714	.1813671	.1068866	.1935342	.3939198
#1	.2741740	.2092758	.1995814	85.76000	.4120723	.2045840
#2	.2755319	.2107434	.1990725	85.75337	.4126269	.2039438
#3	.2737263	.2108869	.1997723	85.59812	.4136473	.2055457

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3520330**	**13.84304**	**.5808629**	**10.33875**	**.5128719**	**.0775045**
Stddev	.0015365	.04803	.0016865	.01911	.0005120	.0004218
%RSD	.4364538	.3469916	.2903516	.1848525	.0998345	.5441933
#1	.3525804	13.89279	.5819427	10.35595	.5133196	.0776039
#2	.3502977	13.83938	.5789194	10.31817	.5123136	.0770419
#3	.3532207	13.79693	.5817265	10.34213	.5129825	.0778677

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.76916**	**.3171963**	**.6888184**	**17.99267**	**.3371864**	**.4238859**
Stddev	.05196	.0005718	.0024797	.03343	.0014193	.0010069
%RSD	.1871183	.1802626	.3599978	.1858107	.4209233	.2375342
#1	27.81546	.3176077	.6861475	18.01990	.3364944	.4240910
#2	27.77907	.3174379	.6892599	18.00276	.3362458	.4227923
#3	27.71296	.3165434	.6910476	17.95535	.3388190	.4247745

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5138-02A Acquired: 12/6/2024 18:05:15 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.6683732	.3916243	F 12.27442	8.065768	6.416547	.2099731
Stddev	.0015334	.0081393	.14253	.038112	.028611	.0010078
%RSD	.2294232	2.078347	1.161189	.4725145	.4458903	.4799615
#1	.6676308	.4009407	12.43876	8.032546	6.388127	.2088290
#2	.6673523	.3858927	12.18458	8.057385	6.416170	.2107294
#3	.6701365	.3880396	12.19992	8.107374	6.445345	.2103609

Elem	Sr4077
Units	ppm
Avg	.4669337
Stddev	.0010926
%RSD	.2339950
#1	.4658021
#2	.4679826
#3	.4670165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2377.802	58609.54	13653.48	1639.050	3925.632
Stddev	8.870	23.86	38.59	5.065	6.498
%RSD	.3730249	.0407108	.2826548	.3090252	.1655191
#1	2373.079	58597.00	13697.69	1644.096	3919.401
#2	2388.034	58637.06	13636.26	1639.088	3932.367
#3	2372.293	58594.57	13626.50	1633.966	3925.126

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5139-01 Acquired: 12/6/2024 18:09:13 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**.0070342**	**.0017278**	**.0470808**	**-.007179**	**.0015302**	**3.014583**	**.0696967**
Stddev	.0017622	.0018478	.0004577	.000802	.0006860	.034167	.0003303
%RSD	25.05132	106.9467	.9721807	11.17283	44.82971	1.133383	.4739857
#1	.0055172	.0023169	.0470785	-.006712	.0007645	3.050129	.0697283
#2	.0066184	.0032093	.0466242	-.008105	.0017376	3.011634	.0700101
#3	.0089672	-.000343	.0475396	-.006719	.0020886	2.981987	.0693517

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004162**	**.0005910**	**79.67939**	**.0104747**	**.0032918**	**.0304100**	**10.17726**
Stddev	.0000316	.0000232	.08896	.0000203	.0001206	.0000644	.02490
%RSD	7.601447	3.932465	.1116499	.1941727	3.662497	.2116666	.2447024
#1	.0003796	.0005724	79.77167	.0104617	.0032784	.0304782	10.15524
#2	.0004341	.0006171	79.67233	.0104981	.0034185	.0303502	10.17225
#3	.0004347	.0005836	79.59417	.0104643	.0031786	.0304017	10.20429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3591204**	**7.831226**	**.0097883**	**.0007131**	**23.05721**	**.0085655**	**.4579050**
Stddev	.0014127	.019953	.0001466	.0003489	.10049	.0007283	.0018239
%RSD	.3933896	.2547873	1.497150	48.93228	.4358192	8.502587	.3983116
#1	.3575840	7.852348	.0098592	.0003336	22.94837	.0080438	.4558117
#2	.3594140	7.828636	.0098860	.0010201	23.07678	.0093975	.4587515
#3	.3603633	7.812695	.0096198	.0007855	23.14647	.0082552	.4591518

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.035808**	**.0465456**	**.0021107**	**-.001427**	**.1567976**	**9.014876**	**1.874137**
Stddev	.022841	.0002390	.0001493	.000770	.0043171	.089677	.002518
%RSD	.3246364	.5134087	7.074201	53.96158	2.753311	.9947651	.1343398
#1	7.029697	.0468152	.0019742	-.001194	.1606721	9.109235	1.872835
#2	7.016645	.0464621	.0022701	-.000801	.1521439	9.004634	1.872536
#3	7.061083	.0463597	.0020877	-.002288	.1575766	8.930761	1.877039

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5139-01 Acquired: 12/6/2024 18:09:13 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	**3.944275**	**-.004058**	**.2353666**
Stddev	.004772	.000373	.0003170
%RSD	.1209759	9.187505	.1346914
#1	3.946267	-.004475	.2350121
#2	3.947728	-.003756	.2354649
#3	3.938830	-.003943	.2356229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2513.185**	**60566.21**	**14105.76**	**1770.134**	**4131.507**
Stddev	5.347	156.42	5.74	11.652	4.528
%RSD	.2127432	.2582673	.0406774	.6582276	.1095939
#1	2518.039	60681.64	14107.60	1782.675	4136.166
#2	2507.454	60628.81	14110.35	1768.082	4131.230
#3	2514.063	60388.18	14099.32	1759.644	4127.123

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5139-02 Acquired: 12/6/2024 18:13:25 Type: Unk
Method: NON EPA-6010-200.7(v2499) 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	.0065607	.0008483	.0486087	-.003829	.0026522	3.133721	.0747570
Stddev	.0030899	.0015937	.0004998	.001176	.0005224	.016461	.0002782
%RSD	47.09733	187.8739	1.028153	30.69853	19.69604	.5252824	.3720937
#1	.0038849	.0024890	.0487640	-.002666	.0031001	3.119580	.0744522
#2	.0058547	.0007496	.0490125	-.003806	.0027781	3.151791	.0748214
#3	.0099425	-.000694	.0480498	-.005016	.0020783	3.129794	.0749972

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003975	.0006214	83.92574	.0110994	.0033553	.0319471	10.63611
Stddev	.0000317	.0000189	.18169	.0002521	.0002045	.0004288	.04071
%RSD	7.966662	3.043471	.2164881	2.271288	6.095654	1.342197	.3827315
#1	.0004336	.0006419	83.87776	.0113682	.0033393	.0321017	10.63218
#2	.0003848	.0006178	84.12660	.0110618	.0035674	.0314625	10.59751
#3	.0003742	.0006046	83.77285	.0108683	.0031593	.0322772	10.67864

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3833058	8.204962	.0098804	.0004733	24.35283	.0093629	.4746606
Stddev	.0012011	.012353	.0000579	.0001312	.09428	.0007635	.0024025
%RSD	.3133476	.1505538	.5856478	27.72142	.3871270	8.154257	.5061568
#1	.3846094	8.200140	.0098539	.0004101	24.31646	.0085262	.4753249
#2	.3830640	8.218998	.0099468	.0003857	24.28215	.0100218	.4719959
#3	.3822440	8.195747	.0098406	.0006242	24.45987	.0095405	.4766611

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.409884	.0484357	.0026737	-.002386	.1559503	9.462053	1.973876
Stddev	.005541	.0004011	.0000713	.000557	.0081147	.015583	.003074
%RSD	.0747808	.8281209	2.667047	23.35896	5.203414	.1646841	.1557219
#1	7.405403	.0482129	.0025974	-.001857	.1495365	9.474190	1.976526
#2	7.408169	.0481955	.0026849	-.002968	.1650730	9.467489	1.970506
#3	7.416080	.0488988	.0027387	-.002332	.1532414	9.444481	1.974597

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: P5139-02 Acquired: 12/6/2024 18:13:25 Type: Unk
Method: NON EPA-6010-200.7(v2499) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.320731	-.003967	.2475951
Stddev	.007601	.000243	.0009854
%RSD	.1759241	6.118543	.3979711
#1	4.319216	-.003744	.2464803
#2	4.314002	-.003933	.2479551
#3	4.328976	-.004225	.2483498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2495.740	60538.02	14035.17	1763.534	4088.680
Stddev	14.785	115.32	26.99	10.084	21.353
%RSD	.5924172	.1904958	.1923352	.5718047	.5222499
#1	2511.669	60491.03	14065.10	1762.665	4109.690
#2	2493.095	60669.42	14012.66	1774.024	4089.351
#3	2482.456	60453.62	14027.76	1753.912	4067.000

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV07 Acquired: 12/6/2024 18:21:23 Type: Unk
Method: NON EPA-6010-200.7(v2505) 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	**4.814468**	**4.869133**	**4.928786**	**4.857109**	**4.708813**	**9.727758**	**9.301593**
Stddev	.006901	.031494	.010026	.011567	.009647	.044866	.039091
%RSD	.1433492	.6468103	.2034223	.2381481	.2048713	.4612145	.4202650
#1	4.822336	4.879355	4.917978	4.870213	4.719948	9.675985	9.275640
#2	4.811630	4.894245	4.930597	4.852796	4.703524	9.755254	9.346554
#3	4.809438	4.833797	4.937783	4.848318	4.702967	9.752036	9.282586

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2513872**	**2.491675**	**24.42824**	**1.006162**	**2.466690**	**1.232693**	**4.761653**
Stddev	.0003440	.004802	.15226	.001605	.004476	.002128	.022155
%RSD	.1368429	.1927048	.6232908	.1595357	.1814470	.1726366	.4652714
#1	.2509945	2.486360	24.30747	1.004783	2.462186	1.233934	4.751645
#2	.2515313	2.492967	24.37797	1.005778	2.466747	1.233910	4.746268
#3	.2516357	2.495699	24.59927	1.007924	2.471137	1.230236	4.787046

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.395449**	**24.51502**	**2.469459**	**1.220495**	**25.96325**	**2.455130**	**2.444796**
Stddev	.011846	.17624	.004037	.000852	.14163	.012149	.005241
%RSD	.4945283	.7189086	.1634595	.0697776	.5454942	.4948588	.2143682
#1	2.385819	24.37824	2.465470	1.221280	26.02459	2.441255	2.440423
#2	2.391850	24.45293	2.469364	1.220617	26.06386	2.460268	2.443361
#3	2.408677	24.71391	2.473542	1.219589	25.80129	2.463866	2.450606

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.80809**	**4.908463**	**4.953673**	**4.929295**	**4.758315**	**5.057334**	**4.956383**
Stddev	.11074	.014115	.003394	.008302	.018058	.024761	.010406
%RSD	.4855171	.2875711	.0685185	.1684223	.3795023	.4896014	.2099478
#1	22.76935	4.898066	4.956987	4.919838	4.741280	5.030076	4.953605
#2	22.93299	4.902792	4.950204	4.932665	4.756418	5.063489	4.967897
#3	22.72193	4.924532	4.953826	4.935382	4.777246	5.078436	4.947649

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCV07 Acquired: 12/6/2024 18:21:23 Type: Unk
Method: NON EPA-6010-200.7(v2505) 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	**4.829987**	**4.563844**	**4.808080**
Stddev	.017337	.024047	.052157
%RSD	.3589526	.5269068	1.084768
#1	4.819773	4.550784	4.748945
#2	4.850005	4.591595	4.827770
#3	4.820183	4.549152	4.847525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2502.867**	**59017.19**	**13476.43**	**1724.623**	**3966.721**
Stddev	3.365	12.67	23.32	4.613	3.943
%RSD	.1344601	.0214648	.1730473	.2674775	.0993906
#1	2499.804	59027.34	13491.72	1729.230	3967.762
#2	2506.469	59003.00	13487.98	1724.636	3970.039
#3	2502.328	59021.24	13449.58	1720.004	3962.363

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB07 Acquired: 12/6/2024 18:27:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000223**	**.0000722**	**-.000863**	**-.000524**	**.0009386**	**.0035495**	**-.002104**
Stddev	.001676	.0010936	.000616	.000890	.0007066	.0041255	.000450
%RSD	750.3985	1514.965	71.35591	169.8054	75.27571	116.2289	21.39649
#1	-.002148	-.000670	-.001496	-.000645	.0016685	-.001196	-.001757
#2	.000915	.001328	-.000828	.000420	.0008895	.006280	-.002612
#3	.000564	-.000442	-.000266	-.001348	.0002579	.005565	-.001942

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000401**	**.0000944**	**-.002733**	**-.000144**	**.0000173**	**-.000128**	**-.001730**
Stddev	.0000474	.0000750	.001847	.000150	.0000186	.000333	.002082
%RSD	118.0496	79.40003	67.58345	104.3079	107.8461	259.9621	120.3492
#1	.0000327	.0000079	-.004865	-.000022	.0000250	-.000362	.000666
#2	-.000003	.0001343	-.001638	-.000312	.0000308	-.000276	-.002752
#3	.000091	.0001410	-.001695	-.000099	-.000004	.000253	-.003105

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000106**	**.0058144**	**.0002606**	**.0007982**	**.0029714**	**.0002924**	**-.001077**
Stddev	.000111	.0021879	.0002425	.0001725	.0153413	.0005993	.000142
%RSD	104.3828	37.62978	93.08510	21.61303	516.2960	204.9655	13.14384
#1	-.000215	.0061410	.0005185	.0008956	-.012853	.0006614	-.001157
#2	.000006	.0078206	.0002259	.0009000	.003988	.0006149	-.000914
#3	-.000108	.0034815	.0000372	.0005990	.017779	-.000399	-.001162

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.069426**	**.0018533**	**.0003441**	**-.000366**	**.0003751**	**.0026980**	**-.004966**
Stddev	.018123	.0004846	.0003297	.000299	.0002411	.0059361	.000384
%RSD	26.10414	26.14689	95.81916	81.53875	64.26620	220.0194	7.738836
#1	-.085171	.0023698	.0002944	-.000711	.0002405	.0083709	-.004663
#2	-.073490	.0014087	.0000421	-.000186	.0002314	.0031933	-.004837
#3	-.049616	.0017816	.0006959	-.000202	.0006535	-.003470	-.005398

Reviewed By:jaswal
On:12/11/2024
11:12:35 PM
Inst Id :P4
LB :LB133790

Sample Name: CCB07 Acquired: 12/6/2024 18:27:49 Type: Unk
Method: NON EPA-6010-200.7(v2499) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000945	-.000397	-.000015
Stddev	.001858	.000135	.000015
%RSD	196.7063	34.04996	100.3067
#1	-.001273	-.000547	-.000031
#2	-.002616	-.000286	-.000004
#3	.001056	-.000358	-.000009

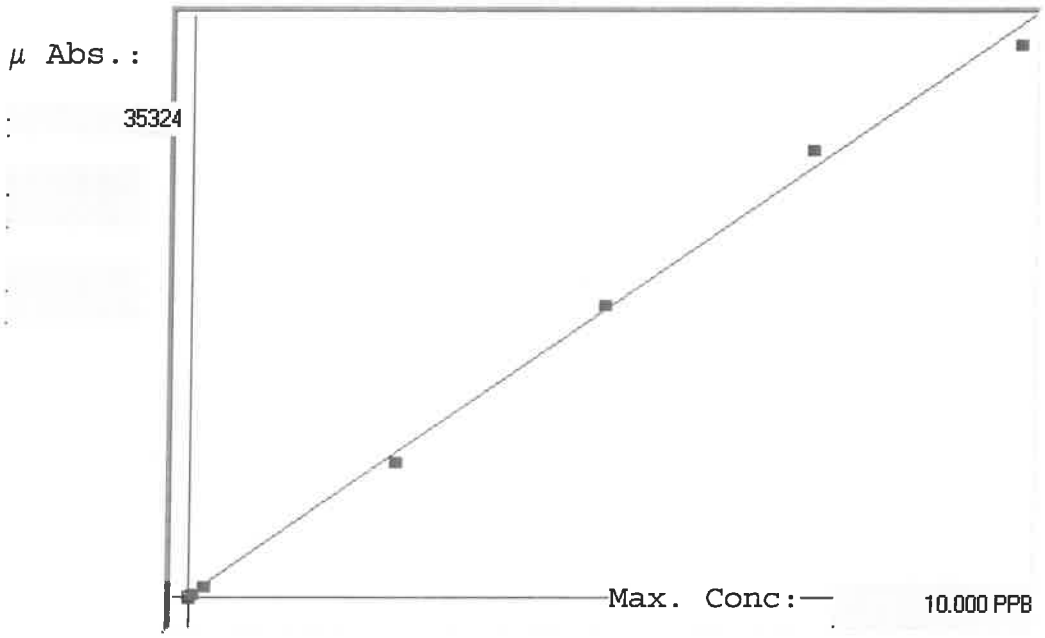
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2623.920	61907.66	13571.10	1810.339	4506.301
Stddev	2.360	89.41	13.75	9.900	6.365
%RSD	.0899381	.1444270	.1013110	.5468475	.1412473
#1	2624.254	61849.59	13571.08	1819.804	4505.050
#2	2621.411	62010.62	13557.36	1811.158	4500.655
#3	2626.095	61862.76	13584.86	1800.055	4513.199

Reviewed By:mohan
On:12/10/2024 8:52:42 PM
Inst Id :CV1
LB :LB133852

LB133852

245.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.7480e-004

C= -3.0257e-002

Rho= 0.9986519

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.0	0.000	-0.020	-0.020	36	0.000	36					1
0.05	0.050	0.051	0.001	297	0.0 %	297	0				2
0.2	0.200	0.183	-0.017	777	0.0 %	777					-9
2.5	2.500	2.383	-0.117	8781	0.0 %	8781					-5
5.0	5.000	5.121	0.121	18746	0.0 %	18746					2
7.5	7.500	7.855	0.355	28696	0.0 %	28696					5
10.0	10.000	9.677	-0.323	35324	0.0 %	35324					-3

Reviewed By:mohan
On:12/10/2024 8:52:42 PM
Inst Id :CV1
LB :LB133852

LB133852 INSTRUMENT ID : CV1

Method: 245.1 Operator: Admin Date of Analysis: 10 Dec 2024 09:29:03

Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	36	-	0.0000	245.1	PPB	10 Dec 2024 09:37:35	S	Std
0.05 - 1	50.05	297	-	0.0500	245.1	PPB	10 Dec 2024 09:42:31	S	Std
0.2 - 1	50.2	777	-	0.2000	245.1	PPB	10 Dec 2024 09:44:48	S	Std
2.5 - 1	52.5	8781	-	2.5000	245.1	PPB	10 Dec 2024 09:47:04	S	Std
5.0 - 1	55	18746	-	5.0000	245.1	PPB	10 Dec 2024 09:49:20	S	Std
7.5 - 1	57.5	28696	-	7.5000	245.1	PPB	10 Dec 2024 09:51:37	S	Std
10.0 - 1	510	35324	-	10.0000	245.1	PPB	10 Dec 2024 09:59:28	S	Std
ICV14 - 1	ICV14	14778	4.0307	-	245.1	PPB	10 Dec 2024 10:09:31	U	SMPL
ICB14 - 1	ICB14	-6	-0.0319	-	245.1	PPB	10 Dec 2024 10:17:09	U	SMPL
CCV10 - 1	CCV10	19970	5.4574	-	245.1	PPB	10 Dec 2024 10:29:43	U	SMPL
CCB10 - 1	CCB10	48	-0.0171	-	245.1	PPB	10 Dec 2024 10:34:42	U	SMPL
CRA - 1	CRA	248	0.0379	-	245.1	PPB	10 Dec 2024 10:39:32	U	SMPL
HighStd - 1	HighStd	31722	8.6868	-	245.1	PPB	10 Dec 2024 10:49:15	U	SMPL
ChkStd - 1	ChkStd	23934	6.5467	-	245.1	PPB	10 Dec 2024 10:51:31	U	SMPL
PB165519BL - 1	PBW	-208	-0.0874	-	245.1	PPB	10 Dec 2024 10:53:49	U	SMPL
PB165519BS - 1	LCSW	14515	3.9584	-	245.1	PPB	10 Dec 2024 11:02:20	U	SMPL
P4368-10 - 1	LOD-MDL-WATER-04-QT4-2024	233	0.0338	-	245.1	PPB	10 Dec 2024 11:12:18	U	SMPL
P4368-11 - 1	LOQ-WATER-05-QT4-2024	925	0.2239	-	245.1	PPB	10 Dec 2024 11:14:34	U	SMPL
P5051-07 - 1	14B-(1-4)-COMP	4142	1.1079	-	245.1	PPB	10 Dec 2024 11:16:51	U	SMPL
P5068-07 - 1	14B-(1-4)-COMP	3264	0.8667	-	245.1	PPB	10 Dec 2024 11:19:08	U	SMPL
P5192-02 - 1	EFF-WASTE WATER	98	-0.0033	-	245.1	PPB	10 Dec 2024 11:21:26	U	SMPL
CCV11 - 1	CCV11	17194	4.6946	-	245.1	PPB	10 Dec 2024 11:26:17	U	SMPL
CCB11 - 1	CCB11	6	-0.0286	-	245.1	PPB	10 Dec 2024 11:31:06	U	SMPL
P5192-02DUP - 1	EFF-WASTE WATERDUP	73	-0.0102	-	245.1	PPB	10 Dec 2024 11:33:20	U	SMPL
P5192-02MS - 1	EFF-WASTE WATERMS	13290	3.6218	-	245.1	PPB	10 Dec 2024 11:35:35	U	SMPL
P5192-02MSD - 1	EFF-WASTE WATERMSD	14418	3.9318	-	245.1	PPB	10 Dec 2024 11:37:51	U	SMPL
P5192-02LX5 - 1		-187	-0.0816	-	245.1	PPB	10 Dec 2024 11:40:09	U	SMPL
P5192-02A - 1		13463	3.6693	-	245.1	PPB	10 Dec 2024 11:42:27	U	SMPL
CCV12 - 1	CCV12	19587	5.3522	-	245.1	PPB	10 Dec 2024 11:44:43	U	SMPL
CCB12 - 1	CCB12	2	-0.0297	-	245.1	PPB	10 Dec 2024 11:49:38	U	SMPL

