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

DATA PACKAGE

METALS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3657

ATTENTION : Mary I. Murphy

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

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Cover Page

Order ID : P3657

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3657-01	917-J-WS-081624
P3657-02	TB-01-081624

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: 10/28/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger Site Princeton NJ
Project # N/A
Chemtech Project # P3457
Test Name: Metals Group5

A. Number of Samples and Date of Receipt:
3 Water samples were received on 08/02/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, Metals Group5, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Metals Group5.

C. Analytical Techniques:
The analysis and digestion of Metals Group5 was based on method 200.7.

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

E. Additional Comments:
This Data Package has been revised due to Metals Group5 test added as per Client Request.

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

Signature_____

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

QA Control # A3040961

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3457 MATRIX: Water

METHOD: 200.7

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

ADDITIONAL COMMENTS:

This Data Package has been revised due to Metals Group5 test added as per Client Request.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3657

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

QA Review Signature: SOHIL JODHANI **Date:** 10/28/2024

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LAB CHRONICLE

OrderID:	P3657	**OrderDate:**	8/16/2024 2:45:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	G11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3657-01	**917-J-WS-081624**	**Water**			**08/16/24**			**08/16/24**
			Mercury	7470A		08/21/24	08/22/24	
			Metals Group4	6020B		09/04/24	09/04/24	
			Metals Group5	200.7		10/24/24	10/24/24	

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Hit Summary Sheet
SW-846

SDG No.:	P3657	**Order ID:**	P3657
Client:	JACOBS Engineering Group, Inc.	**Project ID:**	Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 917-J-WS-081624								
P3657-01	917-J-WS-081624	Water	Dissolved Silica	3890		64.0	428	ug/L

SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/16/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/16/24
Client Sample ID:	917-J-WS-081624	SDG No.:	P3657
Lab Sample ID:	P3657-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
Dissolved Silica	Dissolved Silica	3890		1	64.0	428	ug/L	10/24/24 11:45	10/24/24 22:43	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group5				

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

METAL QC DATA

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

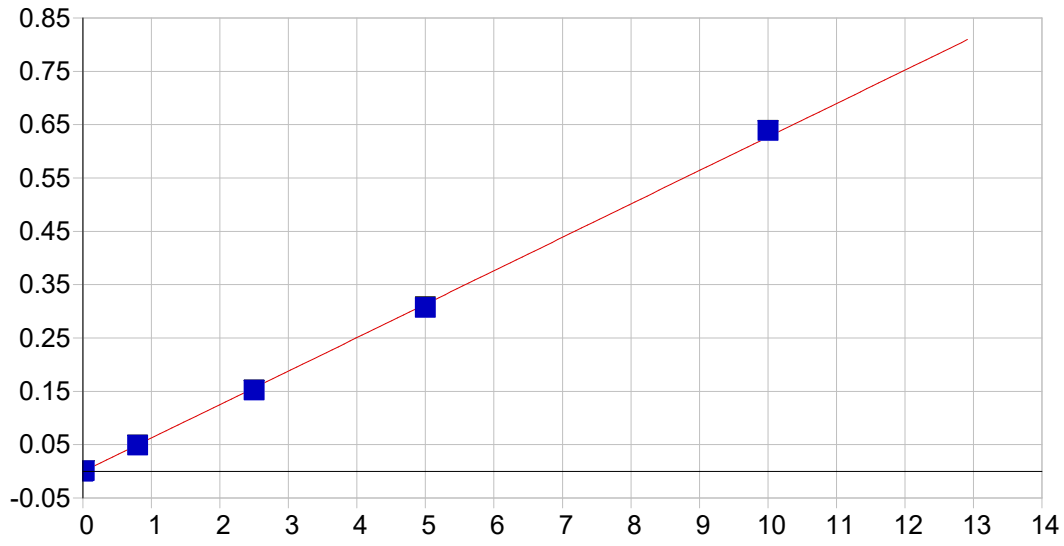
Client: JACOBS Engineering Group, Inc. **SDG No.:** P3657

Contract: JACO05 **Lab Code:** CHEM **Method:**

Case No.: P3657 **SAS No.:** P3657

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164372**						
P3645-01DUP	914-J-WS-081524DUP	DUP	WATER	10/24/2024	50.0	25.0	
P3645-01MS	914-J-WS-081524MS	MS	WATER	10/24/2024	50.0	25.0	
P3645-01MSD	914-J-WS-081524MSD	MSD	WATER	10/24/2024	50.0	25.0	
P3657-01	917-J-WS-081624	SAM	WATER	10/24/2024	50.0	25.0	
PB164372BL	PB164372BL	MB	WATER	10/24/2024	50.0	25.0	
PB164372BS	PB164372BS	LCS	WATER	10/24/2024	50.0	25.0	

METAL
RAW DATA

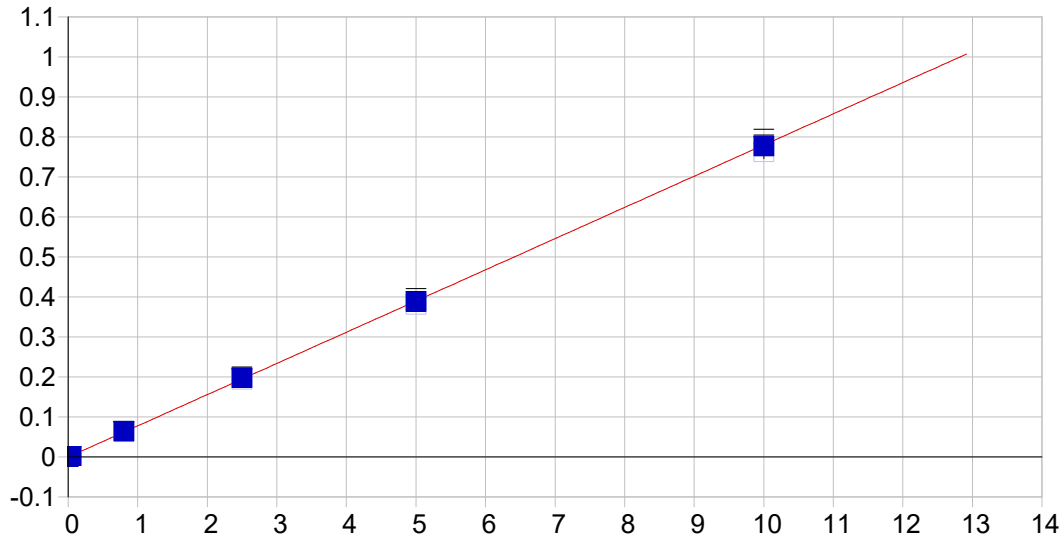


As 189.042 {479}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000229	Re-Slope:	1.000000
A1 (Gain):	0.062715	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002191		
Predicted MQL:	0.007303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00023	.000	1
S1	.02000	.01783	-.002	-10.8	.00088	.000	1
S3	2.5000	2.4268	-.073	-2.93	.15180	.001	1
S4	5.0000	4.9027	-.097	-1.95	.30691	.001	1
S5	10.000	10.192	.192	1.92	.63829	.000	1
S2	.80000	.78049	-.020	-2.44	.04866	.000	1

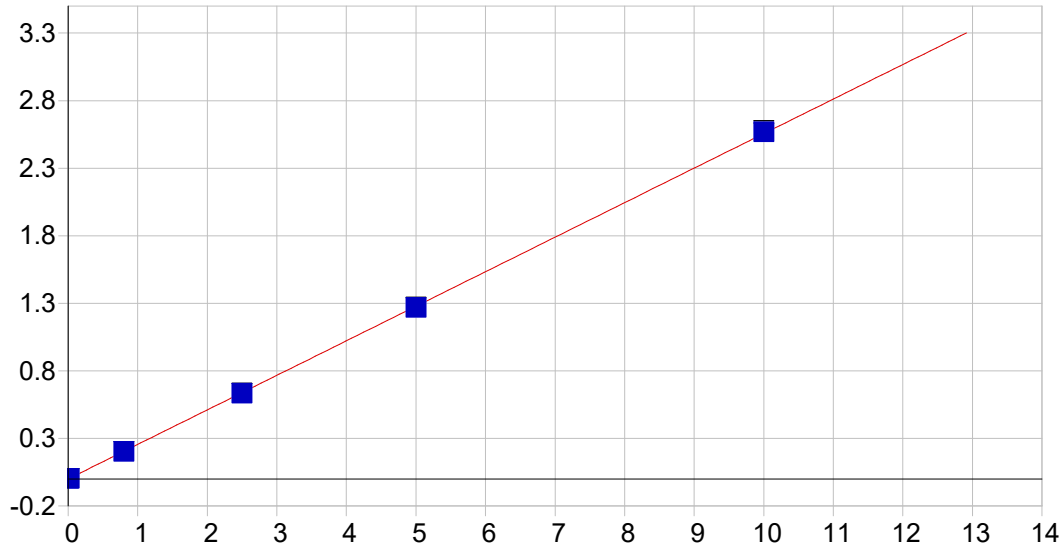


Tl 190.856 {477}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000300	Re-Slope:	1.000000
A1 (Gain):	0.078003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.001557		
Predicted MQL:	0.005189		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00030	.000	1
S1	.04000	.03784	-.002	-5.40	.00245	.000	1
S3	2.5000	2.5364	.036	1.46	.19396	.002	1
S4	5.0000	4.9794	-.021	-.412	.38092	.008	1
S5	10.000	9.9660	-.034	-.340	.76271	.017	1
S2	.80000	.82017	.020	2.52	.06253	.000	1

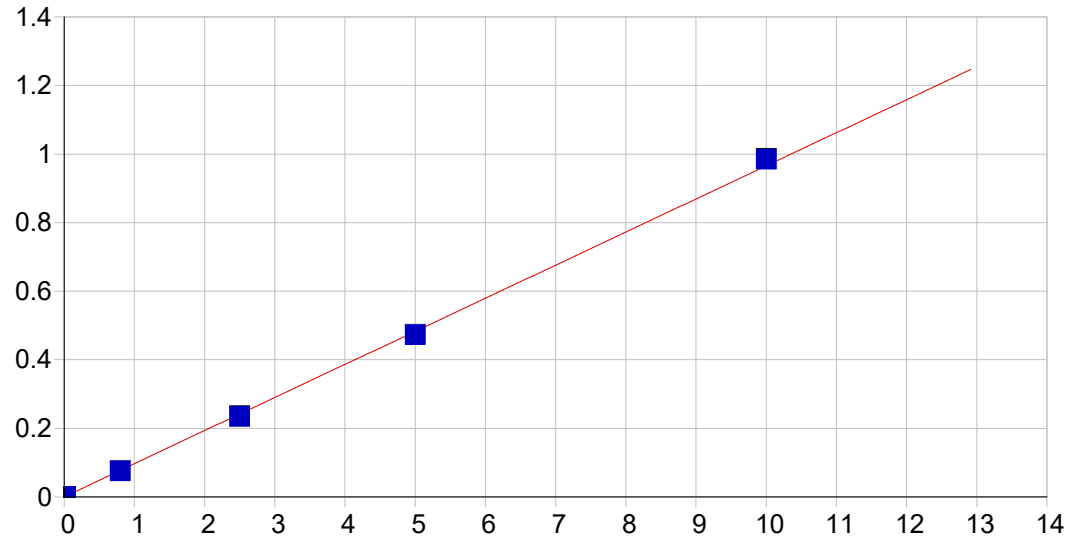


Pb 220.353 {453}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000254	Re-Slope:	1.000000
A1 (Gain):	0.255630	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.000988		
Predicted MQL:	0.003295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00025	.000	1
S1	.01200	.01181	-.000	-1.62	.00270	.000	1
S3	2.5000	2.4820	-.018	-.722	.63350	.000	1
S4	5.0000	4.9671	-.033	-.659	1.2681	.002	1
S5	10.000	10.053	.053	.532	2.5668	.010	1
S2	.80000	.79803	-.002	-.246	.20352	.000	1

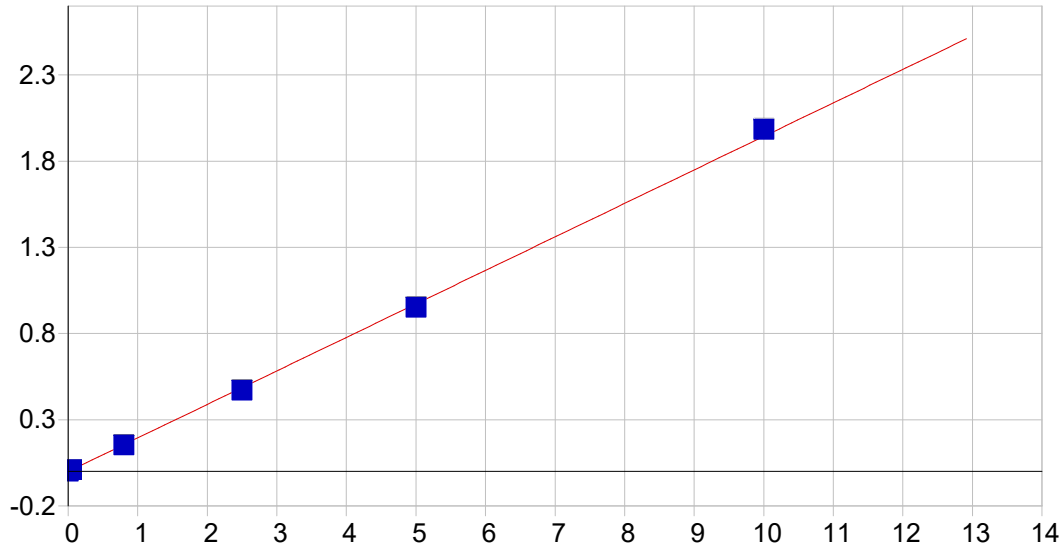


Se 196.090 {472}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000465	Re-Slope:	1.000000
A1 (Gain):	0.096500	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999750	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.001916		
Predicted MQL:	0.006387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00047	.000	1
S1	.02000	.01808	-.002	-9.59	.00221	.000	1
S3	2.5000	2.4247	-.075	-3.01	.23439	.001	1
S4	5.0000	4.8979	-.102	-2.04	.47299	.001	1
S5	10.000	10.201	.201	2.01	.98460	.002	1
S2	.80000	.77852	-.021	-2.68	.07557	.000	1

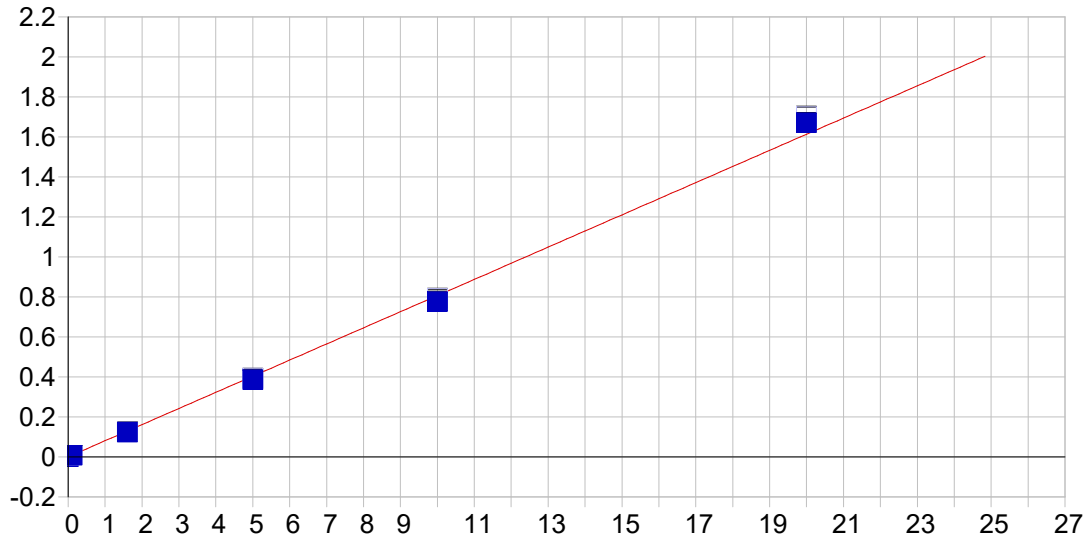


Sb 206.833 {463}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000143	Re-Slope:	1.000000
A1 (Gain):	0.194368	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.000162		
Predicted MDL:	0.001160		
Predicted MQL:	0.003867		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00014	.000	1
S1	.05000	.05012	.000	.241	.00991	.000	1
S3	2.5000	2.4206	-.079	-3.18	.47195	.000	1
S4	5.0000	4.8947	-.105	-2.11	.95416	.001	1
S5	10.000	10.203	.203	2.03	1.9886	.003	1
S2	.80000	.78117	-.019	-2.35	.15240	.000	1

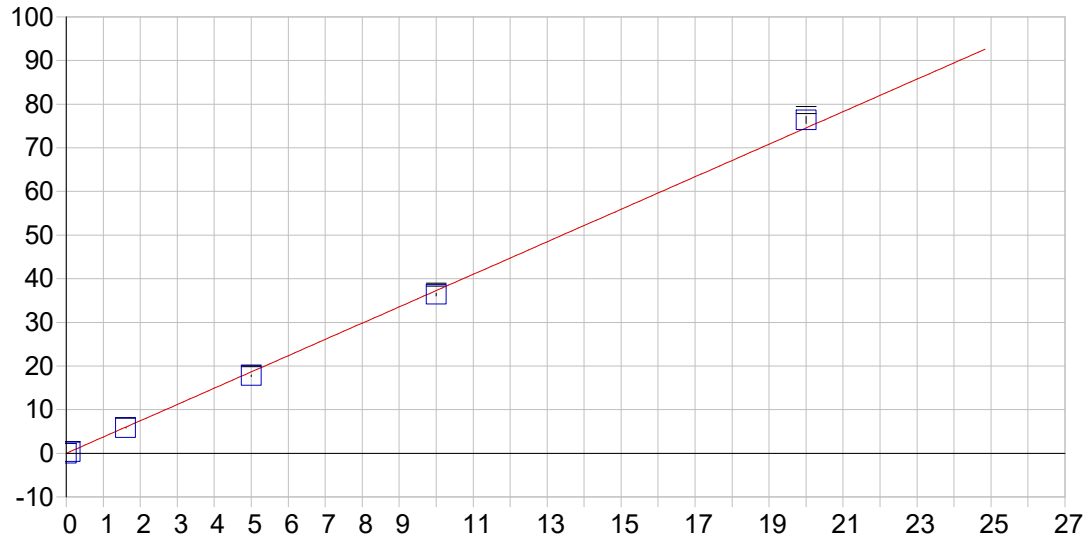


Al 396.152 { 85}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000403	Re-Slope:	1.000000
A1 (Gain):	0.080646	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999287	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	0.005407		
Predicted MQL:	0.018023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00040	.000	1
S1	.10000	.09616	-.004	-3.84	.00878	.000	1
S3	5.0000	4.7709	-.229	-4.58	.39298	.001	1
S4	10.000	9.6162	-.384	-3.84	.79156	.003	1
S5	20.000	20.702	.702	3.51	1.7012	.002	1
S2	1.6000	1.5152	-.085	-5.30	.12510	.000	1

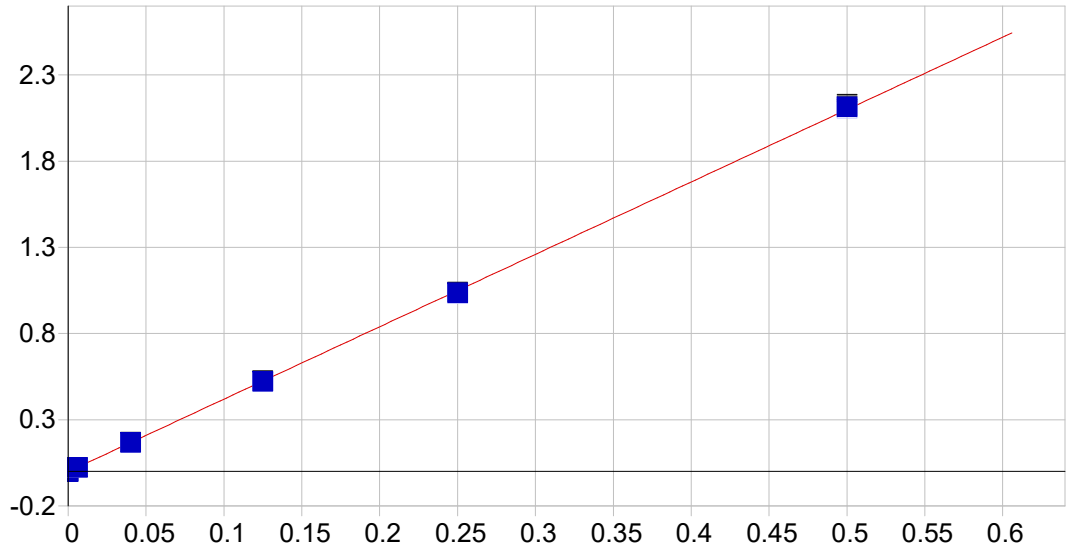


Ba 493.409 { 68}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002401	Re-Slope:	1.000000
A1 (Gain):	3.727942	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999603	Status:	OK.
Std Error of Est:	0.007795		
Predicted MDL:	0.000394		
Predicted MQL:	0.001315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00238	.001	1
S1	.10000	.10163	.002	1.63	.37646	.001	1
S3	5.0000	4.7677	-.232	-4.65	17.771	.167	1
S4	10.000	9.7648	-.235	-2.35	36.400	.346	1
S5	20.000	20.496	.496	2.48	76.404	.816	1
S2	1.6000	1.5704	-.030	-1.85	5.8519	.020	1

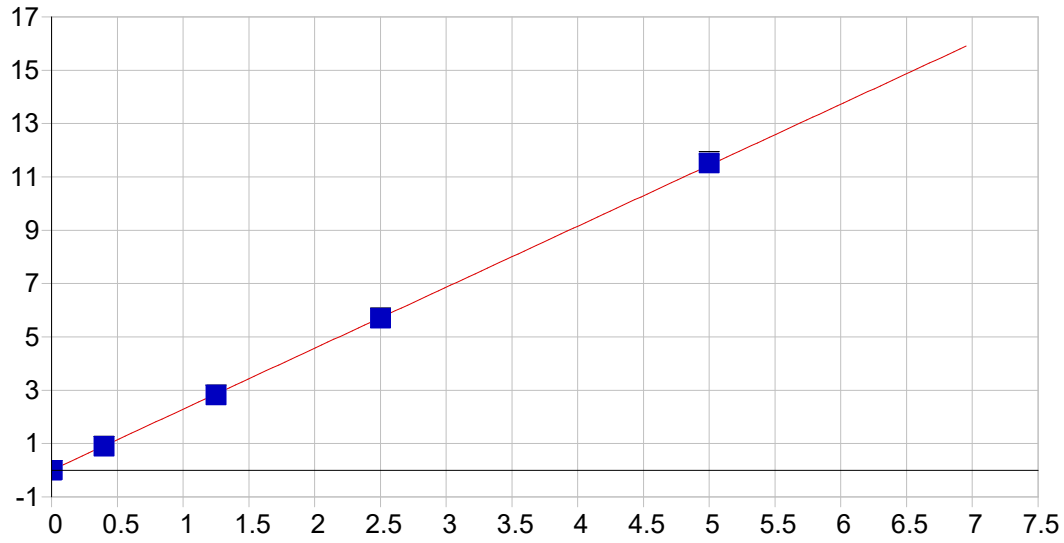


Be 234.861 {144}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000829	Re-Slope:	1.000000
A1 (Gain):	4.200705	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000113		
Predicted MDL:	0.000053		
Predicted MQL:	0.000178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00083	.000	1
S1	.00600	.00581	-.000	-3.09	.02341	.000	1
S3	.12500	.12444	-.001	-.444	.51957	.004	1
S4	.25000	.24676	-.003	-1.30	1.0310	.004	1
S5	.50000	.50381	.004	.762	2.1061	.015	1
S2	.04000	.04017	.000	.433	.16717	.001	1

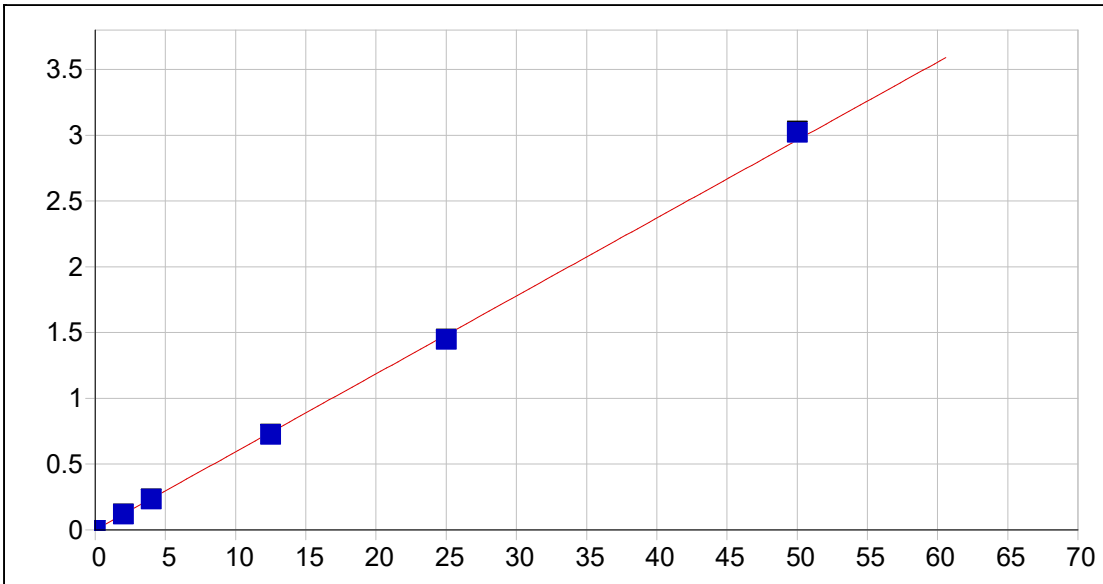


Cd 226.502 {449}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000343	Re-Slope:	1.000000
A1 (Gain):	2.287754	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000164		
Predicted MDL:	0.000083		
Predicted MQL:	0.000277		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00034	.000	1
S1	.00600	.00575	-.000	-4.22	.01285	.000	1
S3	1.2500	1.2332	-.017	-1.35	2.8228	.002	1
S4	2.5000	2.4911	-.009	-.356	5.7026	.012	1
S5	5.0000	5.0322	.032	.644	11.520	.059	1
S2	.40000	.39380	-.006	-1.55	.90120	.001	1

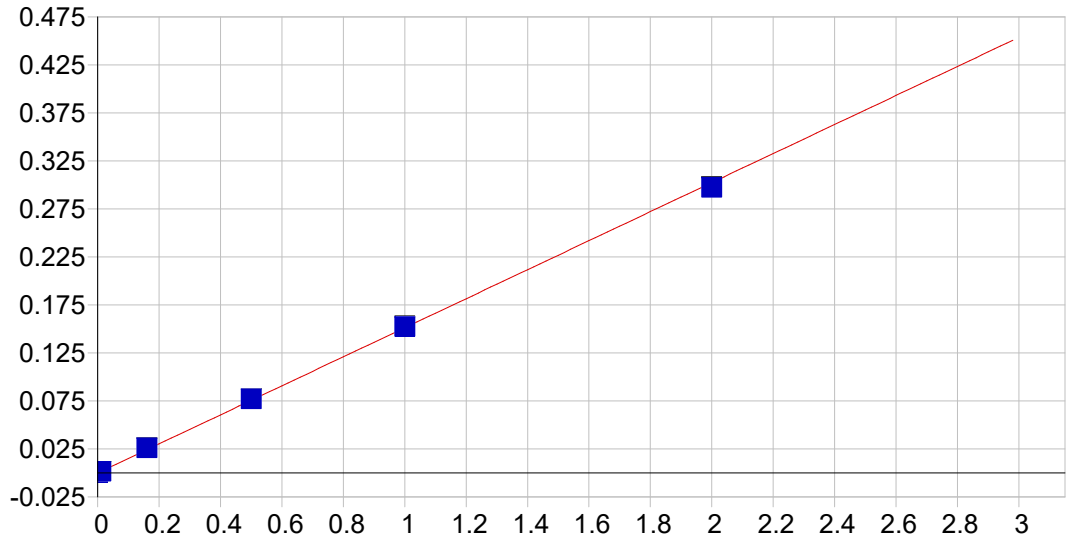


Ca 373.690 { 90}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001123	Re-Slope:	1.000000
A1 (Gain):	0.059250	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999771	Status:	OK.
Std Error of Est:	0.000671		
Predicted MDL:	0.007148		
Predicted MQL:	0.023828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00113	.000	1
S2	4.0000	3.9193	-.081	-2.02	.23334	.001	1
S3	12.500	12.205	-.295	-2.36	.72426	.004	1
S4	25.000	24.393	-.607	-2.43	1.4464	.004	1
S5	50.000	50.988	.988	1.98	3.0222	.008	1
S1	2.0000	1.9944	-.006	-.282	.11929	.001	1

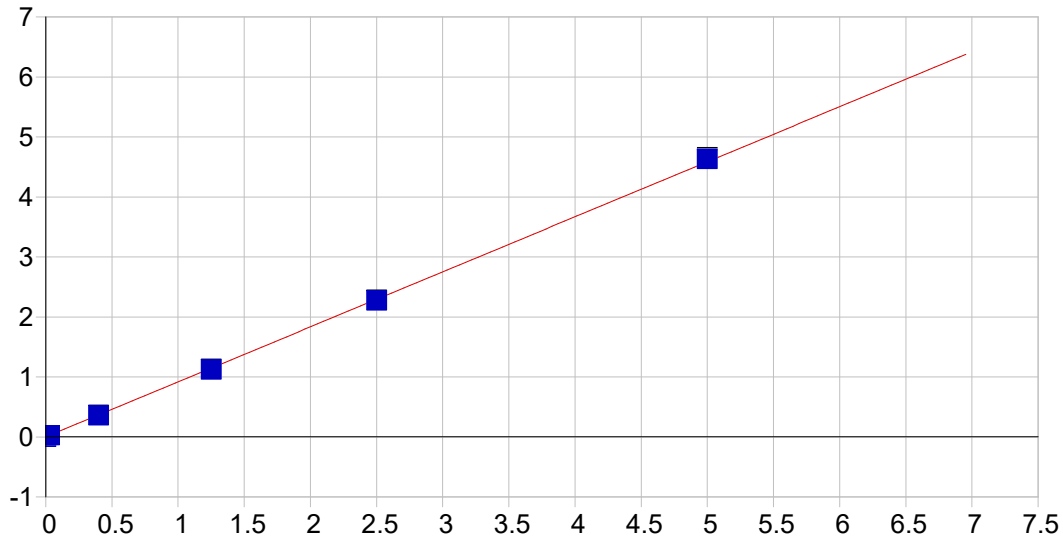


Cr 267.716 {126}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000061	Re-Slope:	1.000000
A1 (Gain):	0.151245	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.000450		
Predicted MQL:	0.001500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.01000	.01102	.001	10.2	.00161	.000	1
S3	.50000	.51056	.011	2.11	.07718	.000	1
S4	1.0000	1.0086	.009	.865	.15254	.000	1
S5	2.0000	1.9673	-.033	-1.63	.29758	.001	1
S2	.16000	.17246	.012	7.79	.02603	.000	1

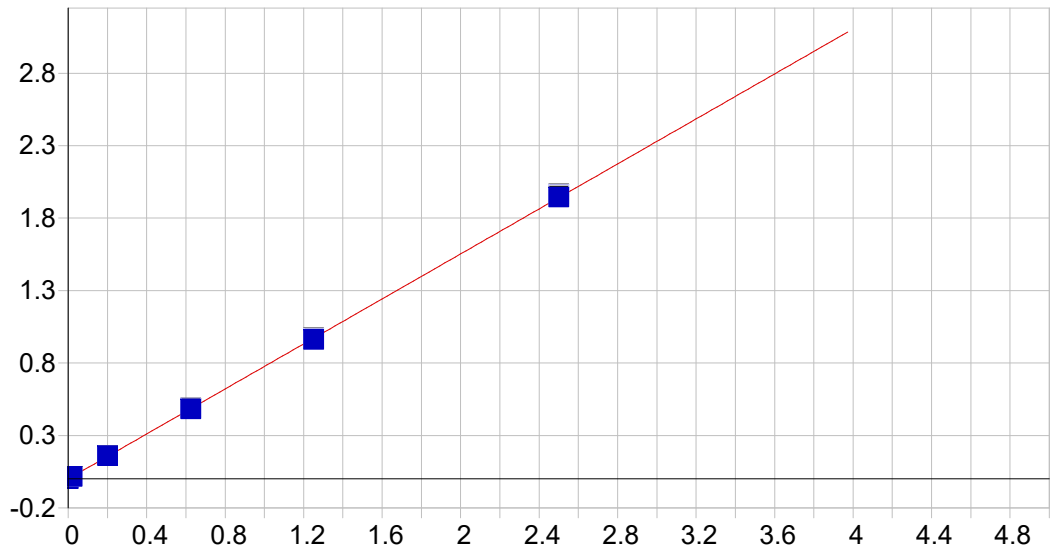


Co 228.616 {448}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000137	Re-Slope:	1.000000
A1 (Gain):	0.917142	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000214		
Predicted MDL:	0.000189		
Predicted MQL:	0.000631		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00014	.000	1
S1	.03000	.03012	.000	.406	.02737	.000	1
S3	1.2500	1.2270	-.023	-1.84	1.1271	.001	1
S4	2.5000	2.4780	-.022	-.878	2.2765	.005	1
S5	5.0000	5.0505	.051	1.01	4.6397	.018	1
S2	.40000	.39431	-.006	-1.42	.36212	.000	1

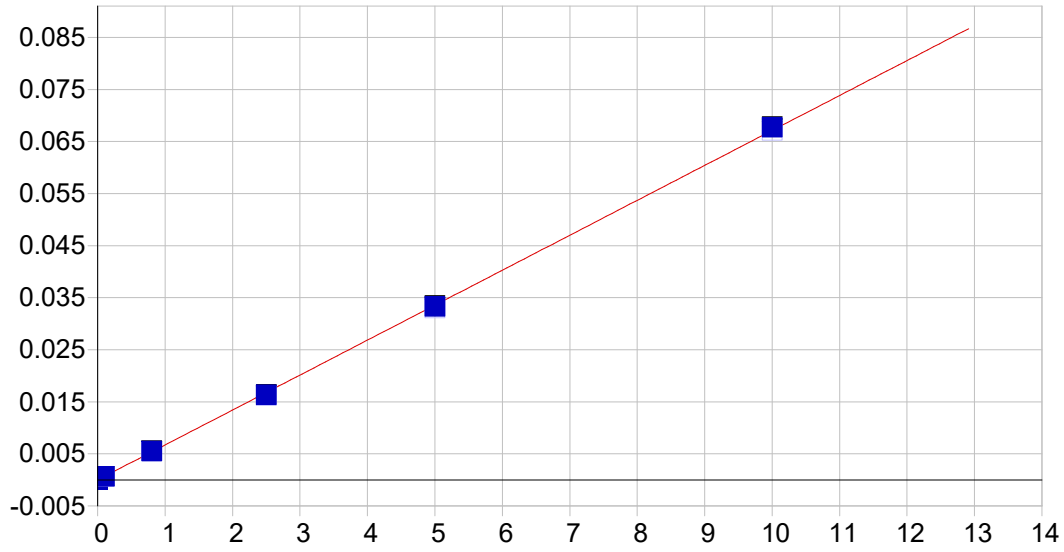


Cu 224.700 {450}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	0.776499	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.000377		
Predicted MQL:	0.001256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00011	.000	1
S1	.02000	.02201	.002	10.1	.01719	.000	1
S3	.62500	.62292	-.002	-.334	.48821	.000	1
S4	1.2500	1.2394	-.011	-.848	.97154	.000	1
S5	2.5000	2.5058	.006	.231	1.9641	.002	1
S2	.20000	.20488	.005	2.44	.16046	.000	1

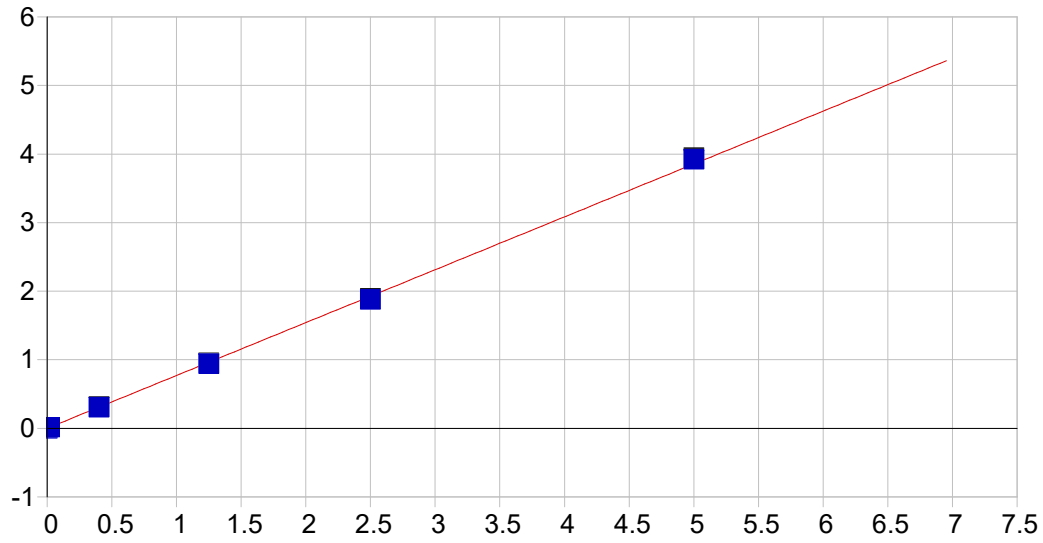


Fe 240.488 {140}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.006714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.003788		
Predicted MQL:	0.012625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.10000	.10076	.001	.759	.00066	.000	1
S3	2.5000	2.4317	-.068	-2.73	.01617	.000	1
S4	5.0000	4.9574	-.043	-.852	.03299	.000	1
S5	10.000	10.084	.084	.842	.06712	.000	1
S2	.80000	.82595	.026	3.24	.00549	.000	1