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165365

SOP ID : M200.7-Trace Elements-22

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 12/04/2024 **Time :** 11:35 **Temp :** 95 °C

End Digest Date: 12/04/2024 **Time :** 14:40 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: jgp

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	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
Conc. HNO3	1.00	M6126
1:1 HCL	0.50	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 1 Cell # 50 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/4/24 15:00	jgp Met Dig	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165365

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P5051-07	14B-(1-4)-COMP	<2	50	25	Brown	Yellow	Clear	Clear	N/A	1
P5068-07	14B-(1-4)-COMP	<2	50	25	Brown	Yellow	Clear	Clear	N/A	2
P5068-07MS	14B-(1-4)-COMPMS	<2	50	25	Brown	Yellow	Clear	Clear	M6000,M6009	4
P5068-07MSD	14B-(1-4)-COMPMSD	<2	50	25	Brown	Yellow	Clear	Clear	M6000,M6009	5
P5068-07DUP	14B-(1-4)-COMPDUP	<2	50	25	Brown	Yellow	Clear	Clear	N/A	3
PB165365BL	PBW365	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6
PB165365BS	LCS365	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	7

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165365 **WorkList ID :** 185959 **Department :** Digestion **Date :** 12-04-2024 09:50:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5051-07	14B-(1-4)-COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	NEWY17	M11	12/02/2024	200.7
P5068-07	14B-(1-4)-COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	NEWY17	L61	12/03/2024	200.7

Date/Time 12/04/2024 11:20

Raw Sample Received by: JSP (Met Dig)

Raw Sample Relinquished by:

Date/Time 12/04/2024 11:45

Raw Sample Received by:

Raw Sample Relinquished by: JSP (Met Dig)

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133769

Review By	kareem	Review On	12/6/2024 3:36:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/05/24 13:21		Kareem	OK
2	S1	S1	CAL2	12/05/24 13:25		Kareem	OK
3	S2	S2	CAL3	12/05/24 13:30		Kareem	OK
4	S3	S3	CAL4	12/05/24 13:34		Kareem	OK
5	S4	S4	CAL5	12/05/24 13:38		Kareem	OK
6	S5	S5	CAL6	12/05/24 13:42		Kareem	OK
7	ICV01	ICV01	ICV	12/05/24 13:53		Kareem	OK
8	LLICV01	LLICV01	LLICV	12/05/24 14:05		Kareem	OK
9	ICB01	ICB01	ICB	12/05/24 14:10		Kareem	OK
10	CRI01	CRI01	CRDL	12/05/24 14:14		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/05/24 14:18		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/05/24 14:33		Kareem	OK
13	ICSADL	ICSADL	ICSA	12/05/24 14:37		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	12/05/24 14:41		Kareem	OK
15	CCV01	CCV01	CCV	12/05/24 14:45		Kareem	OK
16	CCB01	CCB01	CCB	12/05/24 14:50		Kareem	OK
17	P5052-02	OR-640-COMP-50	SAM	12/05/24 14:54		Kareem	OK
18	P5052-08	OR-640-COMP-51	SAM	12/05/24 14:58		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133769

Review By	kareem	Review On	12/6/2024 3:36:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

19	P5052-20	OR-640-COMP-63	SAM	12/05/24 15:17		Kareem	OK
20	P5052-14	OR-640-COMP-62	SAM	12/05/24 15:21		Kareem	OK
21	CCV02	CCV02	CCV	12/05/24 15:34		Kareem	OK
22	CCB02	CCB02	CCB	12/05/24 15:41		Kareem	OK
23	PB165341TB	PB165341TB	MB	12/05/24 15:46		Kareem	OK
24	PB165363BL	PB165363BL	MB	12/05/24 15:50		Kareem	OK
25	PB165363BS	PB165363BS	LCS	12/05/24 15:55	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
26	PB165328BL	PB165328BL	MB	12/05/24 15:59		Kareem	OK
27	PB165371BS	PB165371BS	LCS	12/05/24 16:07	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
28	PB165328BS	PB165328BS	LCS	12/05/24 16:12	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
29	PB165287BL	PB165287BL	MB	12/05/24 16:16	NOT USE	Kareem	Not Ok
30	PB165287BS	PB165287BS	LCS	12/05/24 16:21	NOT USE	Kareem	Not Ok
31	PB165370BL	PB165370BL	MB	12/05/24 16:25		Kareem	OK
32	PB165370BS	PB165370BS	LCS	12/05/24 16:29	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
33	CCV03	CCV03	CCV	12/05/24 16:42		Kareem	OK
34	CCB03	CCB03	CCB	12/05/24 16:46		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133769

Review By	kareem	Review On	12/6/2024 3:36:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

35	PB165371BL	PB165371BL	MB	12/05/24 16:51		Kareem	OK
36	PB165344BL	PB165344BL	MB	12/05/24 16:55		Kareem	OK
37	PB165344BS	PB165344BS	LCS	12/05/24 16:59	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
38	LR1	LR1	HIGH STD	12/05/24 17:03		Kareem	OK
39	LR2	LR2	HIGH STD	12/05/24 17:08		Kareem	OK
40	P5069-02	A3988-SLUDGE	SAM	12/05/24 17:12		Kareem	OK
41	P5072-04	MH-737	SAM	12/05/24 17:17		Kareem	OK
42	P5072-08	MH-738	SAM	12/05/24 17:21		Kareem	OK
43	P5072-08DUP	MH-738DUP	DUP	12/05/24 17:25		Kareem	OK
44	P5072-08L	MH-738L	SD	12/05/24 17:30		Kareem	OK
45	CCV04	CCV04	CCV	12/05/24 17:41		Kareem	OK
46	CCB04	CCB04	CCB	12/05/24 17:47		Kareem	OK
47	P5072-08MS	MH-738MS	MS	12/05/24 17:52	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
48	P5072-08MSD	MH-738MSD	MSD	12/05/24 17:56	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
49	P5072-08A	MH-738A	PS	12/05/24 18:00	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P5044-01	OUTFALL-DSN-001	SAM	12/05/24 18:04		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133769

Review By	kareem	Review On	12/6/2024 3:36:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

51	P5044-02DUP	OUTFALL-DSN-002D	DUP	12/05/24 18:08		Kareem	OK
52	P5044-02	OUTFALL-DSN-002	SAM	12/05/24 18:13		Kareem	OK
53	P5044-02L	OUTFALL-DSN-002L	SD	12/05/24 18:17		Kareem	OK
54	P5044-02MS	OUTFALL-DSN-002M	MS	12/05/24 18:21	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
55	P5044-02MSD	OUTFALL-DSN-002M	MSD	12/05/24 18:25	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
56	P5044-02A	OUTFALL-DSN-002A	PS	12/05/24 18:29	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
57	CCV05	CCV05	CCV	12/05/24 18:39		Kareem	OK
58	CCB05	CCB05	CCB	12/05/24 18:43		Kareem	OK
59	PB165365BL	PB165365BL	MB	12/05/24 19:04		Kareem	OK
60	PB165365BS	PB165365BS	LCS	12/05/24 19:08	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
61	P5070-01	OIL	SAM	12/05/24 19:12		Kareem	OK
62	P5070-05	OILY-DEBRIS	SAM	12/05/24 19:17		Kareem	OK
63	P5072-01	MH-737	SAM	12/05/24 19:21		Kareem	OK
64	P5072-05	MH-738	SAM	12/05/24 19:25		Kareem	OK
65	P5072-05DUP	MH-738DUP	DUP	12/05/24 19:29		Kareem	OK
66	P5072-05L	MH-738L	SD	12/05/24 19:33		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133769

Review By	kareem	Review On	12/6/2024 3:36:51 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

67	P5072-05MS	MH-738MS	MS	12/05/24 19:38	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
68	P5072-05MSD	MH-738MSD	MSD	12/05/24 19:42	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
69	CCV06	CCV06	CCV	12/05/24 19:45		Kareem	OK
70	CCB06	CCB06	CCB	12/05/24 19:50		Kareem	OK
71	P5072-05A	MH-738A	PS	12/05/24 19:54	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
72	P5070-03	OIL-WATER	SAM	12/05/24 19:58		Kareem	OK
73	P5070-03DUP	OIL-WATERDUP	DUP	12/05/24 20:02		Kareem	OK
74	P5070-03L	OIL-WATERL	SD	12/05/24 20:07		Kareem	OK
75	P5070-03MS	OIL-WATERMS	MS	12/05/24 20:11	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
76	P5070-03MSD	OIL-WATERMSD	MSD	12/05/24 20:15	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
77	P5070-03A	OIL-WATERA	PS	12/05/24 20:19	0.1ML OF M6001 AND M6010 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
78	CCV07	CCV07	CCV	12/05/24 20:23		Kareem	OK
79	CCB07	CCB07	CCB	12/05/24 20:27		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133790

Review By	kareem	Review On	12/11/2024 6:00:03 PM
Supervise By	jaswal	Supervise On	12/11/2024 11:12:35 PM

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	12/06/24 11:48		Kareem	OK
2	S1	S1	CAL2	12/06/24 11:52		Kareem	OK
3	S2	S2	CAL3	12/06/24 11:57		Kareem	OK
4	S3	S3	CAL4	12/06/24 12:01		Kareem	OK
5	S4	S4	CAL5	12/06/24 12:05		Kareem	OK
6	S5	S5	CAL6	12/06/24 12:10		Kareem	OK
7	ICV01	ICV01	ICV	12/06/24 12:14		Kareem	OK
8	LLICV01	LLICV01	LLICV	12/06/24 12:20		Kareem	OK
9	ICB01	ICB01	ICB	12/06/24 12:24		Kareem	OK
10	CRI01	CRI01	CRDL	12/06/24 12:28		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/06/24 12:50		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/06/24 12:55		Kareem	OK
13	ICSADL	ICSADL	ICSA	12/06/24 13:00		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	12/06/24 13:04		Kareem	OK
15	CCV01	CCV01	CCV	12/06/24 13:09		Kareem	OK
16	CCB01	CCB01	CCB	12/06/24 13:13		Kareem	OK
17	PB165393BL	PB165393BL	MB	12/06/24 13:17		Kareem	OK
18	PB165393BS	PB165393BS	LCS	12/06/24 13:22	0.1ml 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 # LB133790

Review By	kareem	Review On	12/11/2024 6:00:03 PM
Supervise By	jaswal	Supervise On	12/11/2024 11:12:35 PM

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	PB165328BL	PB165328BL	MB	12/06/24 13:26	NOT USE	Kareem	Not Ok
20	PB165328BS	PB165328BS	LCS	12/06/24 13:30	NOT USE	Kareem	Not Ok
21	P5026-05	SOIL-1-HAM	SAM	12/06/24 13:34		Kareem	OK
22	CCV02	CCV02	CCV	12/06/24 13:38		Kareem	OK
23	CCB02	CCB02	CCB	12/06/24 13:42		Kareem	OK
24	P4997-07	14B-(1-4)-COMP	SAM	12/06/24 13:47		Kareem	OK
25	P5018-07	14B-(1-4)-COMP	SAM	12/06/24 13:58		Kareem	OK
26	P5018-07DUP	14B-(1-4)-COMPDUP	DUP	12/06/24 14:04		Kareem	OK
27	P5018-07L	14B-(1-4)-COMPL	SD	12/06/24 14:08		Kareem	OK
28	P5018-07MS	14B-(1-4)-COMPMS	MS	12/06/24 14:12	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
29	P5018-07MSD	14B-(1-4)-COMPMSD	MSD	12/06/24 14:17	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
30	P5018-07A	14B-(1-4)-COMPA	PS	12/06/24 14:21	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
31	P5051-07	14B-(1-4)-COMP	SAM	12/06/24 14:25		Kareem	OK
32	P5068-07	14B-(1-4)-COMP	SAM	12/06/24 14:29	Mn high	Kareem	Dilution
33	P5068-07DUP	14B-(1-4)-COMPDUP	DUP	12/06/24 14:34	Mn high	Kareem	Dilution
34	CCV03	CCV03	CCV	12/06/24 14:42		Kareem	OK
35	CCB03	CCB03	CCB	12/06/24 14:46		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133790

Review By	kareem	Review On	12/11/2024 6:00:03 PM
Supervise By	jaswal	Supervise On	12/11/2024 11:12:35 PM

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

36	P5068-07L	14B-(1-4)-COMPL	SD	12/06/24 14:50	Mn high	Kareem	Dilution
37	P5068-07MS	14B-(1-4)-COMPMS	MS	12/06/24 14:55	Mn high	Kareem	Dilution
38	P5068-07MSD	14B-(1-4)-COMPMSD	MSD	12/06/24 14:59	Mn high	Kareem	Dilution
39	P5068-07A	14B-(1-4)-COMPA	PS	12/06/24 15:03	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
40	P5069-01	A3988-SLUDGE	SAM	12/06/24 15:07	Fe high	Kareem	Dilution
41	P5076-01	TAPIAL2-SB02I-7.5-1	SAM	12/06/24 15:12		Kareem	OK
42	P5076-01DUP	TAPIAL2-SB02I-7.5-1	DUP	12/06/24 15:16		Kareem	OK
43	P5076-01L	TAPIAL2-SB02I-7.5-1	SD	12/06/24 15:21		Kareem	OK
44	P5076-01MS	TAPIAL2-SB02I-7.5-1	MS	12/06/24 15:25	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
45	P5076-01MSD	TAPIAL2-SB02I-7.5-1	MSD	12/06/24 15:29	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
46	CCV04	CCV04	CCV	12/06/24 15:40		Kareem	OK
47	CCB04	CCB04	CCB	12/06/24 15:44		Kareem	OK
48	P5076-01A	TAPIAL2-SB02I-7.5-1	PS	12/06/24 15:48	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
49	P5095-01	MH-764	SAM	12/06/24 15:52		Kareem	OK
50	P5096-01	MH-B	SAM	12/06/24 15:56		Kareem	OK
51	P5096-05	MH-A	SAM	12/06/24 16:01		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133790

Review By	kareem	Review On	12/11/2024 6:00:03 PM
Supervise By	jaswal	Supervise On	12/11/2024 11:12:35 PM

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

52	P5098-01	TR-04-12042024	SAM	12/06/24 16:05		Kareem	OK
53	P5100-01	324	SAM	12/06/24 16:09		Kareem	OK
54	P5105-01	CTWK-COMP-1	SAM	12/06/24 16:13		Kareem	OK
55	P5108-01	ASPHALT-COMP	SAM	12/06/24 16:17		Kareem	OK
56	LR1	LR1	HIGH STD	12/06/24 16:25		Kareem	OK
57	LR2	LR2	HIGH STD	12/06/24 16:30		Kareem	OK
58	CCV05	CCV05	CCV	12/06/24 16:35		Kareem	OK
59	CCB05	CCB05	CCB	12/06/24 16:39		Kareem	OK
60	P4997-07DL	14B-(1-4)-COMPDL	SAM	12/06/24 16:43	Not used	Kareem	Not Ok
61	P5051-07DL	14B-(1-4)-COMPDL	SAM	12/06/24 16:48	Not used	Kareem	Not Ok
62	P5068-07DL	14B-(1-4)-COMPDL	SAM	12/06/24 16:52	5X for Mn	Kareem	Confirms
63	P5068-07DUPDL	14B-(1-4)-COMPDUP	DUP	12/06/24 16:57	5X for Mn	Kareem	Confirms
64	P5068-07LDL	14B-(1-4)-COMPLDL	SD	12/06/24 17:01	5X for Mn	Kareem	Confirms
65	P5068-07MSDL	14B-(1-4)-COMPMSD	MS	12/06/24 17:05	5X for Mn	Kareem	Confirms
66	P5068-07MSDDL	14B-(1-4)-COMPMSD	MSD	12/06/24 17:09	5X for Mn	Kareem	Confirms
67	P5068-07ADL	14B-(1-4)-COMPADL	PS	12/06/24 17:14	Not used	Kareem	Not Ok
68	P5069-01DL	A3988-SLUDGEDL	SAM	12/06/24 17:18	5X for Fe	Kareem	Confirms
69	P5138-01	001-WILLETS-PT-BL\	SAM	12/06/24 17:22		Kareem	OK
70	CCV06	CCV06	CCV	12/06/24 17:27		Kareem	OK
71	CCB06	CCB06	CCB	12/06/24 17:31		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133790

Review By	kareem	Review On	12/11/2024 6:00:03 PM
Supervise By	jaswal	Supervise On	12/11/2024 11:12:35 PM

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

72	PB165430BL	PB165430BL	MB	12/06/24 17:36		Kareem	OK
73	PB165430BS	PB165430BS	LCS	12/06/24 17:40	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
74	P5138-02	002-35TH-AVE(NOV)	SAM	12/06/24 17:44		Kareem	OK
75	P5138-02DUP	002-35TH-AVE(NOV)I	DUP	12/06/24 17:48		Kareem	OK
76	P5138-02L	002-35TH-AVE(NOV)I	SD	12/06/24 17:52		Kareem	OK
77	P5138-02MS	002-35TH-AVE(NOV)I	MS	12/06/24 17:57	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
78	P5138-02MSD	002-35TH-AVE(NOV)I	MSD	12/06/24 18:01	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
79	P5138-02A	002-35TH-AVE(NOV)A	PS	12/06/24 18:05	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
80	P5139-01	001-WILLETS-PT-BLV	SAM	12/06/24 18:09		Kareem	OK
81	P5139-02	002-35TH-AVE(DEC)	SAM	12/06/24 18:13		Kareem	OK
82	CCV07	CCV07	CCV	12/06/24 18:21		Kareem	OK
83	CCB07	CCB07	CCB	12/06/24 18:27		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133852

Review By	jaswal	Review On	12/10/2024 8:51:31 PM
Supervise By	mohan	Supervise On	12/10/2024 8:52:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP83534,MP83535,MP83536,MP835337,MP83538,MP83538,MP83540
ICV Standard	MP83541
CCV Standard	MP83543
ICSA Standard	
CRI Standard	MP83545
LCS Standard	
Chk Standard	MP83542,MP83544,MP83546,MP83548

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/10/24 09:37		Mohan	OK
2	S0.05	S0.05	CAL2	12/10/24 09:42		Mohan	OK
3	S0.2	S0.2	CAL3	12/10/24 09:44		Mohan	OK
4	S2.5	S2.5	CAL4	12/10/24 09:47		Mohan	OK
5	S5	S5	CAL5	12/10/24 09:49		Mohan	OK
6	S7.5	S7.5	CAL6	12/10/24 09:51		Mohan	OK
7	S10	S10	CAL7	12/10/24 09:59		Mohan	OK
8	ICV14	ICV14	ICV	12/10/24 10:09		Mohan	OK
9	ICB14	ICB14	ICB	12/10/24 10:17		Mohan	OK
10	CCV10	CCV10	CCV	12/10/24 10:29		Mohan	OK
11	CCB10	CCB10	CCB	12/10/24 10:34		Mohan	OK
12	CRA	CRA	CRDL	12/10/24 10:39		Mohan	OK
13	HighStd	HighStd	HIGH STD	12/10/24 10:49		Mohan	OK
14	ChkStd	ChkStd	SAM	12/10/24 10:51		Mohan	OK
15	PB165519BL	PB165519BL	MB	12/10/24 10:53		Mohan	OK
16	PB165519BS	PB165519BS	LCS	12/10/24 11:02		Mohan	OK
17	P4368-10	LOD-MDL-WATER-04	SAM	12/10/24 11:12		Mohan	OK
18	P4368-11	LOQ-WATER-05-QT4	LOQ	12/10/24 11:14	true value - 0.2	Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133852

Review By	jaswal	Review On	12/10/2024 8:51:31 PM
Supervise By	mohan	Supervise On	12/10/2024 8:52:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP83534,MP83535,MP83536,MP835337,MP83538,MP83538,MP83540
ICV Standard	MP83541
CCV Standard	MP83543
ICSA Standard	
CRI Standard	MP83545
LCS Standard	
Chk Standard	MP83542,MP83544,MP83546,MP83548

19	P5051-07	14B-(1-4)-COMP	SAM	12/10/24 11:16		Mohan	OK
20	P5068-07	14B-(1-4)-COMP	SAM	12/10/24 11:19		Mohan	OK
21	P5192-02	EFF-WASTE WATER	SAM	12/10/24 11:21		Mohan	OK
22	CCV11	CCV11	CCV	12/10/24 11:26		Mohan	OK
23	CCB11	CCB11	CCB	12/10/24 11:31		Mohan	OK
24	P5192-02DUP	EFF-WASTE WATERI	DUP	12/10/24 11:33		Mohan	OK
25	P5192-02MS	EFF-WASTE WATERI	MS	12/10/24 11:35		Mohan	OK
26	P5192-02MSD	EFF-WASTE WATERI	MSD	12/10/24 11:37		Mohan	OK
27	P5192-02L	EFF-WASTE WATERI	SD	12/10/24 11:40		Mohan	OK
28	P5192-02A	EFF-WASTE WATERA	PS	12/10/24 11:42		Mohan	OK
29	CCV12	CCV12	CCV	12/10/24 11:44		Mohan	OK
30	CCB12	CCB12	CCB	12/10/24 11:49		Mohan	OK

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Prep Standard - Chemical Standard Summary

Order ID : P5051

Test : Mercury,Metals ICP-Group1

Prepbatch ID : PB165365,PB165519,

Sequence ID/Qc Batch ID: LB133769,LB133790,LB133852,

Standard ID :

MP83078 MP83079 MP73080 MP83081 MP83082 MP83084,MP83083,MP83085,MP83086 MP83087,MP83088,MP83091 MP83092,MP83105,MP83500,MP835337,MP83534,MP83535,MP83536,MP83538,MP83540,MP83541,MP83542,MP83543,MP83544,MP83545,MP83546,MP83548,MP83552,MP83553,MP83554,MP83555,MP83556,MP83557,MP83558,MP83559,MP83560,MP83561,MP83562,MP83565,MP83566,

Chemical ID :

M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5393,M5394,M5429,M5466,M5467,M5497,M5498,M5515,M5658,M5697,M5698,M5747,M5748,M5768,M5769,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,M6111,M6117,M6121,M6126,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP83083	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 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 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 M5498 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 2.00000ml of M5816 + 2.00000ml of M5818 + 77.68000ml of MP83078 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP83085	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.25000ml of M5218 + 0.25000ml of M5982 + 10.00000ml of M5295 + 89.77500ml of MP83078 = 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	MP83088	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 50.00000ml of MP83078 + 50.00000ml of MP83079 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83105	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6111 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83534	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

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
2750	Hg 0.05ppb	MP83535	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 247.45000ml of W3112 + 0.05000ml of MP83533 = 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	MP83536	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83533 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP83538	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83533 = 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	MP83540	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83533 = 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	MP83541	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

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)	MP83542	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

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)	MP83543	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP83533 = 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)	MP83544	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

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)	MP83545	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83533 = 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)	MP83546	12/10/2024	12/11/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/10/2024

FROM 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP83533 = 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	MP83548	12/10/2024	12/11/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/10/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	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

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

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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	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

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

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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 /	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 /	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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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	02/20/2020 / 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 #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	11/28/2022 / bin	09/19/2022 / bin	M5394

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

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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

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.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

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 #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

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.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	01/25/2019 / 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)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

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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)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

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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.
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Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

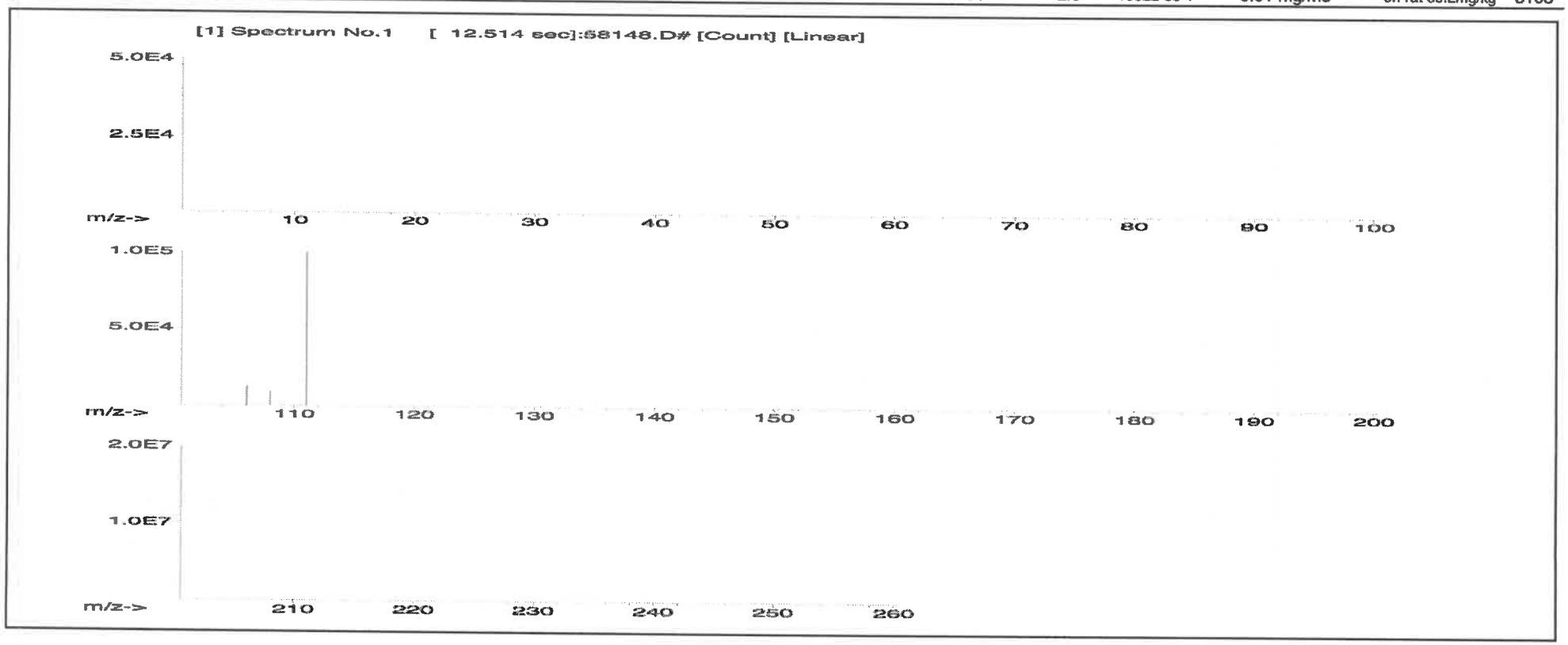
CERTIFIED WEIGHT REPORT:

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
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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).

M5296 OP: 09/19/2022 BH

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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

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u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

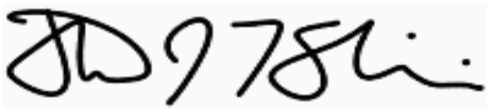
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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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

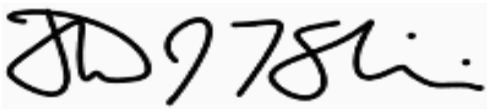
- Sealed TCT Bag Open Date: _____

- 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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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.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

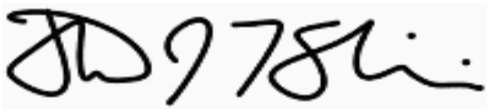
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

RD:05/14/2024

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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 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

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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
M5063
M3

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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 HNO_3. 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% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); 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

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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

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:

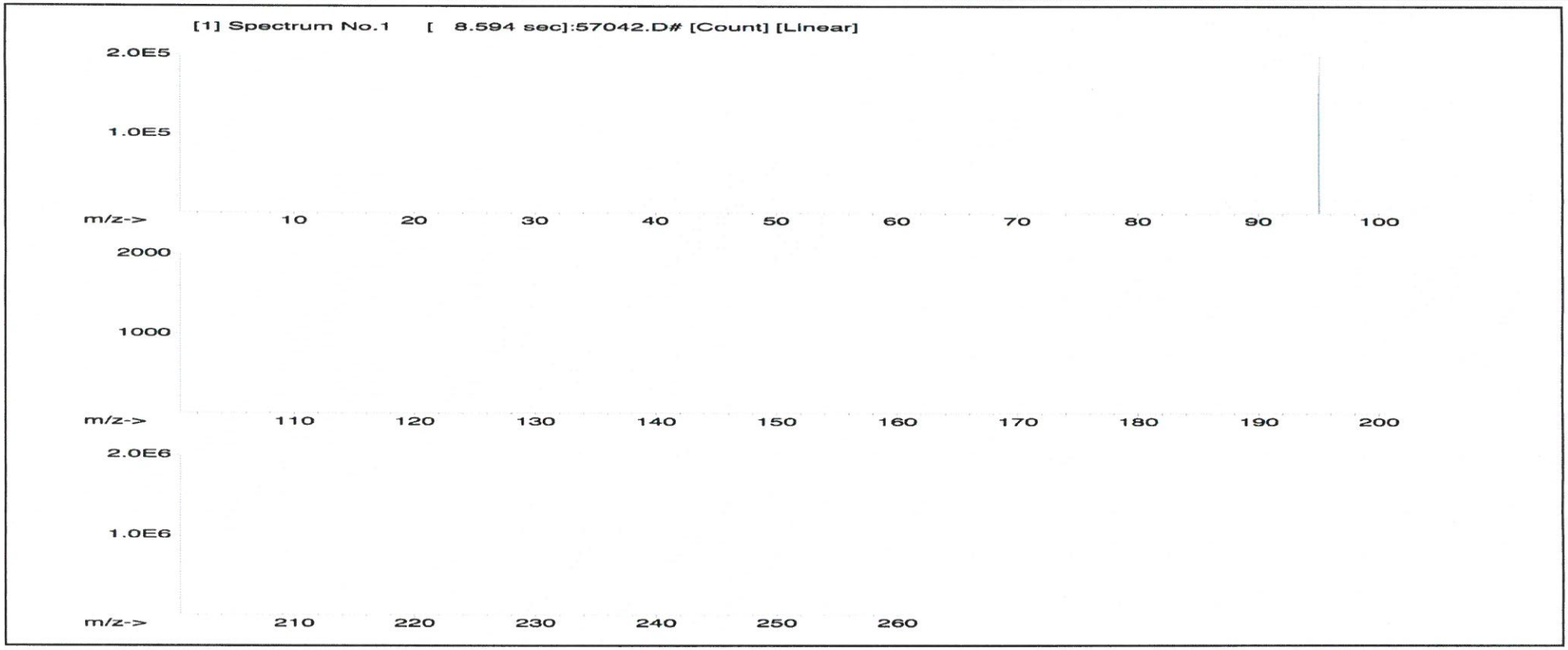
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	Lot #	Solvent:	
	MKBQ8597V	Ammonium hydroxide	
	0.5%	15.0 (mL)	Ammonium hydroxide

Expiration Date: 051725
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	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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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,

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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.

V15200 R: 04/24/22 (BP)

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CERTIFIED WEIGHT REPORT:

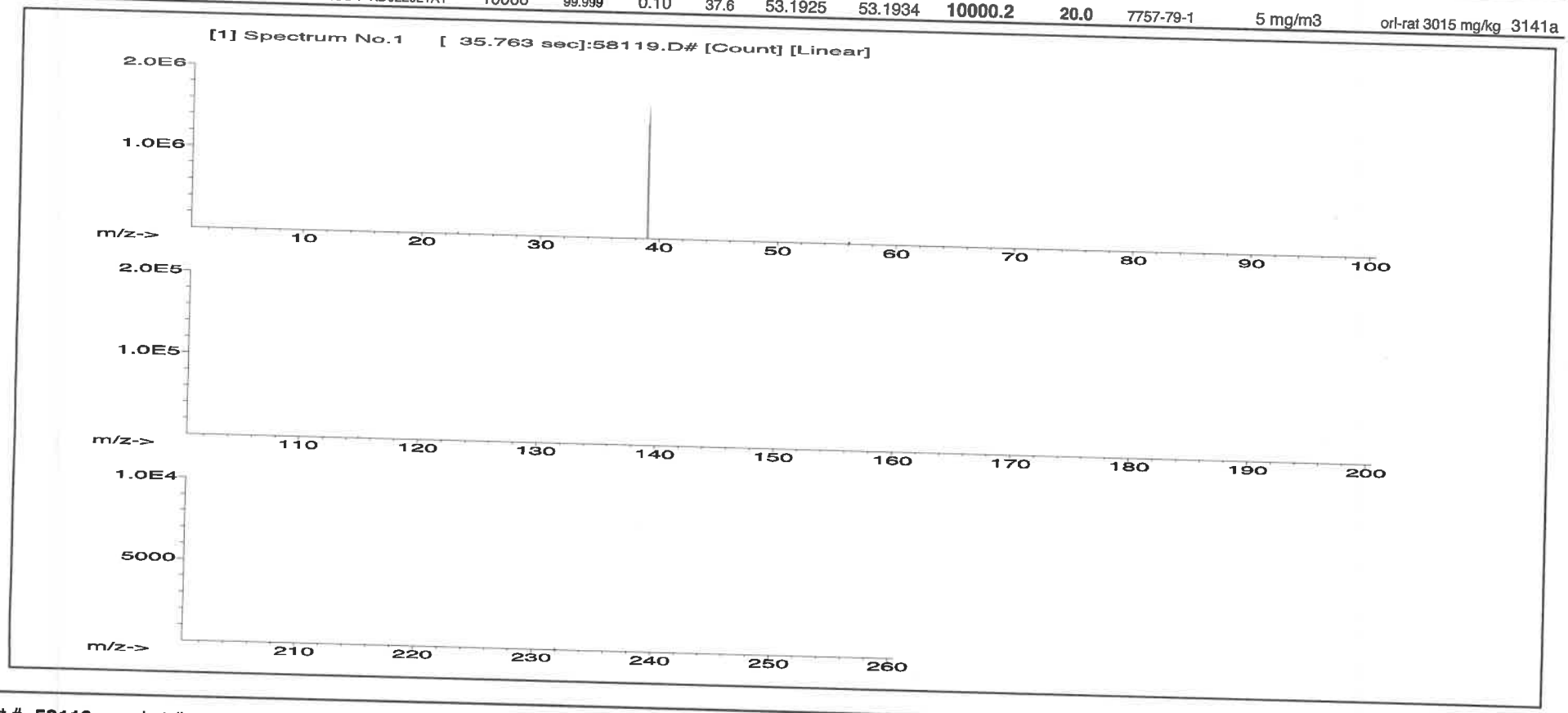
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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.

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ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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R: 09/08/22 (BH)

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M5387 . M5389 . M5390 . M5391 . M5392

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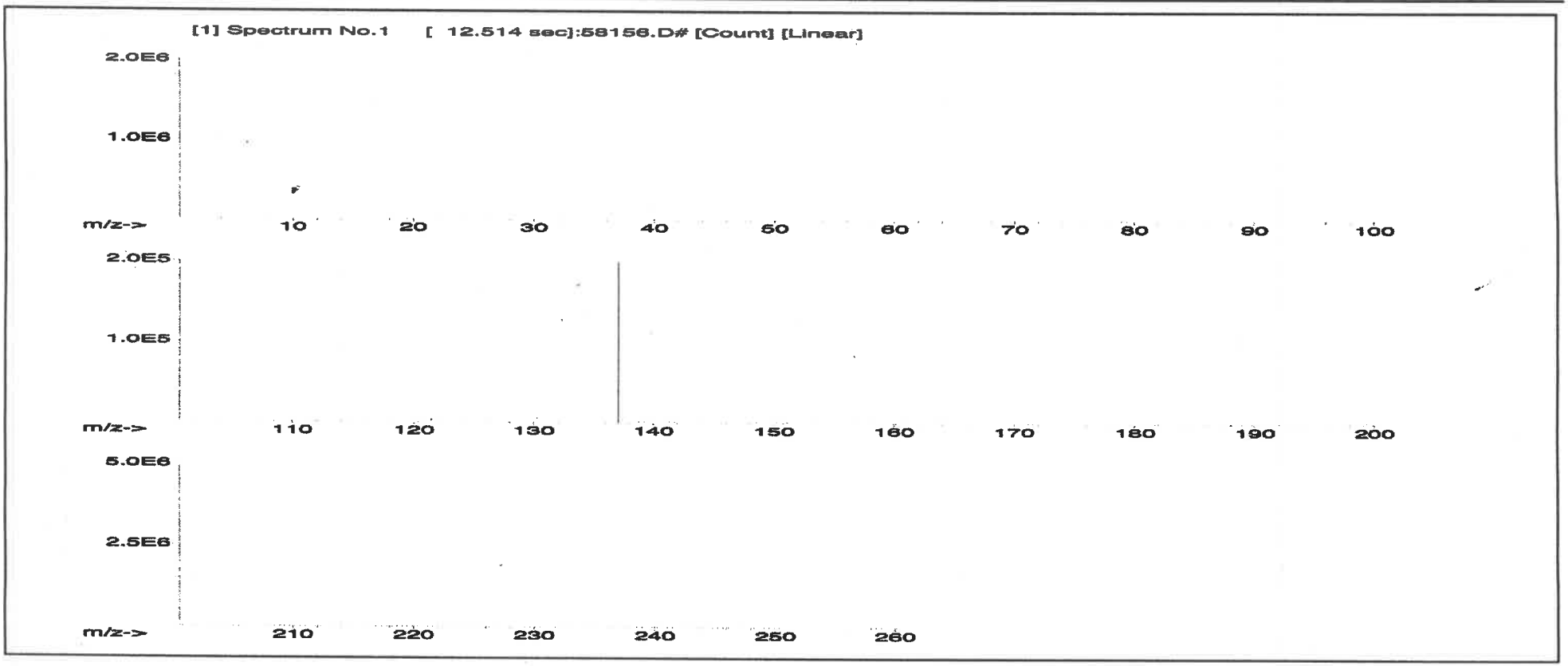
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
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)

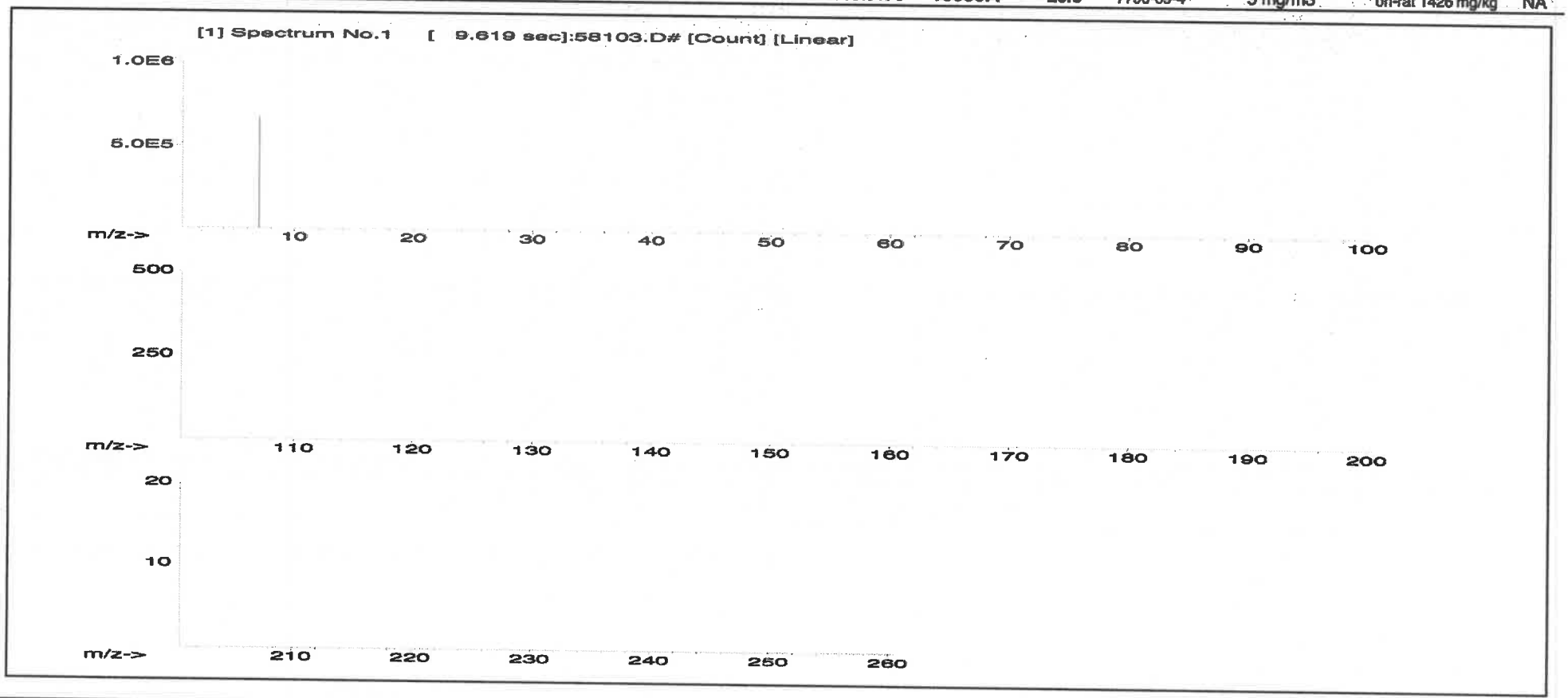
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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).
* 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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IN 5466
R: 03/01/23 BH