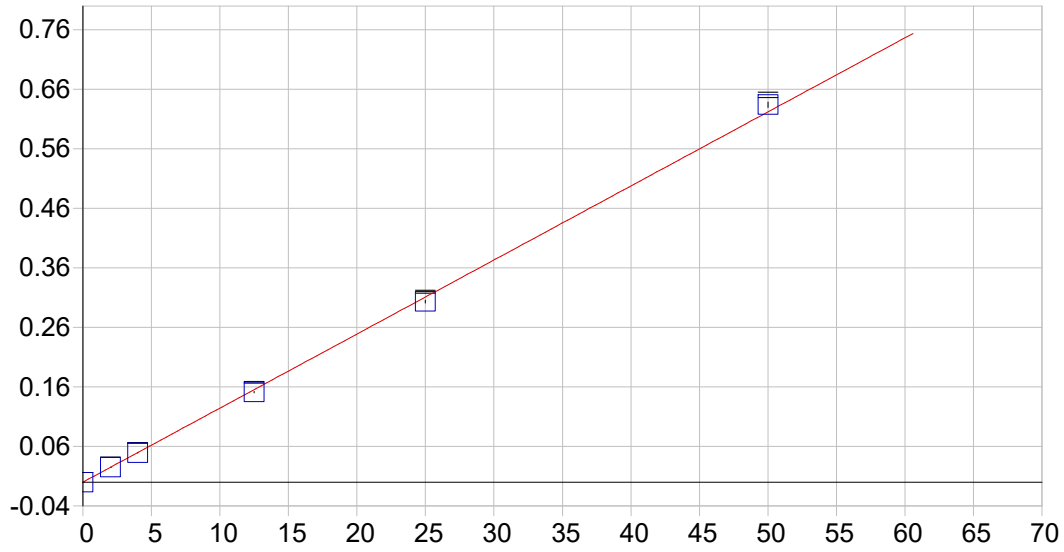


Mn 257.610 {131}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000093	Re-Slope:	1.000000
A1 (Gain):	0.771001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000258		
Predicted MDL:	0.000241		
Predicted MQL:	0.000803		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.02000	.02027	.000	1.37	.01554	.000	1
S3	1.2500	1.2236	-.026	-2.11	.94351	.007	1
S4	2.5000	2.4369	-.063	-2.52	1.8792	.010	1
S5	5.0000	5.0888	.089	1.78	3.9241	.017	1
S2	.40000	.40041	.000	.101	.30868	.001	1

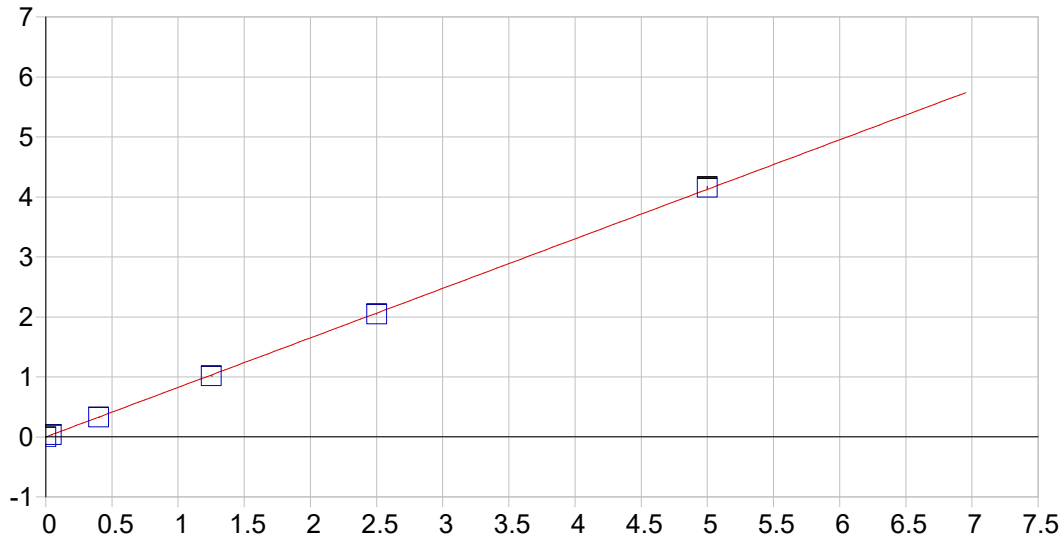


Mg 279.079 {121}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000125	Re-Slope:	1.000000
A1 (Gain):	0.012445	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999768	Status:	OK.
Std Error of Est:	0.000142		
Predicted MDL:	0.013736		
Predicted MQL:	0.045785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	-.00012	.000	1
S2	4.0000	3.9545	-.046	-1.14	.04909	.000	1
S3	12.500	12.169	-.331	-2.65	.15132	.001	1
S4	25.000	24.387	-.613	-2.45	.30338	.003	1
S5	50.000	50.971	.971	1.94	.63423	.005	1
S1	2.0000	2.0188	.019	.940	.02500	.000	1

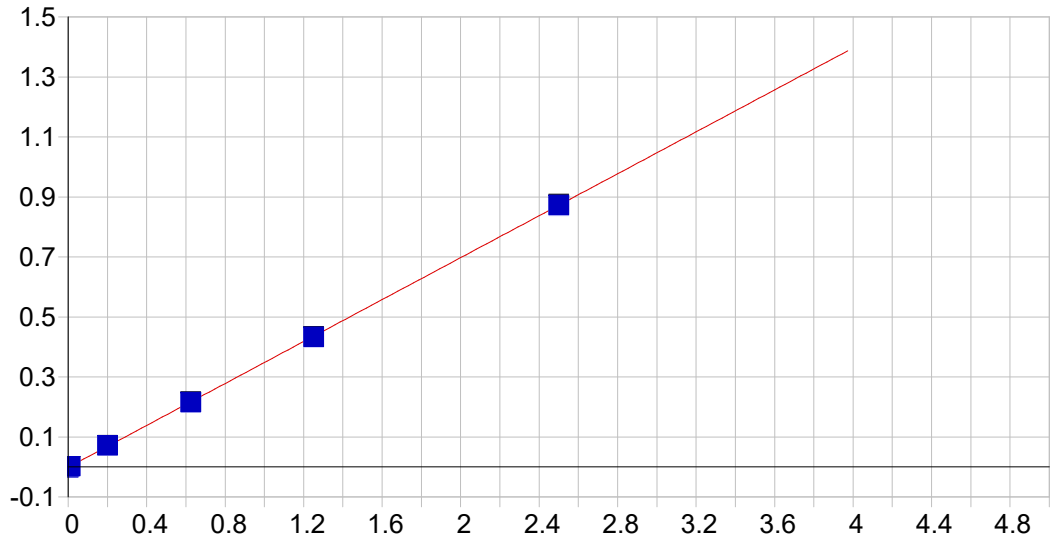


Ni 231.604 {446}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000209	Re-Slope:	1.000000
A1 (Gain):	0.825255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000166		
Predicted MDL:	0.000255		
Predicted MQL:	0.000848		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00021	.000	1
S1	.04000	.03951	-.000	-1.23	.03240	.000	1
S3	1.2500	1.2327	-.017	-1.38	1.0171	.001	1
S4	2.5000	2.4817	-.018	-.734	2.0478	.004	1
S5	5.0000	5.0378	.038	.757	4.1573	.017	1
S2	.40000	.39827	-.002	-.434	.32846	.000	1

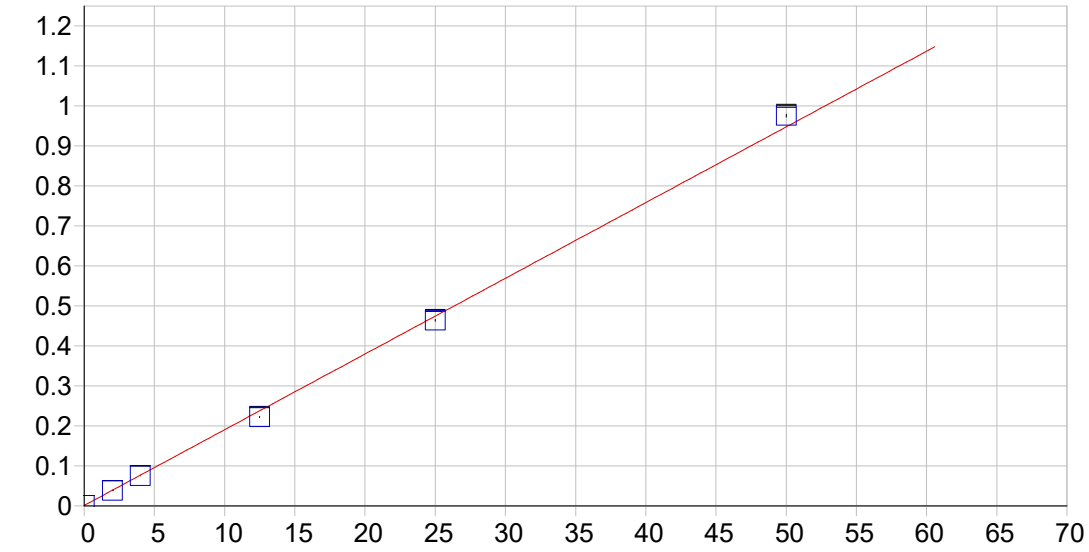


Ag 328.068 {103}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001500	Re-Slope:	1.000000
A1 (Gain):	0.349488	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.000309		
Predicted MQL:	0.001029		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00150	.000	1
S1	.01000	.01062	.001	6.19	.00219	.000	1
S3	.62500	.62015	-.005	-.776	.21437	.001	1
S4	1.2500	1.2429	-.007	-.566	.43115	.001	1
S5	2.5000	2.5027	.003	.106	.86968	.003	1
S2	.20000	.20864	.009	4.32	.07114	.000	1

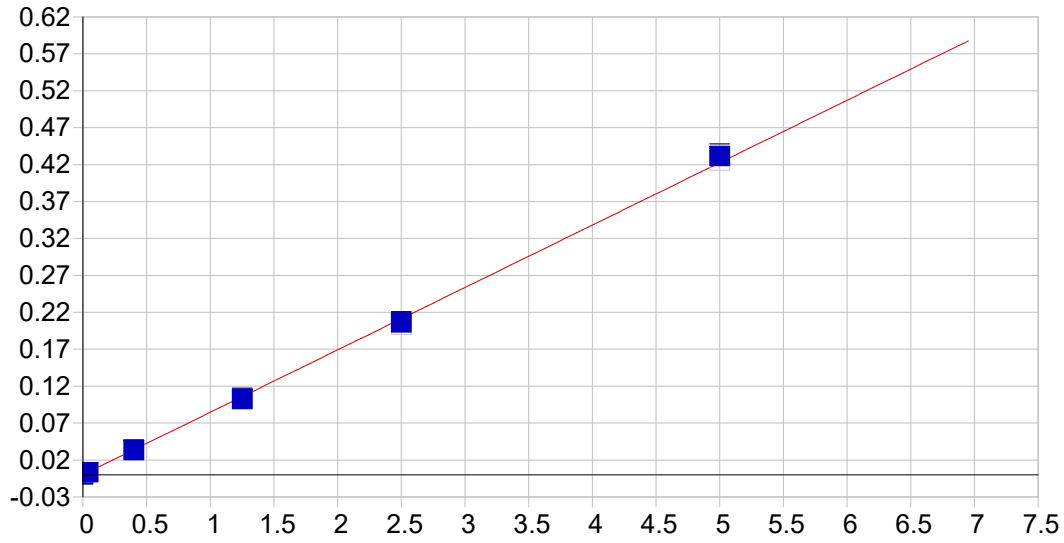


Na 589.592 { 57}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001251	Re-Slope:	1.000000
A1 (Gain):	0.018931	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999404	Status:	OK.
Std Error of Est:	0.000346		
Predicted MDL:	0.008250		
Predicted MQL:	0.027499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00021	.000	.000	.00125	.000	1
S2	4.0000	3.9112	-.089	-2.22	.07529	.000	1
S3	12.500	11.696	-.804	-6.43	.22267	.002	1
S4	25.000	24.452	-.548	-2.19	.46414	.003	1
S5	50.000	51.492	1.49	2.98	.97604	.003	1
S1	2.0000	1.9491	-.051	-2.55	.03815	.000	1

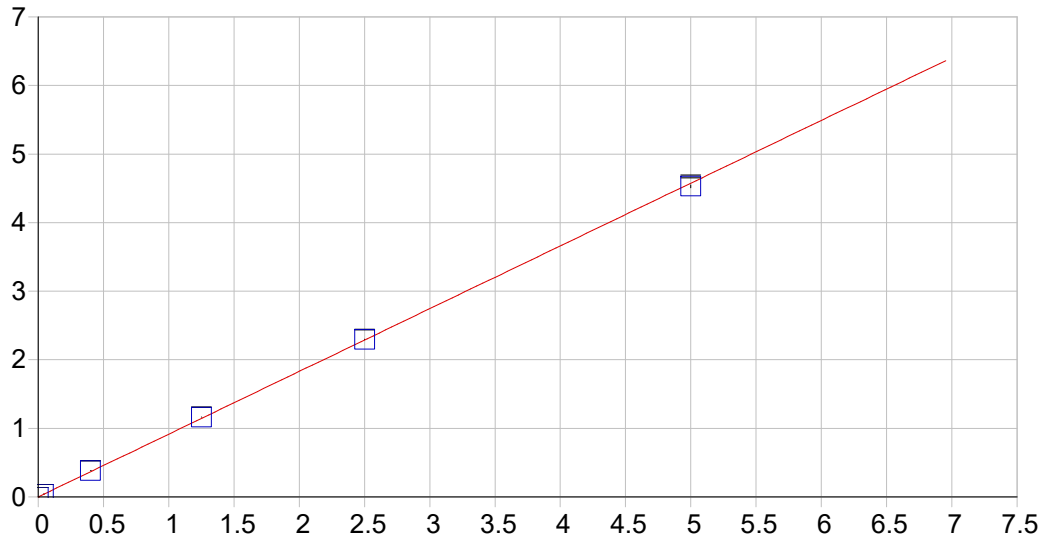


V 292.402 {115}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.084494	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999723	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.001907		
Predicted MQL:	0.006357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.04000	.03921	-.001	-1.96	.00331	.000	1
S3	1.2500	1.2140	-.036	-2.88	.10116	.001	1
S4	2.5000	2.4388	-.061	-2.45	.20311	.001	1
S5	5.0000	5.1057	.106	2.11	.42537	.003	1
S2	.40000	.39222	-.008	-1.94	.03277	.000	1

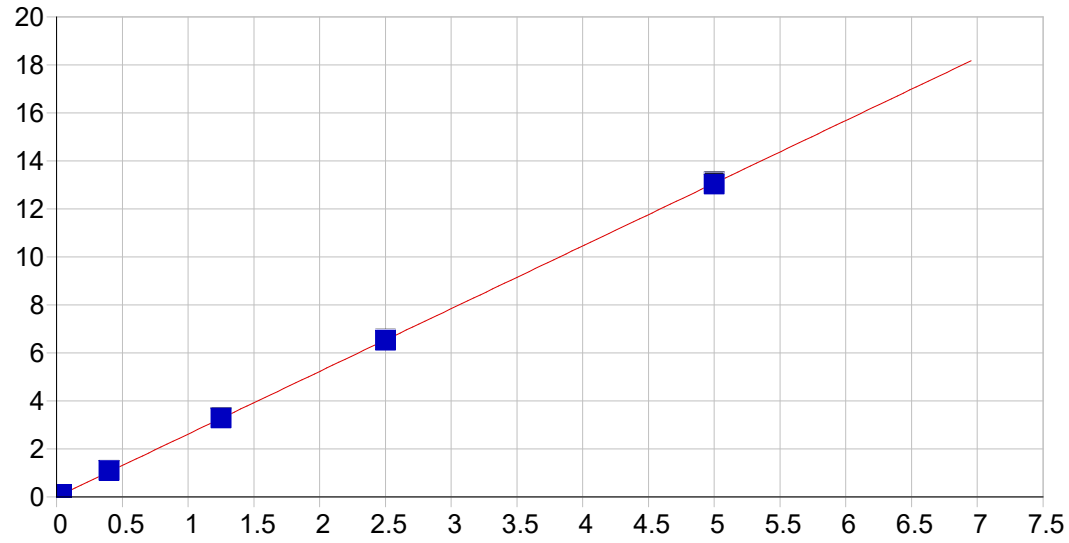


Zn 206.200 {464}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000393	Re-Slope:	1.000000
A1 (Gain):	0.915003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000301		
Predicted MDL:	0.000199		
Predicted MQL:	0.000664		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00039	.000	1
S1	.04000	.04317	.003	7.93	.03990	.000	1
S3	1.2500	1.2719	.022	1.76	1.1642	.003	1
S4	2.5000	2.5084	.008	.335	2.2956	.003	1
S5	5.0000	4.9504	-.050	-.992	4.5300	.022	1
S2	.40000	.41611	.016	4.03	.38113	.000	1

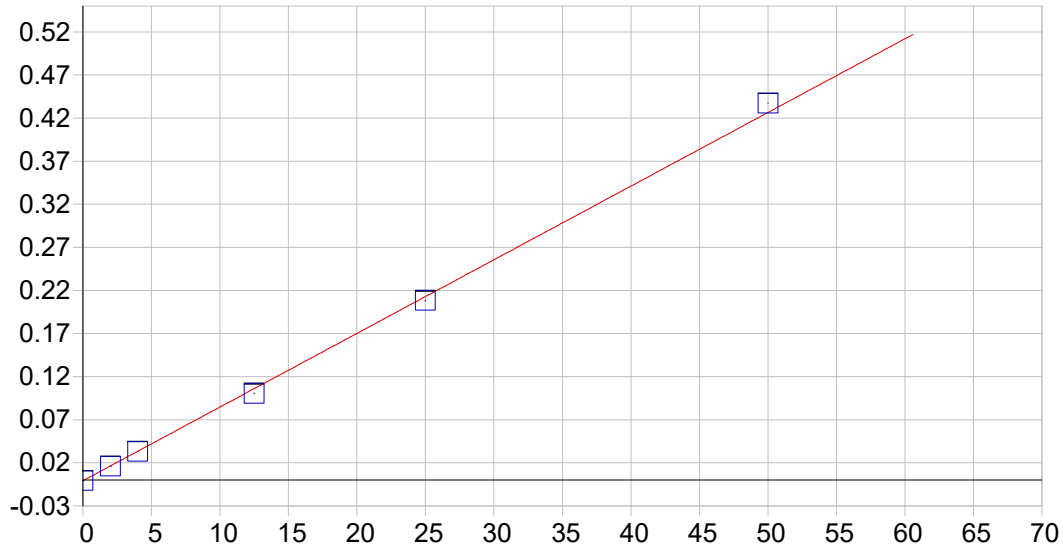


Zn 213.856 {158}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002382	Re-Slope:	1.000000
A1 (Gain):	2.613343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000670		
Predicted MDL:	0.000277		
Predicted MQL:	0.000925		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00237	.001	1
S1	.04000	.04305	.003	7.63	.11562	.001	1
S3	1.2500	1.2516	.002	.132	3.2961	.017	1
S4	2.5000	2.4935	-.006	-.259	6.5643	.011	1
S5	5.0000	4.9839	-.016	-.321	13.118	.020	1
S2	.40000	.41783	.018	4.46	1.1016	.004	1

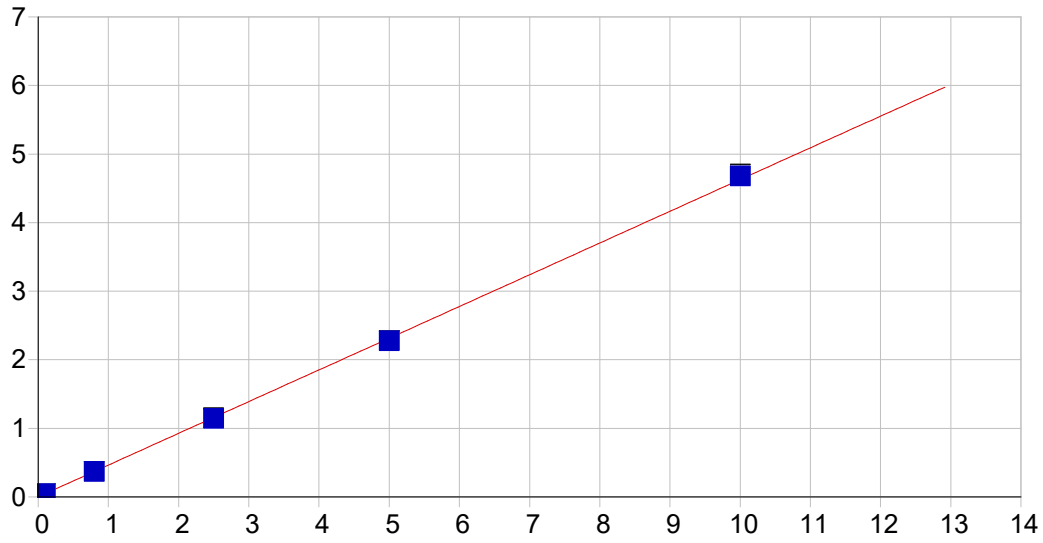


K 766.490 { 44}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000773	Re-Slope:	1.000000
A1 (Gain):	0.008547	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999582	Status:	OK.
Std Error of Est:	0.000131		
Predicted MDL:	0.021448		
Predicted MQL:	0.071493		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00014	.000	.000	-.00077	.000	1
S2	4.0000	3.9738	-.026	-.656	.03319	.000	1
S3	12.500	11.849	-.651	-5.21	.10050	.000	1
S4	25.000	24.453	-.547	-2.19	.20822	.001	1
S5	50.000	51.257	1.26	2.51	.43730	.000	1
S1	2.0000	1.9672	-.033	-1.64	.01604	.000	1

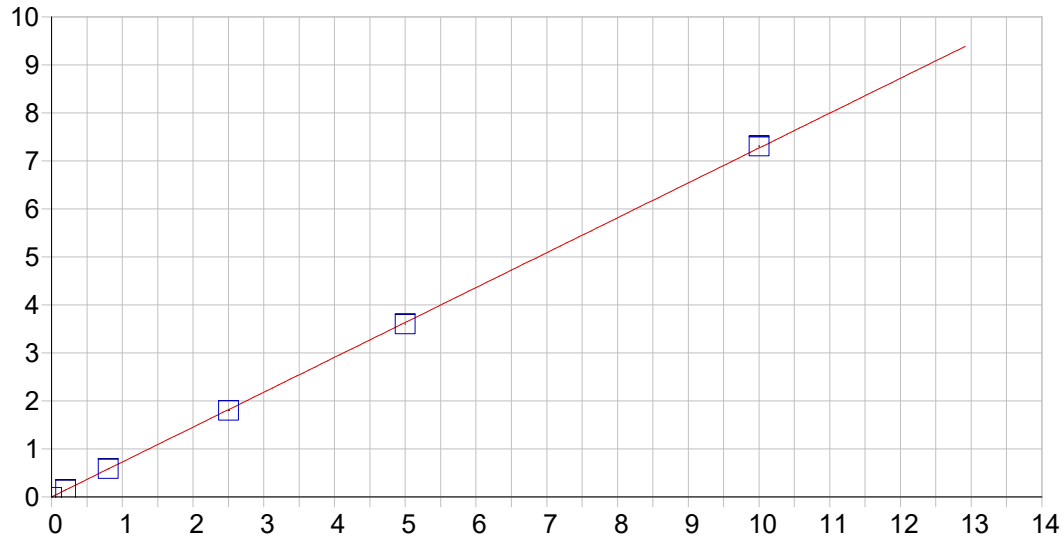


B 249.678 {135}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001606	Re-Slope:	1.000000
A1 (Gain):	0.462623	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000322		
Predicted MDL:	0.000589		
Predicted MQL:	0.001965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00161	.000	1
S1	.10000	.10220	.002	2.20	.04869	.001	1
S3	2.5000	2.4667	-.033	-1.33	1.1405	.009	1
S4	5.0000	4.9184	-.082	-1.63	2.2724	.006	1
S5	10.000	10.118	.118	1.18	4.6732	.026	1
S2	.80000	.79522	-.005	-.598	.36877	.001	1

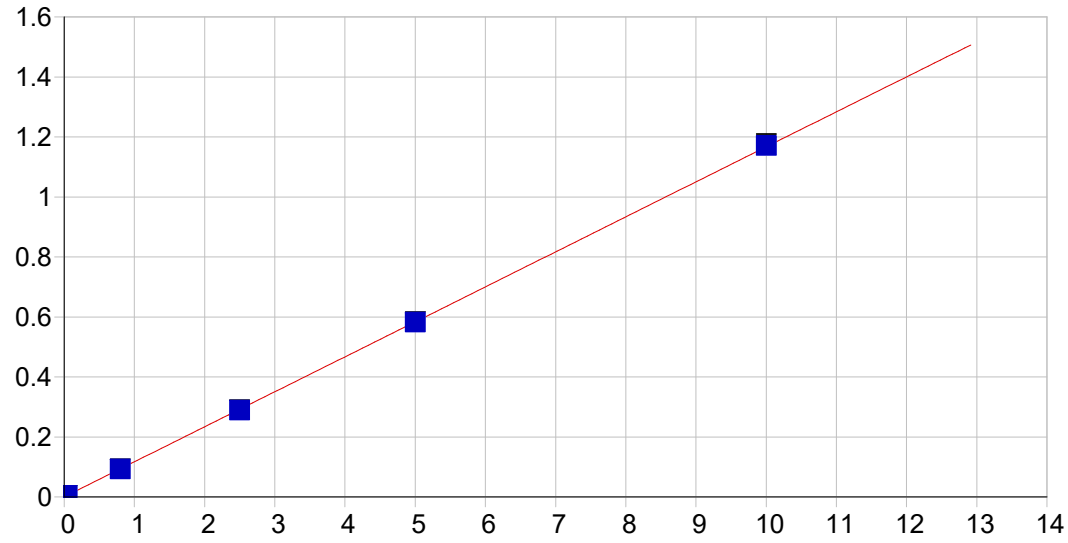


Mo 202.030 {467}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000251	Re-Slope:	1.000000
A1 (Gain):	0.726794	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000429		
Predicted MDL:	0.000256		
Predicted MQL:	0.000854		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00025	.000	1
S1	.20000	.20548	.005	2.74	.14959	.000	1
S3	2.5000	2.4780	-.022	-.879	1.8013	.001	1
S4	5.0000	4.9542	-.046	-.916	3.6009	.005	1
S5	10.000	10.052	.052	.521	7.3061	.016	1
S2	.80000	.81019	.010	1.27	.58909	.001	1

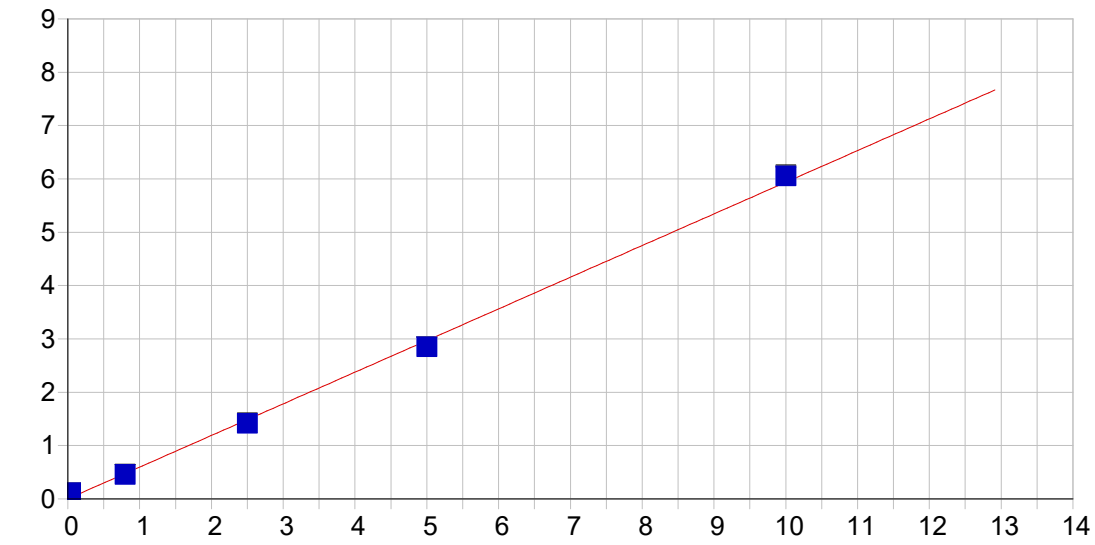


Sn 189.989 {478}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000333	Re-Slope:	1.000000
A1 (Gain):	0.116644	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.000761		
Predicted MQL:	0.002537		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.04000	.03854	-.001	-3.65	.00482	.000	1
S3	2.5000	2.4789	-.021	-.844	.28918	.000	1
S4	5.0000	4.9908	-.009	-.183	.58189	.002	1
S5	10.000	10.039	.039	.388	1.1701	.006	1
S2	.80000	.79291	-.007	-.886	.09273	.000	1

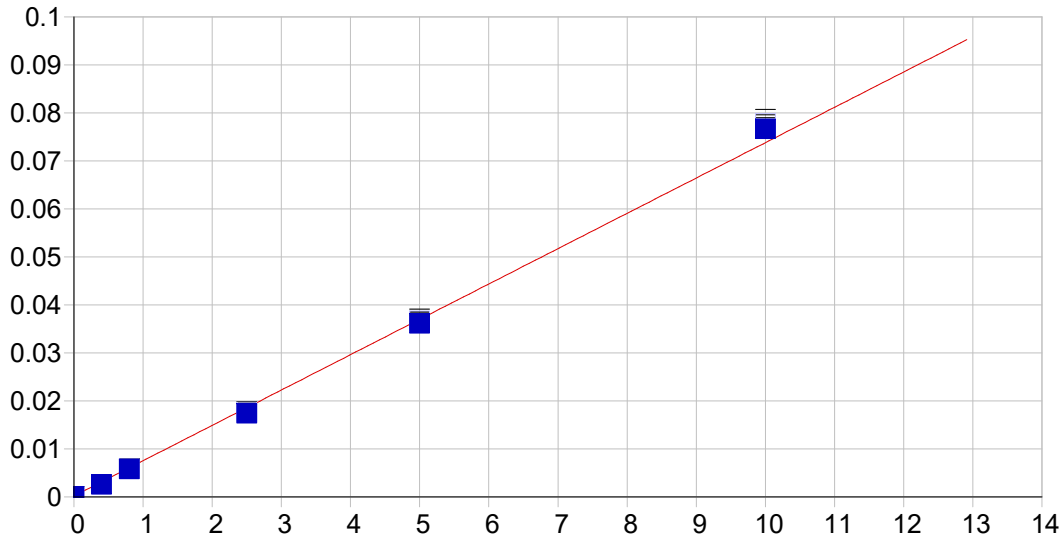


Ti 336.121 {100}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001924	Re-Slope:	1.000000
A1 (Gain):	0.593577	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.984143	Status:	OK.
Std Error of Est:	0.003546		
Predicted MDL:	0.000493		
Predicted MQL:	0.001645		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00184	.000	1
S1	.04000	.19176	.152	379.	.11573	.000	1
S3	2.5000	2.3808	-.119	-4.77	1.4146	.008	1
S4	5.0000	4.7979	-.202	-4.04	2.8488	.007	1
S5	10.000	10.200	.200	2.00	6.0542	.018	1
S2	.80000	.76960	-.030	-3.80	.45857	.001	1

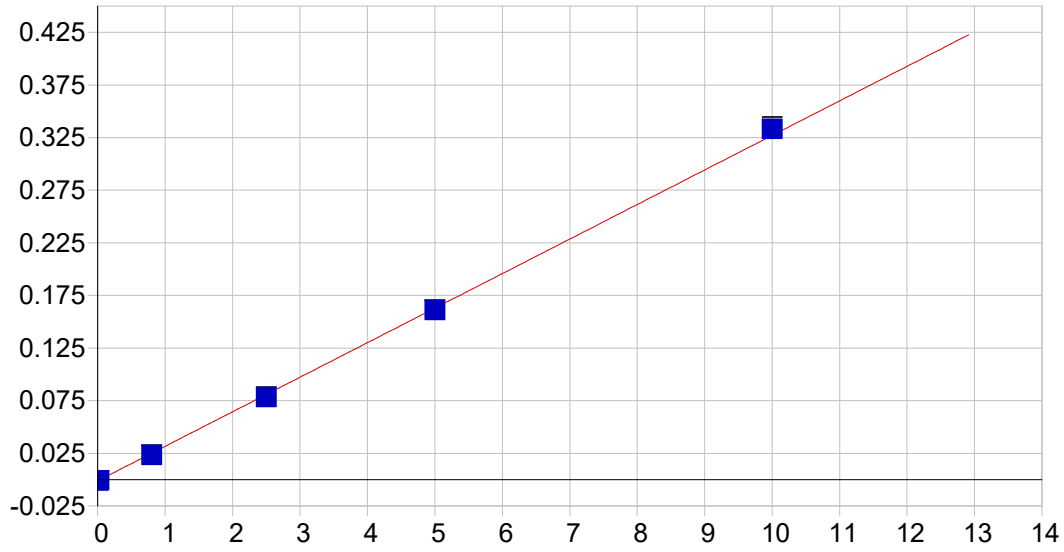


Si 288.158 {117}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000186	Re-Slope:	1.000000
A1 (Gain):	0.007364	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998859	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.005782		
Predicted MQL:	0.019273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00019	.000	1
S1	.40000	.32521	-.075	-18.7	.00259	.000	1
S3	2.5000	2.3384	-.162	-6.46	.01768	.000	1
S4	5.0000	4.8824	-.118	-2.35	.03669	.000	1
S5	10.000	10.389	.389	3.89	.07780	.001	1
S2	.80000	.76379	-.036	-4.53	.00590	.000	1

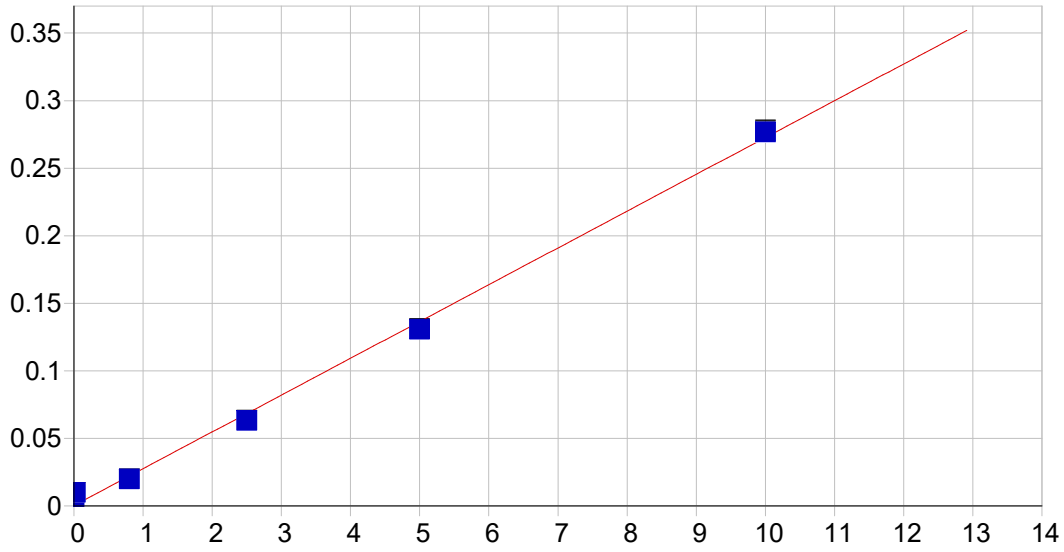


P 177.495 {490}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001225	Re-Slope:	1.000000
A1 (Gain):	0.032830	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.002508		
Predicted MQL:	0.008361		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00123	.000	1
S1	.02000	.01866	-.001	-6.68	-.00061	.000	1
S3	2.5000	2.4210	-.079	-3.16	.07824	.000	1
S4	5.0000	4.9439	-.056	-1.12	.16105	.001	1
S5	10.000	10.184	.184	1.84	.33308	.002	1
S2	.80000	.75204	-.048	-5.99	.02346	.000	1