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

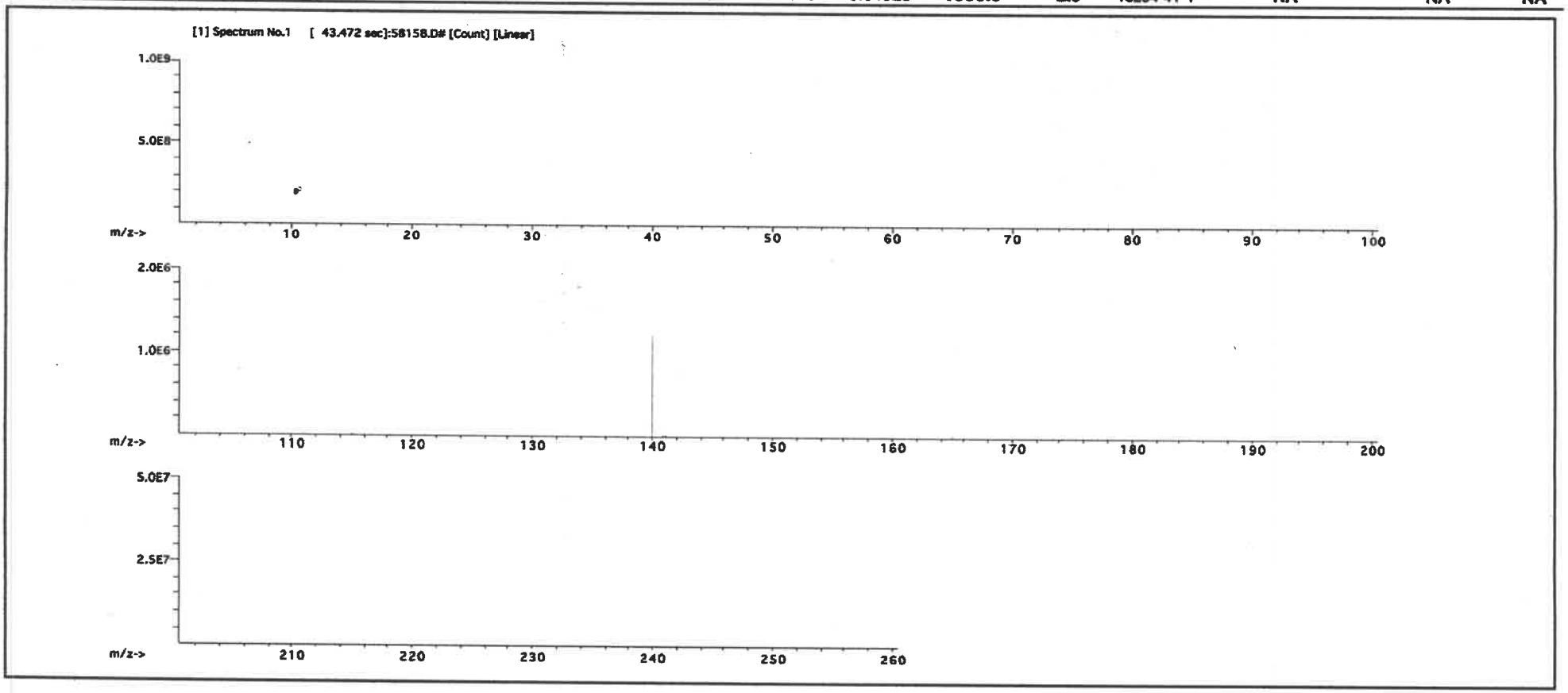
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

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 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are 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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M5467 R: 03/01/23 (LA)

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

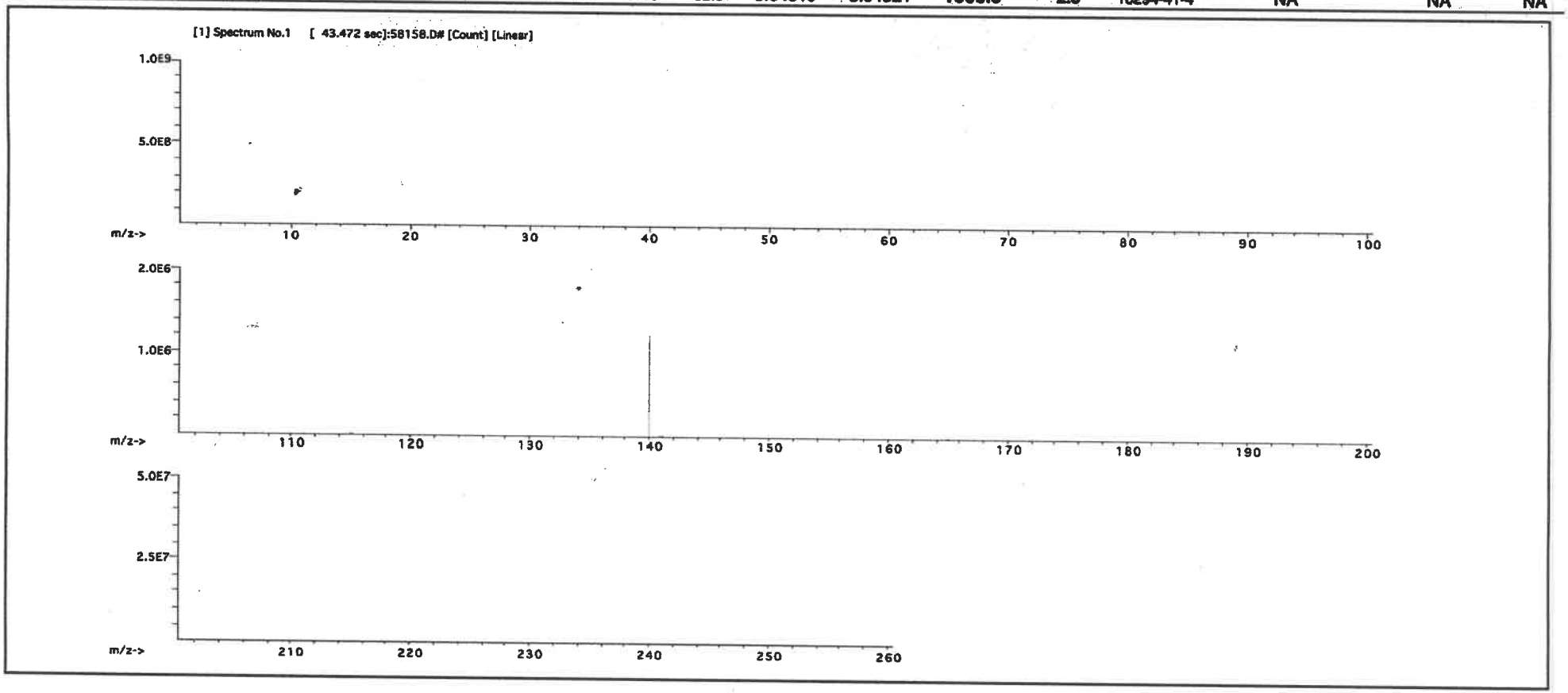
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

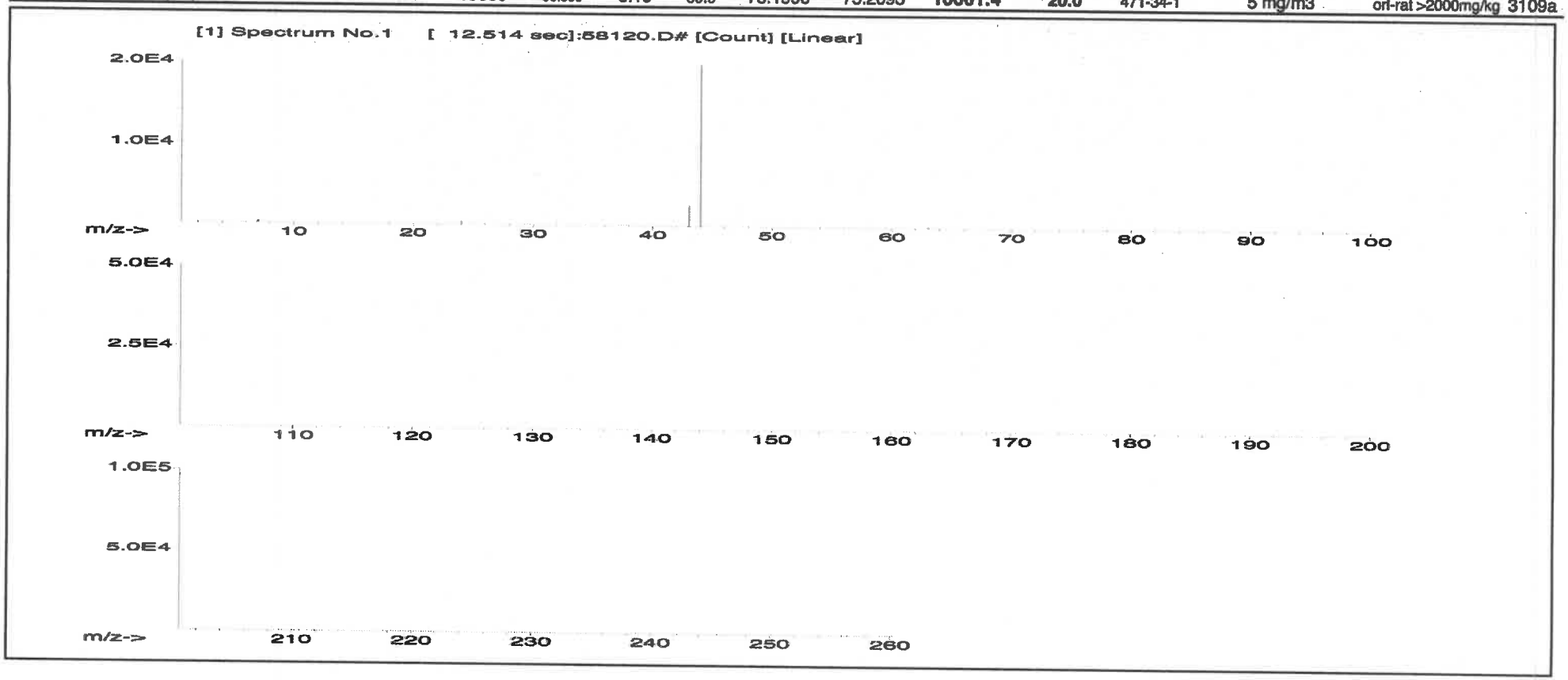
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

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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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

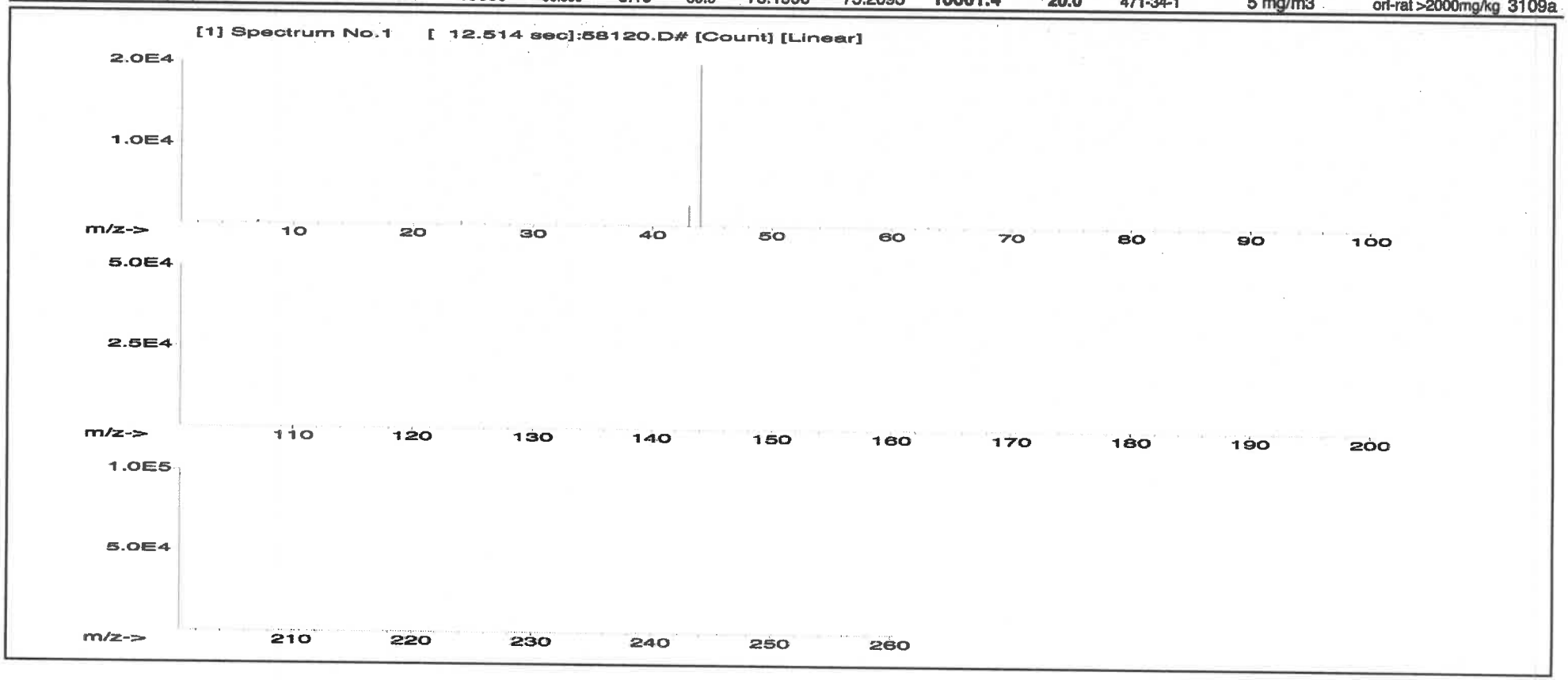
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



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M5514 - M5515 R: 03/17/22

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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 ± 0.12 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

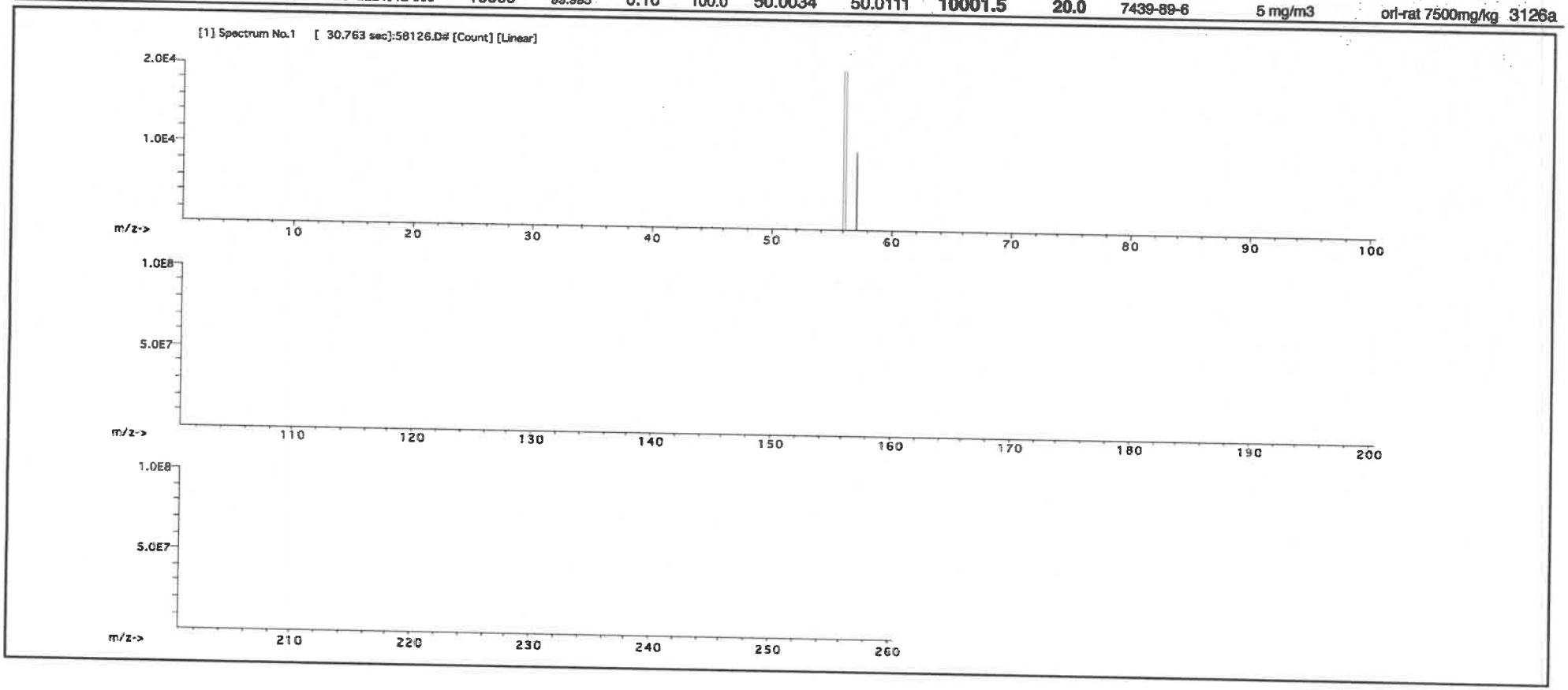
Giovanni Esposito

Formulated By: Giovanni Esposito 092122

Pedro Rentas

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



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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M5658 R ! 8/25/23

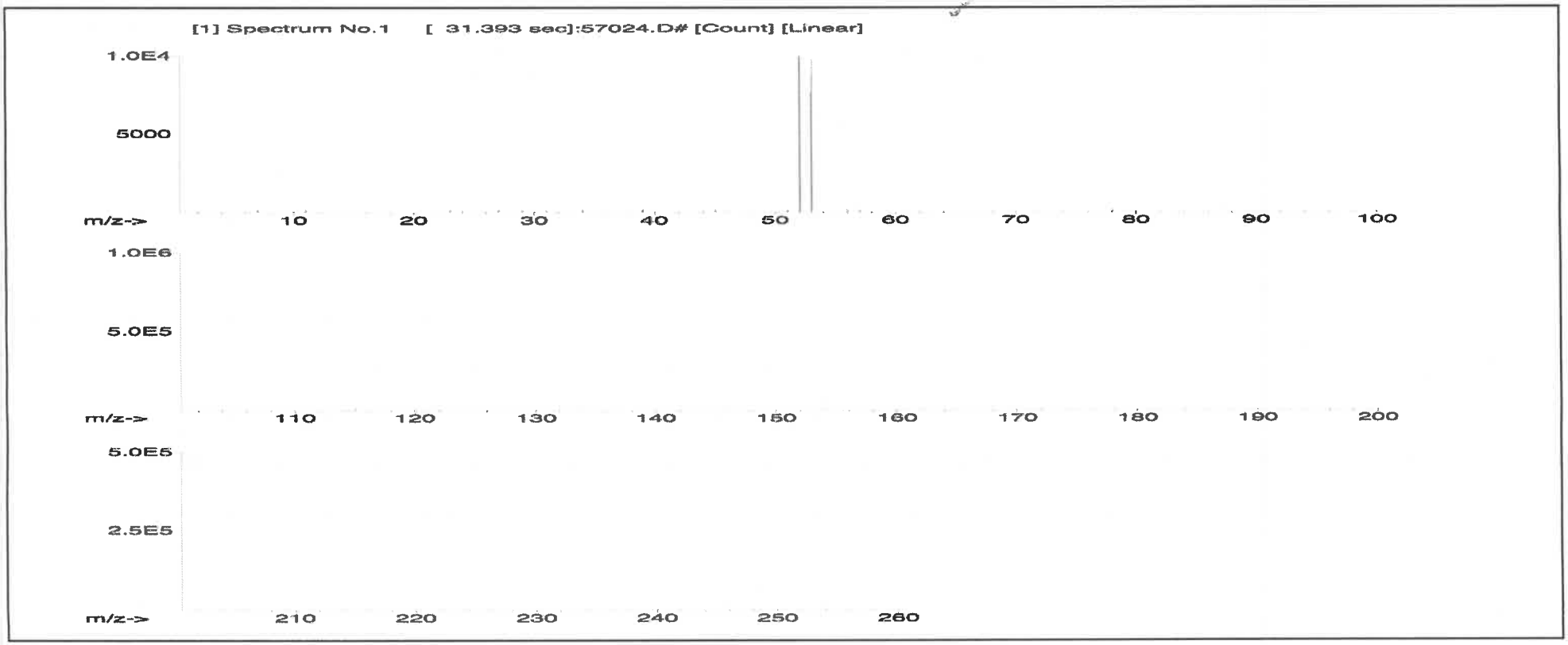
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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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M5697 R: 10/27/23

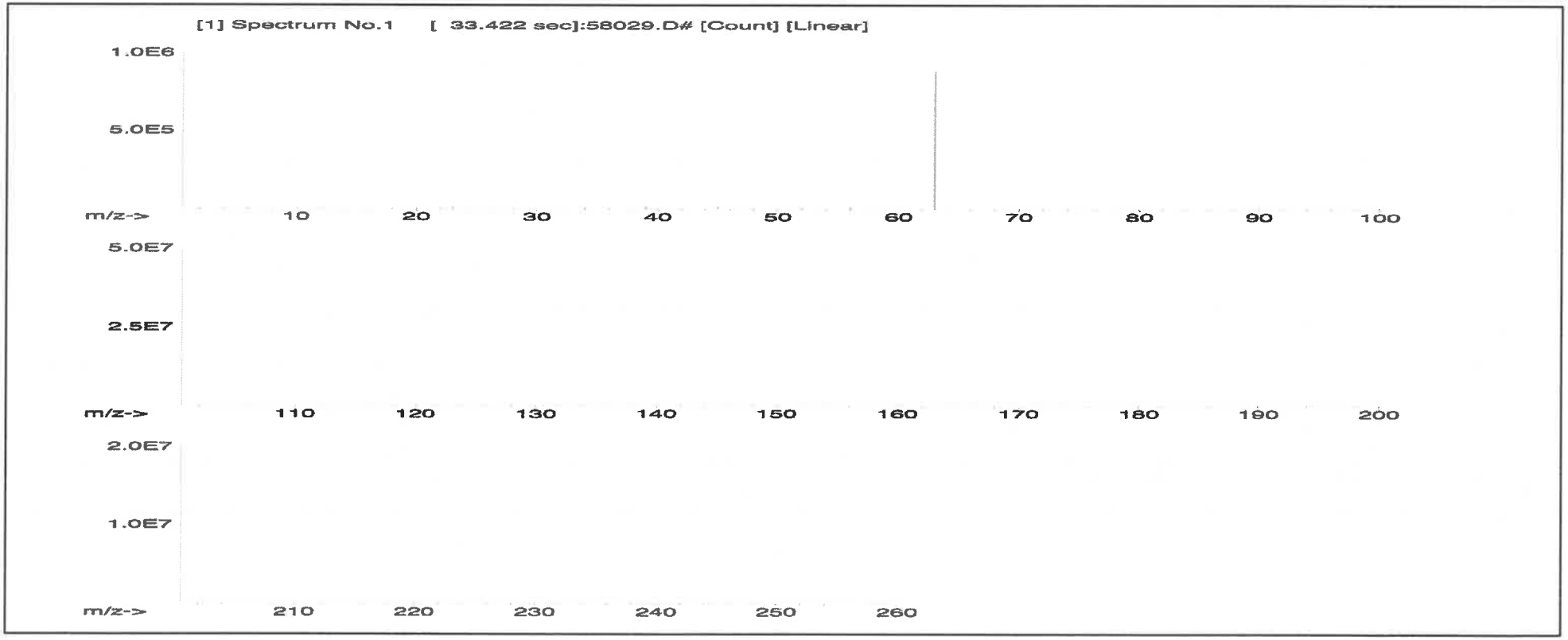
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5648 R: 10/27/23