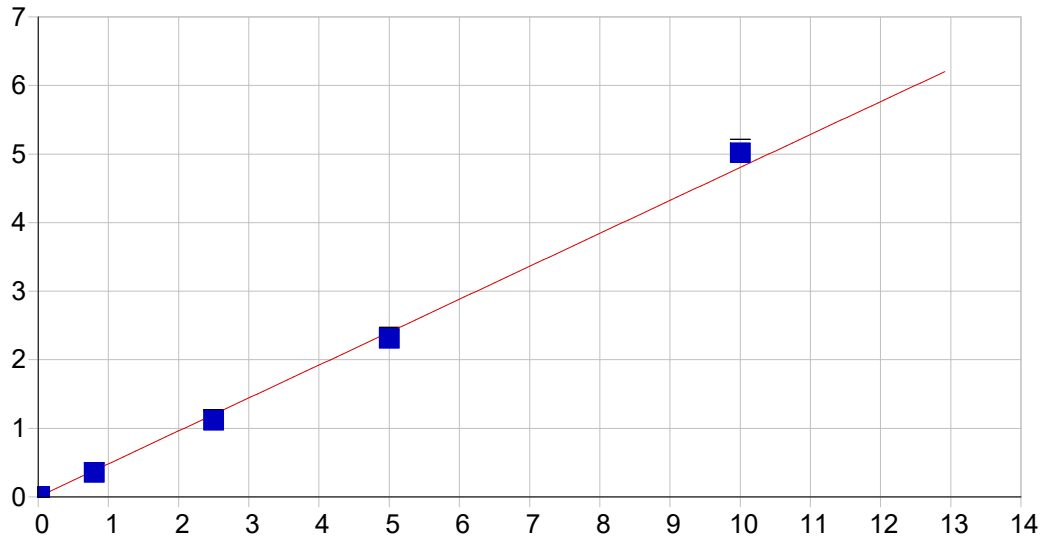


S 182.034 {485}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000315	Re-Slope:	1.000000
A1 (Gain):	0.027234	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.872142	Status:	OK.
Std Error of Est:	0.000357		
Predicted MDL:	0.003020		
Predicted MQL:	0.010066		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00033	-.000	.000	.00031	.000	1
S1	.02000	.35751	.338	1690.	.01003	.000	1
S3	2.5000	2.3122	-.188	-7.51	.06311	.000	1
S4	5.0000	4.7914	-.209	-4.17	.13045	.000	1
S5	10.000	10.154	.154	1.54	.27613	.001	1
S2	.80000	.71887	-.081	-10.1	.01984	.000	1

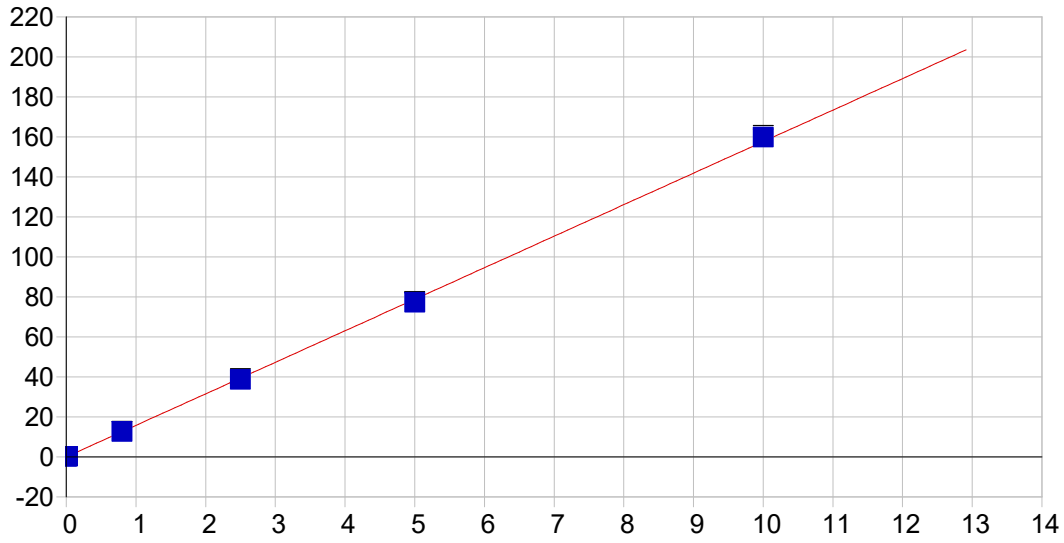


Li 670.784 { 50}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002208	Re-Slope:	1.000000
A1 (Gain):	0.480144	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998735	Status:	OK.
Std Error of Est:	0.000567		
Predicted MDL:	0.001719		
Predicted MQL:	0.005730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00221	.001	1
S5	10.000	10.445	.445	4.45	5.0218	.052	1
S4	5.0000	4.8048	-.195	-3.90	2.3114	.019	1
S3	2.5000	2.3195	-.180	-7.22	1.1170	.013	1
S1	.02000	.01969	-.000	-1.57	.01183	.001	1
S2	.80000	.73063	-.069	-8.67	.35336	.002	1

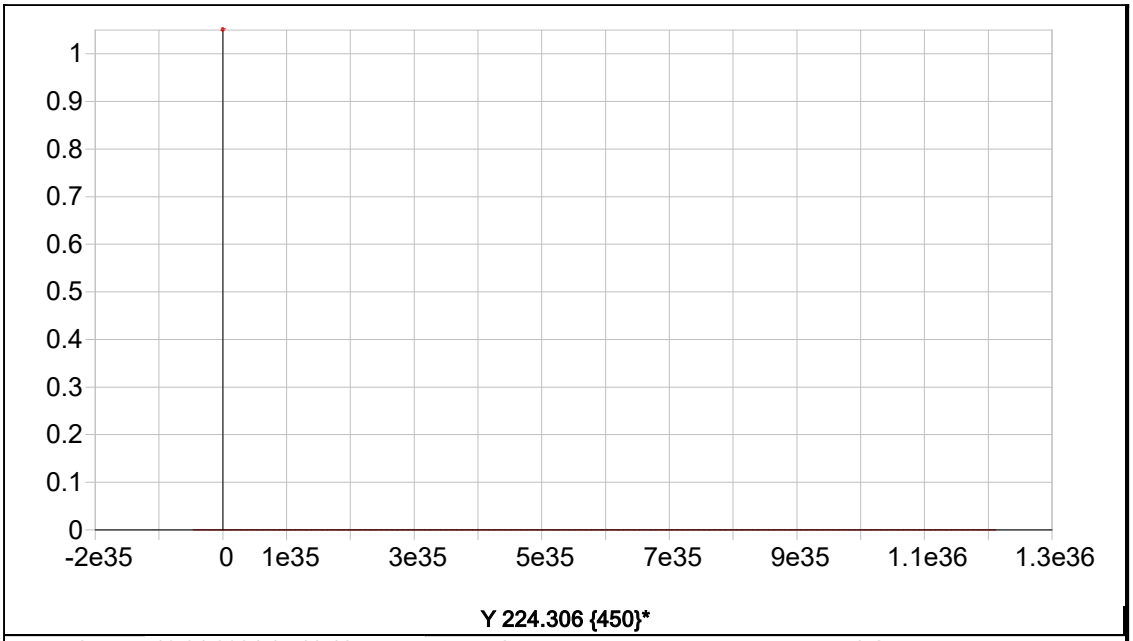


Sr 407.771 { 83}

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000305	Re-Slope:	1.000000
A1 (Gain):	15.763086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	0.005940		
Predicted MDL:	0.000031		
Predicted MQL:	0.000104		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00030	.000	1
S1	.02000	.02006	.000	.284	.31743	.001	1
S3	2.5000	2.4559	-.044	-1.76	38.752	.352	1
S4	5.0000	4.9000	-.100	-2.00	77.317	.394	1
S5	10.000	10.139	.139	1.39	159.97	.866	1
S2	.80000	.80554	.006	.693	12.710	.032	1

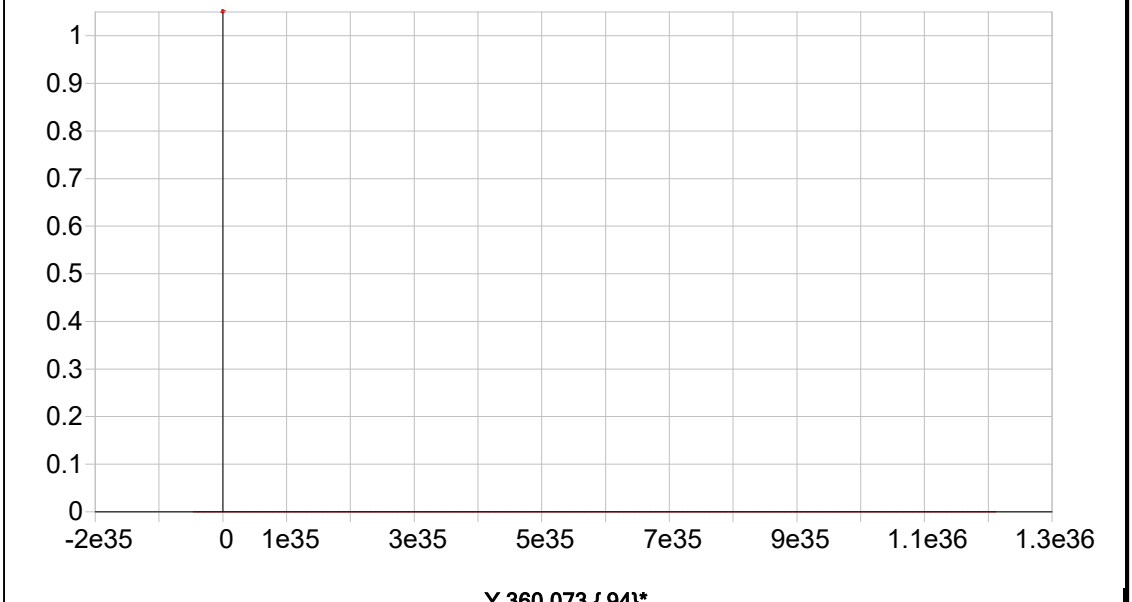


Y 224.306 {450}*

Date of Fit:	10/24/2024 15:16:16	Type of Fit:	Linear	Weighting:	1/Conc

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

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



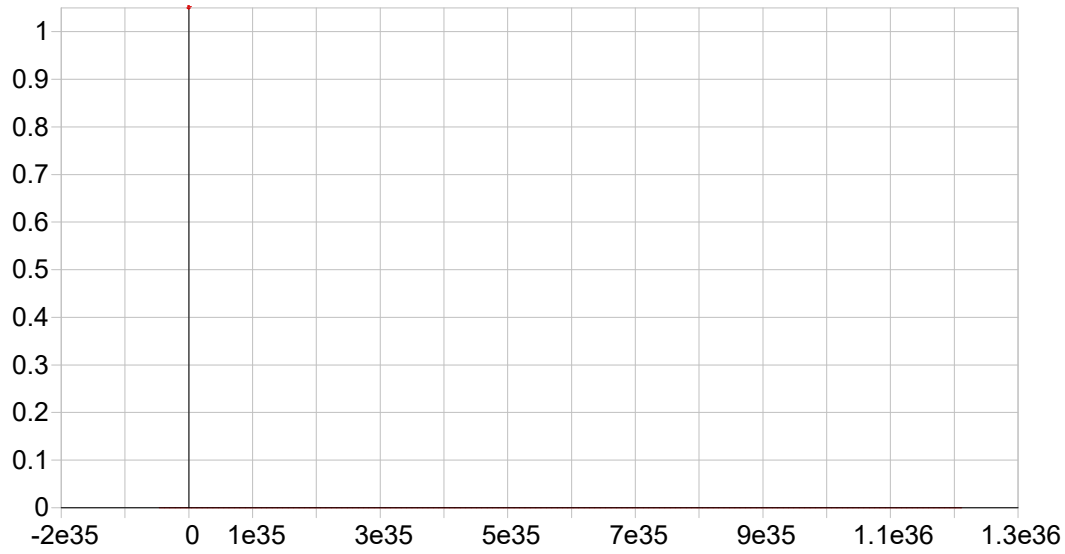
Y 360.073 { 94}*

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

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

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

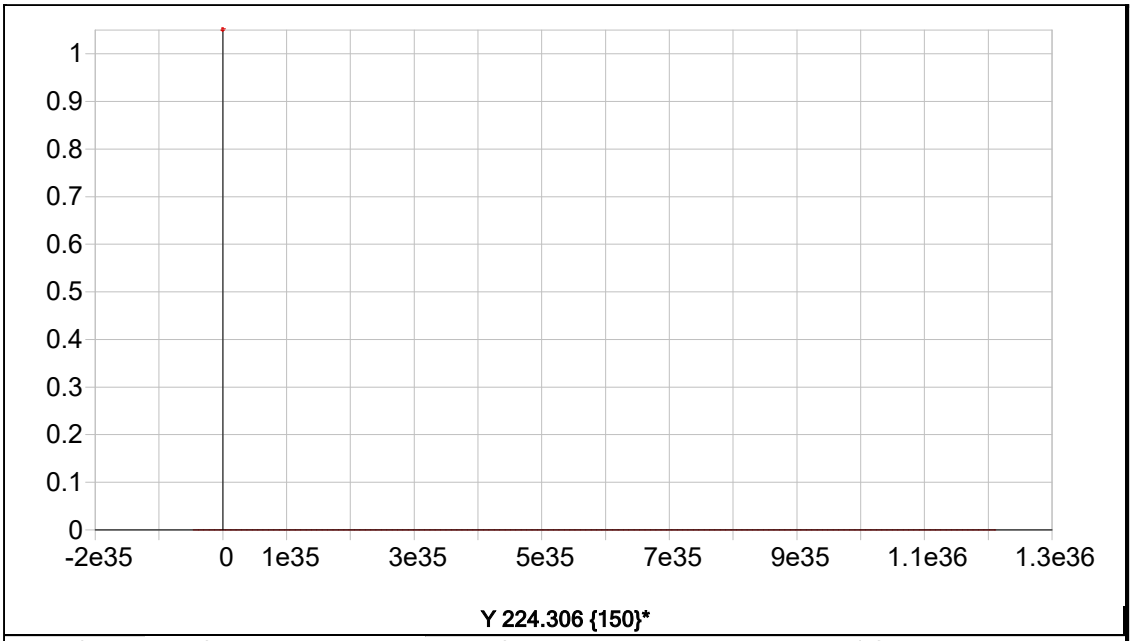
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 371.030 { 91}*

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

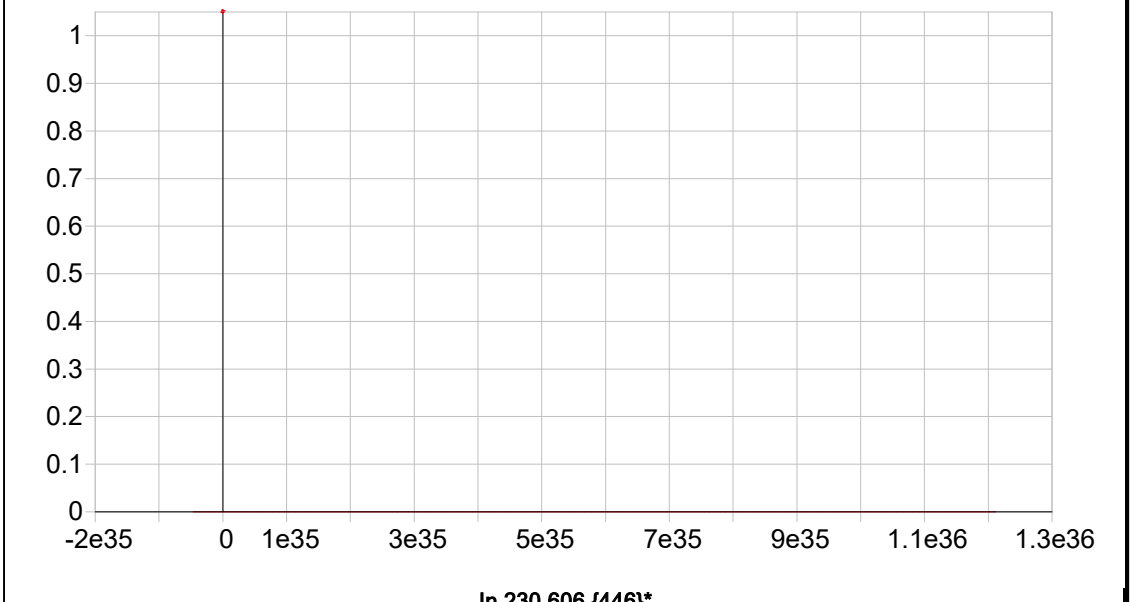
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

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

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: S0 Acquired: 10/24/2024 12:14:13 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	-.00023	-.00030	-.00025	.00047	.00014	.00040	-.00238	-.00083
Stddev	.00010	.00004	.00020	.00010	.00025	.00041	.00080	.00019
%RSD	42.964	13.624	79.892	21.124	173.87	101.95	33.424	23.119
#1	-.00033	-.00028	-.00002	.00056	.00043	.00027	-.00300	-.00105
#2	-.00021	-.00027	-.00036	.00037	-.00004	.00087	-.00267	-.00072
#3	-.00014	-.00035	-.00038	.00047	.00004	.00008	-.00148	-.00072

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	-.00034	.00113	-.00006	-.00014	-.00011	-.00001	-.00009	-.00012
Stddev	.00020	.00001	.00001	.00010	.00017	.00000	.00011	.00016
%RSD	59.101	.60120	18.114	75.126	162.15	24.866	123.61	131.59
#1	-.00014	.00112	-.00006	-.00023	.00006	-.00001	-.00021	-.00031
#2	-.00055	.00113	-.00007	-.00015	-.00028	-.00001	-.00008	-.00002
#3	-.00033	.00114	-.00005	-.00003	-.00009	-.00001	.00002	-.00004

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	-.00150	.00125	.00012	.00237	-.00077	.00161	.00025
Stddev	.00023	.00005	.00018	.00017	.00138	.00008	.00025	.00008
%RSD	110.37	3.1342	14.555	139.37	58.250	10.121	15.552	31.395
#1	-.00031	-.00155	.00129	.00019	.00372	-.00086	.00189	.00016
#2	.00005	-.00148	.00142	.00024	.00242	-.00071	.00146	.00029
#3	-.00037	-.00147	.00106	-.00007	.00096	-.00075	.00146	.00029

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	.00033	.00184	.00019	-.00123	.00031	.00221	-.00030
Stddev	.00006	.00028	.00001	.00004	.00004	.00056	.00033
%RSD	19.281	15.351	3.3448	3.5990	12.371	25.406	109.29
#1	.00026	.00209	.00018	-.00125	.00035	.00255	-.00035
#2	.00038	.00153	.00018	-.00117	.00027	.00251	-.00060
#3	.00036	.00188	.00019	-.00125	.00030	.00156	.00005

Sample Name: S0 Acquired: 10/24/2024 12:14:13 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2950.3	62294.	12834.	2216.2	4695.7
Stddev	7.3	116.	24.	2.6	9.9
%RSD	.24766	.18696	.18528	.11618	.21022
#1	2942.9	62396.	12818.	2217.6	4684.9
#2	2950.5	62167.	12861.	2213.2	4698.0
#3	2957.5	62318.	12822.	2217.7	4704.3

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: S1 Acquired: 10/24/2024 12:18:39 Type: Cal
Method: NON EPA-6010-200.7(v2450) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00088	.00245	.00270	.00221	.00991	.00878	.37646	.02341
Stddev	.00010	.00013	.00025	.00009	.00005	.00024	.00074	.00018
%RSD	11.844	5.3057	9.4205	4.0901	.49543	2.7076	.19686	.77629
#1	.00100	.00253	.00298	.00219	.00989	.00863	.37639	.02351
#2	.00086	.00252	.00264	.00231	.00996	.00867	.37576	.02351
#3	.00079	.00230	.00248	.00213	.00986	.00906	.37724	.02320

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	.01285	.11929	.00161	.02737	.01719	.00066	.01554	.02500
Stddev	.00004	.00056	.00003	.00015	.00019	.00001	.00015	.00011
%RSD	.30070	.47276	1.6573	.53849	1.1035	1.6556	.95047	.45256
#1	.01288	.11967	.00160	.02742	.01738	.00067	.01570	.02499
#2	.01281	.11955	.00159	.02721	.01700	.00065	.01540	.02489
#3	.01287	.11864	.00164	.02749	.01718	.00066	.01553	.02512

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	.03240	.00219	.03815	.00331	.11562	.01604	.04869	.14959
Stddev	.00015	.00006	.00013	.00017	.00050	.00014	.00055	.00044
%RSD	.45664	2.9546	.34199	5.2591	.43302	.86311	1.1303	.29125
#1	.03254	.00212	.03815	.00351	.11620	.01588	.04827	.14966
#2	.03240	.00220	.03802	.00319	.11528	.01613	.04931	.14999
#3	.03225	.00224	.03828	.00323	.11540	.01611	.04848	.14913

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	.00482	.11573	.00259	-.00061	.01003	.01183	.31743
Stddev	.00006	.00039	.00003	.00002	.00007	.00056	.00111
%RSD	1.3049	.33710	.98496	3.8240	.73709	4.6977	.35011
#1	.00487	.11548	.00256	-.00064	.00997	.01120	.31850
#2	.00485	.11553	.00260	-.00060	.01011	.01204	.31628
#3	.00475	.11618	.00260	-.00060	.01000	.01226	.31751

Sample Name: S1 Acquired: 10/24/2024 12:18:39 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2938.5	60556.	12870.	2199.2	4593.0
Stddev	9.2	196.	20.	3.5	12.6
%RSD	.31388	.32309	.15334	.16118	.27520
#1	2928.1	60507.	12875.	2196.7	4579.8
#2	2945.6	60771.	12848.	2203.3	4605.1
#3	2941.9	60389.	12887.	2197.8	4593.9

Sample Name: S2 Acquired: 10/24/2024 12:23:01 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	.04866	.06253	.20352	.07557	.15240	.12510	5.8519	.16717
Stddev	.00005	.00034	.00012	.00013	.00020	.00011	.0203	.00112
%RSD	.10483	.54470	.05662	.16803	.13022	.08952	.34603	.66917
#1	.04861	.06273	.20359	.07566	.15232	.12519	5.8628	.16847
#2	.04868	.06272	.20339	.07543	.15225	.12514	5.8643	.16651
#3	.04871	.06213	.20359	.07563	.15263	.12498	5.8285	.16654

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	.90120	.23334	.02603	.36212	.16046	.00549	.30868	.04909
Stddev	.00071	.00069	.00008	.00042	.00039	.00001	.00145	.00045
%RSD	.07885	.29569	.31112	.11605	.24202	.13728	.47037	.91685
#1	.90202	.23358	.02606	.36241	.16006	.00548	.31001	.04916
#2	.90079	.23257	.02609	.36164	.16049	.00550	.30890	.04950
#3	.90079	.23389	.02594	.36232	.16084	.00549	.30713	.04861

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	.32846	.07114	.07529	.03277	1.1016	.03319	.36877	.58909
Stddev	.00030	.00014	.00045	.00030	.0041	.00019	.00083	.00062
%RSD	.09084	.19700	.59836	.91801	.37357	.58080	.22439	.10598
#1	.32879	.07119	.07547	.03292	1.1048	.03298	.36959	.58981
#2	.32821	.07098	.07563	.03296	1.1030	.03322	.36794	.58871
#3	.32838	.07125	.07478	.03242	1.0969	.03337	.36877	.58875

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	.09273	.45857	.00590	.02346	.01984	.35336	12.710
Stddev	.00015	.00056	.00002	.00004	.00011	.00223	.032
%RSD	.16099	.12134	.33580	.18671	.54017	.63019	.24982
#1	.09285	.45892	.00588	.02343	.01983	.35543	12.729
#2	.09256	.45887	.00590	.02344	.01973	.35365	12.728
#3	.09277	.45793	.00592	.02351	.01995	.35100	12.674

Sample Name: S2 Acquired: 10/24/2024 12:23:01 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2921.2	59142.	12796.	2152.2	4500.4
Stddev	5.6	175.	54.	14.2	13.5
%RSD	.19102	.29658	.42090	.65808	.29997
#1	2916.1	58968.	12736.	2139.8	4485.7
#2	2927.2	59139.	12812.	2149.2	4512.3
#3	2920.4	59319.	12841.	2167.6	4503.3

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: S3 Acquired: 10/24/2024 12:27:10 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	.15180	.19396	.63350	.23439	.47195	.39298	17.771	.51957
Stddev	.00051	.00217	.00034	.00133	.00030	.00097	.167	.00353
%RSD	.33473	1.1183	.05423	.56947	.06451	.24798	.94180	.68013
#1	.15235	.19482	.63362	.23534	.47228	.39388	17.702	.52366
#2	.15135	.19556	.63377	.23496	.47168	.39312	17.962	.51752
#3	.15169	.19149	.63312	.23286	.47189	.39195	17.650	.51755

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	2.8228	.72426	.07718	1.1271	.48821	.01617	.94351	.15132
Stddev	.0016	.00428	.00018	.0010	.00021	.00009	.00708	.00140
%RSD	.05593	.59107	.23476	.08784	.04283	.57895	.75076	.92649
#1	2.8210	.72868	.07726	1.1261	.48837	.01618	.95002	.15201
#2	2.8234	.72395	.07731	1.1272	.48798	.01626	.94454	.15224
#3	2.8240	.72014	.07697	1.1281	.48829	.01607	.93597	.14970

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	1.0171	.21437	.22267	.10116	3.2961	.10050	1.1405	1.8013
Stddev	.0008	.00134	.00179	.00108	.0170	.00049	.0094	.0009
%RSD	.08131	.62625	.80294	1.0712	.51444	.48460	.82703	.05153
#1	1.0162	.21537	.22365	.10237	3.3031	.10080	1.1513	1.8019
#2	1.0174	.21489	.22375	.10082	3.3084	.10076	1.1361	1.8002
#3	1.0177	.21284	.22061	.10028	3.2768	.09994	1.1340	1.8017

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	.28918	1.4146	.01768	.07824	.06311	1.1170	38.752
Stddev	.00014	.0080	.00015	.00036	.00009	.0134	.352
%RSD	.04852	.56520	.83053	.46514	.14273	1.1953	.90782
#1	.28912	1.4219	.01765	.07793	.06321	1.1290	39.148
#2	.28909	1.4158	.01784	.07816	.06307	1.1194	38.630
#3	.28934	1.4060	.01755	.07864	.06304	1.1026	38.477

Sample Name: S3 Acquired: 10/24/2024 12:27:10 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2879.2	60957.	12706.	2142.3	4337.6
Stddev	6.0	379.	81.	19.9	8.6
%RSD	.20889	.62131	.64070	.92974	.19769
#1	2875.8	60877.	12628.	2142.0	4335.9
#2	2886.2	60625.	12700.	2122.5	4347.0
#3	2875.7	61369.	12790.	2162.3	4330.1

Sample Name: S4 Acquired: 10/24/2024 12:31:27 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	.30691	.38092	1.2681	.47299	.95416	.79156	36.400	1.0310
Stddev	.00113	.00752	.0023	.00145	.00050	.00271	.346	.0043
%RSD	.36782	1.9732	.17889	.30591	.05258	.34229	.95134	.41399
#1	.30601	.38202	1.2668	.47276	.95361	.78990	36.532	1.0359
#2	.30818	.38784	1.2707	.47454	.95459	.79010	36.007	1.0278
#3	.30653	.37292	1.2667	.47168	.95428	.79469	36.661	1.0294

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	5.7026	1.4464	.15254	2.2765	.97154	.03299	1.8792	.30338
Stddev	.0120	.0041	.00044	.0054	.00049	.00021	.0095	.00268
%RSD	.21056	.28384	.28755	.23906	.05081	.63939	.50599	.88249
#1	5.6949	1.4470	.15204	2.2720	.97118	.03295	1.8880	.30574
#2	5.7165	1.4421	.15287	2.2825	.97210	.03280	1.8691	.30047
#3	5.6966	1.4502	.15271	2.2749	.97134	.03321	1.8803	.30392

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	2.0478	.43115	.46414	.20311	6.5643	.20822	2.2724	3.6009
Stddev	.0037	.00099	.00265	.00114	.0111	.00071	.0063	.0055
%RSD	.17925	.22931	.57055	.56024	.16876	.34215	.27915	.15230
#1	2.0446	.43074	.46496	.20438	6.5563	.20794	2.2797	3.5981
#2	2.0518	.43044	.46118	.20220	6.5596	.20768	2.2683	3.6073
#3	2.0469	.43228	.46629	.20274	6.5769	.20902	2.2693	3.5974

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	.58189	2.8488	.03669	.16105	.13045	2.3114	77.317
Stddev	.00200	.0069	.00041	.00059	.00038	.0194	.394
%RSD	.34295	.24365	1.1142	.36751	.29292	.83917	.50905
#1	.58095	2.8514	.03632	.16058	.13029	2.3312	77.507
#2	.58418	2.8409	.03663	.16172	.13089	2.2925	76.864
#3	.58053	2.8541	.03713	.16086	.13017	2.3104	77.579

Sample Name: S4 Acquired: 10/24/2024 12:31:27 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2761.1	58316.	12410.	2038.5	4085.3
Stddev	3.6	165.	47.	8.0	3.3
%RSD	.13041	.28247	.38161	.39012	.08084
#1	2757.2	58388.	12362.	2036.7	4082.1
#2	2764.3	58432.	12457.	2047.2	4085.0
#3	2761.8	58127.	12412.	2031.6	4088.7

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: S5 Acquired: 10/24/2024 12:35:40 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	.63829	.76271	2.5668	.98460	1.9886	1.7012	76.404	2.1061
Stddev	.00036	.01723	.0098	.00219	.0027	.0023	.816	.0154
%RSD	.05621	2.2592	.38296	.22237	.13830	.13381	1.0686	.73236
#1	.63823	.75492	2.5765	.98287	1.9882	1.6990	75.729	2.1038
#2	.63867	.78246	2.5671	.98706	1.9916	1.7036	76.170	2.1226
#3	.63796	.75075	2.5568	.98386	1.9862	1.7010	77.311	2.0920

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.520	3.0222	.29758	4.6397	1.9641	.06712	3.9241	.63423
Stddev	.059	.0080	.00069	.0182	.0024	.00015	.0172	.00466
%RSD	.50855	.26502	.23263	.39237	.12346	.22207	.43760	.73531
#1	11.580	3.0268	.29697	4.6582	1.9669	.06701	3.9390	.63787
#2	11.517	3.0268	.29833	4.6390	1.9622	.06729	3.9281	.63585
#3	11.463	3.0129	.29742	4.6218	1.9633	.06707	3.9053	.62898

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.1573	.86968	.97604	.42537	13.118	.43730	4.6732	7.3061
Stddev	.0174	.00336	.00337	.00286	.020	.00035	.0263	.0157
%RSD	.41904	.38628	.34566	.67121	.15100	.08012	.56260	.21462
#1	4.1742	.86669	.97830	.42663	13.141	.43689	4.6779	7.3141
#2	4.1583	.87332	.97767	.42737	13.106	.43748	4.6968	7.3161
#3	4.1394	.86904	.97217	.42210	13.108	.43752	4.6448	7.2880

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	1.1701	6.0542	.07780	.33308	.27613	5.0218	159.97
Stddev	.0058	.0181	.00086	.00210	.00143	.0519	.87
%RSD	.49372	.29939	1.1108	.63014	.51729	1.0329	.54122
#1	1.1745	6.0694	.07699	.33383	.27613	5.0607	158.98
#2	1.1722	6.0591	.07768	.33469	.27756	5.0418	160.59
#3	1.1636	6.0342	.07871	.33070	.27470	4.9629	160.34

Sample Name: S5 Acquired: 10/24/2024 12:35:40 Type: Cal
Method: NON EPA-6010-200.7(v2450) 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	2590.1	56825.	11816.	1900.1	3791.6
Stddev	3.6	60.	56.	8.9	12.8
%RSD	.13730	.10548	.47448	.46968	.33780
#1	2586.1	56860.	11766.	1891.5	3778.8
#2	2591.3	56860.	11807.	1909.4	3791.6
#3	2592.9	56756.	11877.	1899.4	3804.4

Sample Name: ICV01 Acquired: 10/24/2024 13:26:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.9648096	.9956302	.9741518	1.003146	1.020342	2.476219
Stddev	.0008511	.0109874	.0011241	.003868	.004566	.003840
%RSD	.0882123	1.103562	.1153891	.3855920	.4475117	.1550697
#1	.9653274	1.008280	.9728878	1.005783	1.025276	2.476383
#2	.9652741	.988458	.9745286	1.004950	1.019483	2.472299
#3	.9638273	.990153	.9750391	.998706	1.016266	2.479974

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4855230	.4827286	.4807343	9.647340	.5228629	.5198555
Stddev	.0014371	.0006450	.0004174	.009655	.0005990	.0002013
%RSD	.2959971	.1336187	.0868265	.1000832	.1145635	.0387238
#1	.4869059	.4828804	.4808625	9.640715	.5228652	.5199824
#2	.4856259	.4832841	.4802679	9.658418	.5234607	.5199607
#3	.4840372	.4820212	.4810726	9.642888	.5222627	.5196234

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5390491	10.13772	.4895156	5.438357	.5228044	.2638051
Stddev	.0006331	.01459	.0015845	.024403	.0003358	.0006428
%RSD	.1174477	.1439334	.3236833	.4487271	.0642382	.2436681
#1	.5395410	10.14341	.4881503	5.461145	.5228394	.2640653
#2	.5392715	10.14861	.4912530	5.441318	.5231214	.2630730
#3	.5383348	10.12114	.4891434	5.412608	.5224524	.2642770

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.684340	.4665194	1.063706	10.15208	F 2.134764	2.411062
Stddev	.028546	.0045094	.001765	.01232	.005151	.005201
%RSD	.2947647	.9666065	.1659554	.1213709	.2412929	.2157165
#1	9.717213	.4630360	1.065388	10.14281	2.140324	2.416078
#2	9.665801	.4716128	1.063861	10.16606	2.130154	2.411415
#3	9.670007	.4649093	1.061868	10.14737	2.133814	2.405694

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICV01 Acquired: 10/24/2024 13:26:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.288885	F 2.192398	2.431347	F .0074144	F -.008408	F .0017844
Stddev	.004469	.003210	.003357	.0019666	.003555	.0013388
%RSD	.1952374	.1464049	.1380627	26.52469	42.28073	75.02445
#1	2.292393	2.194649	2.428163	.0096104	-.011284	.0025110
#2	2.283854	2.193824	2.431024	.0068169	-.004434	.0002395
#3	2.290408	2.188723	2.434854	.0058157	-.009507	.0026028

Elem	Sr4077
Units	ppm
Avg	F -.008928
Stddev	.000032
%RSD	.3625917
#1	-.008912
#2	-.008965
#3	-.008906

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.797	59544.39	13393.65	1985.925	4310.950
Stddev	11.565	192.69	42.66	7.184	13.544
%RSD	.4192041	.3236095	.3185145	.3617654	.3141685
#1	2746.915	59326.36	13344.83	1978.530	4296.199
#2	2759.460	59691.85	13412.30	1992.878	4313.827
#3	2770.017	59614.96	13423.80	1986.366	4322.824

Sample Name: LLICV01 Acquired: 10/24/2024 13:30:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190207	.0391520	.0115558	.0189596	.0520741	.0986997
Stddev	.0022624	.0009625	.0011456	.0015906	.0008018	.0074060
%RSD	11.89431	2.458356	9.913229	8.389479	1.539678	7.503533
#1	.0193632	.0384727	.0114473	.0196131	.0524744	.1062808
#2	.0210923	.0402534	.0104683	.0201193	.0525969	.0914822
#3	.0166066	.0387299	.0127517	.0171463	.0511510	.0983362

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0958173	.0057176	.0056133	1.948845	.0100338	.0299933
Stddev	.0004585	.0001141	.0000965	.004186	.0000796	.0001028
%RSD	.4785290	1.995923	1.718164	.2147873	.7930504	.3428652
#1	.0953873	.0057131	.0055034	1.949359	.0099426	.0299815
#2	.0962998	.0058339	.0056836	1.952750	.0100696	.0301015
#3	.0957648	.0056058	.0056530	1.944426	.0100892	.0298968

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0229020	.1063425	.0199876	1.842573	.0395493	.0109926
Stddev	.0001457	.0039349	.0001016	.015628	.0002383	.0000725
%RSD	.6361039	3.700230	.5084917	.8481815	.6024822	.6592285
#1	.0229911	.1023347	.0198745	1.860617	.0393131	.0109432
#2	.0227339	.1102002	.0200711	1.833351	.0397896	.0109588
#3	.0229810	.1064928	.0200173	1.833749	.0395453	.0110758

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.913770	.0357683	.0459339	2.035245	.1007655	.2121209
Stddev	.009366	.0006237	.0002869	.007894	.0001754	.0003444
%RSD	.4894095	1.743668	.6246071	.3878777	.1740346	.1623507
#1	1.910451	.0352477	.0460693	2.043013	.1006662	.2124477
#2	1.924344	.0355977	.0461280	2.027231	.1009680	.2121538
#3	1.906516	.0364595	.0456043	2.035490	.1006623	.2117613

Sample Name: LLICV01 Acquired: 10/24/2024 13:30:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0381561	F .1891050	.3418660	.0200411	F .3564610	.0166214
Stddev	.0008580	.0002020	.0043634	.0024022	.0039189	.0024431
%RSD	2.248617	.1067908	1.276349	11.98629	1.099378	14.69857
#1	.0385423	.1893374	.3368636	.0221256	.3519537	.0152072
#2	.0387532	.1890060	.3448882	.0174140	.3590620	.0152145
#3	.0371729	.1889717	.3438461	.0205838	.3583674	.0194424

Elem	Sr4077
Units	ppm
Avg	.0196372
Stddev	.0000850
%RSD	.4328675
#1	.0196421
#2	.0197196
#3	.0195498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2842.548	60154.09	13473.03	2042.845	4562.369
Stddev	12.644	83.68	33.17	6.360	10.610
%RSD	.4448247	.1391149	.2461596	.3113226	.2325505
#1	2828.004	60064.26	13464.88	2035.937	4550.131
#2	2848.707	60168.17	13444.70	2044.143	4568.004
#3	2850.933	60229.84	13509.51	2048.456	4568.972

Sample Name: ICB01 Acquired: 10/24/2024 13:34:34 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0008048	.0007416	.0000522	-.000360	.0009999	-.003357	-.001537
Stddev	.0015266	.0011298	.0009608	.001625	.0001437	.004675	.000525
%RSD	189.6882	152.3430	1840.745	451.0953	14.37535	139.2474	34.17579
#1	.0025590	.0011097	.0009198	.001383	.0008339	-.007826	-.001860
#2	-.000223	.0016416	-.000980	-.001834	.0010808	-.003746	-.000931
#3	.000078	-.000526	.000217	-.000630	.0010849	.001500	-.001822

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000026	.0000179	.0042659	.0003265	.0000988	-.000153	.0000162
Stddev	.000042	.0000765	.0074480	.0002950	.0001219	.000344	.0030279
%RSD	160.7851	427.0899	174.5935	90.34091	123.3646	225.1678	18692.60
#1	-.000070	.0000679	.0087606	.0000066	.0000143	-.000218	.0026093
#2	.000014	-.000070	-.004331	.0005877	.0002385	-.000460	.0007507
#3	-.000023	.000056	.008368	.0003853	.0000436	.000219	-.003311

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002160	-.001929	-.000185	.0003699	-.032511	-.001651	.0002530
Stddev	.0000475	.005533	.000162	.0001283	.005259	.000483	.0002952
%RSD	21.96362	286.8708	87.61285	34.67204	16.17570	29.23761	116.6869
#1	.0002703	-.000678	-.000143	.0002534	-.027846	-.001941	.0002759
#2	.0001955	-.007981	-.000048	.0003491	-.031477	-.001094	-.000053
#3	.0001823	.002872	-.000364	.0005073	-.038211	-.001917	.000536

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011762	.0013620	-.000022	-.000389	-.000070	.0004184	.0012862
Stddev	.006420	.0001170	.000029	.000176	.000409	.0013252	.0019620
%RSD	54.57990	8.589969	133.9986	45.20844	585.7248	316.7057	152.5465
#1	-.016675	.0012799	.000006	-.000251	-.000430	.0004235	.0013077
#2	-.014113	.0014960	-.000019	-.000329	-.000155	.0017411	.0032373
#3	-.004498	.0013102	-.000052	-.000587	.000375	-.000909	-.000687

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICB01 Acquired: 10/24/2024 13:34:34 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006239	.0002688	-.000016
Stddev	.001534	.0004441	.000010
%RSD	24.58099	165.2591	64.05620
#1	-.004850	.0007069	-.000026
#2	-.005982	.0002805	-.000015
#3	-.007885	-.000181	-.000006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2836.073	57670.71	13261.22	2005.745	4589.652
Stddev	4.174	120.49	48.51	9.033	8.232
%RSD	.1471734	.2089352	.3658007	.4503472	.1793522
#1	2834.057	57719.01	13206.13	2013.899	4585.442
#2	2840.872	57759.57	13297.54	2007.301	4599.137
#3	2833.289	57533.56	13280.00	1996.035	4584.378

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CRI01 Acquired: 10/24/2024 13:38:53 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196839	.0392212	.0116842	.0178418	.0510775	.1002463
Stddev	.0018155	.0016101	.0005770	.0008700	.0002993	.0030932
%RSD	9.223143	4.105232	4.938517	4.876314	.5860260	3.085617
#1	.0207331	.0376355	.0121983	.0179577	.0513953	.0974386
#2	.0175876	.0408547	.0110601	.0169196	.0508010	.0997383
#3	.0207311	.0391734	.0117943	.0186480	.0510360	.1035621

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0943478	.0055759	.0055768	1.923419	.0099460	.0293137
Stddev	.0000765	.0000271	.0000170	.004534	.0004348	.0001737
%RSD	.0811270	.4863136	.3045005	.2357482	4.371548	.5924889
#1	.0943983	.0055551	.0055651	1.918185	.0099629	.0294295
#2	.0943853	.0055661	.0055962	1.926174	.0095031	.0293976
#3	.0942598	.0056066	.0055689	1.925897	.0103722	.0291140

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220803	.1023443	.0192524	1.853990	.0388171	.0106234
Stddev	.0002647	.0012711	.0000891	.015531	.0000334	.0001340
%RSD	1.198923	1.242025	.4627764	.8377121	.0861413	1.261634
#1	.0220559	.1011950	.0191590	1.871668	.0388503	.0107781
#2	.0218286	.1037096	.0193365	1.847765	.0387834	.0105495
#3	.0223564	.1021284	.0192617	1.842536	.0388175	.0105426

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.858698	.0347130	.0444196	1.965703	.0979516	.2069543
Stddev	.010541	.0009083	.0003568	.002318	.0000804	.0001739
%RSD	.5671253	2.616630	.8031588	.1179150	.0820862	.0840231
#1	1.869844	.0338045	.0446441	1.963239	.0979038	.2069121
#2	1.848889	.0347134	.0446066	1.966028	.0980444	.2068053
#3	1.857362	.0356211	.0440083	1.967841	.0979066	.2071454

Sample Name: CRI01 Acquired: 10/24/2024 13:38:53 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0379251	F .1865930	.3325532	.0178412	F .3500357	.0170733
Stddev	.0004880	.0004582	.0042664	.0019140	.0016730	.0018972
%RSD	1.286720	.2455367	1.282935	10.72823	.4779598	11.11212
#1	.0376148	.1870840	.3345116	.0172466	.3491792	.0181460
#2	.0384876	.1861769	.3276592	.0199820	.3519635	.0181911
#3	.0376731	.1865182	.3354889	.0162950	.3489643	.0148827

Elem	Sr4077
Units	ppm
Avg	.0193324
Stddev	.0000523
%RSD	.2705454
#1	.0193046
#2	.0193927
#3	.0192998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2873.032	60324.07	13394.93	2058.238	4601.614
Stddev	6.874	167.46	66.92	10.039	8.812
%RSD	.2392483	.2775947	.4996086	.4877235	.1915000
#1	2865.100	60138.61	13342.65	2049.137	4591.719
#2	2876.753	60369.40	13371.78	2056.571	4604.506
#3	2877.244	60464.19	13470.35	2069.006	4608.617

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICSA01 Acquired: 10/24/2024 13:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0049460	.0036737	.0092696	-.016118	.0000223	244.7565
Stddev	.0004781	.0028660	.0001178	.001788	.0009983	.8303
%RSD	9.665541	78.01353	1.270668	11.09492	4472.371	.3392419
#1	.0044437	.0020445	.0092255	-.014055	-.000814	244.5604
#2	.0053954	.0019937	.0091803	-.017227	-.000247	245.6673
#3	.0049989	.0069829	.0094031	-.017071	.001128	244.0418

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032857	.0012880	.0033679	226.8706	.0553575	.0022711
Stddev	.0003296	.0000527	.0001685	.5619	.0005117	.0002149
%RSD	10.03215	4.090988	5.003015	.2476920	.9243186	9.463817
#1	.0034629	.0012316	.0035609	226.2497	.0548232	.0021476
#2	.0029053	.0012964	.0032924	227.0177	.0554062	.0025193
#3	.0034887	.0013360	.0032503	227.3443	.0558431	.0021465

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085933	100.9500	.0038901	246.2886	.0025919	.0003669
Stddev	.0005703	.4994	.0002126	1.1299	.0004796	.0001599
%RSD	6.636979	.4947441	5.465324	.4587848	18.50285	43.58926
#1	.0092170	100.3752	.0037019	245.0046	.0022007	.0002682
#2	.0084649	101.2786	.0038475	246.7303	.0024481	.0002811
#3	.0080982	101.1961	.0041207	247.1311	.0031270	.0005515

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041549	.0059070	.0058874	-.036729	.0507561	-.000028
Stddev	.0024864	.0030795	.0001209	.020285	.0010604	.000303
%RSD	59.84130	52.13304	2.052798	55.22846	2.089187	1064.235
#1	.0013686	.0064731	.0058402	-.035133	.0496467	.000287
#2	.0049487	.0086642	.0060248	-.017289	.0517595	-.000055
#3	.0061474	.0025837	.0057973	-.057764	.0508620	-.000317

Sample Name: ICSA01 Acquired: 10/24/2024 13:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003933	-.001661	.0085328	.0034747	-.012117	F .0352453
Stddev	.000821	.000461	.0072369	.0017223	.004501	.0018985
%RSD	20.88859	27.75990	84.81236	49.56633	37.14680	5.386513
#1	-.004818	-.001206	.0159478	.0048243	-.007191	.0374290
#2	-.003194	-.001647	.0081624	.0015349	-.013142	.0339870
#3	-.003786	-.002128	.0014882	.0040648	-.016016	.0343198

Elem	Sr4077
Units	ppm
Avg	-.004875
Stddev	.000599
%RSD	12.29087
#1	-.004196
#2	-.005330
#3	-.005098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2479.674	52818.43	12856.11	1798.709	3570.200
Stddev	.768	42.65	25.58	9.026	.790
%RSD	.0309563	.0807413	.1989863	.5018049	.0221381
#1	2479.975	52798.42	12829.43	1788.972	3570.922
#2	2478.802	52789.47	12880.44	1800.359	3569.356
#3	2480.246	52867.40	12858.45	1806.796	3570.322

Sample Name: ICSAB01 Acquired: 10/24/2024 13:54:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1114314	.0992732	.0576688	.0349845	.6430749	255.6743
Stddev	.0035172	.0007558	.0011719	.0050398	.0028824	.3810
%RSD	3.156419	.7613871	2.032168	14.40580	.4482228	.1490276
#1	.1112050	.0986682	.0576496	.0365077	.6419543	255.3545
#2	.1080328	.0990310	.0565066	.0390870	.6463494	255.5725
#3	.1150563	.1001205	.0588503	.0293588	.6409211	256.0958

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4882819	.4821839	.9808621	231.7892	.5646556	.5268345
Stddev	.0006900	.0016184	.0028440	.2893	.0010334	.0016642
%RSD	.1413211	.3356483	.2899465	.1248069	.1830118	.3158877
#1	.4889354	.4820503	.9782917	231.4649	.5650879	.5257421
#2	.4875604	.4838650	.9803774	231.8819	.5634763	.5260116
#3	.4883500	.4806364	.9839174	232.0207	.5654026	.5287499

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5183558	104.2946	.4712537	249.3602	1.040605	.2298051
Stddev	.0010215	.3305	.0006625	.5009	.003345	.0003813
%RSD	.1970698	.3168477	.1405803	.2008756	.3214589	.1659364
#1	.5171810	104.3159	.4705671	248.7894	1.036744	.2301457
#2	.5190343	103.9541	.4713050	249.7265	1.042625	.2293931
#3	.5188522	104.6140	.4718891	249.5647	1.042446	.2298764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003024	.4599765	.9181991	-.031755	1.010357	1.128362
Stddev	.001598	.0009728	.0048832	.025147	.002443	.002016
%RSD	52.84388	.2114921	.5318238	79.19025	.2417892	.1786532
#1	-.004519	.4588709	.9183556	-.003522	1.008206	1.127152
#2	-.003213	.4607013	.9230022	-.051748	1.013013	1.130689
#3	-.001340	.4603573	.9132396	-.039997	1.009853	1.127244

Sample Name: ICSAB01 Acquired: 10/24/2024 13:54:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.100657	1.008422	.9317699	F .0126999	F -.019853	F .0383460
Stddev	.004828	.001110	.0074366	.0026518	.002175	.0020264
%RSD	.4386586	.1100839	.7981156	20.88048	10.95819	5.284471
#1	1.095525	1.007217	.9334090	.0153952	-.019243	.0362479
#2	1.105110	1.008644	.9236504	.0126107	-.022268	.0384980
#3	1.101337	1.009403	.9382501	.0100939	-.018047	.0402921

Elem	Sr4077
Units	ppm
Avg	F -.005068
Stddev	.000153
%RSD	3.013319
#1	-.004972
#2	-.004988
#3	-.005244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.498	52826.64	13068.42	1762.309	3547.934
Stddev	6.502	105.26	47.01	8.924	7.463
%RSD	.2660835	.1992634	.3597584	.5063811	.2103399
#1	2436.244	52733.24	13056.16	1760.414	3539.328
#2	2445.447	52805.99	13028.75	1754.486	3552.606
#3	2448.801	52940.70	13120.35	1772.029	3551.869

Sample Name: ICSADLX20 Acquired: 10/24/2024 13:58:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0010303	.0000631	.0001866	-.000238	.0007998	12.01222	-.001488
Stddev	.0009822	.0013248	.0004505	.000520	.0013480	.02649	.000376
%RSD	95.33612	2098.648	241.4844	218.6098	168.5526	.2205269	25.30136
#1	.0018958	-.000080	.0001041	.000354	.0016707	12.03842	-.001830
#2	-.000037	-.001185	.0006727	-.000448	-.000753	12.01279	-.001550
#3	.001232	.001454	-.000217	-.000620	.001482	11.98545	-.001084

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002246	.0002315	11.69711	.0029465	.0003350	.0007964	5.047762
Stddev	.0000304	.0000351	.02861	.0000953	.0001046	.0002416	.013361
%RSD	13.55226	15.14741	.2445749	3.235610	31.21067	30.33895	.2647007
#1	.0002574	.0002705	11.71013	.0028425	.0002818	.0008456	5.035028
#2	.0002191	.0002216	11.66431	.0029672	.0002679	.0010096	5.046583
#3	.0001973	.0002025	11.71689	.0030298	.0004555	.0005339	5.061673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057101	13.09802	.0003053	.0003648	-.035708	-.002248	.0012791
Stddev	.0001170	.01993	.0001592	.0002727	.001840	.000800	.0000804
%RSD	2.048603	.1521738	52.14559	74.77110	5.154131	35.57081	6.286757
#1	.0056175	13.10747	.0003751	.0001640	-.033952	-.001899	.0013626
#2	.0056711	13.07512	.0001231	.0006753	-.037623	-.001683	.0012022
#3	.0058415	13.11147	.0004177	.0002550	-.035548	-.003164	.0012725

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.026674	.0033954	.0001688	-.000776	.0001434	-.004217	-.000262
Stddev	.008355	.0003606	.0002485	.000287	.0001887	.001835	.001435
%RSD	31.32486	10.61892	147.2514	37.01018	131.6011	43.52690	548.4822
#1	-.022840	.0030745	.0003546	-.001034	.0002441	-.004924	-.000976
#2	-.036258	.0033261	-.000113	-.000827	.0002603	-.002133	-.001199
#3	-.020923	.0037856	.000265	-.000466	-.000074	-.005593	.001390

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICSADLX20 Acquired: 10/24/2024 13:58:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0110256	.0016983	-.000118
Stddev	.0014516	.0013466	.000049
%RSD	13.16529	79.28875	41.79720
#1	.0105410	.0027325	-.000068
#2	.0126574	.0001757	-.000119
#3	.0098782	.0021867	-.000166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2829.884	59906.19	13564.90	2031.458	4430.486
Stddev	4.479	22.48	35.00	4.647	4.980
%RSD	.1582781	.0375331	.2579944	.2287611	.1124018
#1	2824.978	59913.55	13529.97	2027.100	4428.514
#2	2830.919	59924.07	13599.97	2030.926	4436.150
#3	2833.755	59880.95	13564.77	2036.348	4426.795

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICSABDLX20 Acquired: 10/24/2024 14:02:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0060974	.0061771	.0028100	.0010376	.0324883	12.66691	.0238097
Stddev	.0030968	.0005013	.0007426	.0011217	.0007064	.01952	.0001508
%RSD	50.78877	8.115090	26.42537	108.1077	2.174330	.1541247	.6332678
#1	.0094296	.0056097	.0032597	.0022214	.0321067	12.64761	.0239711
#2	.0055548	.0065601	.0032174	.0009010	.0333034	12.66647	.0236725
#3	.0033078	.0063615	.0019529	-.000010	.0320548	12.68664	.0237855

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258961	.0499944	12.37639	.0303183	.0265502	.0279922	5.348269
Stddev	.0000196	.0000124	.03602	.0001594	.0001447	.0000711	.009214
%RSD	.0757380	.0247041	.2910097	.5258675	.5452083	.2538941	.1722745
#1	.0258850	.0500081	12.35356	.0304681	.0266726	.0279153	5.358785
#2	.0259188	.0499843	12.35771	.0301507	.0265877	.0280060	5.344412
#3	.0258846	.0499906	12.41791	.0303360	.0263904	.0280554	5.341611

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0260379	13.91698	.0534101	.0113836	-.033006	.0229454	.0574476
Stddev	.0002790	.05825	.0002442	.0001781	.005903	.0008381	.0003603
%RSD	1.071722	.4185750	.4571445	1.564186	17.88303	3.652700	.6272273
#1	.0258311	13.97433	.0536737	.0114319	-.036877	.0238860	.0575362
#2	.0259273	13.85787	.0531918	.0115325	-.026213	.0222779	.0570512
#3	.0263553	13.91873	.0533646	.0111863	-.035930	.0226723	.0577553

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.034097	.0543052	.0586896	.0543766	.0529917	.0403676	.0019072
Stddev	.005947	.0005709	.0002192	.0002219	.0006191	.0061450	.0011436
%RSD	17.44145	1.051288	.3734993	.4081045	1.168385	15.22248	59.96129
#1	-.036605	.0545677	.0586638	.0541938	.0522776	.0338128	.0009002
#2	-.027306	.0536503	.0589206	.0543125	.0533177	.0459979	.0031504
#3	-.038378	.0546977	.0584844	.0546235	.0533797	.0412922	.0016709

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: ICSABDLX20 Acquired: 10/24/2024 14:02:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.002873	.0014239	-.000177
Stddev	.002160	.0006806	.000005
%RSD	75.17691	47.79790	2.681907
#1	-.004537	.0011187	-.000175
#2	-.000432	.0009494	-.000175
#3	-.003651	.0022038	-.000183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2781.191	59309.28	13420.26	2024.240	4338.562
Stddev	4.686	78.05	38.70	5.673	5.295
%RSD	.1684763	.1316018	.2884063	.2802476	.1220481
#1	2775.799	59269.95	13384.84	2022.651	4332.553
#2	2783.501	59399.17	13461.57	2030.538	4340.589
#3	2784.274	59258.71	13414.36	2019.532	4342.544

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV01 Acquired: 10/24/2024 14:06:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.945499	4.854851	4.898464	4.999222	4.981898	9.659910	9.464161
Stddev	.006133	.065398	.006746	.013994	.008385	.016833	.072225
%RSD	.1240101	1.347064	.1377239	.2799259	.1683049	.1742513	.7631425
#1	4.939837	4.785287	4.906254	4.983142	4.972687	9.669753	9.547200
#2	4.952013	4.864185	4.894589	5.005879	4.983918	9.669504	9.429340
#3	4.944647	4.915080	4.894550	5.008645	4.989088	9.640474	9.415943

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2381506	2.435008	23.76769	.9680901	2.442466	1.251332	4.960205
Stddev	.0017030	.007354	.05669	.0031534	.004411	.000550	.001208
%RSD	.7151119	.3019917	.2385184	.3257394	.1805996	.0439687	.0243566
#1	.2401154	2.443335	23.83130	.9716546	2.447510	1.251174	4.959750
#2	.2370974	2.432284	23.72252	.9656633	2.440561	1.251944	4.959291
#3	.2372390	2.429406	23.74925	.9669526	2.439328	1.250879	4.961575

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.354579	25.73244	2.452332	1.245387	24.56977	2.327264	2.524850
Stddev	.007927	.12350	.005508	.000908	.02554	.015361	.001228
%RSD	.3366737	.4799212	.2245917	.0729311	.1039599	.6600343	.0486204
#1	2.360520	25.84511	2.458665	1.245960	24.55842	2.341771	2.524479
#2	2.345578	25.60041	2.448665	1.244340	24.59901	2.311172	2.526221
#3	2.357638	25.75180	2.449664	1.245861	24.55186	2.328850	2.523851

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.92427	4.731544	4.984197	4.883836	4.724912	4.992667	4.989941
Stddev	.07657	.028559	.003445	.015228	.008608	.045266	.008887
%RSD	.3072103	.6035776	.0691086	.3117987	.1821738	.9066584	.1780918
#1	24.83621	4.763279	4.980303	4.901154	4.734812	4.942852	4.995633
#2	24.96141	4.707912	4.986845	4.872543	4.719199	5.003868	4.994489
#3	24.97518	4.723442	4.985442	4.877809	4.720726	5.031282	4.979700

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV01 Acquired: 10/24/2024 14:06:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.758882	4.622867	4.827104
Stddev	.005196	.018672	.039960
%RSD	.1091843	.4038969	.8278169
#1	4.762893	4.641431	4.868416
#2	4.760740	4.604089	4.824247
#3	4.753012	4.623080	4.788650

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2714.081	58277.68	12873.00	1964.233	4077.651
Stddev	8.820	20.57	56.39	8.193	8.975
%RSD	.3249674	.0352919	.4380246	.4170951	.2201022
#1	2723.322	58277.29	12810.32	1973.667	4086.954
#2	2705.753	58298.44	12919.59	1958.901	4069.045
#3	2713.169	58257.31	12889.10	1960.132	4076.955

Sample Name: CCB01 Acquired: 10/24/2024 14:11:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0007044	.0003546	-.000294	-.000192	.0015682	-.002134	-.001990
Stddev	.0017225	.0005630	.000511	.002659	.0012947	.004016	.000180
%RSD	244.5316	158.7736	174.2106	1385.607	82.55733	188.1693	9.030133
#1	.0008081	.0001844	.000093	.002878	.0013449	-.002229	-.001794
#2	-.001068	-.000104	-.000100	-.001696	.0029600	.001928	-.002146
#3	.002373	.000983	-.000873	-.001758	.0003997	-.006103	-.002031

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000269	.0000869	-.001887	.0000195	.0000049	-.000087	.0007836
Stddev	.0000465	.0000391	.006389	.0001660	.0000672	.000356	.0025852
%RSD	172.7063	44.96442	338.5616	852.7768	1380.726	408.4282	329.8927
#1	.0000806	.0000584	-.002492	-.000097	.0000210	.000307	-.002059
#2	.0000005	.0000708	.004782	.000210	.0000625	-.000387	.002994
#3	-.000000	.0001314	-.007952	-.000054	-.000069	-.000181	.001417

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002401	-.000535	-.000155	.0000511	-.044013	-.002579	.0003164
Stddev	.0001039	.007194	.000225	.0002888	.005363	.001067	.0000793
%RSD	43.25893	1344.589	144.9359	564.7557	12.18446	41.36804	25.05017
#1	.0003035	.007712	-.000037	-.000140	-.048446	-.001707	.0003817
#2	.0001203	-.005520	-.000415	.000383	-.038052	-.002262	.0003391
#3	.0002967	-.003797	-.000014	-.000090	-.045541	-.003768	.0002282

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011625	.0057113	.0001101	-.000061	.0000206	-.001048	.0004088
Stddev	.006687	.0006028	.0001458	.000381	.0002374	.000549	.0025958
%RSD	57.52515	10.55494	132.3515	621.4992	1155.318	52.38989	634.9699
#1	-.010076	.0062166	.0002073	.000163	.0002946	-.000857	.0015627
#2	-.018951	.0058734	.0001806	.000155	-.000121	-.001667	.0022276
#3	-.005849	.0050440	-.000057	-.000502	-.000112	-.000620	-.002564

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB01 Acquired: 10/24/2024 14:11:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005559	-.000244	.0000609
Stddev	.000946	.000713	.0000148
%RSD	17.01091	291.7130	24.23228
#1	-.005667	.000404	.0000749
#2	-.006447	-.000130	.0000623
#3	-.004565	-.001008	.0000455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2895.049	59838.85	13740.13	2040.847	4728.434
Stddev	6.950	140.63	26.95	6.088	3.390
%RSD	.2400823	.2350094	.1961379	.2982958	.0716958
#1	2887.441	59677.14	13709.10	2035.379	4724.536
#2	2896.641	59932.51	13753.66	2039.756	4730.072
#3	2901.066	59906.89	13757.64	2047.407	4730.694

Sample Name: P4460-03 Acquired: 10/24/2024 14:15:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0254598	.0091459	.1629833	-.063467	.0027451	131.0071
Stddev	.0009208	.0023184	.0005073	.000605	.0006192	.1564
%RSD	3.616733	25.34922	.3112351	.9525190	22.55568	.1193448
#1	.0247435	.0065810	.1626449	-.063052	.0030932	131.1834
#2	.0251374	.0110924	.1635665	-.064160	.0031120	130.9523
#3	.0264984	.0097643	.1627385	-.063188	.0020302	130.8855

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4670045	.0115371	.0172346	48.35021	.2376041	.1778073
Stddev	.0024054	.0000677	.0002393	.25179	.0002548	.0003441
%RSD	.5150753	.5871747	1.388507	.5207691	.1072350	.1935070
#1	.4697067	.0115359	.0170742	48.06667	.2374995	.1782026
#2	.4662097	.0114700	.0171198	48.54770	.2378945	.1776440
#3	.4650970	.0116055	.0175096	48.43626	.2374182	.1775754

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2950122	327.7582	4.822080	88.52328	.3390967	.0030671
Stddev	.0006274	1.1000	.013792	.54300	.0008119	.0003894
%RSD	.2126643	.3356201	.2860208	.6134007	.2394269	12.69497
#1	.2943042	328.4842	4.806714	87.90666	.3385621	.0032478
#2	.2952335	328.2979	4.833389	88.73313	.3400310	.0033332
#3	.2954990	326.4926	4.826136	88.93003	.3386972	.0026202

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.05578	.3099590	.7009476	22.84849	.2372555	.0062796
Stddev	.06462	.0013635	.0004226	.05402	.0029276	.0002029
%RSD	.3788844	.4399012	.0602945	.2364333	1.233948	3.230496
#1	17.12086	.3112008	.7012379	22.87162	.2396210	.0061116
#2	17.05486	.3101763	.7011422	22.88708	.2381642	.0065049
#3	16.99163	.3084999	.7004627	22.78675	.2339813	.0062222

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03 Acquired: 10/24/2024 14:15:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0068928	3.179891	F 14.36812	6.997971	5.638427	.2376776
Stddev	.0008326	.001800	.07852	.016113	.001818	.0034461
%RSD	12.07970	.0566001	.5464713	.2302529	.0322443	1.449884
#1	.0060659	3.181568	14.29496	7.006682	5.638602	.2409570
#2	.0077311	3.180115	14.45107	7.007853	5.640151	.2379898
#3	.0068814	3.177990	14.35831	6.979377	5.636528	.2340861

Elem	Sr4077
Units	ppm
Avg	-.171236
Stddev	.001051
%RSD	.6135184
#1	-.171437
#2	-.172172
#3	-.170100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3160.208	67819.73	16518.64	2269.302	3778.998
Stddev	10.920	70.04	32.49	13.295	9.342
%RSD	.3455343	.1032700	.1966666	.5858648	.2472167
#1	3147.629	67820.57	16483.02	2267.422	3768.211
#2	3167.251	67749.28	16546.63	2257.047	3784.425
#3	3165.743	67889.34	16526.28	2283.437	3784.358

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03DUP Acquired: 10/24/2024 14:19:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0246077	.0094520	.1598758	-.064948	.0010193	130.0318
Stddev	.0012718	.0047407	.0013946	.001256	.0011528	.2551
%RSD	5.168496	50.15504	.8723173	1.934068	113.1039	.1961688
#1	.0244636	.0149221	.1584212	-.065361	.0002582	130.3260
#2	.0259454	.0068968	.1600046	-.065945	.0023456	129.8714
#3	.0234140	.0065371	.1612015	-.063537	.0004539	129.8981

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4618802	.0113048	.0175398	47.89428	.2339826	.1755719
Stddev	.0026901	.0000465	.0001420	.14960	.0003541	.0002783
%RSD	.5824171	.4112163	.8095903	.3123605	.1513202	.1584872
#1	.4648878	.0113156	.0174367	47.90972	.2343795	.1758113
#2	.4597039	.0112539	.0174809	47.73755	.2338689	.1756378
#3	.4610488	.0113449	.0177018	48.03556	.2336993	.1752666

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2937107	323.7940	4.758347	87.22677	.3356001	.0029649
Stddev	.0008228	.5485	.021709	.45929	.0005675	.0003462
%RSD	.2801574	.1694079	.4562367	.5265503	.1690979	11.67823
#1	.2929154	324.3879	4.774694	87.50592	.3362506	.0025726
#2	.2936582	323.6877	4.733715	86.69667	.3352067	.0030939
#3	.2945586	323.3064	4.766631	87.47771	.3353429	.0032281

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.90720	.3069710	.6953688	22.60748	.2358854	.0058810
Stddev	.09595	.0007108	.0002061	.06904	.0006455	.0001137
%RSD	.5675377	.2315596	.0296330	.3053821	.2736438	1.933086
#1	17.01562	.3074576	.6952998	22.67697	.2366170	.0060059
#2	16.83322	.3061552	.6956005	22.60656	.2353963	.0057836
#3	16.87274	.3073001	.6952061	22.53891	.2356428	.0058535

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03DUP Acquired: 10/24/2024 14:19:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0083067	3.153323	F 14.30744	6.832272	5.574136	.2329685
Stddev	.0004825	.011738	.02146	.007254	.027022	.0014869
%RSD	5.808607	.3722291	.1500141	.1061788	.4847833	.6382418
#1	.0077544	3.165528	14.30612	6.839934	5.560433	.2344662
#2	.0085187	3.142117	14.32954	6.831375	5.556711	.2314927
#3	.0086468	3.152324	14.28667	6.825509	5.605265	.2329465

Elem	Sr4077
Units	ppm
Avg	-.168428
Stddev	.000572
%RSD	.3393617
#1	-.168151
#2	-.169085
#3	-.168048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3180.270	68914.24	16789.42	2295.008	3822.829
Stddev	3.431	141.72	47.39	10.990	5.206
%RSD	.1078841	.2056502	.2822672	.4788558	.1361843
#1	3179.972	68801.46	16736.55	2287.662	3818.586
#2	3183.840	68867.93	16803.65	2289.719	3828.638
#3	3176.997	69073.32	16828.08	2307.642	3821.263

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03LX5 Acquired: 10/24/2024 14:23:54 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0078622	.0028960	.0342433	-.015906	.0011991	30.81031	.1083637
Stddev	.0018689	.0007291	.0006741	.002408	.0003824	.03329	.0002619
%RSD	23.77041	25.17583	1.968538	15.13790	31.89154	.1080498	.2416604
#1	.0098439	.0033854	.0349571	-.017375	.0015431	30.84849	.1086592
#2	.0061316	.0032447	.0336176	-.013128	.0007874	30.78739	.1082715
#3	.0076111	.0020581	.0341552	-.017216	.0012667	30.79503	.1081604

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029298	.0011697	11.84599	.0587662	.0360588	.0736952	81.04961
Stddev	.0000337	.0000638	.03554	.0005928	.0001351	.0002685	.16874
%RSD	1.149330	5.449766	.3000593	1.008812	.3745335	.3643718	.2081901
#1	.0028927	.0011104	11.84967	.0588701	.0361346	.0740018	80.93676
#2	.0029384	.0012371	11.80874	.0581283	.0361389	.0735820	81.24359
#3	.0029584	.0011617	11.87954	.0593002	.0359029	.0735018	80.96849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.176665	20.65095	.0703856	.0012005	3.776240	.0728322	.1695806
Stddev	.001203	.03620	.0002262	.0000114	.019352	.0007334	.0003492
%RSD	.1022007	.1752944	.3213861	.9506469	.5124734	1.006955	.2059075
#1	1.175486	20.67768	.0701561	.0012088	3.790735	.0736424	.1699763
#2	1.176619	20.60975	.0706084	.0011875	3.783720	.0726402	.1694495
#3	1.177890	20.66541	.0703922	.0012052	3.754264	.0722138	.1693159

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.237542	.0599189	.0013176	.0001942	.7673272	3.384816	1.381274
Stddev	.010337	.0003229	.0002932	.0004200	.0006261	.018969	.007556
%RSD	.1973608	.5389301	22.24973	216.2905	.0815893	.5604010	.5470468
#1	5.247473	.0602507	.0009848	.0004886	.7679992	3.370646	1.382975
#2	5.226842	.0596057	.0015374	.0003808	.7667604	3.406365	1.373013
#3	5.238311	.0599003	.0014307	-.000287	.7672221	3.377437	1.387835

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03LX5 Acquired: 10/24/2024 14:23:54 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.129646	.0547228	-.043677
Stddev	.003541	.0011473	.000215
%RSD	.3134491	2.096517	.4933312
#1	1.128763	.0559927	-.043502
#2	1.126631	.0537612	-.043917
#3	1.133545	.0544145	-.043611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2932.672	61146.55	14589.35	2089.355	4289.081
Stddev	1.644	139.41	55.67	13.530	4.436
%RSD	.0560452	.2279921	.3815751	.6475912	.1034344
#1	2934.003	61074.08	14547.23	2074.670	4288.951
#2	2933.179	61058.30	14652.46	2092.080	4293.581
#3	2930.835	61307.26	14568.34	2101.316	4284.711

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03MS Acquired: 10/24/2024 14:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6133125	1.643018	1.010047	1.371832	.6294334	131.9473
Stddev	.0024333	.021742	.004582	.004573	.0035527	.1741
%RSD	.3967528	1.323309	.4536274	.3333700	.5644332	.1319496
#1	.6137311	1.620118	1.007723	1.374790	.6331032	132.0049
#2	.6155093	1.663380	1.007094	1.374141	.6291864	132.0854
#3	.6106970	1.645557	1.015325	1.366564	.6260107	131.7517

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6103678	.1487064	.1912020	48.60994	.5344452	.3638201
Stddev	.0003516	.0003020	.0006128	.10566	.0022939	.0010410
%RSD	.0576051	.2030889	.3204886	.2173587	.4292110	.2861246
#1	.6099721	.1489077	.1909799	48.54412	.5318064	.3633056
#2	.6104869	.1488524	.1907312	48.73182	.5355659	.3631366
#3	.6106443	.1483591	.1918948	48.55390	.5359634	.3650181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5145293	322.6590	4.904286	88.94038	.7994280	.0648429
Stddev	.0024434	1.5719	.011080	.27883	.0018193	.0004499
%RSD	.4748883	.4871775	.2259314	.3134979	.2275768	.6938148
#1	.5170819	320.8821	4.892122	88.62658	.7977443	.0643236
#2	.5122121	323.8682	4.906935	89.03490	.7991818	.0651160
#3	.5142939	323.2267	4.913802	89.15965	.8013579	.0650890

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.33444	.5166529	.8397787	30.93626	.4191963	.3308015
Stddev	.08979	.0004031	.0046709	.12066	.0017721	.0004170
%RSD	.4643968	.0780176	.5562092	.3900338	.4227483	.1260542
#1	19.24060	.5163520	.8450913	30.79746	.4171570	.3309182
#2	19.34320	.5171109	.8379285	30.99515	.4203622	.3303386
#3	19.41953	.5164960	.8363163	31.01617	.4200698	.3311477

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03MS Acquired: 10/24/2024 14:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6579908	3.299678	F 15.18544	F 12.41748	5.477197	.3768497
Stddev	.0009396	.000907	.05477	.03469	.022756	.0023355
%RSD	.1427927	.0274781	.3606783	.2793938	.4154659	.6197398
#1	.6571217	3.299511	15.12367	12.37742	5.453541	.3749363
#2	.6578632	3.300656	15.22807	12.43710	5.479119	.3761606
#3	.6589877	3.298866	15.20458	12.43791	5.498931	.3794522

Elem	Sr4077
Units	ppm
Avg	-.011915
Stddev	.001353
%RSD	11.35867
#1	-.010387
#2	-.012964
#3	-.012395

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3142.554	67999.81	16448.95	2257.515	3777.666
Stddev	8.667	128.77	30.14	12.307	3.221
%RSD	.2757816	.1893739	.1832600	.5451392	.0852538
#1	3132.586	68146.17	16421.08	2243.573	3774.758
#2	3148.300	67903.88	16444.82	2266.865	3781.128
#3	3146.777	67949.38	16480.95	2262.108	3777.114

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03MSD Acquired: 10/24/2024 14:32:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5167816	1.369413	.8732885	1.136686	.6365130	131.3343
Stddev	.0014108	.010563	.0015616	.004558	.0026907	.0242
%RSD	.2729989	.7713242	.1788202	.4010157	.4227203	.0184117
#1	.5183634	1.357968	.8716436	1.131997	.6356749	131.3155
#2	.5156534	1.378785	.8734714	1.141101	.6395229	131.3258
#3	.5163279	1.371486	.8747507	1.136962	.6343410	131.3616

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5905061	.1267165	.1641144	48.52616	.4826354	.3328914
Stddev	.0023512	.0001722	.0001275	.15484	.0005431	.0003124
%RSD	.3981730	.1359147	.0777086	.3190880	.1125381	.0938519
#1	.5928821	.1266491	.1641459	48.34782	.4821211	.3325576
#2	.5881804	.1265882	.1639741	48.60431	.4832034	.3329398
#3	.5904558	.1269122	.1642232	48.62636	.4825818	.3331768

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4848955	314.9856	4.905206	89.26349	.7242749	.0531550
Stddev	.0006978	1.6905	.012419	.41417	.0004409	.0004040
%RSD	.1439008	.5366875	.2531754	.4639887	.0608688	.7600711
#1	.4850807	313.2810	4.898706	88.88730	.7238620	.0526935
#2	.4841238	316.6616	4.897386	89.19585	.7242236	.0534444
#3	.4854820	315.0143	4.919525	89.70732	.7247392	.0533272