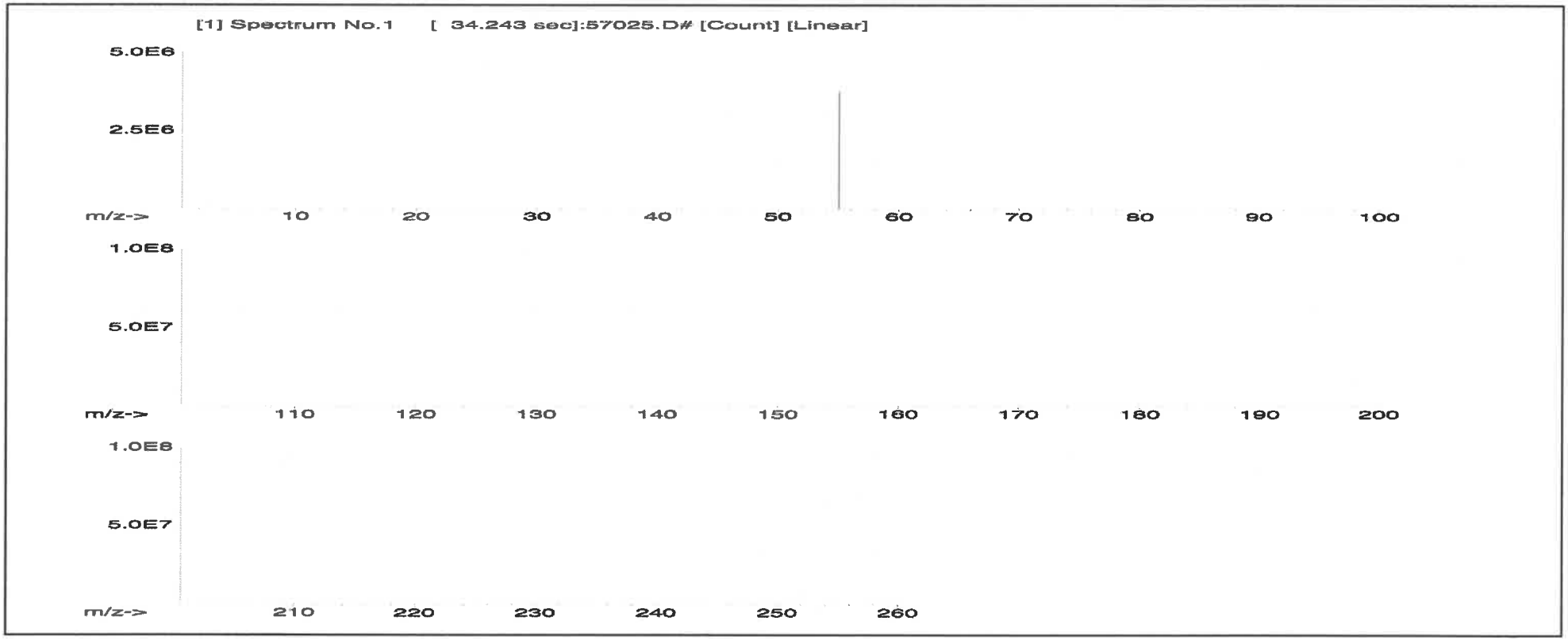
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* 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: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

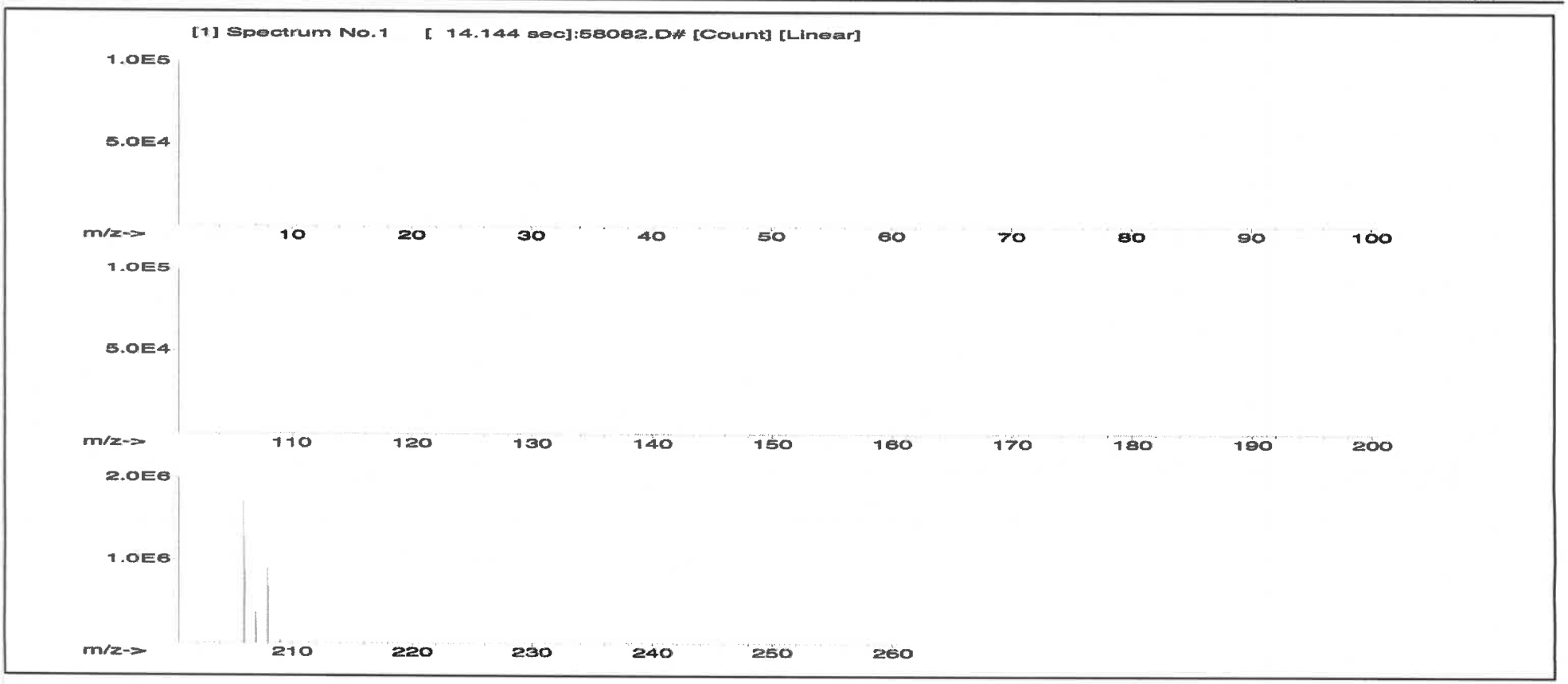
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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: 12/20/23 M5748

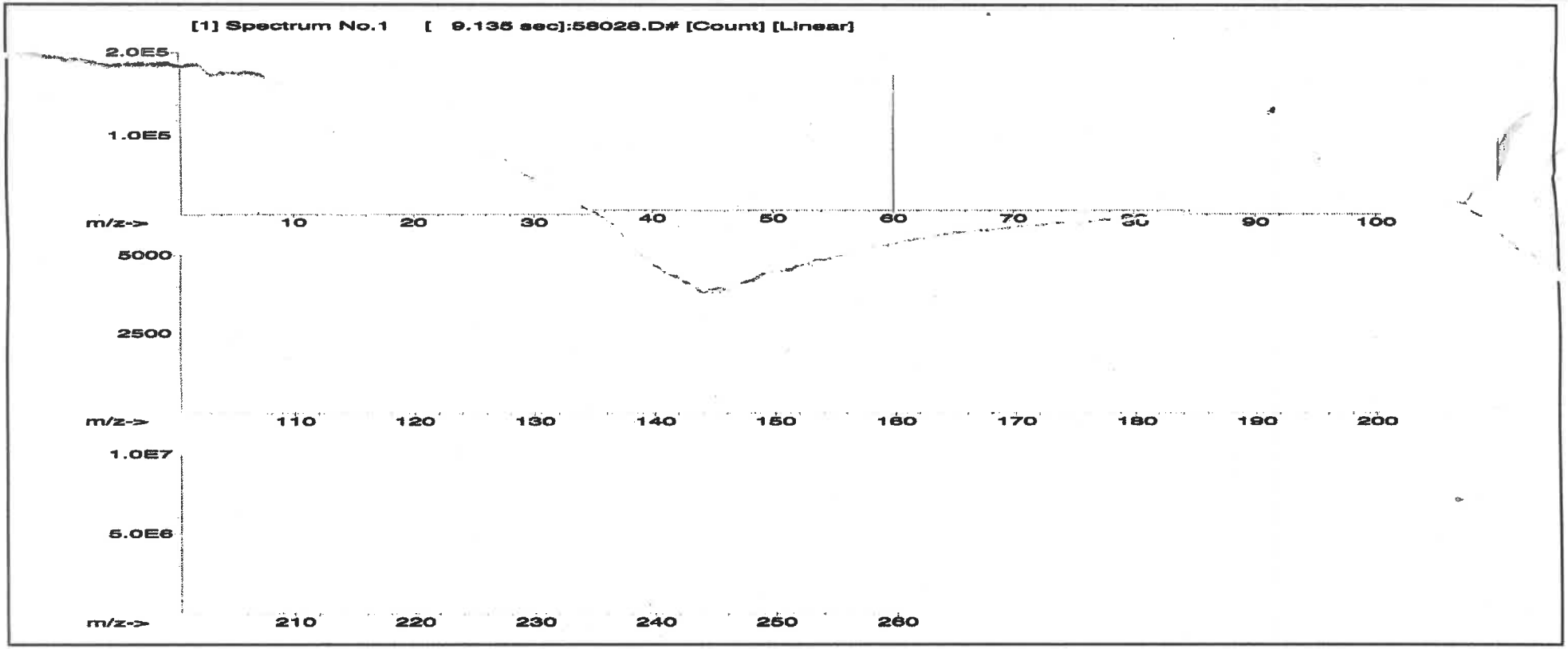
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

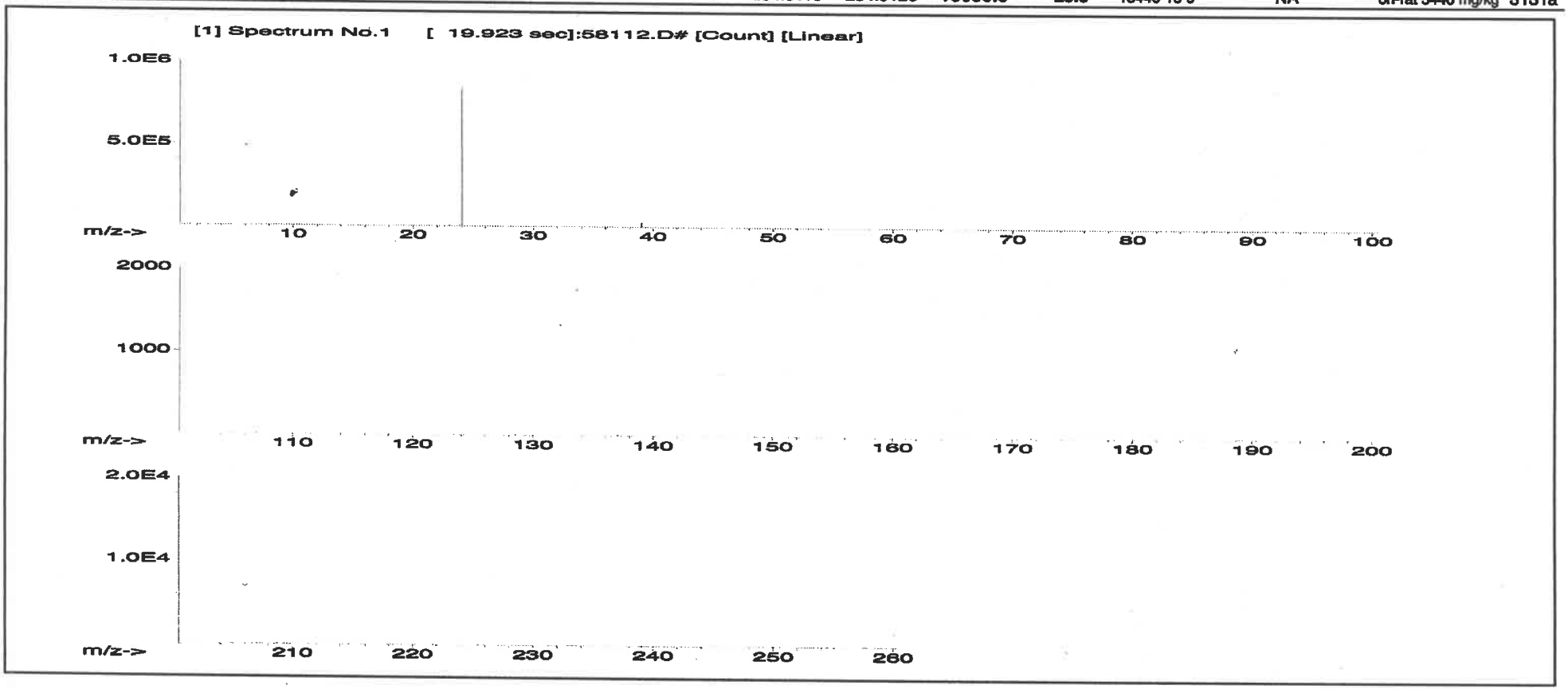
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

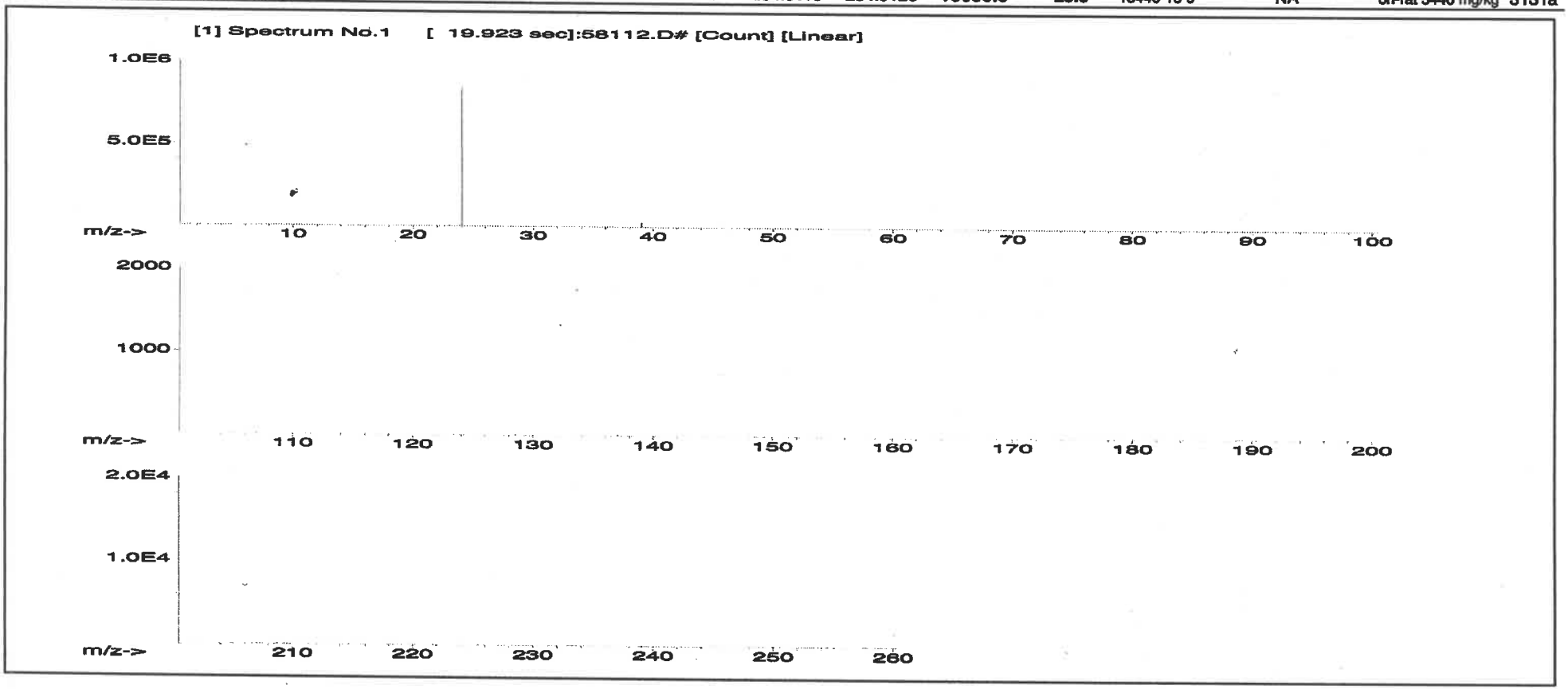
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5798

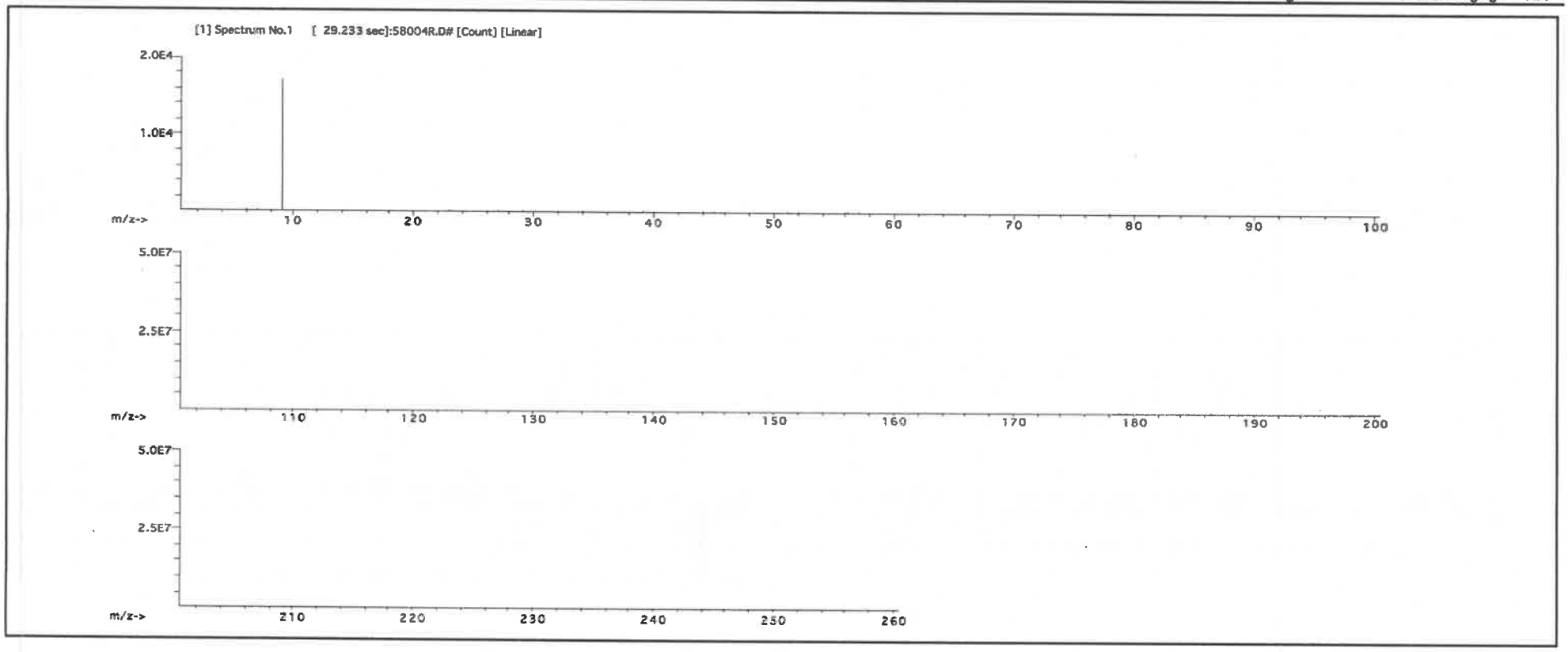
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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

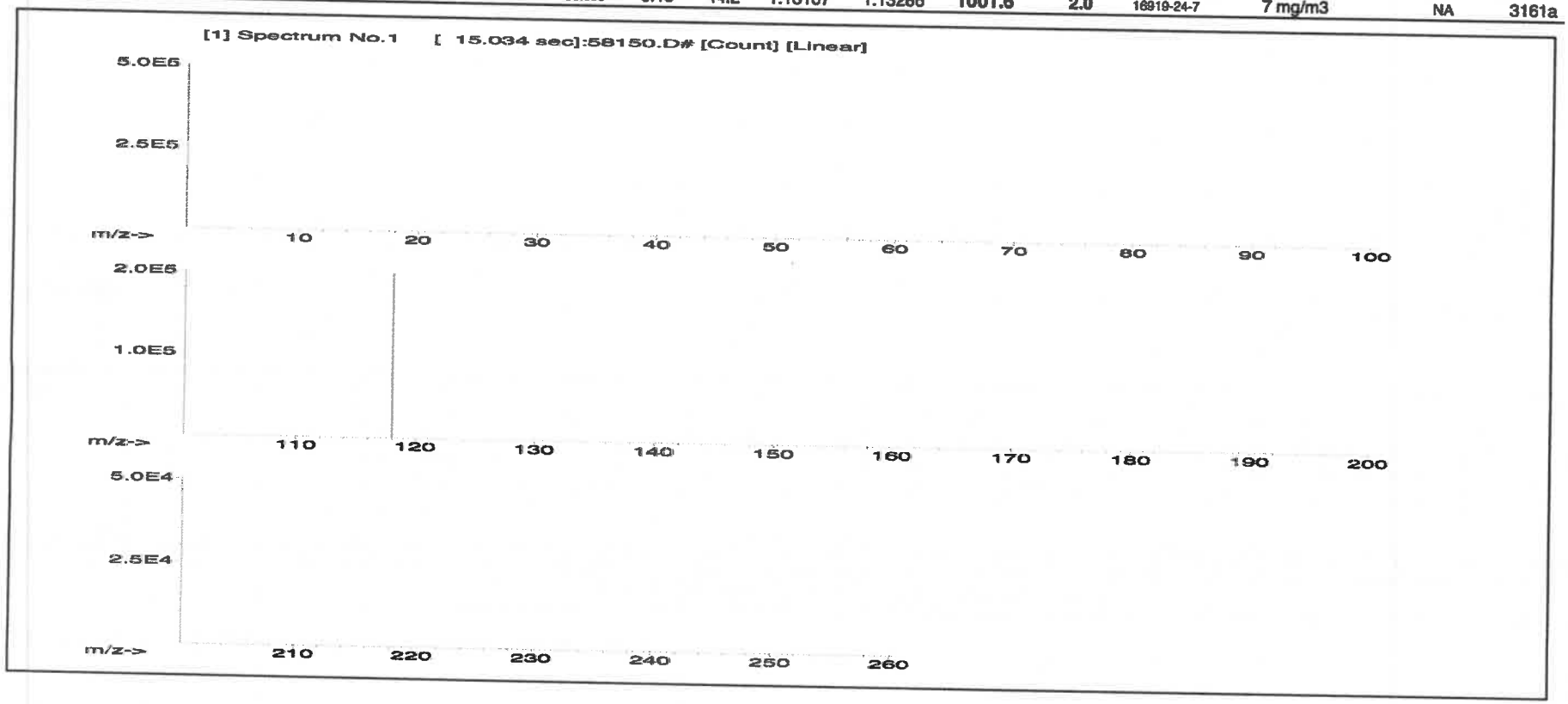
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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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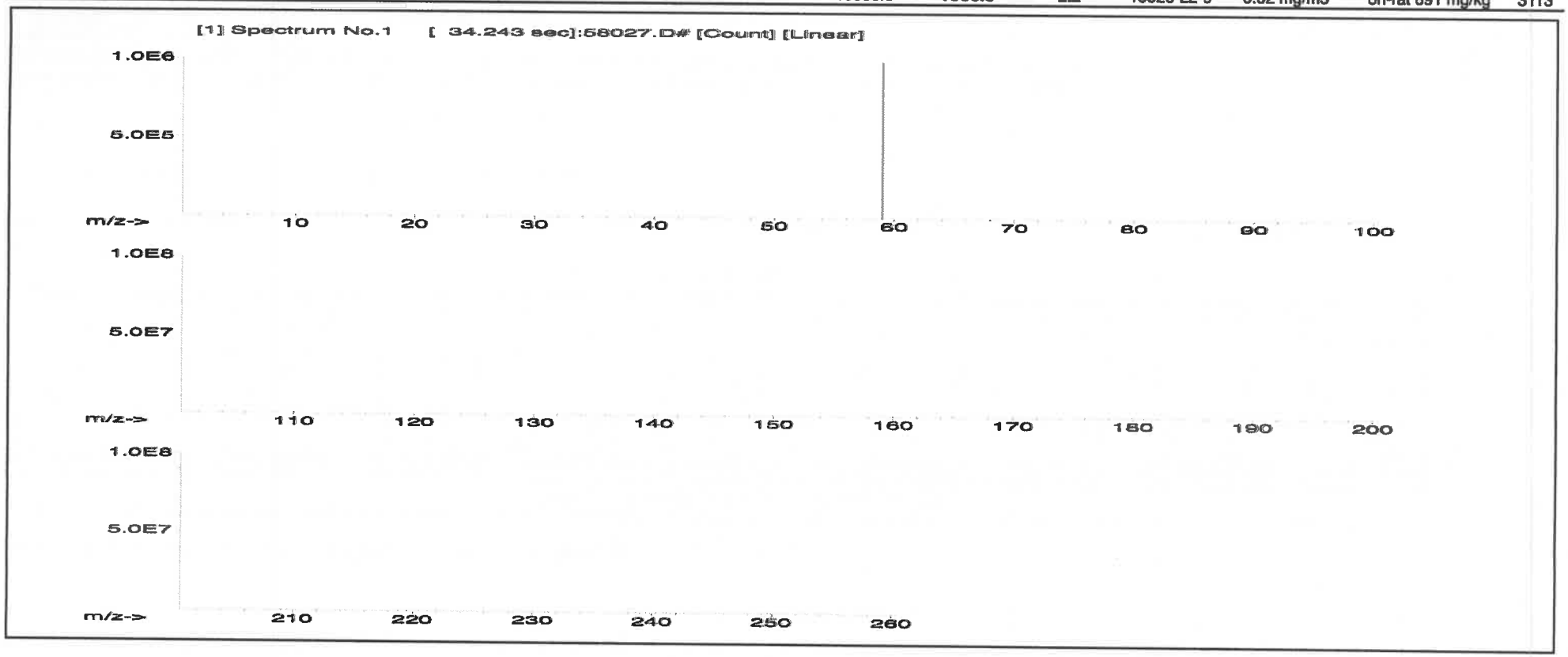
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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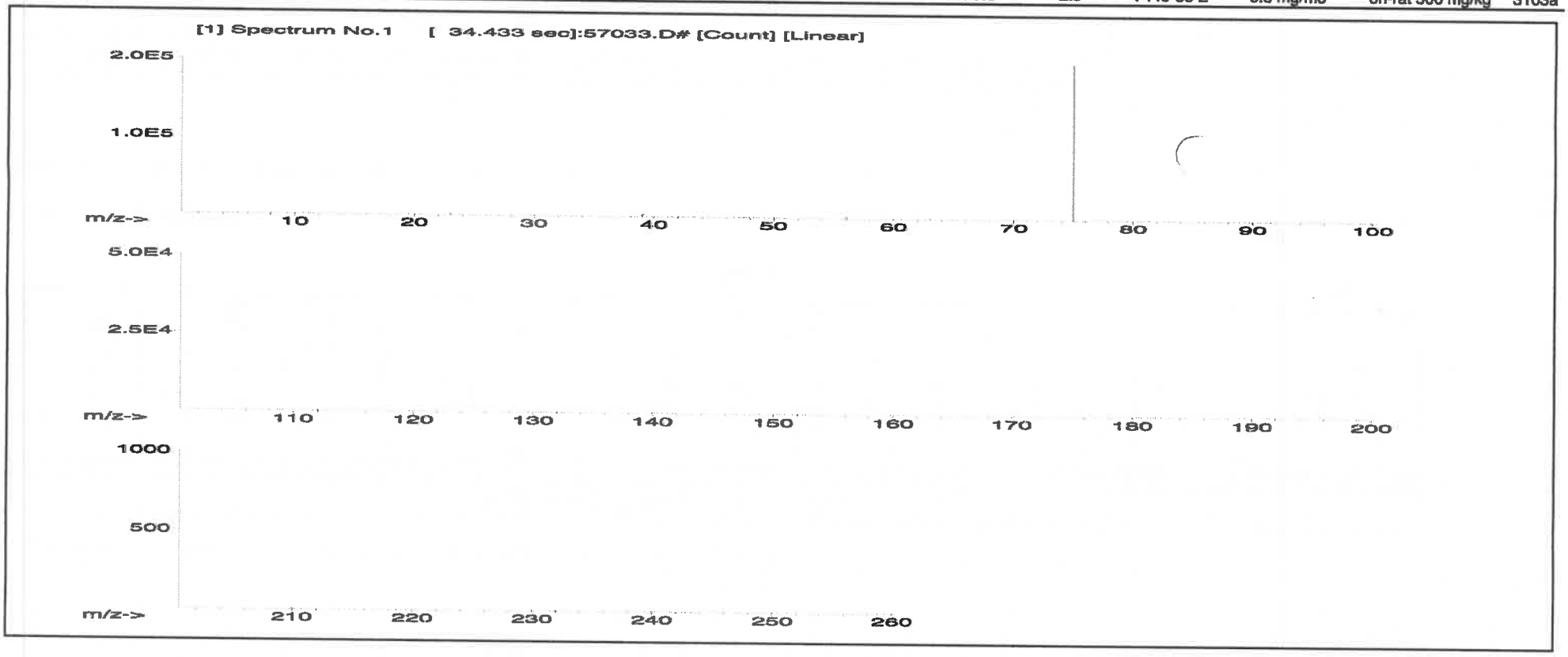
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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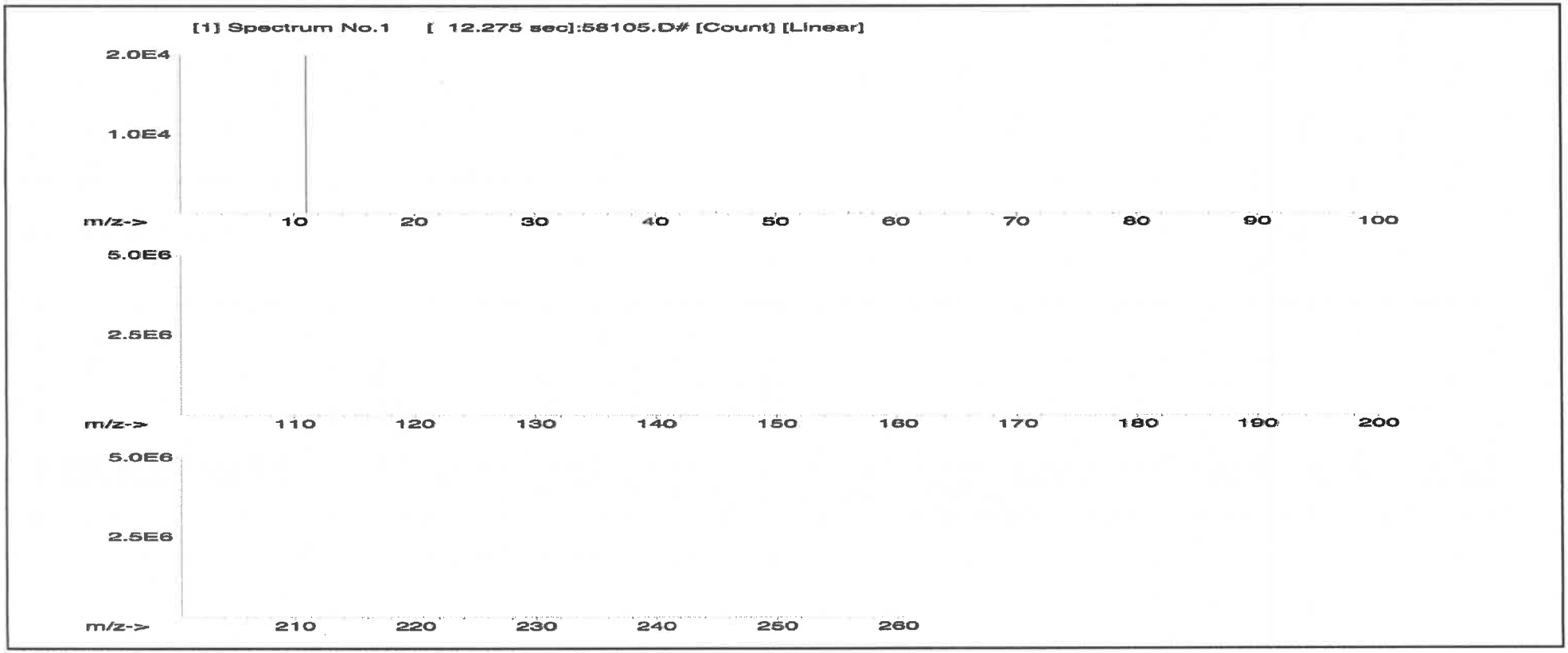
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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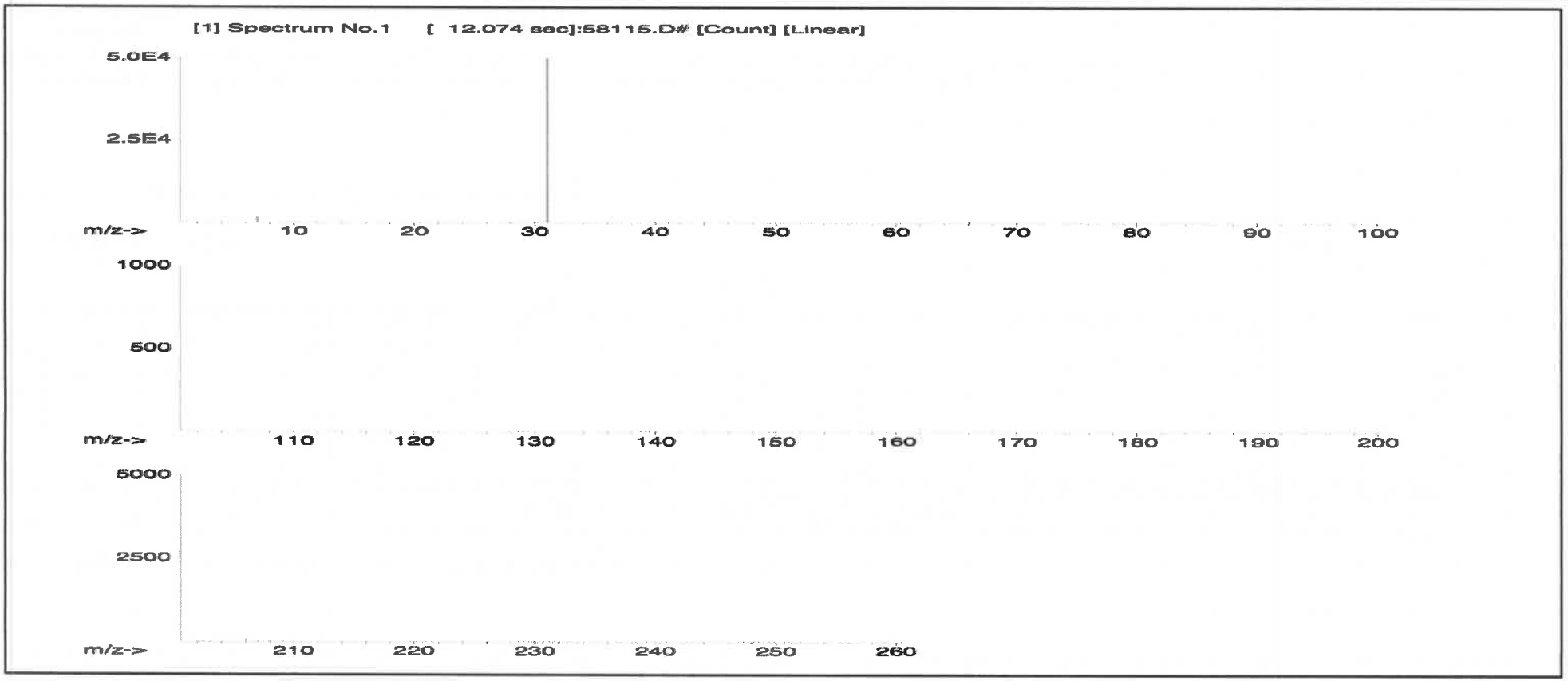
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 02/09/24 M5816

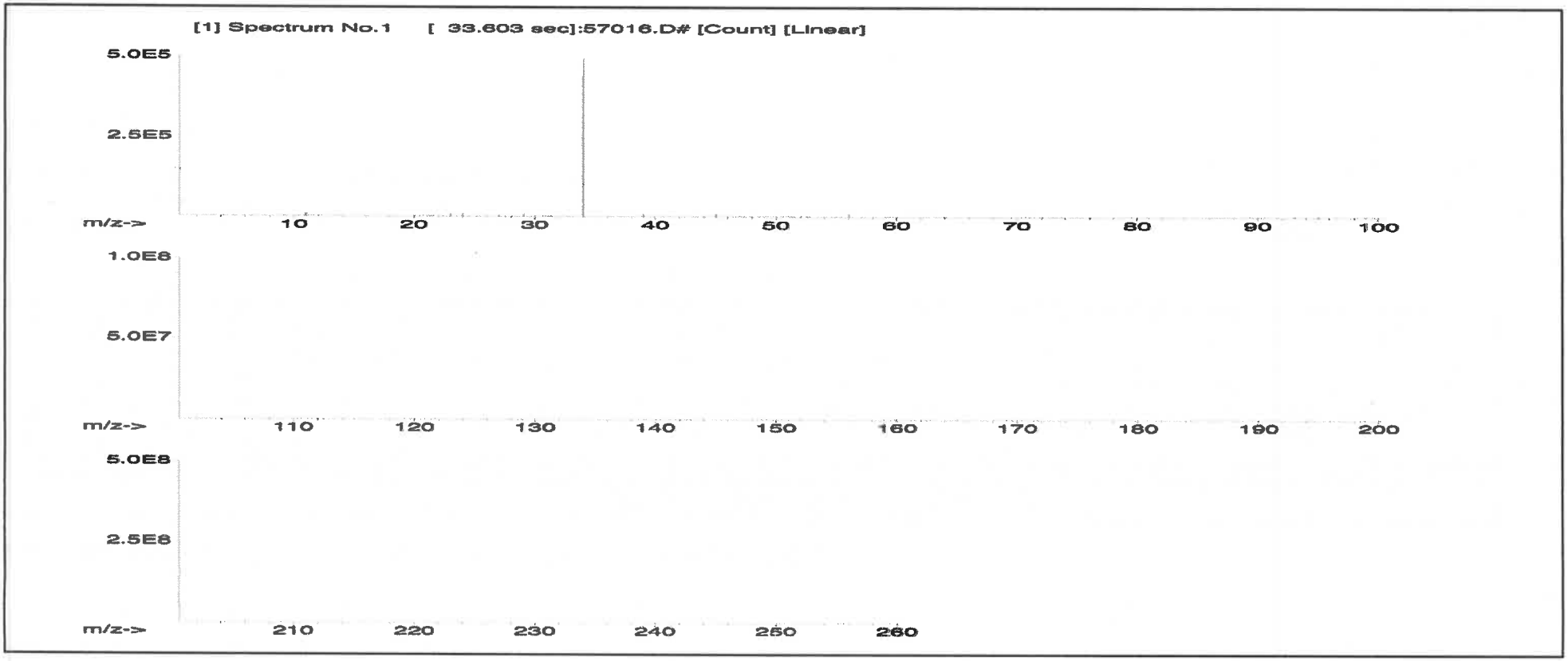
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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