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.53617	.4851836	.8024950	28.88330	.3761516	.3348684
Stddev	.04838	.0020666	.0019586	.04466	.0024455	.0006582
%RSD	.2609791	.4259360	.2440682	.1546393	.6501413	.1965600
#1	18.57283	.4848679	.8043307	28.93070	.3742768	.3348169
#2	18.48134	.4832931	.8027213	28.84199	.3789178	.3342375
#3	18.55435	.4873899	.8004331	28.87722	.3752603	.3355509

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03MSD Acquired: 10/24/2024 14:32:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6656010	3.303989	F 14.61443	F 11.50330	5.495124	.3536725
Stddev	.0024801	.002575	.07994	.04280	.009752	.0029330
%RSD	.3726079	.0779242	.5470191	.3720796	.1774610	.8292953
#1	.6629005	3.305883	14.52364	11.47918	5.487312	.3569022
#2	.6677768	3.301057	14.67426	11.47800	5.506053	.3511750
#3	.6661256	3.305027	14.64540	11.55272	5.492006	.3529401

Elem	Sr4077
Units	ppm
Avg	-.029255
Stddev	.002431
%RSD	8.309580
#1	-.026893
#2	-.031749
#3	-.029124

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3159.226	70033.77	16510.94	2314.333	3796.525
Stddev	3.370	120.67	15.88	9.197	6.236
%RSD	.1066717	.1723042	.0961995	.3974117	.1642428
#1	3158.261	70088.11	16493.16	2303.941	3796.265
#2	3156.445	69895.48	16523.74	2317.635	3790.423
#3	3162.974	70117.72	16515.92	2321.424	3802.886

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03A Acquired: 10/24/2024 14:36:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5739034	1.550515	.9461767	1.273659	.6395262	131.8944
Stddev	.0025132	.031131	.0029204	.002809	.0040091	.1578
%RSD	.4379179	2.007812	.3086483	.2205676	.6268851	.1196403
#1	.5736945	1.521676	.9463249	1.275626	.6434166	131.8499
#2	.5715012	1.546348	.9431850	1.274910	.6397539	131.7636
#3	.5765146	1.583520	.9490201	1.270442	.6354081	132.0697

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5960865	.1381465	.1782396	49.31911	.5128867	.3488890
Stddev	.0005358	.0004580	.0001522	.10028	.0022609	.0006227
%RSD	.0898801	.3315543	.0853863	.2033273	.4408276	.1784804
#1	.5955616	.1385318	.1782943	49.24236	.5113901	.3495994
#2	.5960656	.1376401	.1780676	49.28241	.5154876	.3484375
#3	.5966325	.1382675	.1783569	49.43258	.5117824	.3486302

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5115706	324.0253	4.886153	88.88969	.7679559	.0608664
Stddev	.0012623	.4976	.010763	.14769	.0007215	.0002439
%RSD	.2467444	.1535548	.2202688	.1661547	.0939553	.4006782
#1	.5116978	323.4606	4.877014	88.73555	.7673346	.0610928
#2	.5102496	324.2162	4.883429	88.90354	.7677857	.0606082
#3	.5127645	324.3992	4.898016	89.02997	.7687473	.0608983

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.47839	.5038763	.8877599	30.43592	.4271220	.3359326
Stddev	.06442	.0021425	.0044297	.12869	.0004882	.0010115
%RSD	.3307177	.4252016	.4989720	.4228118	.1142887	.3011000
#1	19.43923	.5063494	.8922290	30.33924	.4268039	.3365134
#2	19.55274	.5025813	.8833708	30.58199	.4276840	.3347647
#3	19.44319	.5026983	.8876798	30.38655	.4268779	.3365198

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-03A Acquired: 10/24/2024 14:36:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6664600	3.290671	F 14.96925	F 12.06823	5.614681	.3657704
Stddev	.0033251	.005900	.07550	.02851	.021912	.0006235
%RSD	.4989210	.1793019	.5043720	.2362566	.3902667	.1704749
#1	.6652073	3.290227	14.94902	12.06278	5.603312	.3650611
#2	.6639432	3.285005	15.05280	12.04284	5.600790	.3660182
#3	.6702295	3.296780	14.90592	12.09907	5.639941	.3662319

Elem	Sr4077
Units	ppm
Avg	-.024997
Stddev	.000615
%RSD	2.460259
#1	-.024349
#2	-.025573
#3	-.025068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3142.496	67730.52	16524.00	2248.805	3791.381
Stddev	10.427	139.71	31.94	10.712	10.586
%RSD	.3318165	.2062746	.1932664	.4763238	.2792239
#1	3130.550	67751.57	16493.14	2240.921	3779.428
#2	3147.164	67581.48	16556.91	2261.000	3795.143
#3	3149.773	67858.51	16521.96	2244.492	3799.574

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4473-01 Acquired: 10/24/2024 14:40:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0164497	-.009496	.1087325	-.015571	.0024168	60.87541
Stddev	.0017883	.002235	.0002110	.000910	.0019378	.19323
%RSD	10.87105	23.53397	.1940927	5.841107	80.18229	.3174213
#1	.0180441	-.008406	.1088278	-.015754	.0023258	61.08054
#2	.0167889	-.012066	.1088791	-.016376	.0043985	60.84885
#3	.0145161	-.008015	.1084906	-.014584	.0005261	60.69682

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9743337	.0046353	.0065766	363.6093	.2161500	.0727649
Stddev	.0039170	.0000855	.0002438	.5301	.0008869	.0002094
%RSD	.4020205	1.843519	3.706719	.1457825	.4103281	.2878144
#1	.9782508	.0045390	.0068575	364.0552	.2161589	.0725231
#2	.9743336	.0046648	.0064525	363.0232	.2152587	.0728878
#3	.9704168	.0047022	.0064199	363.7495	.2170325	.0728839

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038843	117.5475	5.776920	79.99565	.2118926	.0028827
Stddev	.002822	.3566	.014455	.58444	.0010268	.0001443
%RSD	.2716461	.3033410	.2502252	.7305844	.4846005	5.006742
#1	1.042093	117.4799	5.763050	79.34073	.2115390	.0028888
#2	1.037418	117.9330	5.791897	80.18210	.2110893	.0030238
#3	1.037018	117.2295	5.775813	80.46411	.2130495	.0027354

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.91272	.1875052	1.804388	150.8085	.3348511	.0267094
Stddev	.06615	.0014033	.006198	.7122	.0003237	.0003151
%RSD	.3911136	.7484186	.3435039	.4722277	.0966795	1.179639
#1	16.97886	.1861312	1.810043	151.5527	.3350734	.0268408
#2	16.91274	.1889361	1.805359	150.7394	.3344797	.0263499
#3	16.84656	.1874482	1.797761	150.1334	.3350003	.0269376

Sample Name: P4473-01 Acquired: 10/24/2024 14:40:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0053695	4.127272	F 16.11022	F 50.13232	F 114.2922	.1160323
Stddev	.0016433	.009586	.01091	.12087	.6882	.0007272
%RSD	30.60358	.2322582	.0677470	.2410986	.6021438	.6267461
#1	.0068366	4.133526	16.11199	49.99383	115.0869	.1158512
#2	.0035939	4.132054	16.12014	50.18660	113.8966	.1154128
#3	.0056781	4.116236	16.09852	50.21653	113.8931	.1168330

Elem	Sr4077
Units	ppm
Avg	.8275072
Stddev	.0086457
%RSD	1.044789
#1	.8368165
#2	.8259753
#3	.8197299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2702.357	58339.71	14662.26	1941.212	3573.236
Stddev	14.968	251.51	31.34	15.820	9.577
%RSD	.5538969	.4311179	.2137226	.8149500	.2680125
#1	2686.355	58092.30	14630.24	1925.210	3563.180
#2	2704.702	58331.72	14663.69	1941.583	3574.281
#3	2716.015	58595.13	14692.87	1956.843	3582.248

Sample Name: P4474-01 Acquired: 10/24/2024 14:44:44 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0208811	-.012653	.1100571	-.019571	.0025941	63.81740
Stddev	.0013928	.000950	.0015674	.002987	.0016607	.09118
%RSD	6.670398	7.510250	1.424143	15.26377	64.01654	.1428768
#1	.0224089	-.013374	.1098553	-.016164	.0023285	63.73794
#2	.0196820	-.013008	.1117156	-.021742	.0043716	63.91695
#3	.0205525	-.011576	.1086004	-.020806	.0010823	63.79732

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9884928	.0053649	.0076792	438.1525	.2396820	.0866250
Stddev	.0030345	.0000233	.0001915	3.0633	.0021187	.0002264
%RSD	.3069798	.4346006	2.493439	.6991507	.8839567	.2613870
#1	.9902968	.0053384	.0077135	435.5625	.2372851	.0868860
#2	.9901923	.0053822	.0078512	437.3611	.2413045	.0864805
#3	.9849895	.0053741	.0074729	441.5339	.2404566	.0865087

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062810	132.6993	6.393800	100.8918	.5272818	.0027262
Stddev	.002567	.8556	.049516	1.1173	.0023751	.0003862
%RSD	.2415605	.6447285	.7744432	1.107426	.4504489	14.16580
#1	1.064505	131.8622	6.339894	99.6818	.5294832	.0022810
#2	1.064068	132.6634	6.404247	101.1090	.5275976	.0029713
#3	1.059856	133.5722	6.437259	101.8845	.5247645	.0029262

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.05754	.2093744	1.760367	159.0203	.3360184	.0257193
Stddev	.10475	.0010863	.011880	.5624	.0010315	.0004374
%RSD	.6141191	.5188442	.6748442	.3536353	.3069657	1.700537
#1	17.17420	.2083645	1.773122	159.6168	.3352473	.0261498
#2	17.02688	.2092352	1.749618	158.9443	.3356179	.0252754
#3	16.97153	.2105237	1.758360	158.4998	.3371901	.0257327

Sample Name: P4474-01 Acquired: 10/24/2024 14:44:44 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0065594	4.493165	F 21.97816	F 52.26762	F 117.1160	.1379230
Stddev	.0011935	.018055	.06568	.08443	.2031	.0006360
%RSD	18.19461	.4018334	.2988416	.1615358	.1733899	.4611387
#1	.0072598	4.472331	21.90371	52.34320	117.2160	.1386571
#2	.0072371	4.502921	22.00287	52.28316	117.2497	.1375368
#3	.0051814	4.504243	22.02790	52.17649	116.8823	.1375751

Elem	Sr4077
Units	ppm
Avg	.9092430
Stddev	.0122265
%RSD	1.344687
#1	.8995087
#2	.9229656
#3	.9052547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2690.167	57526.46	14573.28	1919.755	3464.121
Stddev	5.946	87.21	42.37	23.030	8.957
%RSD	.2210157	.1516046	.2907363	1.199645	.2585764
#1	2692.612	57426.74	14620.33	1893.999	3457.538
#2	2683.389	57564.13	14538.14	1938.365	3460.504
#3	2694.501	57588.50	14561.37	1926.901	3474.322

Sample Name: P4486-01 Acquired: 10/24/2024 14:49:06 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0187457	-.003133	.2696432	-.014808	.0022253	46.63080	.2527971
Stddev	.0012654	.002474	.0005870	.001237	.0017308	.10087	.0008531
%RSD	6.750441	78.96469	.2177102	8.354454	77.77673	.2163266	.3374552
#1	.0175753	-.001027	.2690041	-.014380	.0041995	46.67421	.2522125
#2	.0200885	-.002515	.2697673	-.013841	.0009687	46.70270	.2537760
#3	.0185735	-.005858	.2701583	-.016202	.0015078	46.51549	.2524027

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029921	.0026453	62.64060	.0659493	.0459244	.1543843	77.70254
Stddev	.0000356	.0002260	.10544	.0006201	.0002730	.0006158	.20616
%RSD	1.189460	8.545013	.1683215	.9403293	.5945062	.3988931	.2653163
#1	.0030313	.0028801	62.68440	.0661272	.0457062	.1545629	77.47269
#2	.0029617	.0024292	62.71708	.0652596	.0458364	.1536989	77.76384
#3	.0029835	.0026266	62.52032	.0664610	.0462306	.1548911	77.87110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.139357	12.71942	.0709024	.0011415	6.211213	.0902864	.3263068
Stddev	.007223	.03032	.0001312	.0000757	.031398	.0011089	.0016823
%RSD	.2300688	.2384066	.1850553	6.630408	.5055104	1.228168	.5155612
#1	3.137258	12.70710	.0710447	.0012082	6.176112	.0896080	.3277069
#2	3.147397	12.75396	.0707861	.0010592	6.236622	.0915660	.3267729
#3	3.133417	12.69719	.0708764	.0011570	6.220906	.0896852	.3244406

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.519846	.0552889	.0039989	.0117363	1.497058	8.809712	4.046194
Stddev	.017294	.0001561	.0000977	.0005135	.007509	.009446	.016721
%RSD	.3133041	.2823662	2.442797	4.375603	.5015554	.1072197	.4132419
#1	5.508700	.0551289	.0038999	.0123202	1.499682	8.798938	4.026982
#2	5.511069	.0552969	.0040952	.0113550	1.502902	8.813628	4.054139
#3	5.539768	.0554408	.0040016	.0115336	1.488589	8.816570	4.057460

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01 Acquired: 10/24/2024 14:49:06 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.687432	.0434965	.3464205
Stddev	.002905	.0000561	.0014977
%RSD	.1081074	.1290490	.4323274
#1	2.688906	.0435252	.3464788
#2	2.684085	.0434318	.3478882
#3	2.689305	.0435325	.3448945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3084.435	64757.71	15780.10	2170.823	4138.798
Stddev	16.259	61.16	51.76	5.700	11.851
%RSD	.5271311	.0944517	.3279799	.2625503	.2863411
#1	3065.830	64782.38	15742.07	2167.116	4125.197
#2	3091.558	64802.68	15759.19	2167.968	4144.292
#3	3095.916	64688.06	15839.04	2177.386	4146.905

Sample Name: CCV02 Acquired: 10/24/2024 14:53:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.890585	4.800669	4.857369	4.953841	4.946347	9.759524	9.452206
Stddev	.033321	.114113	.022165	.025193	.019982	.011103	.099896
%RSD	.6813388	2.377019	.4563257	.5085642	.4039721	.1137692	1.056857
#1	4.852175	4.685054	4.834365	4.925702	4.925751	9.747406	9.444342
#2	4.907844	4.913218	4.859154	4.974304	4.947637	9.769209	9.356475
#3	4.911738	4.803734	4.878587	4.961517	4.965652	9.761958	9.555803

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2342102	2.412096	23.88401	.9588937	2.424567	1.239561	4.968722
Stddev	.0015948	.008203	.09032	.0049081	.008587	.005089	.024240
%RSD	.6809235	.3400917	.3781738	.5118496	.3541691	.4105403	.4878529
#1	.2359350	2.403802	23.94332	.9641567	2.416241	1.234179	4.951741
#2	.2339065	2.412282	23.92865	.9580826	2.424066	1.240207	4.996482
#3	.2327891	2.420205	23.78006	.9544416	2.433393	1.244295	4.957944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.339346	25.60867	2.430036	1.240020	24.60163	2.316598	2.511801
Stddev	.004214	.11636	.008964	.004187	.10626	.003649	.008143
%RSD	.1801369	.4543665	.3688838	.3376231	.4319173	.1575231	.3241812
#1	2.341954	25.71775	2.421171	1.241368	24.47960	2.318640	2.512976
#2	2.341601	25.62205	2.429842	1.243367	24.67365	2.312385	2.519293
#3	2.334485	25.48620	2.439096	1.235326	24.65166	2.318769	2.503135

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.96665	4.663684	4.952205	4.839501	4.739854	5.112958	4.954162
Stddev	.14399	.027770	.021323	.018438	.007365	.029110	.023471
%RSD	.5767269	.5954489	.4305824	.3809950	.1553759	.5693346	.4737629
#1	24.80098	4.695748	4.927979	4.818577	4.731451	5.088180	4.936712
#2	25.06165	4.647880	4.960509	4.853369	4.742928	5.145017	4.944927
#3	25.03733	4.647422	4.968127	4.846558	4.745184	5.105678	4.980845

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV02 Acquired: 10/24/2024 14:53:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.707406	4.598822	4.844928
Stddev	.032678	.025041	.045218
%RSD	.6941741	.5445192	.9333022
#1	4.672192	4.579451	4.808162
#2	4.736753	4.589916	4.831203
#3	4.713273	4.627099	4.895418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.110	58767.88	13059.81	1951.263	4104.647
Stddev	14.979	137.95	15.33	11.379	21.903
%RSD	.5484674	.2347424	.1173449	.5831712	.5336128
#1	2747.075	58894.85	13045.62	1963.139	4127.999
#2	2728.889	58621.09	13076.06	1940.456	4101.381
#3	2717.365	58787.71	13057.75	1950.194	4084.560

Sample Name: CCB02 Acquired: 10/24/2024 14:57:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0003843	.0011833	-.000141	.0010796	.0013184	-.004649	-.002499
Stddev	.0014642	.0003836	.000145	.0004404	.0006814	.002940	.000489
%RSD	380.9990	32.42204	103.0361	40.78713	51.68411	63.23492	19.57922
#1	.0010904	.0012816	-.000035	.0007657	.0010438	-.003000	-.001935
#2	-.001299	.0015083	-.000306	.0008902	.0020943	-.002905	-.002801
#3	.001362	.0007601	-.000081	.0015830	.0008172	-.008044	-.002762

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000028	.0000654	.0066779	.0001019	.0003178	.0000528	.0007950
Stddev	.0000308	.0000249	.0041737	.0004962	.0001089	.0002777	.0032093
%RSD	1083.433	38.06020	62.49970	486.9367	34.27012	525.9133	403.6864
#1	.0000357	.0000367	.0018687	.0002566	.0004331	.0000201	-.002629
#2	-.000025	.0000812	.0093528	-.000453	.0002167	.0003454	.001278
#3	-.000002	.0000782	.0088121	.000502	.0003035	-.000207	.003735

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002533	-.006465	.0000282	.0004111	-.030010	-.002070	.0004372
Stddev	.0001727	.009234	.0000702	.0001692	.001484	.001184	.0000266
%RSD	68.18423	142.8199	249.1953	41.14969	4.944175	57.21406	6.074105
#1	.0002525	-.009904	.0001092	.0002158	-.028915	-.000723	.0004451
#2	.0000810	.003994	-.000015	.0005076	-.031699	-.002537	.0004076
#3	.0004263	-.013487	-.000010	.0005100	-.029416	-.002950	.0004590

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236131	.0028105	.0004197	-.000158	-.000241	.0068006	.0021038
Stddev	.0076807	.0003595	.0002351	.000061	.000295	.0068028	.0021196
%RSD	32.52727	12.79090	56.01586	38.78345	122.0817	100.0318	100.7483
#1	.0299124	.0025839	.0006572	-.000228	-.000435	.0033020	.0045220
#2	.0150568	.0032250	.0001871	-.000124	-.000386	.0146407	.0012218
#3	.0258703	.0026227	.0004148	-.000121	.000098	.0024592	.0005676

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB02 Acquired: 10/24/2024 14:57:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001026	.0004150	.0000954
Stddev	.001512	.0018875	.0000356
%RSD	147.3554	454.8049	37.30585
#1	-.002739	-.000703	.0000665
#2	.000121	-.000646	.0000844
#3	-.000460	.002594	.0001351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2843.760	59863.89	13826.94	2004.527	4600.515
Stddev	14.069	127.05	458.72	1.921	21.898
%RSD	.4947277	.2122287	3.317572	.0958151	.4759846
#1	2827.551	59990.47	14356.30	2005.067	4575.237
#2	2850.929	59864.83	13578.28	2006.119	4613.661
#3	2852.801	59736.38	13546.24	2002.394	4612.648

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4489-01 Acquired: 10/24/2024 15:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5072362	-.028714	.4534052	-.043996	.0014848	165.1214
Stddev	.0034627	.002814	.0022784	.001882	.0018218	.9213
%RSD	.6826545	9.801221	.5024972	4.276907	122.6970	.5579793
#1	.5081802	-.029622	.4528653	-.046169	-.000449	164.0576
#2	.5033994	-.025558	.4559050	-.042916	.003169	165.6424
#3	.5101290	-.030963	.4514454	-.042903	.001734	165.6642

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.392390	.0215435	.0269232	316.5715	.3843317	.1874362
Stddev	.005170	.0003148	.0001703	1.1783	.0010688	.0004982
%RSD	.2161094	1.461210	.6324763	.3722042	.2780968	.2658106
#1	2.386555	.0213646	.0269025	315.7582	.3833283	.1873551
#2	2.396400	.0219069	.0267642	316.0336	.3854557	.1869836
#3	2.394216	.0213588	.0271029	317.9228	.3842111	.1879701

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4858529	227.8439	4.252933	197.4008	.4397368	.0061863
Stddev	.0004030	1.1203	.024076	1.3778	.0008945	.0005272
%RSD	.0829540	.4916812	.5660985	.6979588	.2034073	8.522391
#1	.4862471	226.7580	4.225139	195.8184	.4387455	.0056402
#2	.4858701	227.7779	4.266294	198.0499	.4404835	.0062263
#3	.4854415	228.9957	4.267365	198.3341	.4399812	.0066924

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.922065	.8030096	2.630319	46.41610	.3915437	.0132111
Stddev	.034863	.0013558	.007527	.16971	.0019215	.0002331
%RSD	.5886967	.1688433	.2861735	.3656346	.4907524	1.764547
#1	5.905594	.8014471	2.638675	46.31520	.3895410	.0132192
#2	5.898490	.8037055	2.628214	46.32106	.3917178	.0134401
#3	5.962112	.8038762	2.624069	46.61204	.3933722	.0129741

Sample Name: P4489-01 Acquired: 10/24/2024 15:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0269792	9.106938	F 24.29343	F 13.79658	4.006258	.2647796
Stddev	.0010362	.042106	.12604	.05318	.012523	.0011964
%RSD	3.840639	.4623547	.5188273	.3854413	.3125966	.4518546
#1	.0258656	9.058358	24.16003	13.75808	4.014564	.2657143
#2	.0271568	9.129504	24.30975	13.77440	4.012356	.2634312
#3	.0279150	9.132951	24.41052	13.85726	3.991853	.2651932

Elem	Sr4077
Units	ppm
Avg	1.331774
Stddev	.008617
%RSD	.6469974
#1	1.322377
#2	1.339303
#3	1.333643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2945.465	65123.12	16783.14	2146.425	3378.610
Stddev	10.792	182.18	23.23	18.749	10.109
%RSD	.3663854	.2797419	.1383995	.8735175	.2992138
#1	2957.924	65042.59	16809.40	2126.534	3390.278
#2	2939.422	65331.68	16765.28	2163.774	3372.461
#3	2939.049	64995.08	16774.74	2148.966	3373.092

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV03 Acquired: 10/24/2024 15:06:17 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.876245	4.884737	4.834459	4.951618	4.932644	9.498143	9.312046
Stddev	.020667	.072669	.017001	.028748	.026562	.176640	.074253
%RSD	.4238315	1.487678	.3516567	.5805718	.5384999	1.859734	.7973870
#1	4.852484	4.912253	4.815605	4.921267	4.902151	9.294407	9.244052
#2	4.890050	4.939630	4.839148	4.978435	4.945021	9.608404	9.391277
#3	4.886200	4.802328	4.848622	4.955153	4.950758	9.591617	9.300810

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2279434	2.401783	23.25046	.9614342	2.411172	1.231799	5.028582
Stddev	.0033234	.011143	.39404	.0048133	.011201	.006957	.030280
%RSD	1.457970	.4639465	1.694753	.5006400	.4645619	.5647887	.6021601
#1	.2241232	2.389624	22.80607	.9591296	2.399048	1.224414	5.016140
#2	.2301678	2.404218	23.55722	.9669665	2.413333	1.232753	5.063101
#3	.2295394	2.411507	23.38810	.9582064	2.421136	1.238230	5.006504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.282624	25.09350	2.419612	1.243054	25.17233	2.272114	2.508265
Stddev	.031059	.20949	.011526	.006100	.06217	.024822	.016449
%RSD	1.360676	.8348230	.4763466	.4907389	.2469647	1.092445	.6558080
#1	2.247462	24.85169	2.406809	1.240751	25.18537	2.244923	2.496562
#2	2.306321	25.22007	2.422868	1.249970	25.22694	2.293559	2.527073
#3	2.294089	25.20873	2.429160	1.238441	25.10467	2.277861	2.501160

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.41440	4.528627	4.942110	4.818695	4.628530	5.169488	4.915900
Stddev	.14181	.060583	.022289	.014979	.074138	.044047	.024519
%RSD	.5579889	1.337777	.4510034	.3108565	1.601764	.8520495	.4987722
#1	25.39225	4.459339	4.916658	4.801481	4.543811	5.123151	4.891768
#2	25.56599	4.571618	4.951529	4.828762	4.681541	5.210816	4.915142
#3	25.28497	4.554924	4.958144	4.825843	4.660239	5.174496	4.940789

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV03 Acquired: 10/24/2024 15:06:17 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.695306	4.544754	4.745076
Stddev	.014649	.052275	.044763
%RSD	.3119987	1.150228	.9433558
#1	4.682571	4.485272	4.700881
#2	4.711316	4.583390	4.743962
#3	4.692031	4.565599	4.790386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2745.835	58002.13	13397.03	1958.441	4127.828
Stddev	13.196	286.66	155.39	14.994	18.550
%RSD	.4805845	.4942159	1.159890	.7656004	.4493991
#1	2759.801	57917.49	13572.17	1961.174	4147.280
#2	2744.129	57767.32	13275.67	1942.269	4125.870
#3	2733.575	58321.57	13343.26	1971.881	4110.335

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB03 Acquired: 10/24/2024 15:12:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0001373	.0011756	.0002335	-.000239	.0014351	.0009035	-.001762
Stddev	.0002087	.0015116	.0002140	.000553	.0002750	.0023335	.000435
%RSD	152.0508	128.5817	91.63648	231.1846	19.16473	258.2642	24.66516
#1	.0000659	-.000427	.0000183	-.000782	.0011452	.0034244	-.001515
#2	-.000026	.002575	.0004462	.000324	.0014676	.0004671	-.002264
#3	.000372	.001379	.0002359	-.000260	.0016923	-.001181	-.001508

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000433	.0001382	.0073901	.0004641	.0001676	.0000691	.0009565
Stddev	.0000339	.0000337	.0011244	.0002822	.0001768	.0002334	.0034427
%RSD	78.25414	24.41859	15.21444	60.80628	105.4911	337.9086	359.9107
#1	.0000515	.0001768	.0071803	.0007628	.0002418	.0002974	-.001108
#2	.0000722	.0001146	.0086046	.0002019	.0002952	.0000789	.004931
#3	.0000060	.0001232	.0063854	.0004276	-.000034	-.000169	-.000953

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001205	.0025554	-.000028	.0002238	-.030384	-.002347	.0004570
Stddev	.0000276	.0100166	.000151	.0003436	.007493	.000445	.0000475
%RSD	22.91413	391.9809	534.8581	153.5317	24.66127	18.95833	10.40526
#1	.0000890	.0056734	.000001	.0003946	-.037837	-.002183	.0004439
#2	.0001319	-.008649	.000106	-.000172	-.030462	-.002007	.0005097
#3	.0001405	.010642	-.000192	.000448	-.022852	-.002850	.0004173

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088576	.0027142	.0001513	-.000046	-.000022	.0033234	.0002028
Stddev	.0097773	.0005248	.0001573	.000728	.000338	.0017592	.0002555
%RSD	110.3837	19.33435	103.9479	1570.714	1526.766	52.93351	126.0108
#1	.0014803	.0027156	.0000627	-.000886	-.000386	.0052100	.0004978
#2	.0051451	.0021887	.0000583	.000407	.000039	.0030324	.0000498
#3	.0199474	.0032382	.0003329	.000341	.000281	.0017279	.0000607

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB03 Acquired: 10/24/2024 15:12:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001411	-.000045	.0000669
Stddev	.002601	.000673	.0000177
%RSD	184.3880	1487.519	26.49308
#1	.001584	-.000454	.0000589
#2	-.003104	.000731	.0000545
#3	-.002712	-.000412	.0000872

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2843.261	60964.74	14245.52	2065.491	4587.347
Stddev	9.895	116.49	156.53	7.297	9.352
%RSD	.3480181	.1910798	1.098788	.3532941	.2038575
#1	2834.443	60830.23	14402.39	2060.069	4577.585
#2	2853.963	61032.72	14244.82	2073.788	4596.225
#3	2841.378	61031.27	14089.34	2062.617	4588.230

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-01 Acquired: 10/24/2024 15:16:58 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0103636	-.013529	.0872365	-.015497	-.002557	99.96761
Stddev	.0028065	.002673	.0010023	.001991	.000910	.25103
%RSD	27.08035	19.75491	1.148913	12.85113	35.61262	.2511109
#1	.0073275	-.011477	.0881989	-.017741	-.002443	99.70034
#2	.0128630	-.012559	.0861986	-.014809	-.001708	100.0041
#3	.0109004	-.016551	.0873121	-.013940	-.003518	100.1984

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5122037	.0461236	.0148267	69.29598	.3809002	.2668543
Stddev	.0031959	.0001953	.0001913	.39867	.0008208	.0003168
%RSD	.6239472	.4233907	1.290016	.5753088	.2154945	.1187307
#1	.5155586	.0462364	.0149689	68.94124	.3799984	.2670212
#2	.5091951	.0458981	.0146093	69.21927	.3810986	.2664889
#3	.5118573	.0462363	.0149020	69.72742	.3816036	.2670528

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397097	92.99125	1.787362	107.2848	.2668847	.0010729
Stddev	.0006527	.46030	.008428	.7067	.0003263	.0001788
%RSD	1.643773	.4949904	.4715296	.6586786	.1222809	16.66215
#1	.0404112	92.57014	1.786227	107.2003	.2672104	.0011413
#2	.0395977	92.92095	1.779559	106.6242	.2668860	.0008700
#3	.0391203	93.48265	1.796300	108.0299	.2665577	.0012073

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.570250	.3924345	.3852959	19.20806	.0709652	.0011581
Stddev	.018362	.0028690	.0006953	.02126	.0007346	.0001528
%RSD	.4017831	.7310867	.1804526	.1107060	1.035164	13.19697
#1	4.587192	.3929417	.3855381	19.18391	.0704639	.0012474
#2	4.550738	.3893457	.3858377	19.22400	.0706234	.0009817
#3	4.572819	.3950161	.3845119	19.21626	.0718085	.0012454

Sample Name: P4485-01 Acquired: 10/24/2024 15:16:58 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0023901	1.270482	4.584365	F 32.05082	.8174810	.0532662
Stddev	.0014674	.003750	.038573	.12403	.0043068	.0004006
%RSD	61.39513	.2951942	.8413991	.3869814	.5268366	.7521109
#1	.0024279	1.269285	4.540480	32.03530	.8165371	.0534542
#2	.0009041	1.267476	4.612899	31.93528	.8137245	.0528062
#3	.0038382	1.274685	4.599715	32.18188	.8221815	.0535383

Elem	Sr4077
Units	ppm
Avg	.1728484
Stddev	.0013858
%RSD	.8017656
#1	.1744138
#2	.1717782
#3	.1723531

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.563	79343.95	19607.49	2628.565	3742.426
Stddev	7.020	81.56	42.71	.872	5.687
%RSD	.1908897	.1027955	.2178382	.0331638	.1519717
#1	3670.500	79410.80	19567.97	2629.280	3737.772
#2	3677.649	79253.07	19652.80	2627.594	3748.766
#3	3684.540	79367.97	19601.68	2628.820	3740.739

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01DUP Acquired: 10/24/2024 15:21:03 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0197555	-.004987	.2736515	-.013188	.0020717	47.34668	.2586541
Stddev	.0017000	.002197	.0016764	.001617	.0002832	.14174	.0013769
%RSD	8.605402	44.05223	.6126151	12.26480	13.67096	.2993756	.5323168
#1	.0197652	-.005038	.2733381	-.014705	.0017472	47.18515	.2570677
#2	.0180507	-.002765	.2721538	-.011486	.0021985	47.40460	.2595385
#3	.0214507	-.007157	.2754624	-.013372	.0022693	47.45029	.2593560

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030801	.0029140	63.80025	.0663500	.0467327	.1597502	77.32745
Stddev	.0000215	.0001000	.14228	.0004862	.0002216	.0010711	.15507
%RSD	.6964695	3.429962	.2230099	.7327906	.4741027	.6705103	.2005329
#1	.0030704	.0030272	63.63685	.0666030	.0464979	.1587200	77.15194
#2	.0030652	.0028769	63.89677	.0657894	.0469380	.1596725	77.38449
#3	.0031047	.0028379	63.86713	.0666575	.0467624	.1608581	77.44592

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.188473	11.49016	.0721498	.0009869	6.239273	.0918561	.3265397
Stddev	.008018	.04303	.0001653	.0003351	.024614	.0004811	.0016784
%RSD	.2514680	.3744843	.2291121	33.95262	.3945066	.5237485	.5139845
#1	3.179492	11.44398	.0720277	.0006251	6.217009	.0923028	.3257034
#2	3.191014	11.52912	.0720838	.0012865	6.265705	.0919188	.3254438
#3	3.194912	11.49739	.0723379	.0010492	6.235105	.0913467	.3284719

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.448282	.0551790	.0041613	.0113645	1.523001	8.773682	4.129815
Stddev	.018269	.0002686	.0000533	.0009901	.006332	.008872	.005566
%RSD	.3353134	.4868298	1.280020	8.712055	.4157399	.1011256	.1347866
#1	5.427897	.0548897	.0040998	.0110140	1.515703	8.764795	4.136016
#2	5.463174	.0554206	.0041911	.0105974	1.527024	8.773713	4.128179
#3	5.453776	.0552267	.0041930	.0124822	1.526277	8.782539	4.125250

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01DUP Acquired: 10/24/2024 15:21:03 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.716717	.0443548	.3545793
Stddev	.015790	.0011589	.0017094
%RSD	.5812061	2.612730	.4820803
#1	2.734716	.0451223	.3526144
#2	2.710231	.0430218	.3557238
#3	2.705202	.0449204	.3553997

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.243	65378.14	15630.41	2176.247	4047.207
Stddev	1.750	19.86	11.47	10.409	.768
%RSD	.0579958	.0303747	.0734066	.4783166	.0189679
#1	3018.034	65359.01	15629.20	2167.291	4048.082
#2	3015.237	65376.75	15619.60	2187.667	4046.896
#3	3018.458	65398.66	15642.45	2173.782	4046.644

Sample Name: P4486-01LX5 Acquired: 10/24/2024 15:25:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0027988	.0001020	.0583870	-.002305	.0007001	10.79516	.0583358
Stddev	.0012817	.0006000	.0003968	.000798	.0007661	.06121	.0001900
%RSD	45.79524	588.3185	.6795826	34.64820	109.4146	.5670135	.3257366
#1	.0016949	-.000404	.0581961	-.002530	-.000183	10.74559	.0582119
#2	.0042045	-.000055	.0581218	-.002966	.001093	10.77630	.0582409
#3	.0024971	.000765	.0588431	-.001417	.001190	10.86358	.0585546

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007490	.0003450	14.77684	.0154744	.0095374	.0375574	17.58963
Stddev	.0000552	.0000307	.12000	.0002613	.0002549	.0004416	.08076
%RSD	7.374215	8.905334	.8121103	1.688481	2.672288	1.175884	.4591150
#1	.0007287	.0003297	14.67999	.0151758	.0095784	.0370492	17.52304
#2	.0008115	.0003249	14.73944	.0156609	.0097694	.0377759	17.56640
#3	.0007068	.0003804	14.91109	.0155866	.0092646	.0378473	17.67946

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7504279	2.690322	.0146001	.0003202	1.357409	.0199658	.0750322
Stddev	.0038824	.011520	.0001315	.0002468	.007632	.0014973	.0002768
%RSD	.5173521	.4282027	.9009133	77.05716	.5622713	7.499439	.3689640
#1	.7464500	2.693126	.0146803	.0000412	1.360106	.0187044	.0748423
#2	.7506265	2.677659	.0146716	.0004096	1.348794	.0195724	.0753498
#3	.7542071	2.700181	.0144483	.0005098	1.363326	.0216205	.0749043

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.204053	.0118997	.0006671	.0003796	.3509109	1.930123	.8245429
Stddev	.014363	.0006438	.0002000	.0007030	.0022295	.011592	.0009404
%RSD	1.192921	5.409770	29.97857	185.1866	.6353541	.6005778	.1140491
#1	1.220328	.0112814	.0004616	.0011867	.3485078	1.916981	.8254146
#2	1.198680	.0118516	.0006788	-.000098	.3513127	1.938892	.8246679
#3	1.193150	.0125662	.0008610	.000050	.3529122	1.934497	.8235463

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01LX5 Acquired: 10/24/2024 15:25:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5371701	.0102552	.0812091
Stddev	.0031792	.0002015	.0004302
%RSD	.5918491	1.965091	.5297735
#1	.5386923	.0102738	.0807815
#2	.5335159	.0104467	.0812040
#3	.5393020	.0100450	.0816419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2870.448	62228.66	14387.55	2086.578	4411.650
Stddev	.956	72.34	32.46	.852	2.237
%RSD	.0333007	.1162500	.2255792	.0408396	.0507060
#1	2871.142	62280.62	14410.89	2087.438	4410.412
#2	2869.358	62259.32	14401.28	2086.563	4410.305
#3	2870.844	62146.04	14350.49	2085.734	4414.232

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01MS Acquired: 10/24/2024 15:29:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6803217	1.705997	1.163018	1.606739	.7058704	48.99942	.4179897
Stddev	.0020776	.005815	.002408	.003233	.0027685	.03735	.0018957
%RSD	.3053821	.3408537	.2070542	.2012284	.3922151	.0762201	.4535259
#1	.6794958	1.709931	1.165596	1.610431	.7090307	48.96659	.4201423
#2	.6787842	1.708743	1.162632	1.604415	.7047077	49.04005	.4172576
#3	.6826853	1.699318	1.160827	1.605370	.7038728	48.99161	.4165693

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1562006	.1831328	63.71883	.4068483	.2426724	.4187442	79.12072
Stddev	.0007562	.0002789	.15477	.0009505	.0006339	.0008327	.27653
%RSD	.4840982	.1522781	.2428997	.2336138	.2612301	.1988660	.3495045
#1	.1554870	.1833852	63.58252	.4057847	.2429442	.4195878	79.11416
#2	.1569932	.1831798	63.68688	.4076144	.2431251	.4187218	78.84752
#3	.1561216	.1828334	63.88708	.4071458	.2419479	.4179228	79.40047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.305827	12.79962	.5620012	.0682581	9.026341	.3277673	.5019031
Stddev	.002770	.03197	.0002498	.0001634	.063201	.0007195	.0009668
%RSD	.0837923	.2497992	.0444521	.2393634	.7001876	.2195068	.1926350
#1	3.308335	12.76800	.5621348	.0681411	9.096428	.3284938	.5009940
#2	3.302854	12.79891	.5617130	.0681884	9.008914	.3270550	.5017964
#3	3.306291	12.83194	.5621559	.0684448	8.973682	.3277530	.5029189

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76300	.2734712	.3715973	.6844774	1.668341	9.363981	9.763234
Stddev	.08281	.0009810	.0014875	.0049663	.001656	.010734	.018011
%RSD	.5609526	.3587216	.4003060	.7255548	.0992883	.1146297	.1844732
#1	14.85551	.2744438	.3731460	.6884193	1.670216	9.371838	9.783724
#2	14.73771	.2734877	.3714665	.6861135	1.667077	9.351751	9.756070
#3	14.69578	.2724820	.3701796	.6788995	1.667728	9.368355	9.749908

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01MS Acquired: 10/24/2024 15:29:28 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.659779	.2003276	.5257988
Stddev	.013980	.0019694	.0017898
%RSD	.5256146	.9830961	.3403994
#1	2.675903	.2025473	.5274231
#2	2.652403	.1996459	.5260933
#3	2.651032	.1987896	.5238799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2961.504	64325.96	15432.47	2138.325	3981.362
Stddev	16.721	204.36	52.46	13.580	23.264
%RSD	.5646250	.3176884	.3399416	.6350691	.5843269
#1	2948.388	64092.28	15394.78	2122.652	3962.671
#2	2955.791	64414.43	15410.23	2146.576	3973.998
#3	2980.333	64471.18	15492.38	2145.748	4007.417

Sample Name: P4486-01MSD Acquired: 10/24/2024 15:33:26 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6725820	1.724005	1.159294	1.592374	.7051486	48.75264	.4175983
Stddev	.0059697	.036540	.005171	.004448	.0022155	.09804	.0015071
%RSD	.8875772	2.119471	.4460456	.2793498	.3141875	.2010909	.3608910
#1	.6779863	1.748915	1.162396	1.596423	.7065255	48.83040	.4186153
#2	.6661742	1.741042	1.153325	1.593088	.7025929	48.64251	.4183126
#3	.6735856	1.682058	1.162162	1.587612	.7063274	48.78500	.4158668

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1556871	.1823543	64.09893	.4048433	.2418549	.4162387	78.46151
Stddev	.0007645	.0007081	.08573	.0020786	.0008715	.0020039	.38910
%RSD	.4910673	.3883286	.1337513	.5134430	.3603347	.4814191	.4959143
#1	.1559662	.1827956	64.04015	.4035264	.2419335	.4173999	78.01537
#2	.1548222	.1815375	64.05934	.4037639	.2409467	.4139249	78.73061
#3	.1562728	.1827298	64.19731	.4072396	.2426844	.4173914	78.63855

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.315049	12.87491	.5585762	.0673667	8.857037	.3290057	.4975256
Stddev	.001489	.07753	.0023036	.0002533	.033099	.0012371	.0026722
%RSD	.0449229	.6021437	.4124030	.3760041	.3737064	.3760102	.5370919
#1	3.314726	12.81417	.5596813	.0671211	8.839323	.3276297	.4974773
#2	3.316673	12.96223	.5559282	.0676270	8.895223	.3293614	.4948779
#3	3.313748	12.84832	.5601189	.0673518	8.836564	.3300260	.5002216

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.51584	.2710351	.3718037	.6857966	1.670253	9.281155	9.765622
Stddev	.05240	.0015335	.0012290	.0024241	.000214	.010621	.070523
%RSD	.3609855	.5657779	.3305393	.3534693	.0127843	.1144349	.7221595
#1	14.47518	.2698368	.3726942	.6873676	1.670459	9.269718	9.793016
#2	14.57498	.2705053	.3704016	.6830048	1.670033	9.283039	9.685512
#3	14.49737	.2727632	.3723153	.6870173	1.670267	9.290708	9.818338

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01MSD Acquired: 10/24/2024 15:33:26 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.648952	.1980320	.5228827
Stddev	.007892	.0020426	.0015291
%RSD	.2979461	1.031439	.2924419
#1	2.657461	.1975481	.5240149
#2	2.641871	.2002731	.5234899
#3	2.647524	.1962748	.5211432

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2990.591	65505.06	15516.31	2175.312	4021.267
Stddev	8.177	66.33	31.00	4.307	13.690
%RSD	.2734162	.1012605	.1997989	.1979817	.3404302
#1	2986.355	65580.97	15481.47	2171.335	4014.580
#2	3000.017	65475.94	15540.84	2179.886	4037.015
#3	2985.401	65458.28	15526.62	2174.716	4012.207

Sample Name: P4486-01A Acquired: 10/24/2024 15:37:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6659515	1.688415	1.145787	1.571254	.6884783	48.93536	.4155582
Stddev	.0010626	.050602	.003317	.005423	.0022350	.09679	.0016952
%RSD	.1595624	2.997000	.2894584	.3451312	.3246272	.1977871	.4079363
#1	.6648385	1.655656	1.142394	1.568670	.6901170	49.04703	.4174677
#2	.6660607	1.662893	1.145947	1.567606	.6859324	48.87568	.4149766
#3	.6669553	1.746695	1.149021	1.577485	.6893856	48.88336	.4142304

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1560829	.1796949	64.35550	.4064548	.2388763	.4124355	79.18249
Stddev	.0003061	.0002722	.18843	.0018315	.0003269	.0008622	.21785
%RSD	.1961159	.1514648	.2927992	.4505957	.1368463	.2090633	.2751288
#1	.1562740	.1794344	64.27945	.4056020	.2390855	.4117841	78.98415
#2	.1557298	.1796730	64.21698	.4085572	.2390439	.4121091	79.41566
#3	.1562448	.1799774	64.57007	.4052053	.2384997	.4134133	79.14765

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.313041	12.94972	.5530455	.0678438	8.943852	.3252155	.5007500
Stddev	.005973	.04307	.0003665	.0003025	.047893	.0021412	.0022819
%RSD	.1802742	.3325986	.0662714	.4458909	.5354872	.6584105	.4557029
#1	3.317251	12.94546	.5530465	.0676859	8.973005	.3236007	.5000303
#2	3.306205	12.90893	.5526785	.0681926	8.969973	.3244013	.5033050
#3	3.315667	12.99476	.5534115	.0676529	8.888578	.3276444	.4989146

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.63399	.2720621	.3650821	.6704035	1.667384	9.430391	9.684328
Stddev	.08048	.0008491	.0010447	.0023416	.005278	.024377	.031904
%RSD	.5499609	.3120832	.2861455	.3492827	.3165383	.2584965	.3294382
#1	14.65974	.2729995	.3640534	.6687118	1.673445	9.443318	9.650842
#2	14.69845	.2718421	.3650510	.6694227	1.664909	9.445582	9.687771
#3	14.54379	.2713447	.3661420	.6730760	1.663798	9.402273	9.714370

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4486-01A Acquired: 10/24/2024 15:37:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.632108	.1974909	.5211848
Stddev	.015225	.0018895	.0026972
%RSD	.5784167	.9567744	.5175185
#1	2.615787	.1996627	.5242977
#2	2.634613	.1962235	.5195423
#3	2.645925	.1965866	.5197144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3003.275	64508.18	15441.85	2155.996	4039.470
Stddev	4.097	251.70	67.52	7.646	7.505
%RSD	.1364299	.3901806	.4372571	.3546349	.1857890
#1	3000.186	64332.16	15367.20	2150.714	4036.048
#2	3001.715	64395.90	15498.65	2152.510	4034.287
#3	3007.923	64796.47	15459.70	2164.764	4048.076

Sample Name: P4487-01 Acquired: 10/24/2024 15:41:22 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0287871	-.007076	.0873143	-.023013	.0010254	58.15680
Stddev	.0031526	.000536	.0014013	.002939	.0013619	.27598
%RSD	10.95136	7.571014	1.604850	12.77052	132.8214	.4745532
#1	.0251672	-.007628	.0883478	-.020175	-.000498	57.89900
#2	.0309299	-.007041	.0878757	-.026043	.001451	58.12346
#3	.0302643	-.006558	.0857194	-.022821	.002124	58.44794

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9021898	.0070348	.0054980	276.5974	.1097067	.0973332
Stddev	.0009279	.0001179	.0000798	2.2058	.0006484	.0002356
%RSD	.1028508	1.675744	1.451831	.7974920	.5910621	.2420781
#1	.9031651	.0070621	.0054883	274.0577	.1091668	.0970780
#2	.9020865	.0069057	.0054235	278.0351	.1095274	.0973791
#3	.9013180	.0071366	.0055822	277.6994	.1104260	.0975425

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.034000	101.6153	6.897800	48.18452	.1954958	.0017128
Stddev	.001313	.1480	.012576	.10955	.0002825	.0001875
%RSD	.1270120	.1456111	.1823235	.2273471	.1445131	10.94684
#1	1.035440	101.5237	6.890733	48.21838	.1952529	.0015755
#2	1.033693	101.5361	6.890346	48.06204	.1954286	.0016365
#3	1.032868	101.7860	6.912320	48.27314	.1958059	.0019264

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.025004	.1518840	.5988913	18.11708	.0892994	-.000104
Stddev	.015774	.0014121	.0023601	.03805	.0001964	.000276
%RSD	.2245396	.9296996	.3940785	.2100487	.2199317	263.7601
#1	7.033970	.1504013	.5970936	18.11138	.0894232	.000117
#2	7.034250	.1532129	.5980163	18.15766	.0894022	-.000018
#3	7.006790	.1520377	.6015639	18.08219	.0890730	-.000413

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4487-01 Acquired: 10/24/2024 15:41:22 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004519	2.554327	F 14.28744	8.824786	.8352340	.1711940
Stddev	.001595	.013579	.04730	.010696	.0045899	.0003467
%RSD	35.29259	.5316143	.3310497	.1212080	.5495328	.2025231
#1	-.003376	2.546652	14.24211	8.824113	.8389984	.1713767
#2	-.003839	2.546323	14.28373	8.814442	.8301209	.1707941
#3	-.006341	2.570006	14.33649	8.835803	.8365829	.1714111

Elem	Sr4077
Units	ppm
Avg	.3101584
Stddev	.0002946
%RSD	.0949901
#1	.3104788
#2	.3100973
#3	.3098992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.940	63225.81	16252.54	2126.493	3677.969
Stddev	13.595	55.83	35.72	3.222	11.582
%RSD	.4501846	.0883007	.2197888	.1515157	.3148920
#1	3005.383	63166.72	16223.88	2126.152	3664.923
#2	3022.127	63277.68	16292.56	2129.872	3681.947
#3	3032.309	63233.01	16241.19	2123.455	3687.038

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4487-05 Acquired: 10/24/2024 15:45:37 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0422859	-.010224	.0860733	-.024682	-.000288	67.83361
Stddev	.0012617	.002821	.0013175	.001808	.000148	.07319
%RSD	2.983616	27.59249	1.530684	7.324252	51.52424	.1078914
#1	.0434879	-.011518	.0874403	-.026042	-.000117	67.75440
#2	.0409721	-.012166	.0859678	-.022630	-.000382	67.84772
#3	.0423977	-.006988	.0848116	-.025372	-.000365	67.89871

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.128238	.0067627	.0067371	246.8441	.1185798	.1030067
Stddev	.002336	.0000225	.0000574	1.0826	.0002493	.0002981
%RSD	.2070057	.3333060	.8519754	.4385571	.2102131	.2893515
#1	1.128994	.0067399	.0068020	245.7393	.1182946	.1033430
#2	1.125618	.0067850	.0066928	246.8899	.1187561	.1029019
#3	1.130102	.0067632	.0067167	247.9030	.1186887	.1027752

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5527382	105.6003	5.498599	46.25639	.2061583	.0014702
Stddev	.0009710	.2053	.017307	.15535	.0001193	.0003200
%RSD	.1756648	.1943868	.3147577	.3358442	.0578466	21.76342
#1	.5535329	105.3684	5.479525	46.13223	.2062179	.0011061
#2	.5516559	105.7589	5.502968	46.20634	.2062360	.0015978
#3	.5530259	105.6735	5.513303	46.43059	.2060210	.0017066

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.72123	.1430534	.5285866	17.92716	.0909982	.0032349
Stddev	.02830	.0008321	.0021313	.04685	.0002431	.0002072
%RSD	.2224876	.5816667	.4031991	.2613477	.2671713	6.406066
#1	12.75359	.1424469	.5303743	17.94752	.0909422	.0030682
#2	12.70107	.1427113	.5291575	17.87357	.0912645	.0031697
#3	12.70903	.1440020	.5262281	17.96039	.0907880	.0034669

Sample Name: P4487-05 Acquired: 10/24/2024 15:45:37 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004280	3.005473	F 18.78785	9.530227	1.538505	.1761150
Stddev	.000845	.012664	.06039	.032781	.007128	.0015798
%RSD	19.74888	.4213645	.3214337	.3439668	.4633137	.8970428
#1	-.003726	2.991149	18.83372	9.560162	1.543485	.1773157
#2	-.005253	3.010087	18.81040	9.535323	1.541692	.1767040
#3	-.003862	3.015183	18.71942	9.495197	1.530340	.1743253

Elem	Sr4077
Units	ppm
Avg	.2950885
Stddev	.0008220
%RSD	.2785759
#1	.2954290
#2	.2941509
#3	.2956855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.096	67986.46	16592.26	2238.941	3718.524
Stddev	6.553	201.72	21.53	10.154	7.782
%RSD	.2121406	.2967044	.1297609	.4534985	.2092740
#1	3081.829	67776.56	16567.71	2231.270	3709.610
#2	3094.556	68003.97	16601.16	2235.097	3722.001
#3	3090.904	68178.85	16607.91	2250.455	3723.962

Sample Name: PB164320BL Acquired: 10/24/2024 15:49:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000809	-.000127	-.000208	.0000941	.0002803	.0027312	-.002018
Stddev	.001188	.001574	.000714	.0012873	.0012875	.0016037	.000134
%RSD	146.8914	1234.958	343.1580	1368.663	459.2671	58.71954	6.649701
#1	-.001644	-.000965	-.000616	-.000672	-.000760	.0016248	-.001969
#2	-.001334	.001688	-.000625	.001580	.001720	.0045704	-.002170
#3	.000551	-.001105	.000617	-.000626	-.000119	.0019983	-.001916

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000338	.0000295	.0135323	-.000060	.0001014	-.000148	.0043379
Stddev	.0000205	.0000370	.0051110	.000104	.0000749	.000128	.0024566
%RSD	60.69675	125.7114	37.76910	172.7311	73.88039	85.98367	56.63059
#1	.0000458	.0000719	.0187321	.000035	.0001765	-.000094	.0059509
#2	.0000456	.0000039	.0133496	-.000172	.0001010	-.000057	.0015106
#3	.0000101	.0000126	.0085150	-.000044	.0000267	-.000294	.0055520

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002855	.0073026	-.000123	.0004347	-.040787	-.001083	.0003381
Stddev	.0000878	.0057839	.000149	.0002342	.010155	.001069	.0000534
%RSD	30.77052	79.20317	121.1488	53.86862	24.89638	98.73441	15.78926
#1	.0003867	.0018374	-.000141	.0005979	-.029253	-.001425	.0003719
#2	.0002406	.0067107	.000034	.0001664	-.048383	-.001938	.0003659
#3	.0002292	.0133596	-.000263	.0005399	-.044725	.000116	.0002766

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013305	-.001297	-.000222	-.000934	-.000372	.0031314	.0000486
Stddev	.027174	.000179	.000478	.000310	.000236	.0051125	.0010833
%RSD	204.2416	13.83055	215.2185	33.18396	63.46688	163.2657	2228.650
#1	-.016031	-.001111	.000324	-.000612	-.000100	.0037231	.0000061
#2	-.039014	-.001469	-.000423	-.001231	-.000498	-.002251	.0011526
#3	.015130	-.001312	-.000568	-.000961	-.000519	.007922	-.001013

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164320BL Acquired: 10/24/2024 15:49:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004057	-.000337	-.000001
Stddev	.002778	.000876	.000007
%RSD	68.46466	259.8706	491.3488
#1	-.002986	.000372	-.000007
#2	-.007211	-.001317	.000006
#3	-.001974	-.000067	-.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2820.192	59940.50	13923.23	2030.039	4566.169
Stddev	1.868	66.24	28.46	1.387	6.286
%RSD	.0662374	.1105113	.2044369	.0683341	.1376589
#1	2818.096	59874.30	13891.69	2031.636	4561.334
#2	2821.682	60006.78	13947.00	2029.349	4573.275
#3	2820.797	59940.41	13931.00	2029.132	4563.899

Sample Name: PB164320BS Acquired: 10/24/2024 15:54:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7446457	1.889394	.9344324	1.896998	.7943218	1.910304
Stddev	.0015125	.016830	.0006516	.001684	.0027277	.010032
%RSD	.2031196	.8907449	.0697357	.0887505	.3434030	.5251616
#1	.7429006	1.904854	.9348199	1.896481	.7957294	1.903546
#2	.7454557	1.891862	.9336801	1.898879	.7960580	1.905535
#3	.7455806	1.871467	.9347973	1.895633	.7911778	1.921831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1841331	.1855964	.1818019	.9816408	.3946856	.1972944
Stddev	.0002764	.0004455	.0003236	.0042914	.0013661	.0000614
%RSD	.1501098	.2400132	.1779723	.4371685	.3461312	.0311138
#1	.1842012	.1850856	.1814295	.9782886	.3944743	.1973488
#2	.1838290	.1857996	.1820150	.9801564	.3961450	.1972278
#3	.1843691	.1859040	.1819611	.9864773	.3934374	.1973066

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3148347	3.017854	.1856358	1.765110	.4967110	.0775983
Stddev	.0006746	.019541	.0006026	.017254	.0002190	.0000690
%RSD	.2142729	.6475219	.3246243	.9775139	.0440901	.0889364
#1	.3141229	3.037091	.1861524	1.762055	.4969503	.0776102
#2	.3149164	2.998022	.1849738	1.749587	.4965205	.0775242
#3	.3154647	3.018448	.1857813	1.783688	.4966621	.0776606

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.889575	.2690016	.2137157	10.20463	.2699466	.4116133
Stddev	.011938	.0021698	.0004818	.05417	.0010032	.0011344
%RSD	.4131533	.8066070	.2254498	.5308019	.3716439	.2755941
#1	2.903175	.2700011	.2138895	10.26667	.2701141	.4118181
#2	2.880824	.2665122	.2131711	10.18047	.2708555	.4126313
#3	2.884725	.2704914	.2140865	10.16675	.2688701	.4103905

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164320BS Acquired: 10/24/2024 15:54:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6778134	.1850264	F .7285550	5.670441	F -.015173	.1735638
Stddev	.0015267	.0006565	.0042425	.022184	.001449	.0026299
%RSD	.2252311	.3547954	.5823219	.3912204	9.549425	1.515234
#1	.6760622	.1857442	.7334217	5.656478	-.015929	.1762639
#2	.6788636	.1844566	.7256361	5.658823	-.016088	.1734174
#3	.6785145	.1848782	.7266073	5.696021	-.013503	.1710102

Elem	Sr4077
Units	ppm
Avg	.1921055
Stddev	.0004174
%RSD	.2172705
#1	.1925068
#2	.1916737
#3	.1921361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2828.787	60134.91	13862.44	2012.798	4502.284
Stddev	3.733	194.04	8.27	11.402	5.166
%RSD	.1319702	.3226824	.0596463	.5664586	.1147451
#1	2825.163	59915.80	13855.82	2009.148	4496.322
#2	2828.578	60203.89	13859.78	2025.578	4505.094
#3	2832.621	60285.05	13871.71	2003.669	4505.436

Sample Name: CCV04 Acquired: 10/24/2024 15:58:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	5.050636	5.003301	4.958728	5.143345	5.103999	9.873569	9.521456
Stddev	.013882	.026134	.005430	.017012	.009295	.034538	.019370
%RSD	.2748654	.5223318	.1094945	.3307567	.1821080	.3498023	.2034404
#1	5.035791	4.983495	4.963032	5.132942	5.095906	9.835917	9.516082
#2	5.063297	5.032921	4.952628	5.162977	5.114151	9.903780	9.505340
#3	5.052820	4.993486	4.960525	5.134117	5.101940	9.881009	9.542946

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2332504	2.456854	23.89851	.9662535	2.471370	1.270858	4.972890
Stddev	.0003475	.000883	.07322	.0031800	.001851	.003384	.024015
%RSD	.1489864	.0359526	.3063665	.3291036	.0748797	.2662845	.4829255
#1	.2329265	2.456735	23.82608	.9687156	2.471369	1.271134	4.964351
#2	.2336175	2.456036	23.89694	.9626633	2.469520	1.274095	4.954312
#3	.2332072	2.457791	23.97249	.9673817	2.473221	1.267344	5.000008

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.317037	22.62684	2.480770	1.255083	25.27626	2.308590	2.549391
Stddev	.012357	.07809	.000657	.001193	.08968	.012401	.005311
%RSD	.5333212	.3451404	.0264993	.0950186	.3547957	.5371614	.2083082
#1	2.305751	22.57192	2.480927	1.255578	25.29633	2.302138	2.549238
#2	2.315117	22.59235	2.480048	1.255948	25.17825	2.300746	2.554776
#3	2.330241	22.71624	2.481334	1.253722	25.35421	2.322887	2.544158

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.63606	4.653647	5.094198	4.935089	4.751837	5.185411	5.067501
Stddev	.06606	.007972	.013234	.003766	.009753	.037923	.006473
%RSD	.2577031	.1713060	.2597831	.0763183	.2052432	.7313342	.1277334
#1	25.66514	4.644839	5.089668	4.934688	4.741924	5.152032	5.062636
#2	25.56045	4.660367	5.109102	4.939040	4.752165	5.177556	5.074847
#3	25.68260	4.655735	5.083824	4.931540	4.761421	5.226647	5.065020

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV04 Acquired: 10/24/2024 15:58:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.818433	4.653907	4.884477
Stddev	.005274	.008770	.025654
%RSD	.1094520	.1884519	.5252070
#1	4.812867	4.652017	4.854857
#2	4.823356	4.646236	4.899630
#3	4.819074	4.663469	4.898943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2686.458	58606.30	13245.41	1940.724	4060.190
Stddev	7.734	128.78	4.20	1.847	2.660
%RSD	.2878860	.2197382	.0317464	.0951544	.0655179
#1	2687.565	58499.05	13243.68	1939.120	4059.260
#2	2678.230	58749.13	13250.20	1940.309	4058.119
#3	2693.578	58570.71	13242.34	1942.743	4063.190

Sample Name: CCB04 Acquired: 10/24/2024 16:02:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0011958	-.000764	.0008600	-.001400	.0015267	-.003842	-.002606
Stddev	.0015590	.000918	.0008336	.002402	.0014567	.001719	.000127
%RSD	130.3735	120.2021	96.92932	171.5199	95.41186	44.74253	4.858329
#1	.0029233	-.000138	.0008635	-.003679	.0031911	-.002785	-.002576
#2	-.000106	-.001817	.0000247	.001108	.0004840	-.005825	-.002744
#3	.000771	-.000335	.0016919	-.001630	.0009051	-.002914	-.002496

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000229	.0000611	.0025312	.0003895	.0000748	-.000204	.0016334
Stddev	.0000258	.0000522	.0012815	.0002105	.0001283	.000098	.0013483
%RSD	112.7280	85.37970	50.62729	54.02905	171.4073	47.90277	82.54682
#1	.0000331	.0001004	.0010779	.0002843	-.000072	-.000246	.0006852
#2	.0000420	.0000810	.0030166	.0002525	.000162	-.000273	.0031768
#3	-.000006	.0000019	.0034990	.0006319	.000135	-.000092	.0010380

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000013	-.000747	-.000034	.0005297	-.034918	-.002458	.0002017
Stddev	.000142	.003263	.000316	.0002560	.005185	.000908	.0001122
%RSD	1065.471	436.5245	939.8209	48.32692	14.84933	36.94437	55.61858
#1	.000026	-.003945	.000323	.0003500	-.035990	-.002726	.0002186
#2	.000105	-.000875	-.000148	.0008228	-.029281	-.003201	.0000820
#3	-.000171	.002577	-.000276	.0004164	-.039484	-.001446	.0003044

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007919	.0023604	.0003085	-.000740	-.000018	.0032743	.0018092
Stddev	.013217	.0002268	.0000357	.000688	.000555	.0013064	.0025276
%RSD	166.9015	9.608167	11.56502	92.99121	3084.438	39.89872	139.7069
#1	-.020054	.0021112	.0003416	-.001446	-.000467	.0040398	.0007882
#2	-.009867	.0024155	.0003132	-.000700	-.000191	.0040172	-.000048
#3	.006164	.0025546	.0002707	-.000073	.000603	.0017658	.004688

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB04 Acquired: 10/24/2024 16:02:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005068	-.000566	.0000788
Stddev	.002719	.000385	.0000175
%RSD	53.65648	67.97132	22.19140
#1	-.008197	-.000819	.0000586
#2	-.003716	-.000756	.0000880
#3	-.003289	-.000123	.0000898

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2793.494	60346.53	14124.02	2015.099	4544.681
Stddev	8.969	6.74	67.19	9.011	7.339
%RSD	.3210716	.0111625	.4757117	.4471556	.1614856
#1	2783.138	60341.62	14052.40	2025.490	4536.331
#2	2798.711	60354.21	14133.98	2010.374	4547.606
#3	2798.634	60343.77	14185.67	2009.434	4550.106

Sample Name: LR1 Acquired: 10/24/2024 16:08:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0364032	-.001893	.0557238	-.271710	-.008023	2102.708	.0145682
Stddev	.0043743	.005848	.0033077	.016548	.007260	17.092	.0004071
%RSD	12.01629	308.9202	5.935957	6.090407	90.49294	.8128372	2.794694
#1	.0333768	-.007959	.0594904	-.253247	.000337	2121.935	.0141226
#2	.0414186	.003709	.0543891	-.276677	-.012739	2096.949	.0149208
#3	.0344142	-.001429	.0532920	-.285206	-.011666	2089.240	.0146611

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092938	.1016902	1847.756	.0097578	.0439159	.1595543	1002.023
Stddev	.0001716	.0010103	19.047	.0008838	.0001864	.0058342	9.058
%RSD	1.846051	.9934657	1.030814	9.057709	.4244413	3.656545	.9039811
#1	.0092533	.1005544	1861.150	.0091497	.0437015	.1529453	1012.359
#2	.0091460	.1020278	1856.167	.0093521	.0440063	.1617282	998.241
#3	.0094819	.1024885	1825.952	.0107717	.0440398	.1639894	995.468

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.080825	1815.312	.0246064	-.025529	1813.572	.0643807	.2917268
Stddev	.000264	38.243	.0006415	.001100	6.203	.0030341	.0018674
%RSD	.3270487	2.106697	2.606955	4.308856	.3420392	4.712713	.6401038
#1	-.080870	1858.223	.0253218	-.024321	1815.904	.0660229	.2936043
#2	-.081064	1802.886	.0240824	-.025795	1806.541	.0662397	.2898698
#3	-.080541	1784.828	.0244151	-.026472	1818.272	.0608795	.2917063

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1361.352	.4484850	-.006599	.0156739	-.035599	.1433771	.0937181
Stddev	1.202	.0151554	.001589	.0035614	.000030	.0101007	.0023242
%RSD	.0882815	3.379240	24.07749	22.72185	.0850126	7.044880	2.479982
#1	1360.040	.4659632	-.004774	.0182495	-.035601	.1357862	.0961613
#2	1361.618	.4389897	-.007350	.0116097	-.035567	.1395039	.0934585
#3	1362.399	.4405022	-.007673	.0171624	-.035628	.1548412	.0915347

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: LR1 Acquired: 10/24/2024 16:08:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.174354	.4311070	-.989731
Stddev	.027317	.0052737	.008953
%RSD	15.66771	1.223285	.9046304
#1	-.204277	.4286856	-.999933
#2	-.150749	.4371566	-.986082
#3	-.168037	.4274790	-.983179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1643.270	37353.42	10815.60	1189.096	2220.696
Stddev	1.851	99.14	22.81	9.935	.959
%RSD	.1126712	.2653984	.2108797	.8355367	.0431859
#1	1643.251	37321.06	10792.34	1183.847	2220.927
#2	1645.131	37464.69	10837.93	1200.554	2221.518
#3	1641.428	37274.51	10816.52	1182.885	2219.642

Sample Name: LR2 Acquired: 10/24/2024 16:13:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0132424	-.031166	250.9289	.0047747	.0000887	.1160716	^F *****
Stddev	.0009858	.001165	1.6174	.0038483	.0009920	.0166091	-----
%RSD	7.444652	3.738891	.6445720	80.59878	1118.383	14.30932	-----
#1	.0133511	-.032169	249.3261	.0062634	-.001054	.0999926	^ -----
#2	.0122068	-.031441	250.9003	.0004044	.000733	.1150580	^ -----
#3	.0141695	-.029887	252.5605	.0076562	.000587	.1331643	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002735	-.004068	.2768380	.0120592	-.019263	232.5081	.0374308
Stddev	.000041	.000109	.0187089	.0005364	.000298	.6328	.0079217
%RSD	1.487171	2.672394	6.758066	4.448503	1.549238	.2721524	21.16354
#1	-.002688	-.003945	.2621499	.0117290	-.019532	232.0546	.0295669
#2	-.002755	-.004111	.2704628	.0117705	-.019315	232.2387	.0373166
#3	-.002761	-.004149	.2979013	.0126782	-.018942	233.2310	.0454090

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.34398	.0137878	45.78008	.0014441	.4725766	-.012370	31.80482
Stddev	.22593	.0172697	.24408	.0000803	.0147670	.002092	.17449
%RSD	.4578660	125.2542	.5331558	5.562834	3.124779	16.91025	.5486166
#1	49.32449	-.001210	45.53493	.0015250	.4883213	-.013707	31.98075
#2	49.57902	.009905	45.78224	.0014427	.4703735	-.013444	31.80191
#3	49.12842	.032668	46.02307	.0013644	.4590349	-.009960	31.63182

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.161380	-.000429	-.002978	-.004612	-.039151	.0058203	2.879220
Stddev	.070508	.000648	.000279	.000683	.000246	.0039737	.039058
%RSD	6.071095	151.1758	9.371690	14.80460	.6276299	68.27356	1.356531
#1	1.225102	-.000838	-.002666	-.005054	-.039110	.0012463	2.839129
#2	1.173405	.000318	-.003065	-.003826	-.039415	.0077921	2.881376
#3	1.085632	-.000766	-.003204	-.004957	-.038929	.0084226	2.917154

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: LR2 Acquired: 10/24/2024 16:13:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.042618	.0014712	.0019931
Stddev	.002045	.0012539	.0000183
%RSD	4.799279	85.23012	.9195675
#1	-.041173	.0004131	.0019719
#2	-.044958	.0028562	.0020027
#3	-.041722	.0011443	.0020046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2409.316	59227.68	13934.37	1888.347	4261.230
Stddev	1.606	77.49	60.60	9.899	5.407
%RSD	.0666758	.1308352	.4348762	.5242194	.1268984
#1	2410.799	59168.20	13907.93	1878.020	4266.390
#2	2407.609	59199.52	13891.48	1889.266	4255.605
#3	2409.540	59315.31	14003.69	1897.754	4261.695

Sample Name: P4467-04 Acquired: 10/24/2024 16:19:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007138	-.008670	.0134051	.0030388	.0006871	.0922147	.2417705
Stddev	.000891	.000874	.0015359	.0018233	.0006881	.0070398	.0004766
%RSD	12.48478	10.07798	11.45761	59.99982	100.1430	7.634167	.1971408
#1	-.006114	-.007955	.0117363	.0037700	.0013301	.0873000	.2416687
#2	-.007562	-.009644	.0147595	.0009634	-.000039	.0890646	.2422898
#3	-.007739	-.008411	.0137194	.0043830	.000770	.1002795	.2413530

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002935	.0000685	6.098458	.0117706	-.000190	.0268333	.0903757
Stddev	.0000124	.0000174	.022016	.0003835	.000155	.0003574	.0041854
%RSD	4.220687	25.46181	.3610069	3.258423	81.26158	1.331860	4.631085
#1	.0002803	.0000882	6.076323	.0113691	-.000022	.0264739	.0865181
#2	.0003049	.0000550	6.120353	.0121332	-.000222	.0268375	.0897832
#3	.0002953	.0000623	6.098697	.0118096	-.000326	.0271886	.0948257

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2639717	2.451390	.0065459	.0003491	396.8945	-.003227	.1326740
Stddev	.0011696	.021943	.0001164	.0001380	3.6744	.000858	.0002767
%RSD	.4430785	.8951193	1.777701	39.53755	.9257852	26.57382	.2085718
#1	.2638278	2.431591	.0066603	.0002812	400.9923	-.002369	.1324931
#2	.2652065	2.447595	.0064277	.0002582	393.8933	-.004084	.1325363
#3	.2628806	2.474982	.0065497	.0005080	395.7979	-.003228	.1329925

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.241110	.0322984	.0005476	.0019756	.0008603	.4159671	.0552030
Stddev	.006900	.0003014	.0001911	.0002539	.0005161	.0066980	.0033366
%RSD	.5559576	.9332277	34.89060	12.85265	59.98944	1.610217	6.044272
#1	1.244393	.0319512	.0006048	.0018315	.0013246	.4112091	.0583347
#2	1.245756	.0324933	.0007035	.0022688	.0009517	.4236266	.0516936
#3	1.233181	.0324506	.0003345	.0018265	.0003046	.4130656	.0555805

Sample Name: P4467-04 Acquired: 10/24/2024 16:19:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.008020	.0034132	.0327812
Stddev	.003520	.0002598	.0001211
%RSD	.3492397	7.610489	.3695019
#1	1.010150	.0034742	.0328820
#2	1.003956	.0036369	.0328148
#3	1.009953	.0031283	.0326468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.262	55208.75	13709.97	1846.671	3857.041
Stddev	9.873	123.12	11.69	4.403	9.445
%RSD	.3845805	.2230049	.0852947	.2384204	.2448836
#1	2576.517	55073.53	13696.92	1841.870	3862.543
#2	2568.400	55238.34	13713.50	1847.623	3862.446
#3	2556.869	55314.37	13719.50	1850.520	3846.135

Sample Name: P4468-02 Acquired: 10/24/2024 16:24:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007214	-.012622	.0010787	.0015348	.0018829	.2707069	.1456827
Stddev	.000717	.001386	.0008569	.0008218	.0007656	.0044281	.0004171
%RSD	9.938365	10.98201	79.43920	53.54526	40.65931	1.635771	.2863205
#1	-.006456	-.012533	.0015542	.0008397	.0021951	.2656029	.1452830
#2	-.007881	-.011282	.0015925	.0013230	.0024430	.2735252	.1461153
#3	-.007305	-.014050	.0000895	.0024419	.0010106	.2729924	.1456496

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000082	-.000088	229.6513	.0335544	-.000119	.0045190	.0399645
Stddev	.000019	.000062	.7683	.0004675	.000145	.0002863	.0015066
%RSD	23.56103	70.33299	.3345603	1.393219	122.0868	6.336531	3.769909
#1	-.000061	-.000069	228.7772	.0340875	-.000206	.0042125	.0415165
#2	-.000099	-.000157	229.9565	.0332144	-.000200	.0045650	.0385078
#3	-.000086	-.000037	230.2201	.0333613	.000049	.0047796	.0398693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026298	.0527171	.0007363	-.000295	484.3656	-.000826	.0306611
Stddev	.0001637	.0025922	.0001073	.000115	2.3041	.001329	.0002025
%RSD	6.223727	4.917241	14.56759	38.90415	.4756943	160.7849	.6604691
#1	.0025127	.0540289	.0006586	-.000383	481.7754	-.002219	.0305071
#2	.0025598	.0543913	.0008586	-.000165	486.1871	.000427	.0305857
#3	.0028168	.0497312	.0006916	-.000336	485.1344	-.000686	.0308905

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.25867	.0215436	.0042919	-.000781	-.004858	1.731662	.0163633
Stddev	.02962	.0002249	.0000791	.000109	.000350	.003172	.0021005
%RSD	.2630752	1.043958	1.843852	13.93308	7.197369	.1831648	12.83653
#1	11.24082	.0212895	.0043638	-.000869	-.005261	1.728796	.0185312
#2	11.29286	.0217170	.0042071	-.000814	-.004629	1.731121	.0162214
#3	11.24232	.0216244	.0043048	-.000659	-.004685	1.735070	.0143374