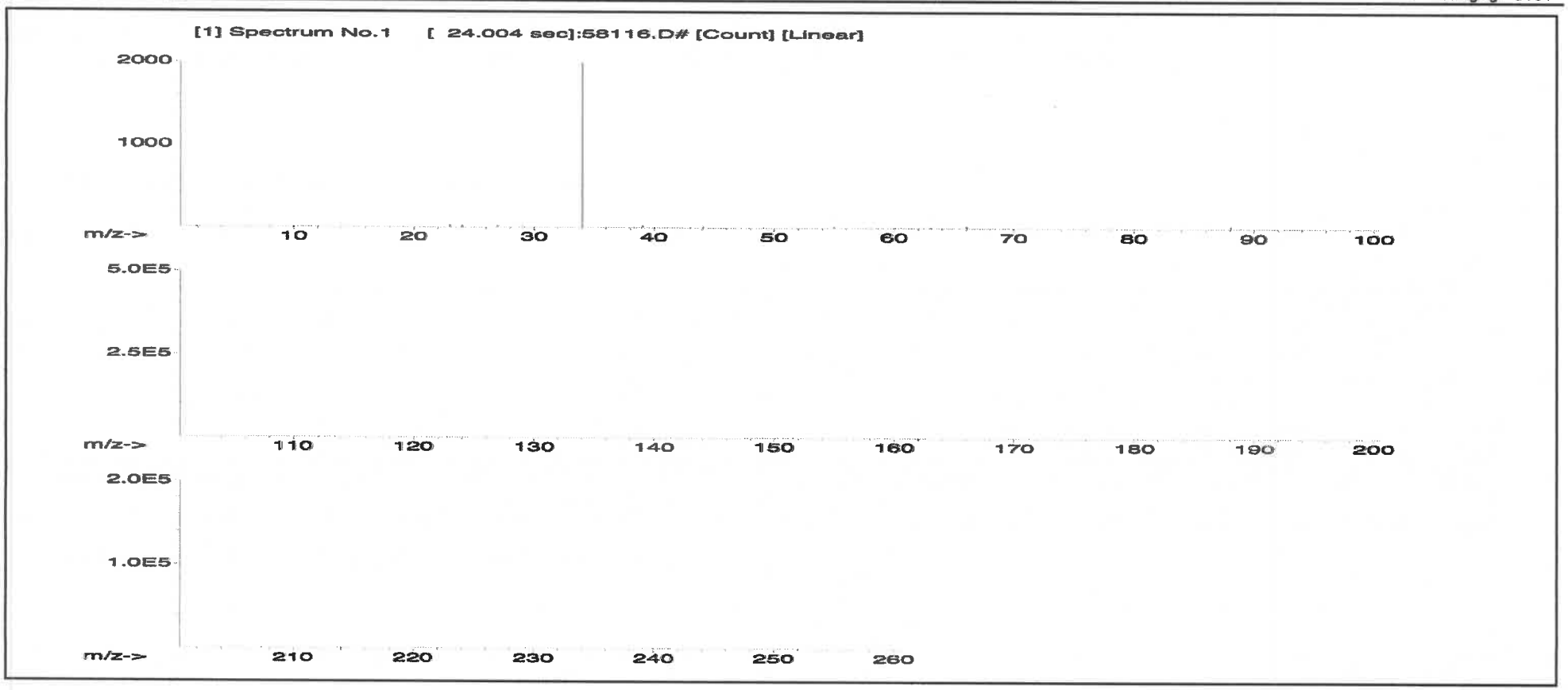
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



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.
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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

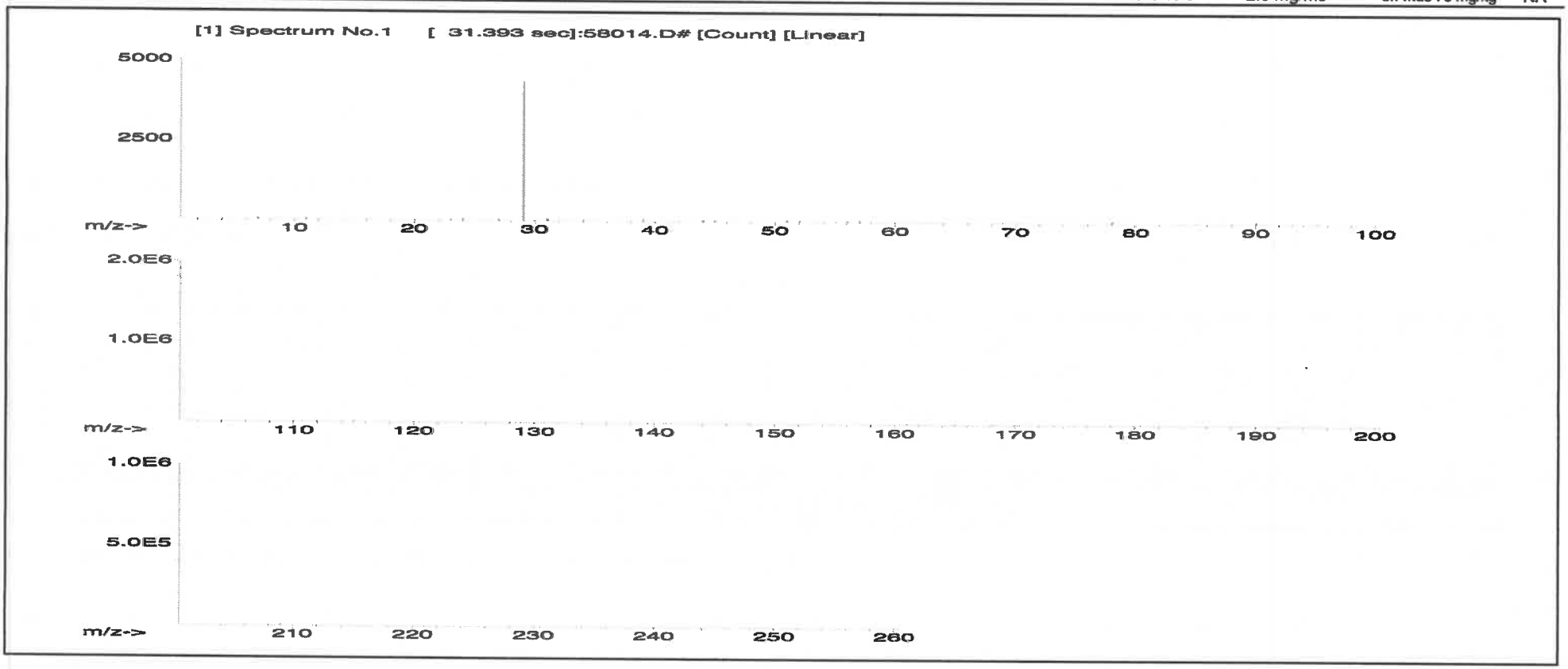
Aleah O'Brady

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



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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 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

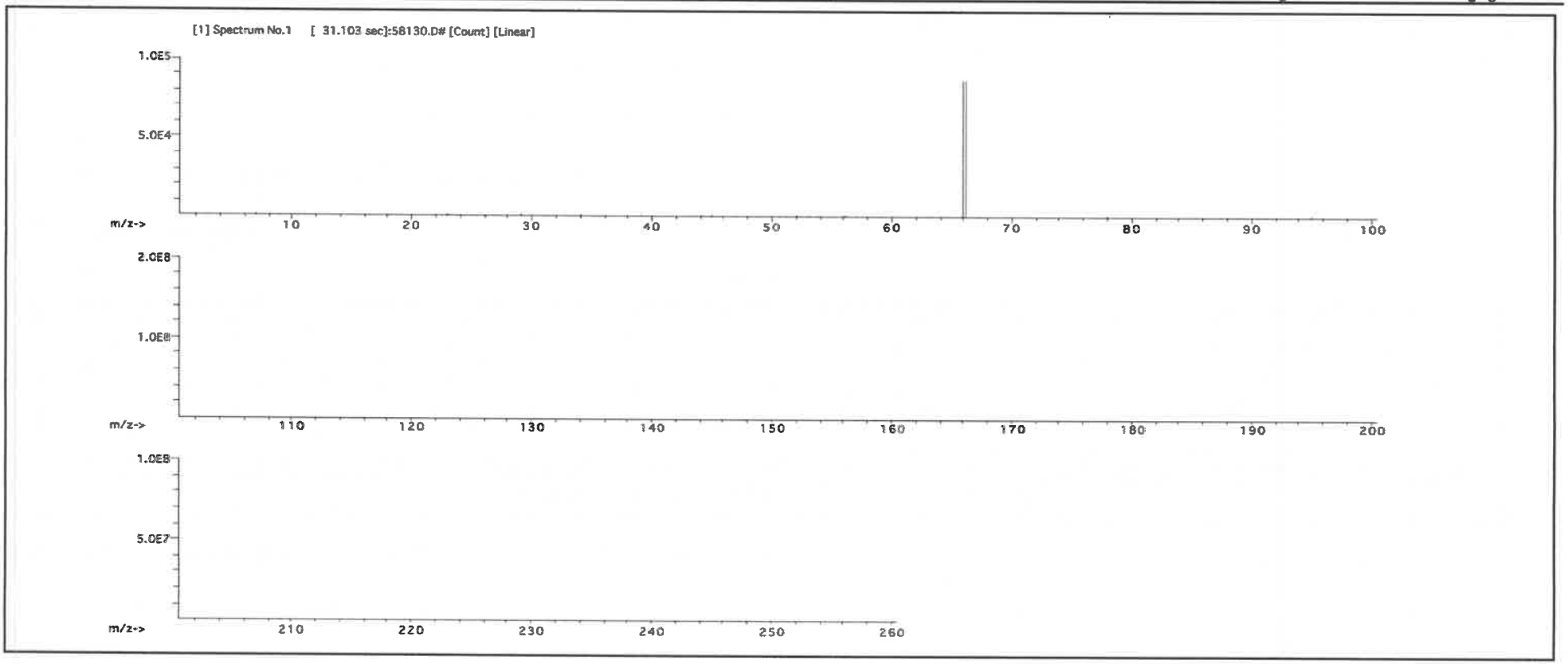
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		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



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:

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R: 02/09/24 M5820

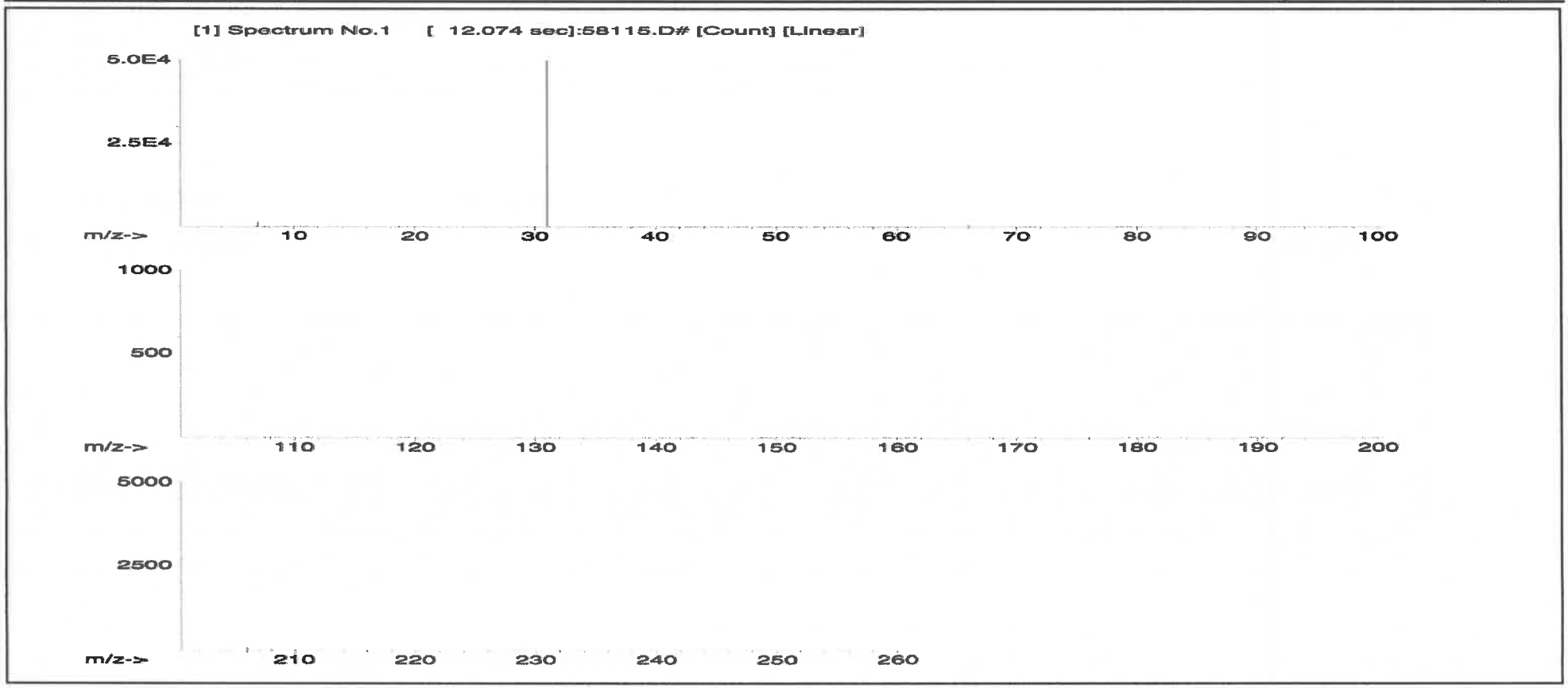
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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:

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QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28 - 37 MB MSS53 MB 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.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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Certificate of Analysis

M5959 R: 6/14/24.

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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.

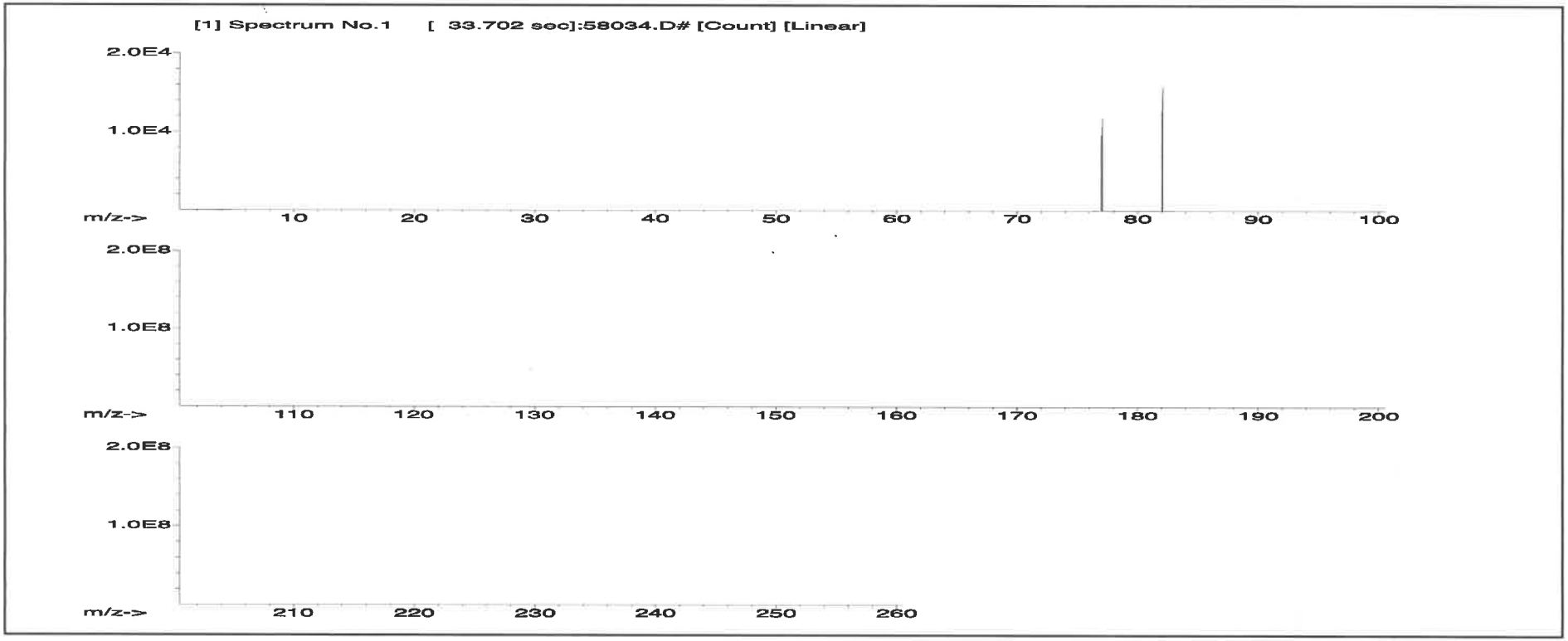
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

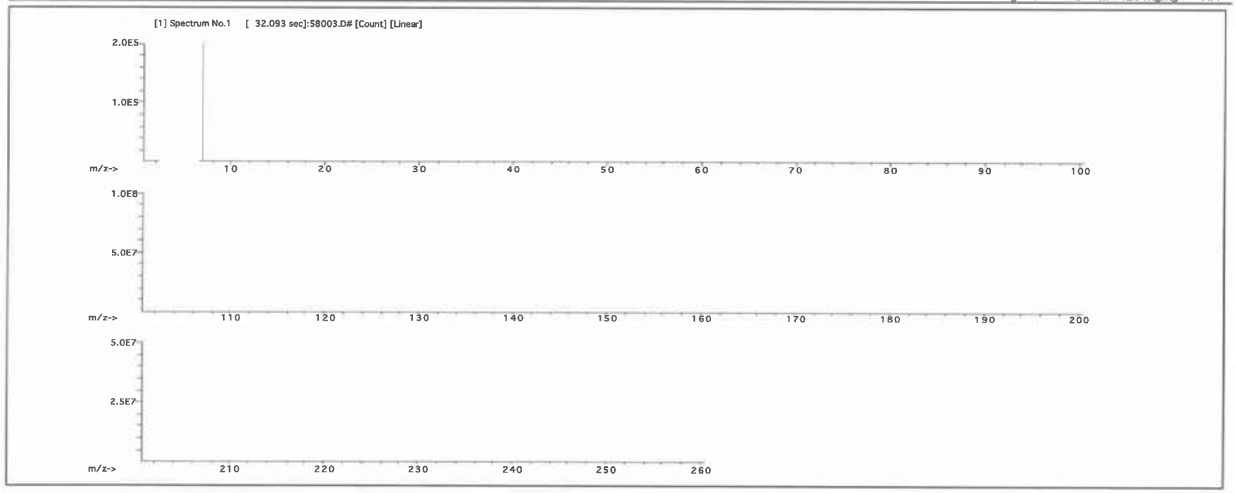
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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M5978, M5979

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

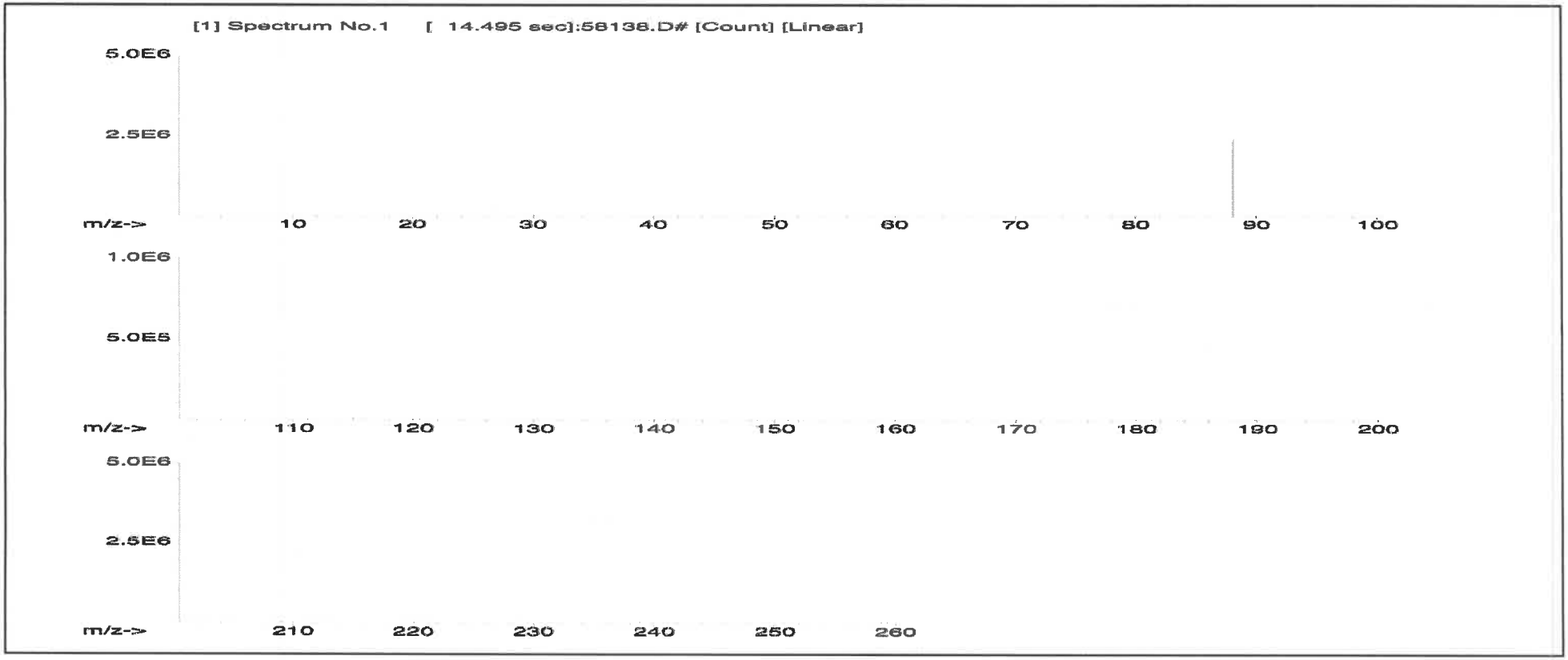
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
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		

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



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).