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-02 Acquired: 10/24/2024 16:24:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.182437	.0558471	2.381477
Stddev	.033963	.0006235	.001078
%RSD	.4150763	1.116351	.0452483
#1	8.221586	.0557575	2.382406
#2	8.160863	.0565106	2.381731
#3	8.164861	.0552734	2.380296

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.816	51648.76	13261.07	1713.722	3594.001
Stddev	4.869	83.71	18.33	7.736	.256
%RSD	.2007168	.1620789	.1382036	.4514149	.0071159
#1	2429.312	51742.95	13279.30	1722.591	3593.911
#2	2427.881	51620.48	13261.26	1708.370	3594.290
#3	2420.254	51582.86	13242.65	1710.203	3593.803

Sample Name: P4468-04 Acquired: 10/24/2024 16:28:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005699	-.007586	.0045298	.0042751	.0006144	.1062790	.1036196
Stddev	.000583	.000987	.0003806	.0024060	.0013677	.0095944	.0003533
%RSD	10.22444	13.01413	8.402988	56.27934	222.6234	9.027516	.3409553
#1	-.006331	-.007458	.0044457	.0034117	-.000693	.0952018	.1040166
#2	-.005581	-.008631	.0041983	.0024199	.002035	.1116669	.1035020
#3	-.005184	-.006669	.0049455	.0069937	.000501	.1119684	.1033400

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	.0010874	22.47138	.0017960	.0010677	.0081180	.0981813
Stddev	.000033	.0000832	.02916	.0002906	.0000801	.0004527	.0029458
%RSD	63.41146	7.646413	.1297688	16.18142	7.505126	5.576726	3.000332
#1	-.000058	.0010150	22.43847	.0017172	.0009755	.0085352	.1003237
#2	-.000083	.0011782	22.48165	.0021179	.0011197	.0081823	.0948221
#3	-.000017	.0010689	22.49401	.0015530	.0011081	.0076366	.0993982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3153139	2.290999	.0042101	.0001147	338.7299	-.002038	.0453250
Stddev	.0002555	.026047	.0001582	.0000157	2.2272	.000580	.0003471
%RSD	.0810308	1.136920	3.757153	13.66555	.6575298	28.44498	.7657624
#1	.3151150	2.269800	.0043550	.0001174	340.8840	-.001583	.0455196
#2	.3156021	2.283123	.0042340	.0000978	336.4361	-.002691	.0455310
#3	.3152246	2.320075	.0040414	.0001288	338.8695	-.001840	.0449242

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.706971	.0079476	.0006587	-.000305	.0022095	1.100977	.0114057
Stddev	.018986	.0000599	.0001777	.000702	.0005340	.005622	.0024265
%RSD	1.112270	.7537942	26.96883	229.9734	24.16699	.5106413	21.27397
#1	1.697295	.0079095	.0008629	.000506	.0016941	1.099643	.0132303
#2	1.728846	.0080167	.0005738	-.000719	.0027603	1.096143	.0123349
#3	1.694773	.0079166	.0005395	-.000703	.0021740	1.107147	.0086520

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-04 Acquired: 10/24/2024 16:28:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.2469356	.0072224	.0750876
Stddev	.0030993	.0012953	.0000382
%RSD	1.255099	17.93390	.0509088
#1	.2435311	.0066535	.0750983
#2	.2476827	.0063090	.0750452
#3	.2495931	.0087048	.0751193

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.829	54190.29	13732.51	1832.934	3900.280
Stddev	3.473	36.22	31.16	3.675	3.780
%RSD	.1339375	.0668410	.2268809	.2005043	.0969276
#1	2589.019	54227.96	13763.71	1834.170	3897.702
#2	2593.652	54155.72	13701.40	1828.800	3898.519
#3	2595.817	54187.19	13732.42	1835.832	3904.620

Sample Name: P4468-06 Acquired: 10/24/2024 16:33:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006049	-.007766	.0017996	.0021818	.0005473	.1485264	.1568197
Stddev	.002915	.001116	.0004356	.0009725	.0008135	.0030995	.0004635
%RSD	48.19182	14.36423	24.20607	44.57069	148.6366	2.086836	.2955765
#1	-.008668	-.006478	.0015095	.0021421	.0000547	.1451956	.1568162
#2	-.002908	-.008419	.0023004	.0012298	.0014862	.1490575	.1563580
#3	-.006570	-.008401	.0015887	.0031735	.0001009	.1513260	.1572850

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000223	.0001778	22.60634	.0021891	.0010385	.0153869	.1554617
Stddev	.0000172	.0000711	.08244	.0003076	.0001713	.0004314	.0044513
%RSD	77.18032	39.99438	.3646589	14.05018	16.49545	2.803969	2.863256
#1	.0000408	.0002588	22.52241	.0024060	.0008462	.0156283	.1546452
#2	.0000068	.0001490	22.60943	.0018371	.0011749	.0148888	.1514752
#3	.0000193	.0001256	22.68719	.0023240	.0010943	.0156436	.1602647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3091099	2.038321	.0037482	.0001136	355.8290	-.000742	.0814874
Stddev	.0014608	.019431	.0001941	.0001882	.7009	.000408	.0000391
%RSD	.4725926	.9532800	5.179590	165.7125	.1969637	54.96537	.0479370
#1	.3080959	2.016024	.0035243	.0001324	355.5338	-.000817	.0814428
#2	.3084495	2.047299	.0038494	.0002917	355.3240	-.001108	.0815154
#3	.3107843	2.051640	.0038708	-.000083	356.6291	-.000302	.0815039

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.456144	.0148588	.0005921	.0080647	.0055437	1.004720	.0187523
Stddev	.001731	.0003189	.0001628	.0003212	.0001844	.008829	.0008846
%RSD	.1188891	2.146082	27.48838	3.982200	3.326858	.8787204	4.717354
#1	1.454854	.0145622	.0005560	.0082378	.0057430	1.013509	.0194438
#2	1.458112	.0148182	.0004505	.0082621	.0053792	.995852	.0177555
#3	1.455467	.0151960	.0007700	.0076941	.0055088	1.004799	.0190577

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-06 Acquired: 10/24/2024 16:33:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4932662	.0059079	.0639134
Stddev	.0028586	.0011497	.0000612
%RSD	.5795348	19.45974	.0957758
#1	.4964333	.0069362	.0639705
#2	.4908770	.0046667	.0638487
#3	.4924883	.0061209	.0639210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2591.428	55095.33	13617.32	1840.387	3879.511
Stddev	3.536	111.79	25.92	7.766	1.654
%RSD	.1364651	.2029063	.1903817	.4220009	.0426265
#1	2590.529	55119.24	13646.96	1846.205	3878.468
#2	2588.428	55193.23	13606.16	1843.389	3881.418
#3	2595.327	54973.52	13598.85	1831.568	3878.647

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-04 Acquired: 10/24/2024 16:37:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006366	-.007845	.0014821	.0016773	.0012861	-.028541	.6512997
Stddev	.000485	.001647	.0009286	.0016664	.0007944	.003856	.0017677
%RSD	7.611432	20.99300	62.65446	99.34982	61.77024	13.51015	.2714034
#1	-.005914	-.006662	.0022958	.0021184	.0015139	-.024524	.6511479
#2	-.006877	-.007147	.0016799	.0030789	.0019416	-.032212	.6531383
#3	-.006307	-.009726	.0004705	-.000165	.0004026	-.028888	.6496128

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000208	.0007967	175.0394	.0014920	.0015409	.0032095	.3823029
Stddev	.000043	.0001240	.3055	.0001946	.0001032	.0001675	.0002348
%RSD	20.44035	15.56128	.1745168	13.04099	6.694138	5.219663	.0614073
#1	-.000175	.0008590	175.3340	.0016903	.0014297	.0033316	.3821583
#2	-.000256	.0006539	174.7241	.0014843	.0016335	.0030185	.3825738
#3	-.000193	.0008772	175.0601	.0013014	.0015595	.0032784	.3821767

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.907783	2.725591	.0036283	-.000101	428.2947	-.001433	.0381904
Stddev	.018343	.012287	.0002904	.000113	1.5181	.000360	.0001279
%RSD	.6308414	.4508080	8.002537	111.8774	.3544577	25.10473	.3349926
#1	2.927749	2.731209	.0038588	-.000088	429.6041	-.001767	.0381871
#2	2.903926	2.734066	.0033022	-.000219	428.6493	-.001052	.0380641
#3	2.891675	2.711500	.0037240	.000005	426.6306	-.001479	.0383199

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.761789	.0105376	.0009050	-.003131	-.003275	.6709947	.0108784
Stddev	.020718	.0001220	.0002488	.000194	.000258	.0043751	.0009430
%RSD	.5507571	1.157848	27.48724	6.195134	7.878919	.6520357	8.668780
#1	3.738042	.0106204	.0011540	-.003220	-.003018	.6670190	.0098907
#2	3.776179	.0105949	.0009044	-.003264	-.003534	.6702832	.0117693
#3	3.771145	.0103975	.0006565	-.002908	-.003273	.6756820	.0109751

Sample Name: P4472-04 Acquired: 10/24/2024 16:37:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4381468	.0373192	.3077499
Stddev	.0079021	.0017800	.0007828
%RSD	1.803536	4.769765	.2543648
#1	.4350818	.0366600	.3077779
#2	.4322363	.0359628	.3085184
#3	.4471223	.0393348	.3069535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2532.238	53568.63	13636.75	1779.241	3653.940
Stddev	7.913	57.32	51.66	10.734	7.875
%RSD	.3124856	.1069965	.3788365	.6033146	.2155227
#1	2526.725	53634.74	13577.10	1781.891	3650.705
#2	2528.684	53533.03	13666.49	1788.402	3648.197
#3	2541.305	53538.10	13666.67	1767.430	3662.917

Sample Name: P4472-08 Acquired: 10/24/2024 16:42:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003097	-.009385	.0004937	.0012773	.0022419	-.039292	.5707786
Stddev	.001184	.002140	.0008594	.0023210	.0005131	.005898	.0012987
%RSD	38.24174	22.79930	174.0702	181.7166	22.88653	15.01052	.2275347
#1	-.004210	-.011230	-.000497	.0005468	.0027025	-.039958	.5722680
#2	-.003229	-.007039	.001031	-.000591	.0023343	-.044829	.5698827
#3	-.001852	-.009886	.000948	.003876	.0016889	-.033090	.5701851

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000278	.0006242	173.6497	.0012078	.0019912	.0054042	.1677433
Stddev	.000017	.0000542	.4864	.0003502	.0001222	.0005162	.0040892
%RSD	6.010467	8.676434	.2800884	28.99111	6.135075	9.552270	2.437762
#1	-.000294	.0006828	173.4399	.0009143	.0021003	.0052501	.1682364
#2	-.000278	.0006139	173.3034	.0015954	.0020142	.0049825	.1715636
#3	-.000261	.0005759	174.2057	.0011139	.0018592	.0059799	.1634299

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.366472	3.383124	.0037944	-.000136	430.1717	-.000671	.0384554
Stddev	.007280	.025188	.0002587	.000180	1.2220	.000809	.0006996
%RSD	.2162502	.7445296	6.817770	132.7713	.2840791	120.4434	1.819155
#1	3.371020	3.361477	.0040617	-.000331	428.7958	.000254	.0387550
#2	3.358075	3.377124	.0035453	-.000102	431.1309	-.001245	.0376559
#3	3.370319	3.410770	.0037761	.000025	430.5883	-.001023	.0389552

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.479989	.0105710	.0010904	-.003468	-.003404	.8359289	.0097434
Stddev	.025219	.0005045	.0000480	.000429	.000356	.0075061	.0009761
%RSD	1.016915	4.772417	4.405020	12.35923	10.46415	.8979373	10.01813
#1	2.500949	.0111511	.0010377	-.002991	-.003248	.8275363	.0091609
#2	2.487018	.0102350	.0011318	-.003820	-.003152	.8382505	.0091989
#3	2.452001	.0103270	.0011015	-.003594	-.003811	.8420000	.0108703

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08 Acquired: 10/24/2024 16:42:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5283372	.0349795	.3227542
Stddev	.0009223	.0006761	.0002924
%RSD	.1745640	1.932974	.0905966
#1	.5293947	.0352285	.3230733
#2	.5279172	.0342141	.3224991
#3	.5276997	.0354958	.3226902

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2493.061	52627.30	13577.57	1751.769	3627.516
Stddev	2.431	62.79	34.16	1.930	1.891
%RSD	.0975227	.1193194	.2515823	.1101881	.0521321
#1	2493.831	52699.81	13564.32	1749.540	3627.526
#2	2490.338	52590.91	13616.36	1752.922	3625.620
#3	2495.014	52591.17	13552.01	1752.843	3629.402

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08DUP Acquired: 10/24/2024 16:46:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004142	-.009143	.0008242	.0026472	.0018105	-.040509	.5647087
Stddev	.001239	.000670	.0006043	.0009282	.0012843	.007369	.0007422
%RSD	29.92337	7.327394	73.32269	35.06138	70.93657	18.19186	.1314273
#1	-.002849	-.009814	.0015220	.0024973	.0009989	-.037292	.5654461
#2	-.004257	-.008474	.0004771	.0036413	.0011414	-.035295	.5639618
#3	-.005319	-.009143	.0004735	.0018032	.0032912	-.048940	.5647183

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000225	.0006262	173.4445	.0007304	.0020660	.0055444	.1646612
Stddev	.000053	.0000878	.5060	.0001174	.0002004	.0001242	.0034448
%RSD	23.38864	14.02563	.2917194	16.06731	9.699292	2.240576	2.092052
#1	-.000284	.0005348	172.9621	.0007644	.0018523	.0054549	.1615263
#2	-.000183	.0006340	173.4005	.0008269	.0022497	.0054920	.1641083
#3	-.000209	.0007100	173.9711	.0005998	.0020959	.0056862	.1683491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.389461	3.337202	.0032945	.0001998	423.1707	-.001028	.0380911
Stddev	.006256	.015726	.0000607	.0000770	1.2763	.000537	.0001537
%RSD	.1845669	.4712205	1.841663	38.52798	.3015929	52.23111	.4034110
#1	3.384268	3.319193	.0033447	.0002420	421.9266	-.000422	.0379392
#2	3.387709	3.344194	.0033117	.0001110	424.4768	-.001443	.0380876
#3	3.396406	3.348219	.0032271	.0002465	423.1087	-.001220	.0382465

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.418592	.0107520	.0009702	-.002958	-.003420	.8317724	.0086520
Stddev	.020435	.0000783	.0001534	.000566	.000221	.0059397	.0012067
%RSD	.8449088	.7278093	15.81093	19.14762	6.471943	.7141023	13.94693
#1	2.398852	.0107125	.0008600	-.003355	-.003170	.8255988	.0098568
#2	2.417268	.0108421	.0011454	-.002309	-.003499	.8374466	.0086557
#3	2.439658	.0107014	.0009051	-.003208	-.003591	.8322719	.0074434

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08DUP Acquired: 10/24/2024 16:46:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5336647	.0349655	.3212245
Stddev	.0016688	.0004936	.0001642
%RSD	.3127033	1.411688	.0511290
#1	.5317399	.0355132	.3214113
#2	.5345484	.0348281	.3211593
#3	.5347057	.0345551	.3211029

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2506.846	53132.77	13591.88	1764.417	3629.058
Stddev	2.662	46.77	23.42	7.810	2.882
%RSD	.1061742	.0880200	.1722806	.4426342	.0794028
#1	2503.929	53184.55	13600.19	1761.296	3632.352
#2	2509.143	53093.59	13565.44	1758.650	3627.823
#3	2507.467	53120.16	13610.00	1773.304	3627.000

Sample Name: P4472-08LX5 Acquired: 10/24/2024 16:50:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0000967	-.003348	-.000351	.0008121	-.000225	-.017566	.1165273
Stddev	.0010862	.001249	.000780	.0007068	.000401	.006288	.0005542
%RSD	1123.878	37.31529	222.2818	87.04031	177.9820	35.79761	.4755886
#1	-.000237	-.003782	.000330	.0003393	-.000626	-.021416	.1161974
#2	.001310	-.004323	-.000181	.0004723	.000176	-.010309	.1171671
#3	-.000784	-.001940	-.001201	.0016246	-.000226	-.020972	.1162173

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	.0001876	36.38276	.0001358	.0005448	.0013099	.0358162
Stddev	.000033	.0000159	.05497	.0004385	.0000558	.0001493	.0007409
%RSD	1902.537	8.457080	.1510770	322.8609	10.24786	11.39492	2.068609
#1	.000036	.0001934	36.37260	-.000019	.0005203	.0014821	.0365319
#2	-.000025	.0001997	36.44210	.000631	.0005053	.0012183	.0350525
#3	-.000016	.0001696	36.33359	-.000204	.0006087	.0012292	.0358643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7241263	.7294267	.0007284	.0002637	81.81029	-.002411	.0083219
Stddev	.0028567	.0027060	.0001224	.0002766	.19499	.000801	.0001660
%RSD	.3945084	.3709806	16.79807	104.8900	.2383386	33.23638	1.994123
#1	.7231857	.7264726	.0008680	.0005789	81.73845	-.003065	.0084461
#2	.7273347	.7317856	.0006396	.0001510	82.03100	-.002652	.0083862
#3	.7218584	.7300219	.0006776	.0000613	81.66142	-.001517	.0081334

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.012985	.0011723	-.000009	-.002336	-.000538	.1659455	.0051173
Stddev	.030194	.0001539	.000055	.000263	.000462	.0033203	.0018640
%RSD	2.980697	13.12388	628.2165	11.25742	85.84829	2.000841	36.42648
#1	.980549	.0010659	.000009	-.002539	-.001070	.1682272	.0045353
#2	1.018132	.0011023	-.000070	-.002039	-.000233	.1674730	.0036136
#3	1.040275	.0013487	.000035	-.002430	-.000312	.1621364	.0072029

Sample Name: P4472-08LX5 Acquired: 10/24/2024 16:50:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1078908	.0092459	.0663068
Stddev	.0036666	.0000381	.0001224
%RSD	3.398465	.4115547	.1845889
#1	.1038284	.0092114	.0664073
#2	.1109549	.0092395	.0663427
#3	.1088891	.0092867	.0661705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2700.337	56098.04	13568.77	1903.758	4098.324
Stddev	6.421	120.05	18.38	4.952	5.776
%RSD	.2377823	.2140045	.1354494	.2601175	.1409351
#1	2692.945	56219.77	13559.92	1907.845	4091.880
#2	2703.536	56094.60	13556.49	1905.177	4103.036
#3	2704.529	55979.74	13589.90	1898.251	4100.057

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV05 Acquired: 10/24/2024 16:55:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.915193	5.377767	4.839285	5.036767	4.921387	9.594204	9.444036
Stddev	.009136	.018353	.012952	.012282	.017794	.023299	.080552
%RSD	.1858767	.3412664	.2676419	.2438514	.3615606	.2428484	.8529387
#1	4.925541	5.375147	4.852086	5.045214	4.939257	9.613623	9.469665
#2	4.908241	5.397289	4.839582	5.042410	4.921236	9.600620	9.508655
#3	4.911797	5.360865	4.826187	5.022677	4.903670	9.568369	9.353788

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2361687	2.398438	23.42790	.9447926	2.407920	1.231655	4.692978
Stddev	.0009865	.007662	.05388	.0032328	.008496	.004412	.003686
%RSD	.4177031	.3194611	.2299743	.3421758	.3528210	.3582427	.0785469
#1	.2364245	2.406983	23.40896	.9416801	2.416878	1.236416	4.688982
#2	.2370021	2.396153	23.48870	.9445639	2.406902	1.230846	4.696246
#3	.2350795	2.392178	23.38606	.9481337	2.399979	1.227703	4.693705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.360584	26.70758	2.417223	1.241691	24.27539	2.574321	2.474647
Stddev	.009042	.15276	.008747	.001381	.18121	.021564	.012553
%RSD	.3830516	.5719699	.3618806	.1111872	.7464610	.8376520	.5072823
#1	2.364223	26.57601	2.426318	1.243090	24.47871	2.594965	2.488205
#2	2.367240	26.87511	2.416483	1.241654	24.21656	2.576054	2.472309
#3	2.350290	26.67161	2.408870	1.240329	24.13091	2.551942	2.463427

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.53596	4.670793	4.953743	4.838211	4.592708	4.883509	4.839068
Stddev	.05287	.017475	.013633	.015063	.017033	.026464	.013691
%RSD	.2070539	.3741283	.2752142	.3113350	.3708639	.5419077	.2829177
#1	25.58460	4.674673	4.966833	4.855582	4.608708	4.856316	4.854230
#2	25.47968	4.686001	4.954771	4.830287	4.594613	4.885034	4.835363
#3	25.54361	4.651704	4.939625	4.828764	4.574803	4.909178	4.827612

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV05 Acquired: 10/24/2024 16:55:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.761210	4.609608	4.797260
Stddev	.009912	.040654	.042817
%RSD	.2081766	.8819493	.8925365
#1	4.766375	4.651241	4.796415
#2	4.767473	4.607575	4.840494
#3	4.749783	4.570008	4.754872

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2722.667	57680.57	12878.66	1926.223	4096.161
Stddev	9.250	133.70	69.46	14.693	15.906
%RSD	.3397365	.2317866	.5393214	.7627879	.3883262
#1	2714.013	57611.12	12851.18	1912.839	4079.648
#2	2721.573	57595.89	12827.16	1923.884	4097.452
#3	2732.415	57834.70	12957.66	1941.944	4111.383

Sample Name: CCB05 Acquired: 10/24/2024 16:59:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0017785	.0004591	.0005553	.0002493	.0009657	-.000234	-.000575
Stddev	.0007929	.0007403	.0003445	.0004863	.0006712	.000681	.000425
%RSD	44.58066	161.2360	62.04721	195.1050	69.50302	290.7538	73.91287
#1	.0011403	-.000237	.0008881	-.000146	.0013311	-.000733	-.000898
#2	.0015292	.001237	.0002001	.000792	.0001911	-.000511	-.000732
#3	.0026660	.000377	.0005775	.000102	.0013749	.000542	-.000094

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000940	.0001492	.0039682	.0001889	.0001928	.0000812	.0001076
Stddev	.0000166	.0000093	.0035094	.0002222	.0000354	.0001425	.0018061
%RSD	17.62514	6.255151	88.43743	117.6279	18.33807	175.4641	1679.013
#1	.0001124	.0001597	-.000080	-.000010	.0002270	-.000009	.0021914
#2	.0000894	.0001463	.006145	.000429	.0001564	.000007	-.000864
#3	.0000803	.0001417	.005840	.000148	.0001951	.000246	-.001005

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000067	-.002474	.0000988	.0003639	.2324642	-.001552	.0001700
Stddev	.000156	.003013	.0001584	.0001716	.0077460	.001388	.0001770
%RSD	231.9053	121.7730	160.3624	47.16108	3.332122	89.38709	104.1470
#1	-.000134	-.004948	.0002486	.0003579	.2239725	-.002660	.0003026
#2	.000111	.000881	-.000067	.0005384	.2342772	.000004	-.000031
#3	-.000178	-.003355	.000115	.0001954	.2391429	-.002001	.000238

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2440890	.0026914	.0002379	-.000609	.0000371	.0018522	.0017501
Stddev	.0323337	.0003722	.0001242	.000584	.0002756	.0032817	.0010092
%RSD	13.24668	13.82835	52.20188	96.02207	742.9452	177.1753	57.66680
#1	.2193752	.0030742	.0003739	-.001152	-.000125	-.001718	.0018353
#2	.2322097	.0026691	.0001305	-.000684	-.000119	.002538	.0007010
#3	.2806820	.0023309	.0002093	.000010	.000355	.004737	.0027141

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB05 Acquired: 10/24/2024 16:59:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005189	.0029361	.0000851
Stddev	.001751	.0011060	.0000130
%RSD	33.75181	37.67047	15.20983
#1	-.003315	.0038898	.0000905
#2	-.006784	.0017236	.0000703
#3	-.005468	.0031948	.0000945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2831.659	58843.07	13447.85	2000.061	4597.760
Stddev	2.113	93.65	5.01	9.358	2.766
%RSD	.0746155	.1591593	.0372812	.4678893	.0601515
#1	2832.144	58813.91	13450.44	1994.693	4596.930
#2	2833.488	58767.46	13451.04	1994.623	4600.846
#3	2829.346	58947.84	13442.07	2010.867	4595.505

Sample Name: P4472-08MS Acquired: 10/24/2024 17:03:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7547530	1.869497	.8812442	1.904668	.8059014	1.825933	.6788863
Stddev	.0032877	.041171	.0037782	.002946	.0004343	.010669	.0026218
%RSD	.4356015	2.202229	.4287299	.1546558	.0538844	.5843212	.3861965
#1	.7526644	1.901425	.8805117	1.901770	.8057398	1.828472	.6782784
#2	.7530519	1.823029	.8778860	1.904575	.8055711	1.835103	.6766218
#3	.7585427	1.884036	.8853350	1.907659	.8063933	1.814223	.6817587

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1750180	.1816098	154.6458	.3698942	.1967427	.2878887	2.986056
Stddev	.0007985	.0004908	.7114	.0008846	.0006281	.0005925	.008929
%RSD	.4562693	.2702262	.4599868	.2391511	.3192255	.2058025	.2990283
#1	.1757354	.1817433	155.3441	.3688939	.1965000	.2878235	2.976998
#2	.1741577	.1810661	154.6710	.3702156	.1962721	.2873315	2.994850
#3	.1751610	.1820200	153.9221	.3705732	.1974558	.2885111	2.986320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.172731	4.864419	.4865871	.0762179	359.4602	.2961302	.2415206
Stddev	.014020	.026709	.0014197	.0000859	.7549	.0025208	.0009537
%RSD	.4418810	.5490604	.2917741	.1126670	.2100074	.8512551	.3948646
#1	3.188652	4.841237	.4861859	.0761763	358.7070	.2977053	.2407858
#2	3.162235	4.893625	.4854111	.0761608	360.2167	.2932227	.2425983
#3	3.167304	4.858396	.4881642	.0763167	359.4570	.2974624	.2411776

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.71412	.2442012	.4175434	.6779578	.1747063	1.457047	6.178916
Stddev	.08042	.0004773	.0011075	.0034001	.0002730	.002330	.029704
%RSD	.6325452	.1954504	.2652433	.5015217	.1562645	.1598876	.4807370
#1	12.63891	.2447467	.4172642	.6791829	.1747188	1.456419	6.208552
#2	12.70455	.2438605	.4166022	.6741149	.1749729	1.455096	6.149143
#3	12.79890	.2439963	.4187638	.6805755	.1744273	1.459627	6.179053

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08MS Acquired: 10/24/2024 17:03:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4526274	.2006306	.4660201
Stddev	.0055400	.0007526	.0009316
%RSD	1.223970	.3751217	.1999099
#1	.4573952	.2014995	.4659314
#2	.4465499	.2002081	.4651360
#3	.4539372	.2001841	.4669929

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2517.306	54862.06	13293.58	1785.732	3675.777
Stddev	5.606	97.13	88.41	10.319	2.625
%RSD	.2226938	.1770378	.6650657	.5778404	.0714075
#1	2517.822	54767.79	13193.15	1778.559	3675.885
#2	2511.459	54856.57	13327.96	1781.079	3673.100
#3	2522.635	54961.81	13359.64	1797.557	3678.346

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08MSD Acquired: 10/24/2024 17:08:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7560274	1.873212	.8793862	1.901910	.8002600	1.813438	.6746808
Stddev	.0023702	.031505	.0011781	.004088	.0029785	.004565	.0013984
%RSD	.3135073	1.681862	.1339654	.2149476	.3721957	.2517080	.2072702
#1	.7552192	1.845780	.8780759	1.897203	.8036687	1.808429	.6747390
#2	.7541671	1.907621	.8803579	1.904569	.7981592	1.817362	.6760491
#3	.7586960	1.866236	.8797249	1.903958	.7989521	1.814525	.6732541

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1746148	.1812661	154.0869	.3683952	.1958839	.2857378	2.972285
Stddev	.0005065	.0002483	.4977	.0009270	.0001548	.0000988	.022345
%RSD	.2900704	.1370072	.3230197	.2516328	.0790301	.0345747	.7517929
#1	.1750715	.1814745	153.6010	.3674829	.1960066	.2858451	2.964887
#2	.1740701	.1809913	154.0642	.3683665	.1957100	.2856506	2.954576
#3	.1747027	.1813325	154.5956	.3693363	.1959351	.2857178	2.997391

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.179614	4.487730	.4855300	.0759583	353.5336	.2927393	.2410956
Stddev	.008704	.011414	.0002350	.0003485	.7389	.0026128	.0004316
%RSD	.2737541	.2543304	.0484047	.4588701	.2089955	.8925273	.1790303
#1	3.169659	4.474577	.4857842	.0762585	354.2615	.2914230	.2412711
#2	3.183390	4.495034	.4853206	.0760403	353.5552	.2957484	.2414118
#3	3.185792	4.493578	.4854851	.0755760	352.7843	.2910464	.2406038

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.62374	.2430381	.4169071	.6807682	.1738803	1.433362	6.174777
Stddev	.00537	.0010832	.0002649	.0017475	.0006833	.002635	.012687
%RSD	.0425508	.4457017	.0635420	.2566930	.3929854	.1838590	.2054727
#1	12.62145	.2442882	.4168312	.6806282	.1740505	1.433491	6.173871
#2	12.62987	.2424510	.4172017	.6825815	.1731280	1.430665	6.187893
#3	12.61989	.2423752	.4166884	.6790949	.1744624	1.435931	6.162566

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-08MSD Acquired: 10/24/2024 17:08:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4484486	.1979597	.4641419
Stddev	.0026490	.0008743	.0002651
%RSD	.5906963	.4416731	.0571043
#1	.4466406	.1984164	.4642888
#2	.4472159	.1985112	.4643010
#3	.4514893	.1969516	.4638359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.255	55253.75	13339.98	1805.239	3697.942
Stddev	3.891	168.89	29.01	6.371	7.315
%RSD	.1534842	.3056709	.2174652	.3529346	.1978091
#1	2531.334	55106.84	13326.45	1809.143	3693.220
#2	2535.316	55438.29	13373.28	1808.686	3694.237
#3	2539.116	55216.13	13320.20	1797.886	3706.368

Sample Name: P4472-08A Acquired: 10/24/2024 17:12:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7618696	1.894289	.8794770	1.919783	.8033990	1.816992	.6758776
Stddev	.0032659	.007374	.0012647	.007257	.0037018	.010169	.0007966
%RSD	.4286671	.3892517	.1438054	.3780027	.4607676	.5596858	.1178556
#1	.7632979	1.902792	.8801940	1.923881	.8013479	1.820116	.6751415
#2	.7641781	1.890410	.8780167	1.924063	.8011768	1.805627	.6767233
#3	.7581329	1.889665	.8802203	1.911404	.8076723	1.825234	.6757680

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1754075	.1818869	153.9085	.3719608	.1963796	.2871950	3.035223
Stddev	.0003557	.0005065	.4191	.0002891	.0002600	.0006226	.009196
%RSD	.2027830	.2784700	.2723088	.0777247	.1324058	.2168055	.3029644
#1	.1756678	.1820806	153.4376	.3718446	.1964213	.2864763	3.024974
#2	.1755524	.1813122	154.0475	.3717479	.1961012	.2875379	3.042752
#3	.1750022	.1822681	154.2405	.3722899	.1966161	.2875709	3.037944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.161055	4.475914	.4866666	.0771362	366.4699	.2935039	.2436384
Stddev	.008982	.022904	.0013457	.0000995	1.9293	.0023385	.0008810
%RSD	.2841333	.5117237	.2765138	.1290478	.5264528	.7967603	.3616187
#1	3.162532	4.463822	.4880904	.0770393	366.8676	.2924690	.2442014
#2	3.151426	4.461590	.4854158	.0771311	364.3728	.2961813	.2440908
#3	3.169207	4.502330	.4864935	.0772382	368.1694	.2918615	.2426231

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.97551	.2437031	.4189653	.6815625	.1743704	1.473304	6.149519
Stddev	.02952	.0013953	.0009841	.0033257	.0002863	.006072	.009850
%RSD	.2274767	.5725544	.2348881	.4879473	.1641814	.4121556	.1601729
#1	12.94760	.2450664	.4191035	.6849164	.1740700	1.466794	6.158833
#2	12.97252	.2422778	.4179194	.6782658	.1744010	1.478815	6.139209
#3	13.00641	.2437652	.4198730	.6815053	.1746401	1.474302	6.150515

Sample Name: P4472-08A Acquired: 10/24/2024 17:12:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4537274	.1996552	.4645314
Stddev	.0020782	.0009782	.0009617
%RSD	.4580361	.4899553	.2070255
#1	.4542859	.1994211	.4634299
#2	.4514270	.1988152	.4652045
#3	.4554694	.2007292	.4649598

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2517.968	54023.52	13338.72	1791.522	3674.832
Stddev	4.609	30.70	19.48	6.219	3.959
%RSD	.1830330	.0568307	.1460310	.3471347	.1077260
#1	2523.267	54001.13	13317.73	1784.766	3676.630
#2	2515.746	54058.52	13356.22	1792.792	3677.572
#3	2514.892	54010.91	13342.20	1797.008	3670.293

Sample Name: PB164301TB Acquired: 10/24/2024 17:16:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006308	-.008658	.0005471	.0035673	.0014163	.0072574
Stddev	.002387	.000574	.0007880	.0025156	.0008104	.0037809
%RSD	37.84367	6.629079	144.0418	70.51876	57.21800	52.09777
#1	-.007391	-.007997	.0011052	.0014044	.0008301	.0068107
#2	-.007963	-.009030	-.000354	.0063281	.0010779	.0112419
#3	-.003572	-.008947	.000890	.0029696	.0023411	.0037197

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001920	-.000109	-.000086	.0065129	.0011164	-.000154
Stddev	.000373	.000009	.000029	.0026445	.0005078	.000064
%RSD	19.42092	8.618976	33.01174	40.60413	45.48528	41.77925
#1	-.001993	-.000116	-.000106	.0058869	.0016968	-.000113
#2	-.002251	-.000112	-.000100	.0094143	.0007545	-.000120
#3	-.001516	-.000098	-.000054	.0042376	.0008978	-.000228

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003114	.0323666	.0046404	.0062157	.0007574	.0001522
Stddev	.0001863	.0033872	.0002977	.0101038	.0000928	.0001010
%RSD	59.84039	10.46499	6.414790	162.5533	12.25104	66.37518
#1	.0004466	.0346368	.0043141	.0125558	.0008545	.0000414
#2	.0003887	.0284733	.0048971	.0115273	.0007483	.0002391
#3	.0000988	.0339897	.0047101	-.005436	.0006696	.0001760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 461.7292	-.001237	.0044617	.2146800	-.000974	.0007113
Stddev	2.9919	.000991	.0002018	.0392232	.000198	.0000400
%RSD	.6479772	80.10205	4.522639	18.27054	20.35213	5.623709
#1	458.6330	-.001054	.0044700	.2108243	-.000953	.0007265
#2	464.6046	-.002307	.0042559	.1775271	-.001181	.0007414
#3	461.9499	-.000350	.0046592	.2556886	-.000786	.0006659

Sample Name: PB164301TB Acquired: 10/24/2024 17:16:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0011641	.0002042	.0143100	.0070871	F .0224870	.0014847
Stddev	.0009249	.0005716	.0051807	.0018344	.0024218	.0008831
%RSD	79.45313	279.9322	36.20290	25.88339	10.76977	59.48315
#1	.0012313	.0008026	.0083767	.0051487	.0249183	.0004650
#2	.0002074	-.000336	.0179366	.0073167	.0224680	.0020017
#3	.0020535	.000146	.0166168	.0087959	.0200748	.0019874

Elem	Sr4077
Units	ppm
Avg	.0000151
Stddev	.0000144
%RSD	95.31256
#1	.0000317
#2	.0000053
#3	.0000083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2502.435	54056.98	13587.58	1801.080	3763.825
Stddev	.577	72.92	29.34	5.042	2.193
%RSD	.0230450	.1348906	.2159476	.2799644	.0582656
#1	2501.838	54104.40	13590.33	1806.603	3761.293
#2	2502.989	53973.02	13556.96	1796.722	3765.087
#3	2502.478	54093.52	13615.45	1799.915	3765.097

Sample Name: PB164319BL Acquired: 10/24/2024 17:21:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000784	-.001211	-.000030	-.001316	.0002409	-.003247	-.001529
Stddev	.001944	.000741	.001273	.001015	.0009724	.002725	.000469
%RSD	247.8490	61.18950	4237.977	77.15490	403.6930	83.91539	30.69223
#1	.000662	-.000584	.001160	-.000576	-.000427	-.006277	-.000999
#2	-.000020	-.002029	.000123	-.000898	.001356	-.000998	-.001893
#3	-.002994	-.001020	-.001373	-.002473	-.000207	-.002466	-.001695

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000304	.0001076	.0047092	.0005360	.0001199	-.000264	-.001278
Stddev	.0000307	.0000722	.0059455	.0006861	.0001824	.000168	.002809
%RSD	100.9255	67.16954	126.2522	127.9879	152.1499	63.83707	219.8512
#1	.0000150	.0000402	.0029427	.0012167	.0000299	-.000409	-.001188
#2	.0000105	.0000987	-.000153	-.000155	.0003298	-.000303	-.004130
#3	.0000658	.0001838	.011338	.000547	-.000000	-.000079	.001485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000701	-.010691	.0000132	.0002670	.4457192	-.001711	.0000229
Stddev	.0001983	.007158	.0000689	.0000449	.0151269	.001743	.0003458
%RSD	282.8137	66.95458	522.6907	16.80706	3.393811	101.8524	1512.912
#1	.0001206	-.013739	-.000010	.0002273	.4605307	-.003684	-.000290
#2	.0002384	-.002514	.000091	.0002580	.4463312	-.001072	-.000036
#3	-.000149	-.015822	-.000041	.0003157	.4302956	-.000378	.000394