INORGANIC VENTURES™
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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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:

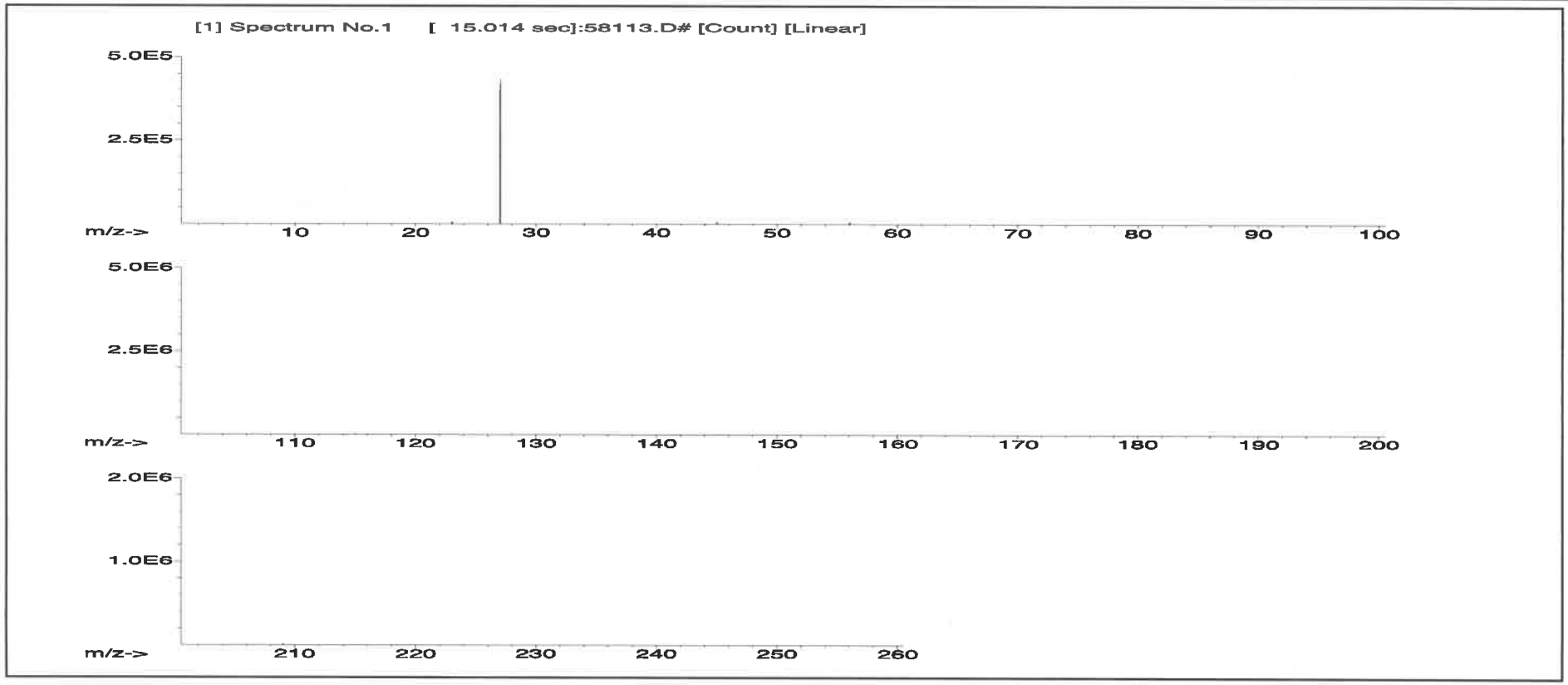
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
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

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

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 ppm
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 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
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	< 0.2 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	< 50 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

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Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

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

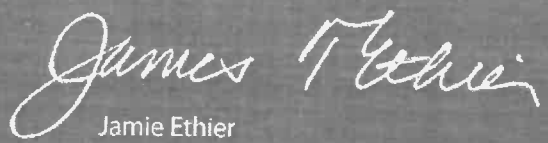
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

Nitric Acid 69%
CMOS

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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

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

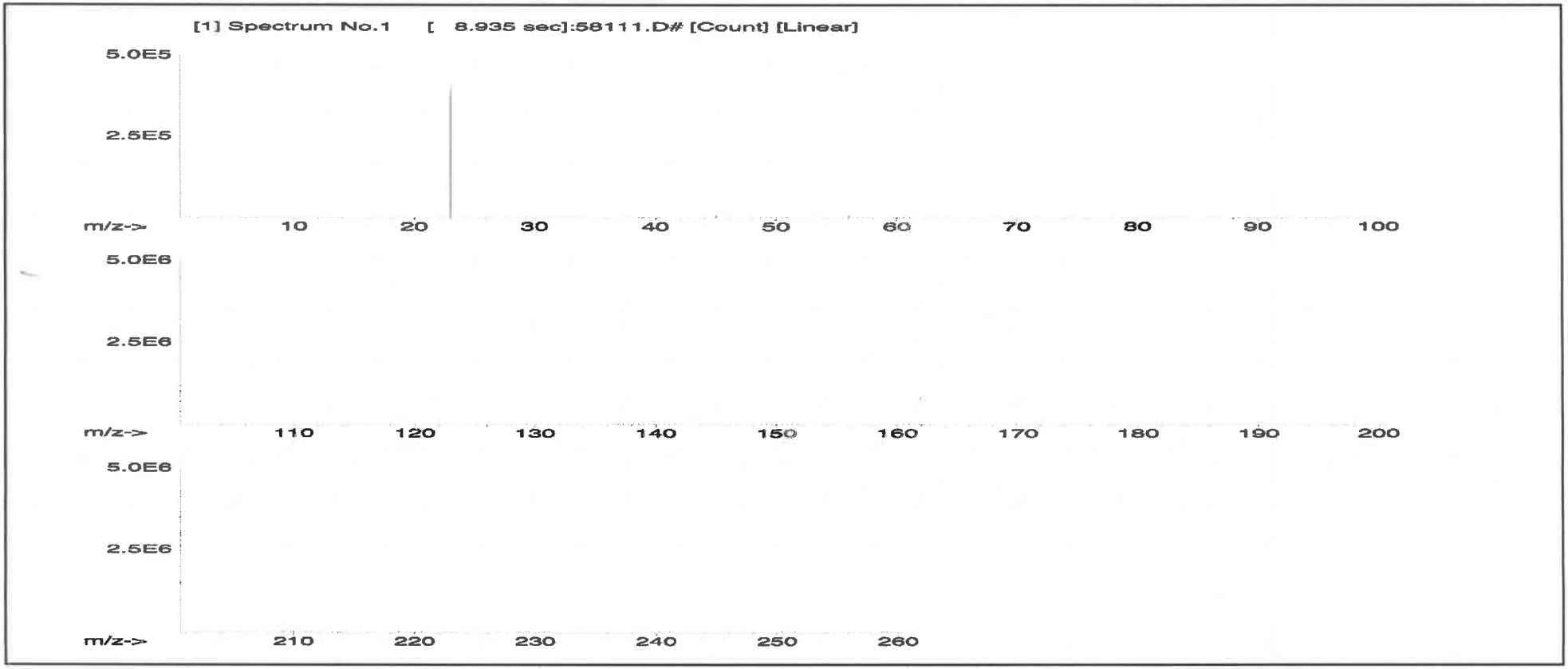
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* 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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AR-1539 Certificate Number
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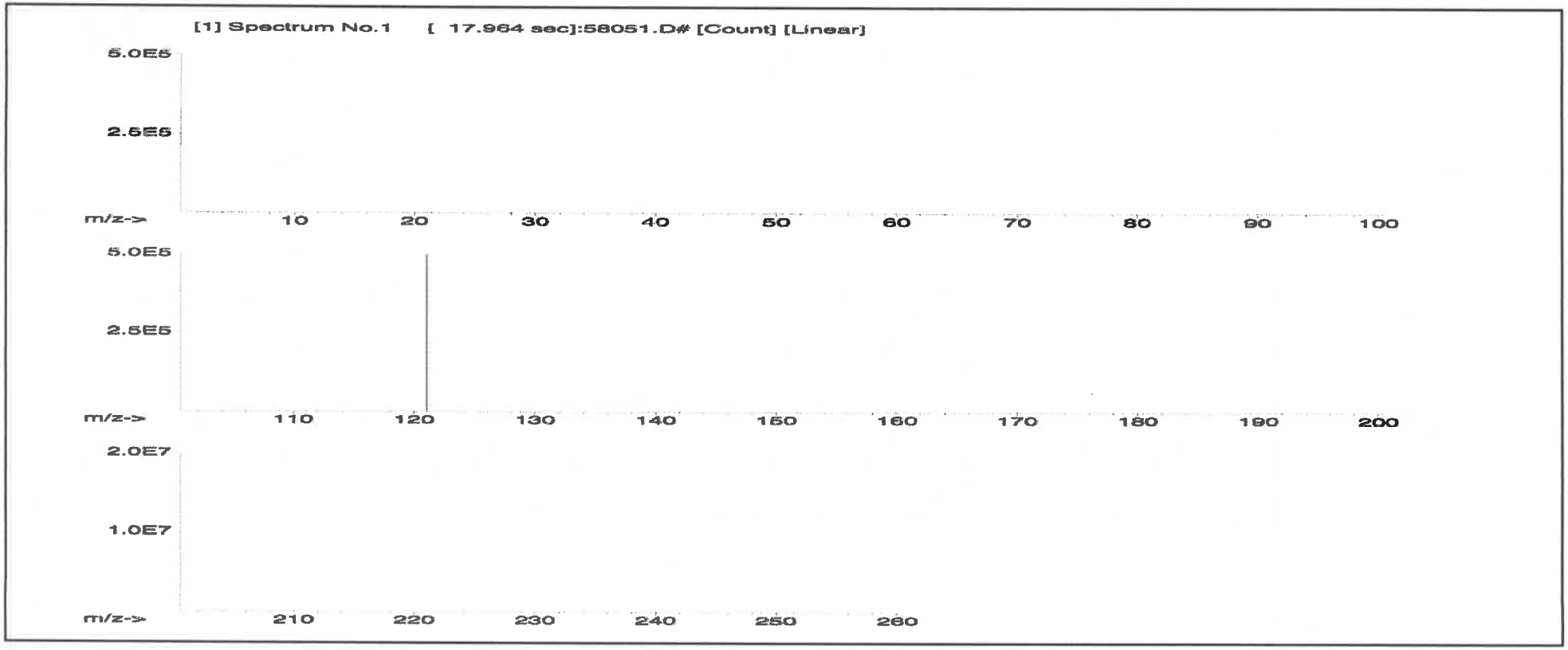
R: 01/03/24 M5802, M5803

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



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

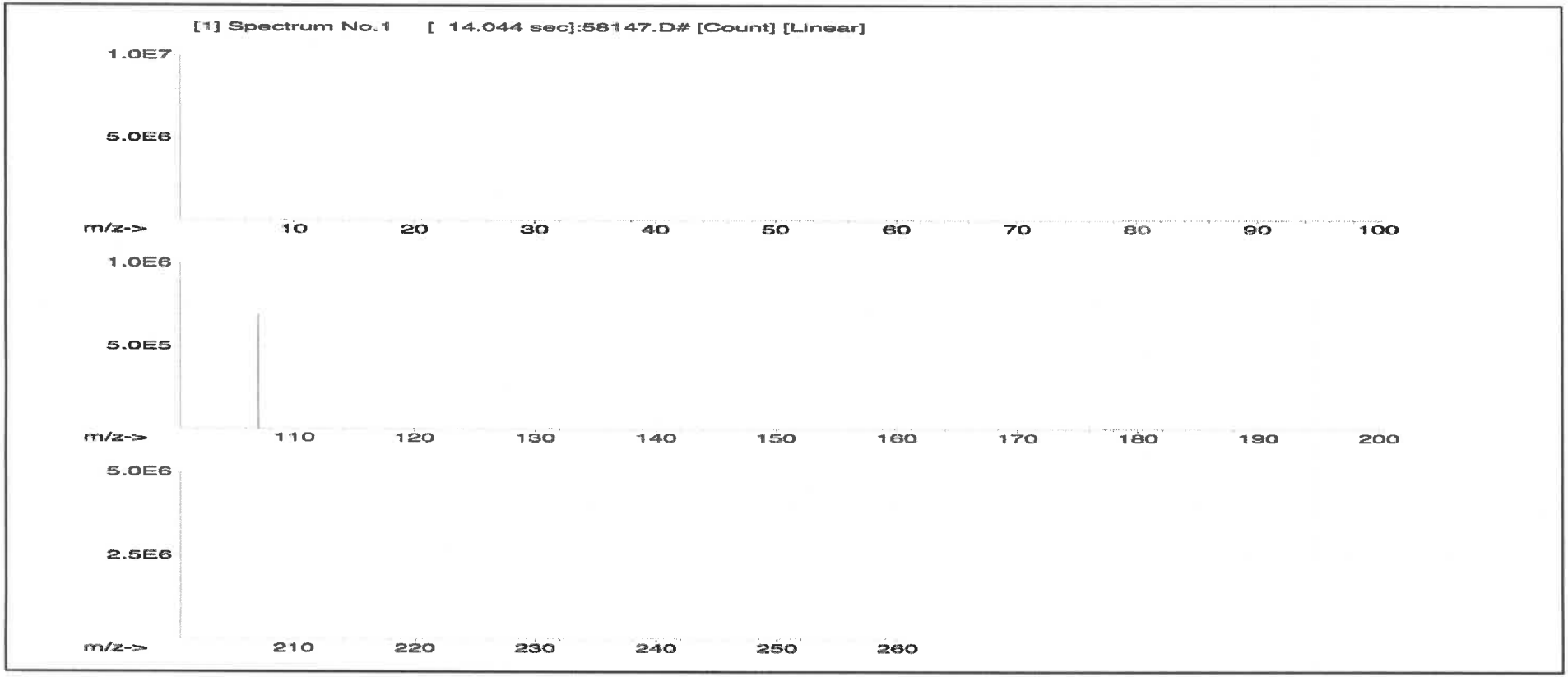
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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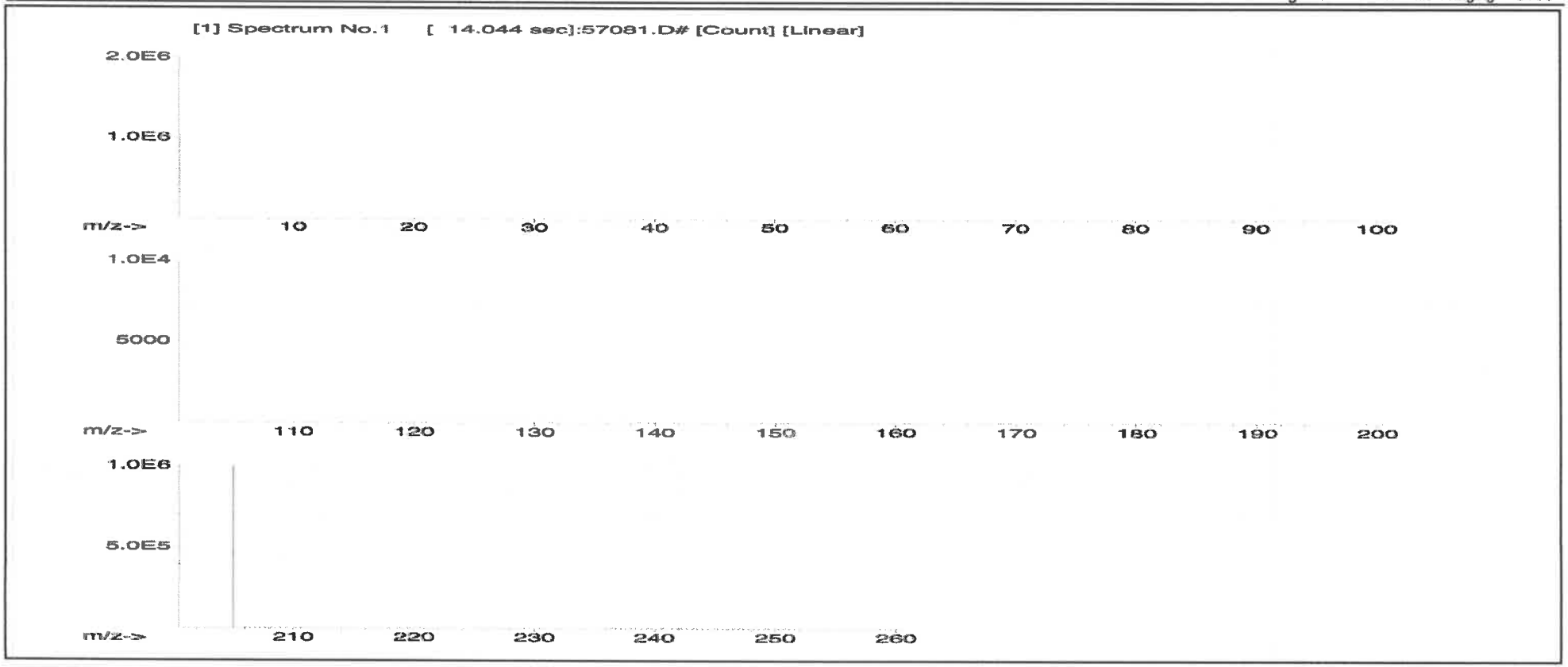
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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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

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Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

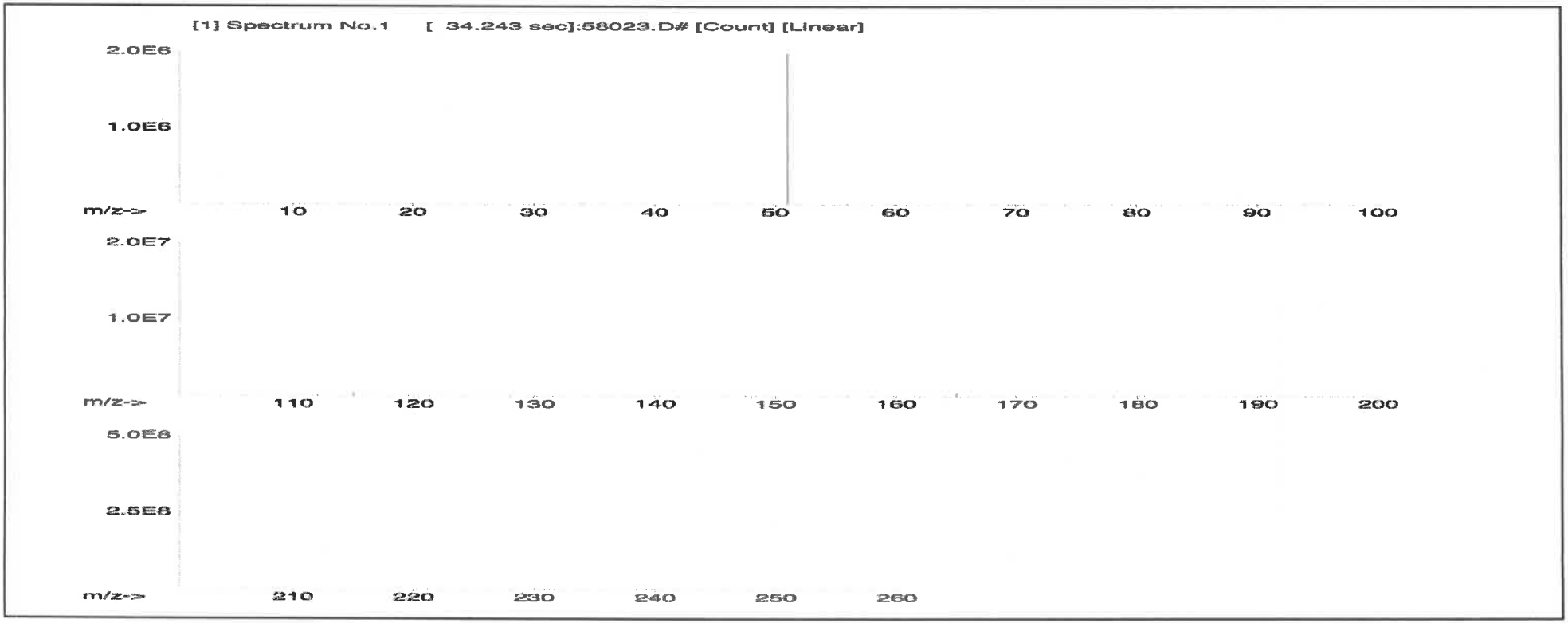
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

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SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5051
QUOTE NO.
COC Number 2042252

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: NYC Dep of Environmental
ADDRESS: 3701 Jerome Ave
CITY Bronx STATE: NY ZIP:
ATTENTION: Nicholas Prokopowicz
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Industrial wastewater Discharge Permit 2024
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 VOCs 2 Metals 3 Cyanide 4 O&G 5 TSS, Met chrom/PH 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A 1	B 2	D 3	C 4	E 5	6	7	8	9	COMMENTS
1.	14B #1	AQ		X	120224	0733	6	X	X	X	X	X					6.61 / 11.44 C
2.	14B #2			X		0833	6	X	X	X	X	X					6.73 / 10.36 C
3.	14B #3			X		0933	6	X	X	X	X	X					6.75 / 11.09 C
4.	14B #4			X		1033	6	X	X	X	X	X					6.7 / 11.96 C
5.	14B #4 MS/MSD			X		1038	2				X						
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1100 12-02-24	1.
2.		2.
3.	1330 12-02-24	3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.4 °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☒ Field Sampling

Shipment Complete ☒ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 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 : P5051 NEWY17
Client Name : New York City DEP of Env
Client Contact : Nicholas Prokopowicz
Invoice Name : New York City DEP of Env
Invoice Contact : Nicholas Prokopowicz

Order Date : 12/2/2024 2:00:00 PM
Project Name : Industrial Wastewater Disch
Receive DateTime : 12/2/2024 1:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5051-01	14B-1	Water	12/02/2024	07:35 07:33	VOCMS Group1		624.1		10 Bus. Days
P5051-02	14B-2	Water	12/02/2024	08:33	VOCMS Group1		624.1		10 Bus. Days
P5051-03	14B-3	Water	12/02/2024	09:33	VOCMS Group1		624.1		10 Bus. Days
P5051-04	14B-4	Water	12/02/2024	10:33	VOCMS Group1		624.1		10 Bus. Days

Relinguished By : JM
Date / Time : 12-02-24 1435

Received By : Sam
Date / Time : 12/02/24 14:35 Mgt 5

Storage Area : **VOA Refridgerator Room**