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2799528	-.000749	-.000178	-.000530	-.000194	-.002780	.0015389
Stddev	.0235359	.000071	.000262	.000486	.000735	.003859	.0022263
%RSD	8.407099	9.423566	147.3704	91.81569	378.6768	138.7904	144.6695
#1	.2535921	-.000747	-.000456	-.001065	.000122	-.001009	-.000327
#2	.2988579	-.000679	-.000144	-.000115	-.001034	-.000126	.004003
#3	.2874085	-.000821	.000066	-.000409	.000330	-.007207	.000940

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164319BL Acquired: 10/24/2024 17:21:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005785	.0019020	-.000004
Stddev	.001798	.0012037	.000015
%RSD	31.08750	63.28674	425.7659
#1	-.005855	.0028117	.000010
#2	-.007547	.0023573	-.000000
#3	-.003953	.0005371	-.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2859.908	61600.35	13704.87	2059.911	4674.290
Stddev	11.442	75.42	42.83	8.188	8.018
%RSD	.4000675	.1224299	.3124837	.3974815	.1715263
#1	2850.070	61627.17	13655.52	2052.040	4666.938
#2	2872.464	61515.19	13732.23	2068.382	4682.838
#3	2857.191	61658.69	13726.88	2059.311	4673.092

Sample Name: PB164319BS Acquired: 10/24/2024 17:25:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7367679	2.130059	.9249381	1.903966	.7915650	1.869140
Stddev	.0007890	.000551	.0021723	.003149	.0030655	.005437
%RSD	.1070896	.0258594	.2348602	.1654092	.3872651	.2908658
#1	.7360426	2.129444	.9229255	1.907077	.7880521	1.868892
#2	.7376080	2.130230	.9272409	1.900779	.7929447	1.863831
#3	.7366530	2.130505	.9246480	1.904043	.7936982	1.874696

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1819070	.1868543	.1800003	.9514348	.3860888	.1948324
Stddev	.0011392	.0008171	.0001885	.0083134	.0013636	.0000147
%RSD	.6262770	.4373179	.1047014	.8737789	.3531785	.0075659
#1	.1828555	.1873711	.1801718	.9418724	.3845194	.1948475
#2	.1806433	.1859122	.1797985	.9554858	.3869836	.1948181
#3	.1822220	.1872796	.1800306	.9569463	.3867634	.1948316

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3088014	2.827945	.1911763	1.920610	.4900478	.0758969
Stddev	.0005521	.010914	.0011933	.016576	.0005827	.0007344
%RSD	.1788043	.3859258	.6241746	.8630499	.1188993	.9676654
#1	.3081647	2.820239	.1923301	1.903089	.4907179	.0762431
#2	.3090900	2.823163	.1899472	1.936042	.4897648	.0750533
#3	.3091494	2.840434	.1912518	1.922700	.4896606	.0763941

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.008309	.3018011	.2051962	10.13282	.2722971	.4137185
Stddev	.007447	.0047146	.0006030	.03103	.0024934	.0006683
%RSD	.2475631	1.562143	.2938620	.3062787	.9156862	.1615380
#1	3.002831	.3063583	.2054826	10.14529	.2730645	.4129471
#2	3.016789	.2969435	.2045034	10.15567	.2695102	.4141243
#3	3.005307	.3021016	.2056026	10.09749	.2743166	.4140840

Sample Name: PB164319BS Acquired: 10/24/2024 17:25:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6847804	.1814426	F .6933511	5.517450	F -.017514	.1741131
Stddev	.0003665	.0012543	.0082024	.018840	.001614	.0016385
%RSD	.0535274	.6912689	1.183001	.3414579	9.218076	.9410486
#1	.6851249	.1817036	.6844439	5.532898	-.015991	.1753072
#2	.6848213	.1800784	.6950164	5.496461	-.019207	.1722451
#3	.6843952	.1825458	.7005931	5.522992	-.017343	.1747870

Elem	Sr4077
Units	ppm
Avg	.1888698
Stddev	.0009390
%RSD	.4971937
#1	.1897930
#2	.1879156
#3	.1889009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.224	60129.75	13508.28	2018.501	4485.169
Stddev	5.077	46.77	71.34	7.290	4.684
%RSD	.1792071	.0777891	.5281495	.3611550	.1044435
#1	2838.297	60176.05	13449.79	2015.069	4489.739
#2	2833.232	60082.52	13587.76	2026.873	4485.390
#3	2828.142	60130.68	13487.28	2013.560	4480.378

Sample Name: P4467-01 Acquired: 10/24/2024 17:29:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0213138	.0024198	.1744836	-.047923	.0002003	87.58614	.7815033
Stddev	.0020576	.0027406	.0005554	.002279	.0013819	.09115	.0015520
%RSD	9.653809	113.2555	.3182929	4.756342	690.0424	.1040725	.1985923
#1	.0224669	.0048106	.1740090	-.045342	-.000753	87.50169	.7817849
#2	.0225363	.0030199	.1750944	-.048767	.001785	87.68277	.7828951
#3	.0189382	-.000571	.1743475	-.049660	-.000432	87.57395	.7798297

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107668	.0095393	17.18113	.1896399	.1213933	.3774613	243.9799
Stddev	.0001019	.0001497	.03048	.0012720	.0004297	.0013324	.8775
%RSD	.9464346	1.568933	.1774237	.6707182	.3539934	.3529972	.3596552
#1	.0107366	.0096811	17.15218	.1907298	.1209097	.3779431	243.0466
#2	.0108804	.0093828	17.21295	.1899476	.1217311	.3759551	244.7881
#3	.0106834	.0095539	17.17826	.1882423	.1215393	.3784859	244.1050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.406872	31.44326	.1918626	.0022595	7.816998	.2739254	.4986444
Stddev	.015447	.14105	.0002063	.0003373	.016497	.0011405	.0012650
%RSD	.2410979	.4485862	.1075219	14.92928	.2110459	.4163691	.2536866
#1	6.401835	31.30113	.1916491	.0019301	7.826762	.2732870	.4985734
#2	6.424208	31.58320	.1920608	.0026042	7.826281	.2752422	.4999435
#3	6.394572	31.44547	.1918778	.0022443	7.797950	.2732471	.4974165

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.41663	.1615521	-.000578	.0062144	2.939627	5.046124	6.172795
Stddev	.02601	.0002687	.000201	.0003018	.005103	.011699	.013631
%RSD	.1493468	.1663392	34.75828	4.857256	.1735818	.2318443	.2208166
#1	17.40789	.1618623	-.000454	.0059092	2.935865	5.032867	6.161479
#2	17.44588	.1614035	-.000809	.0062214	2.945435	5.050501	6.187927
#3	17.39611	.1613904	-.000470	.0065128	2.937582	5.055003	6.168978

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4467-01 Acquired: 10/24/2024 17:29:25 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.2581736	.1016452	-.157827
Stddev	.0032840	.0018596	.000923
%RSD	1.272010	1.829493	.5846025
#1	.2580031	.1034890	-.156809
#2	.2615395	.0997702	-.158609
#3	.2549782	.1016764	-.158061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3082.357	64371.99	15906.10	2162.682	4014.610
Stddev	5.970	133.53	48.66	13.411	3.078
%RSD	.1936702	.2074408	.3059258	.6200889	.0766822
#1	3078.349	64500.82	15934.73	2178.151	4016.174
#2	3089.218	64234.21	15849.91	2154.336	4016.592
#3	3079.504	64380.94	15933.64	2155.559	4011.063

Sample Name: P4468-01 Acquired: 10/24/2024 17:33:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0696452	-.026912	.1044373	-.041996	.0055321	150.9597
Stddev	.0037029	.002728	.0015117	.003729	.0015337	.0680
%RSD	5.316851	10.13674	1.447481	8.879680	27.72402	.0450231
#1	.0670881	-.029056	.1053120	-.037726	.0056350	150.9978
#2	.0679560	-.023841	.1053083	-.044613	.0070118	150.8812
#3	.0738915	-.027838	.1026918	-.043650	.0039495	151.0000

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079134	.0103849	.0150835	1330.617	.3328164	.0610952
Stddev	.005111	.0000181	.0003618	7.789	.0023800	.0006326
%RSD	.4736390	.1744663	2.398564	.5853948	.7151238	1.035391
#1	1.085011	.0103757	.0151997	1331.517	.3300821	.0611666
#2	1.075721	.0104058	.0153729	1322.417	.3344225	.0616891
#3	1.076672	.0103734	.0146779	1337.918	.3339447	.0604300

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1642123	167.4418	2.630959	65.90134	.1605645	.0033735
Stddev	.0006792	.4816	.012629	.35461	.0007799	.0000441
%RSD	.4135777	.2876041	.4800281	.5380934	.4857556	1.307010
#1	.1643370	167.3964	2.641279	66.14424	.1609140	.0033255
#2	.1648205	166.9845	2.616876	65.49441	.1611085	.0033828
#3	.1634794	167.9444	2.634723	66.06536	.1596709	.0034122

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.663055	.2552834	1.536037	25.12018	.4979307	.0278315
Stddev	.019924	.0034823	.001971	.06849	.0021121	.0004486
%RSD	.2299921	1.364088	.1283270	.2726673	.4241785	1.611849
#1	8.685772	.2579839	1.538211	25.19858	.4964588	.0277940
#2	8.654846	.2513531	1.534366	25.09005	.4969826	.0282977
#3	8.648546	.2565133	1.535534	25.07192	.5003507	.0274029

Sample Name: P4468-01 Acquired: 10/24/2024 17:33:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0110517	7.380206	F 225.9177	F 11.00954	F 77.45702	.4942241
Stddev	.0023915	.023754	.9067	.00472	.08559	.0054682
%RSD	21.63907	.3218672	.4013517	.0428660	.1105052	1.106420
#1	.0124424	7.403736	224.9714	11.00420	77.37000	.4923517
#2	.0082903	7.356233	226.0030	11.01122	77.54112	.5003825
#3	.0124224	7.380650	226.7788	11.01318	77.45992	.4899380

Elem	Sr4077
Units	ppm
Avg	7.324687
Stddev	.024772
%RSD	.3382014
#1	7.306369
#2	7.314819
#3	7.352872

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.807	56664.99	14977.06	1882.587	3093.892
Stddev	12.845	105.36	60.45	9.843	11.517
%RSD	.4851237	.1859335	.4036215	.5228638	.3722463
#1	2633.519	56637.94	14938.11	1871.680	3081.605
#2	2651.502	56781.23	15046.70	1890.810	3095.628
#3	2658.399	56575.79	14946.36	1885.271	3104.442

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-03 Acquired: 10/24/2024 17:37:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0308434	-.022880	.1423188	-.051227	-.002048	114.2289	.4894078
Stddev	.0010727	.003490	.0003325	.000831	.000465	.0784	.0012020
%RSD	3.477974	15.25254	.2336443	1.622888	22.72079	.0686127	.2455929
#1	.0298826	-.018854	.1420234	-.050274	-.001543	114.3172	.4907945
#2	.0306467	-.025042	.1422540	-.051604	-.002459	114.1676	.4887642
#3	.0320008	-.024744	.1426789	-.051803	-.002142	114.2020	.4886648

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063235	.0131040	61.28117	.3496549	.1558626	.4513082	243.5734
Stddev	.0000865	.0001880	.19357	.0013475	.0002599	.0002800	1.1225
%RSD	1.367852	1.434464	.3158680	.3853831	.1667781	.0620514	.4608314
#1	.0064063	.0132743	61.25019	.3489338	.1556819	.4512092	243.5857
#2	.0063305	.0131355	61.10497	.3512095	.1557454	.4510910	242.4449
#3	.0062338	.0129023	61.48836	.3488215	.1561605	.4516242	244.6897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.112053	64.80800	.2764979	.0027974	3.095789	.4950048	.5968716
Stddev	.008389	.21006	.0005153	.0001958	.009651	.0058859	.0023227
%RSD	.1641097	.3241339	.1863680	6.999328	.3117614	1.189067	.3891520
#1	5.118835	64.96286	.2770528	.0029072	3.092987	.4986874	.5995447
#2	5.102672	64.56888	.2764063	.0025714	3.087848	.4882165	.5957246
#3	5.114652	64.89224	.2760345	.0029137	3.106531	.4981105	.5953455

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.848511	.7406025	.0051985	-.003728	9.743904	8.436682	5.787925
Stddev	.022622	.0031965	.0005367	.001054	.013032	.024577	.017466
%RSD	.2296965	.4316061	10.32430	28.26604	.1337434	.2913065	.3017632
#1	9.870291	.7437436	.0054115	-.004915	9.752287	8.439447	5.806506
#2	9.850111	.7373533	.0055961	-.002902	9.728890	8.410840	5.785426
#3	9.825132	.7407106	.0045880	-.003368	9.750535	8.459759	5.771844

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-03 Acquired: 10/24/2024 17:37:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5143652	.1359241	-.077350
Stddev	.0024919	.0007498	.001297
%RSD	.4844588	.5516351	1.676781
#1	.5167459	.1367862	-.076839
#2	.5145743	.1354238	-.076387
#3	.5117753	.1355623	-.078825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3044.852	66048.51	16005.99	2188.314	3948.168
Stddev	2.758	163.14	49.85	12.868	4.535
%RSD	.0905659	.2469981	.3114247	.5880366	.1148705
#1	3043.505	65882.08	15948.45	2173.854	3942.936
#2	3048.025	66208.14	16035.87	2198.503	3950.967
#3	3043.028	66055.30	16033.65	2192.586	3950.602

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-05 Acquired: 10/24/2024 17:41:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0268125	-.022989	.1242343	-.044925	-.001867	107.7522
Stddev	.0022957	.003756	.0032806	.002175	.001547	.0242
%RSD	8.562177	16.33593	2.640689	4.840624	82.83906	.0224817
#1	.0290928	-.020177	.1264656	-.046536	-.002675	107.7717
#2	.0245017	-.027254	.1204675	-.042452	-.002843	107.7251
#3	.0268429	-.021537	.1257697	-.045788	-.000084	107.7597

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4576453	.0059753	.0133810	52.21445	.3002945	.1557691
Stddev	.0013278	.0000413	.0001782	.17346	.0010083	.0001713
%RSD	.2901352	.6904787	1.331451	.3322060	.3357853	.1099524
#1	.4576663	.0059958	.0135496	52.01649	.2991434	.1558539
#2	.4589625	.0060023	.0131946	52.28701	.3007186	.1555720
#3	.4563072	.0059278	.0133987	52.33985	.3010215	.1558815

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4258206	219.8397	4.157473	59.88800	.2584320	.0029462
Stddev	.0023929	1.0078	.017493	.25521	.0013183	.0003585
%RSD	.5619570	.4584104	.4207544	.4261405	.5101319	12.16746
#1	.4274708	218.7404	4.137278	59.60861	.2580714	.0025663
#2	.4230762	220.0586	4.167196	60.10886	.2573315	.0029937
#3	.4269148	220.7200	4.167944	59.94654	.2598931	.0032786

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.115895	.4477495	.5080926	8.962496	.2299024	.0019042
Stddev	.001346	.0013276	.0012517	.033187	.0009759	.0001289
%RSD	.0636016	.2965002	.2463550	.3702825	.4244658	6.769926
#1	2.115602	.4466830	.5086967	8.966279	.2291310	.0018212
#2	2.117363	.4492364	.5066534	8.993629	.2295768	.0020527
#3	2.114720	.4473292	.5089277	8.927580	.2309995	.0018387

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4468-05 Acquired: 10/24/2024 17:41:57 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001611	8.502637	F 12.65961	6.519642	.4555356	.1354204
Stddev	.000672	.016201	.03977	.014738	.0068880	.0010299
%RSD	41.72249	.1905420	.3141815	.2260554	1.512055	.7605011
#1	-.002378	8.490852	12.64890	6.526849	.4617466	.1343590
#2	-.001123	8.521112	12.62629	6.502687	.4481276	.1364155
#3	-.001333	8.495949	12.70364	6.529390	.4567325	.1354866

Elem	Sr4077
Units	ppm
Avg	-.043080
Stddev	.001344
%RSD	3.120732
#1	-.041854
#2	-.042868
#3	-.044518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3112.754	67429.67	16270.18	2212.791	3923.836
Stddev	2.935	100.46	12.20	9.873	5.045
%RSD	.0943018	.1489857	.0749636	.4461787	.1285674
#1	3109.424	67316.83	16258.15	2203.825	3918.150
#2	3113.871	67509.39	16269.86	2223.372	3925.584
#3	3114.968	67462.80	16282.54	2211.175	3927.775

Sample Name: CCV06 Acquired: 10/24/2024 17:46:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048875	5.397609	4.923976	5.169588	5.052323	9.674721	9.490730
Stddev	.009090	.028341	.007356	.012426	.012173	.058273	.067977
%RSD	.1800413	.5250592	.1493868	.2403648	.2409449	.6023191	.7162447
#1	5.043028	5.366434	4.917838	5.157576	5.052856	9.741103	9.555107
#2	5.044250	5.404575	4.921962	5.168797	5.039891	9.651060	9.497435
#3	5.059348	5.421817	4.932130	5.182390	5.064221	9.632001	9.419650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2369600	2.442693	23.43409	.9441126	2.450873	1.259548	4.663830
Stddev	.0019192	.002928	.14451	.0029525	.002576	.000473	.019227
%RSD	.8099150	.1198616	.6166639	.3127225	.1050919	.0375418	.4122585
#1	.2389844	2.440413	23.58774	.9409088	2.450070	1.259866	4.647142
#2	.2367285	2.441672	23.41361	.9467238	2.448794	1.259005	4.684855
#3	.2351671	2.445995	23.30091	.9447054	2.453754	1.259774	4.659492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.399261	24.77670	2.469456	1.235401	24.73546	2.612705	2.480516
Stddev	.024417	.25648	.003023	.002263	.11690	.035015	.005905
%RSD	1.017680	1.035171	.1224308	.1831594	.4726170	1.340200	.2380668
#1	2.426624	25.07020	2.467674	1.234442	24.86814	2.651165	2.482452
#2	2.391465	24.66422	2.467748	1.237986	24.64758	2.604280	2.485211
#3	2.379694	24.59568	2.472947	1.233776	24.69067	2.582671	2.473886

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.70156	4.701324	5.047477	4.920699	4.597235	4.947143	4.928685
Stddev	.02130	.026889	.004564	.003072	.033960	.025966	.004197
%RSD	.0828631	.5719474	.0904122	.0624322	.7387115	.5248671	.0851580
#1	25.72491	4.728642	5.043688	4.920360	4.635717	4.920096	4.927096
#2	25.68320	4.700445	5.046200	4.917810	4.584524	4.949459	4.925514
#3	25.69658	4.674885	5.052543	4.923926	4.571464	4.971873	4.933444

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV06 Acquired: 10/24/2024 17:46:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.861077	4.734015	4.804907
Stddev	.013412	.065468	.038912
%RSD	.2758987	1.382927	.8098433
#1	4.847314	4.808221	4.832694
#2	4.861810	4.709412	4.760434
#3	4.874107	4.684413	4.821592

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2709.961	59333.27	13074.45	1966.912	4078.585
Stddev	3.426	80.05	116.84	8.893	5.313
%RSD	.1264260	.1349226	.8936804	.4521116	.1302665
#1	2706.258	59242.60	12942.81	1956.644	4073.470
#2	2713.018	59394.19	13114.65	1971.966	4084.076
#3	2710.607	59363.02	13165.89	1972.125	4078.211

Sample Name: CCB06 Acquired: 10/24/2024 17:50:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000220	-.000188	-.000069	-.000912	.0016523	-.002072	-.001934
Stddev	.001167	.000314	.000919	.001326	.0003189	.002437	.000520
%RSD	529.5657	167.2713	1340.155	145.4788	19.29969	117.6319	26.87039
#1	.000998	-.000417	-.000260	-.001436	.0014635	-.003339	-.002393
#2	-.001328	.000170	-.000878	.000597	.0014728	.000738	-.001370
#3	-.000331	-.000317	.000931	-.001896	.0020204	-.003614	-.002039

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000689	.0000625	.0004142	-.000049	.0002867	-.000124	.0009476
Stddev	.0000199	.0000708	.0008512	.000380	.0000893	.000559	.0016458
%RSD	28.85593	113.3361	205.5152	780.2002	31.14501	451.2822	173.6810
#1	.0000905	.0001188	-.000493	-.000469	.0002061	.000066	-.000951
#2	.0000651	.0000856	.000539	.000051	.0003828	.000315	.001972
#3	.0000513	-.000017	.001196	.000272	.0002713	-.000753	.001822

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000349	.0029213	.0000619	.0003233	.0470201	-.001457	.0000823
Stddev	.0001586	.0106694	.0001564	.0002310	.0026465	.002337	.0001414
%RSD	454.3074	365.2331	252.7546	71.43380	5.628451	160.4685	171.8020
#1	.0002134	.0063014	.0000339	.0005893	.0448941	-.000035	-.000080
#2	-.000090	-.009029	.0002304	.0002075	.0461820	-.000180	.000151
#3	-.000019	.011491	-.000079	.0001732	.0499842	-.004154	.000176

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0752190	.0031504	.0001194	-.000522	-.000308	.0088902	.0005432
Stddev	.0131393	.0000106	.0000048	.000941	.000439	.0027534	.0017188
%RSD	17.46807	.3353310	4.011836	180.2755	142.7228	30.97120	316.4140
#1	.0601806	.0031469	.0001193	-.000630	-.000001	.0080303	-.001399
#2	.0809986	.0031420	.0001242	.000468	-.000112	.0119709	.001162
#3	.0844778	.0031623	.0001147	-.001405	-.000811	.0066693	.001867

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB06 Acquired: 10/24/2024 17:50:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007762	.0013320	.0000648
Stddev	.002143	.0006494	.0000097
%RSD	27.60469	48.75532	14.89750
#1	-.007802	.0020673	.0000558
#2	-.005600	.0010922	.0000636
#3	-.009884	.0008366	.0000750

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2911.155	62028.80	13900.95	2078.236	4713.304
Stddev	.750	167.50	25.68	9.088	6.479
%RSD	.0257565	.2700292	.1847202	.4372968	.1374553
#1	2911.790	61911.83	13924.81	2068.969	4707.268
#2	2910.328	61953.90	13873.78	2078.606	4712.494
#3	2911.348	62220.68	13904.27	2087.133	4720.149

Sample Name: P4470-01 Acquired: 10/24/2024 17:56:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0210374	-.010207	.1226691	-.038230	.0015560	90.14669
Stddev	.0011023	.003245	.0009005	.001877	.0004385	.19546
%RSD	5.239680	31.79210	.7341114	4.908782	28.18152	.2168210
#1	.0197819	-.013735	.1230561	-.038042	.0015989	90.01411
#2	.0214840	-.009538	.1233114	-.040194	.0010976	90.37116
#3	.0218463	-.007349	.1216398	-.036455	.0019715	90.05482

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4702426	.0064773	.0094607	166.2138	.1360834	.1020802
Stddev	.0005507	.0000414	.0001887	.3814	.0002058	.0008329
%RSD	.1171118	.6389520	1.995008	.2294340	.1512178	.8159381
#1	.4696974	.0064308	.0096660	166.0929	.1359000	.1025528
#2	.4707987	.0064909	.0094213	166.6409	.1360443	.1025693
#3	.4702318	.0065101	.0092947	165.9075	.1363060	.1011185

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3582202	179.0649	3.394197	108.9123	.1859732	.0018128
Stddev	.0030715	.1521	.004281	.2255	.0011786	.0004282
%RSD	.8574333	.0849472	.1261382	.2070355	.6337415	23.62060
#1	.3605659	179.2257	3.391174	108.6645	.1865099	.0014908
#2	.3593512	178.9233	3.399096	109.1054	.1867879	.0016489
#3	.3547436	179.0457	3.392320	108.9671	.1846217	.0022987

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.972074	.3396024	.3755165	11.60350	.1292918	.0017306
Stddev	.012836	.0020996	.0020141	.02071	.0001782	.0002655
%RSD	.1287157	.6182463	.5363656	.1784969	.1378529	15.34447
#1	9.977402	.3417637	.3749456	11.59428	.1290867	.0016071
#2	9.957433	.3375705	.3777545	11.58899	.1293807	.0020354
#3	9.981389	.3394731	.3738495	11.62722	.1294082	.0015492

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4470-01 Acquired: 10/24/2024 17:56:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0053558	4.202774	F 15.26696	5.720741	6.971795	.1040912
Stddev	.0011037	.006965	.01551	.031351	.041125	.0014134
%RSD	20.60808	.1657210	.1015804	.5480255	.5898716	1.357810
#1	.0059248	4.198274	15.26810	5.734602	7.011906	.1025656
#2	.0060589	4.210797	15.28187	5.742772	6.973753	.1043520
#3	.0040836	4.199252	15.25091	5.684849	6.929727	.1053560

Elem	Sr4077
Units	ppm
Avg	.0199888
Stddev	.0004504
%RSD	2.253120
#1	.0195951
#2	.0204799
#3	.0198913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.144	61854.91	15255.27	2039.676	3768.668
Stddev	17.336	355.24	79.63	18.576	25.831
%RSD	.5973531	.5743133	.5220096	.9107211	.6854184
#1	2891.263	61457.85	15181.10	2024.066	3751.717
#2	2893.034	61964.25	15245.28	2034.740	3755.889
#3	2922.136	62142.62	15339.43	2060.221	3798.398

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4470-01DUP Acquired: 10/24/2024 18:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0207702	-.011660	.1243873	-.039956	.0010661	90.91725
Stddev	.0020088	.000925	.0025465	.003049	.0007524	.03357
%RSD	9.671774	7.934829	2.047239	7.632075	70.57743	.0369269
#1	.0186656	-.011834	.1273114	-.037620	.0002013	90.90195
#2	.0226672	-.012486	.1226568	-.038843	.0015705	90.89405
#3	.0209777	-.010660	.1231938	-.043406	.0014266	90.95575

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4753899	.0065584	.0102955	167.3827	.1355078	.1039442
Stddev	.0009011	.0000653	.0001143	.3323	.0007744	.0006002
%RSD	.1895576	.9953153	1.110538	.1985473	.5714550	.5774550
#1	.4763091	.0066277	.0103915	167.0027	.1349605	.1042265
#2	.4745080	.0064981	.0103259	167.6190	.1363938	.1043512
#3	.4753527	.0065493	.0101690	167.5263	.1351690	.1032548

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3685587	175.3975	3.447191	110.7591	.1889565	.0012386
Stddev	.0018542	.7376	.005442	.1887	.0009084	.0002294
%RSD	.5030856	.4205077	.1578652	.1704083	.4807603	18.52376
#1	.3687191	174.5838	3.442998	110.8676	.1887193	.0010137
#2	.3703275	175.5864	3.453341	110.8686	.1899599	.0014723
#3	.3666296	176.0222	3.445235	110.5412	.1881901	.0012298

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.780725	.3458590	.3721946	11.43477	.1210214	.0019610
Stddev	.022055	.0013346	.0027597	.03453	.0017552	.0006330
%RSD	.2254987	.3858691	.7414570	.3019693	1.450289	32.28052
#1	9.775444	.3457811	.3704323	11.42729	.1198332	.0026889
#2	9.761789	.3472308	.3753749	11.40459	.1201937	.0015384
#3	9.804941	.3445651	.3707764	11.47243	.1230374	.0016559

Sample Name: P4470-01DUP Acquired: 10/24/2024 18:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0049159	4.255480	F 14.97499	5.819137	7.072528	.1045967
Stddev	.0010786	.002981	.07349	.023080	.033443	.0002109
%RSD	21.94082	.0700501	.4907578	.3966182	.4728603	.2016400
#1	.0059511	4.258837	14.89081	5.833238	7.061854	.1048335
#2	.0037986	4.253141	15.00779	5.831672	7.110005	.1045277
#3	.0049980	4.254463	15.02636	5.792502	7.045724	.1044290

Elem	Sr4077
Units	ppm
Avg	.0259422
Stddev	.0009609
%RSD	3.704053
#1	.0270077
#2	.0256775
#3	.0251414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.208	63075.97	15098.98	2068.547	3723.468
Stddev	4.731	106.39	58.97	6.171	10.223
%RSD	.1642709	.1686663	.3905687	.2983147	.2745639
#1	2880.007	63034.54	15057.47	2061.832	3721.465
#2	2875.581	62996.53	15072.99	2069.840	3714.394
#3	2885.037	63196.84	15166.48	2073.969	3734.544

Sample Name: P4470-01LX5 Acquired: 10/24/2024 18:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0061268	-.003779	.0263945	-.008286	-.000434	20.29868	.1069622
Stddev	.0018001	.000195	.0005641	.002967	.000101	.02151	.0004162
%RSD	29.38174	5.156711	2.137242	35.81010	23.19337	.1059722	.3891120
#1	.0043297	-.003971	.0258555	-.009427	-.000502	20.32155	.1066829
#2	.0061207	-.003785	.0269808	-.010514	-.000318	20.29563	.1067633
#3	.0079299	-.003582	.0263473	-.004918	-.000482	20.27885	.1074406

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016227	.0010261	38.79743	.0320290	.0213760	.0884483	40.49843
Stddev	.0000078	.0000353	.11989	.0006194	.0000401	.0004595	.22579
%RSD	.4826128	3.443008	.3090063	1.933860	.1874398	.5195137	.5575286
#1	.0016165	.0010623	38.66114	.0317313	.0214174	.0889681	40.25740
#2	.0016201	.0009917	38.88661	.0316147	.0213730	.0882806	40.70502
#3	.0016315	.0010244	38.84454	.0327411	.0213375	.0880963	40.53288

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8115204	24.69750	.0392642	.0003425	2.105657	.0786281	.0857650
Stddev	.0047507	.19145	.0000924	.0000728	.004234	.0026241	.0003860
%RSD	.5854038	.7751763	.2354257	21.27046	.2011008	3.337351	.4500539
#1	.8063602	24.47709	.0391581	.0003531	2.101318	.0776680	.0858349
#2	.8157124	24.82237	.0393066	.0004095	2.109778	.0815970	.0861113
#3	.8124886	24.79305	.0393278	.0002649	2.105875	.0766193	.0853489

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.485201	.0284764	.0003928	-.002448	.9813409	3.273499	1.149705
Stddev	.024137	.0001298	.0004876	.001311	.0022316	.006293	.006099
%RSD	.9712304	.4557802	124.1344	53.56749	.2274000	.1922371	.5305069
#1	2.468064	.0284588	.0001546	-.003619	.9806203	3.267020	1.156236
#2	2.474735	.0286141	.0000700	-.002694	.9838438	3.279588	1.148719
#3	2.512805	.0283563	.0009536	-.001031	.9795587	3.273889	1.144158

Sample Name: P4470-01LX5 Acquired: 10/24/2024 18:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.407825	.0241386	.0053945
Stddev	.002322	.0001882	.0001863
%RSD	.1649690	.7796886	3.452968
#1	1.410456	.0243364	.0055994
#2	1.406059	.0241176	.0053488
#3	1.406960	.0239618	.0052353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2809.818	60381.60	13969.90	2015.903	4190.219
Stddev	5.489	19.37	16.30	8.459	14.185
%RSD	.1953406	.0320767	.1166768	.4196354	.3385377
#1	2806.511	60377.00	13952.08	2013.532	4177.669
#2	2806.789	60364.95	13984.06	2008.882	4187.377
#3	2816.154	60402.86	13973.57	2025.295	4205.610

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4471-01 Acquired: 10/24/2024 18:20:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0369225	-.032470	.8304562	-.065999	-.002852	167.2493
Stddev	.0007644	.003183	.0006723	.004099	.000843	.9635
%RSD	2.070145	9.801592	.0809519	6.210286	29.55638	.5761119
#1	.0373595	-.029099	.8304494	-.068708	-.001947	167.2308
#2	.0360399	-.035423	.8297873	-.068005	-.002994	166.2951
#3	.0373681	-.032887	.8311318	-.061284	-.003615	168.2219

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.141395	.0095415	.0193019	68.75453	.3680260	.2105581
Stddev	.001967	.0000648	.0003689	.07217	.0016294	.0007131
%RSD	.0918710	.6791547	1.911116	.1049657	.4427466	.3386883
#1	2.140217	.0095548	.0193209	68.75528	.3694411	.2102840
#2	2.143666	.0095987	.0196610	68.68198	.3683923	.2100227
#3	2.140302	.0094711	.0189239	68.82632	.3662446	.2113676

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7006994	308.3160	3.219628	100.2441	.4234770	.0042947
Stddev	.0011393	1.6226	.008128	.2237	.0004071	.0003877
%RSD	.1626002	.5262843	.2524425	.2231318	.0961215	9.028158
#1	.6994496	309.8151	3.211781	100.0128	.4230141	.0043233
#2	.7016801	306.5931	3.219093	100.2604	.4237790	.0038935
#3	.7009684	308.5397	3.228010	100.4593	.4236378	.0046673

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.769610	.5228182	1.835354	100.5762	.1747089	.0060672
Stddev	.014161	.0018236	.004795	.1184	.0017408	.0002834
%RSD	.5113123	.3488071	.2612507	.1177609	.9964025	4.671085
#1	2.753388	.5216276	1.840481	100.4753	.1762056	.0061289
#2	2.775941	.5219093	1.830980	100.7066	.1727986	.0063147
#3	2.779501	.5249176	1.834602	100.5467	.1751226	.0057580

Sample Name: P4471-01 Acquired: 10/24/2024 18:20:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0251388	F 16.23170	F 22.22607	9.074726	4.249024	.3317636
Stddev	.0017055	.00894	.01079	.015025	.001362	.0011636
%RSD	6.784333	.0550470	.0485502	.1655660	.0320553	.3507319
#1	.0240675	16.24029	22.22571	9.058379	4.248226	.3304782
#2	.0242434	16.23237	22.21546	9.087932	4.248249	.3327450
#3	.0271055	16.22245	22.23703	9.077868	4.250597	.3320675

Elem	Sr4077
Units	ppm
Avg	-.078383
Stddev	.001779
%RSD	2.270016
#1	-.080041
#2	-.076503
#3	-.078605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2831.461	61586.15	14925.85	2017.941	3703.484
Stddev	7.600	174.66	40.62	15.928	7.032
%RSD	.2684087	.2836060	.2721165	.7893102	.1898775
#1	2822.764	61478.76	14894.65	2010.107	3695.844
#2	2836.822	61787.69	14971.78	2036.269	3709.686
#3	2834.798	61492.00	14911.13	2007.448	3704.922

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4471-02 Acquired: 10/24/2024 18:24:34 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0099765	-.004159	.0461158	-.005300	.0009861	65.08494
Stddev	.0011920	.000902	.0002258	.000648	.0000513	.39451
%RSD	11.94758	21.68105	.4897218	12.21834	5.199258	.6061540
#1	.0111501	-.004842	.0458827	-.004723	.0010198	64.63536
#2	.0100125	-.003137	.0463336	-.006000	.0010114	65.37339
#3	.0087670	-.004499	.0461313	-.005176	.0009271	65.24606

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0753907	.0036353	.0019981	22.84488	.0730647	.0454446
Stddev	.0009454	.0000355	.0000923	.16599	.0008557	.0001230
%RSD	1.253959	.9761803	4.617553	.7265992	1.171085	.2706453
#1	.0743227	.0035980	.0020479	22.65882	.0740248	.0453026
#2	.0757290	.0036393	.0020547	22.89803	.0723828	.0455131
#3	.0761203	.0036687	.0018916	22.97778	.0727864	.0455181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0463531	60.20036	.3160627	17.27767	.0987626	.0006801
Stddev	.0003814	.31191	.0017745	.15820	.0003500	.0004211
%RSD	.8228713	.5181274	.5614480	.9156168	.3544015	61.91539
#1	.0462129	59.89686	.3143769	17.11943	.0984010	.0005412
#2	.0467848	60.18417	.3158969	17.27776	.0987870	.0003460
#3	.0460617	60.52005	.3179143	17.43582	.0990998	.0011531

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.45783	.0699393	.1963560	5.677365	.1443545	.0112659
Stddev	.05592	.0011443	.0012182	.023873	.0001235	.0001573
%RSD	.3617567	1.636138	.6204157	.4204905	.0855246	1.395831
#1	15.39545	.0688724	.1975760	5.650916	.1443313	.0112265
#2	15.47457	.0697977	.1951396	5.697315	.1444879	.0114391
#3	15.50347	.0711478	.1963525	5.683865	.1442442	.0111321

Sample Name: P4471-02 Acquired: 10/24/2024 18:24:34 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0077397	1.301112	F 14.12155	5.336650	F 101.1963	.1277584
Stddev	.0007957	.009300	.04352	.006339	.1956	.0007967
%RSD	10.28041	.7147999	.3081718	.1187839	.1932417	.6235760
#1	.0073770	1.290379	14.07290	5.331583	101.0712	.1271010
#2	.0071901	1.306152	14.13498	5.343758	101.4216	.1275299
#3	.0086521	1.306805	14.15678	5.334610	101.0961	.1286444

Elem	Sr4077
Units	ppm
Avg	.3149099
Stddev	.0021364
%RSD	.6784179
#1	.3125666
#2	.3167494
#3	.3154138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2836.771	61642.70	14414.30	2028.938	4196.848
Stddev	6.397	49.66	59.90	7.079	5.862
%RSD	.2254926	.0805607	.4155848	.3489060	.1396758
#1	2832.736	61590.54	14477.94	2022.126	4198.963
#2	2844.146	61648.14	14359.00	2036.257	4201.359
#3	2833.430	61689.41	14405.97	2028.429	4190.222

Sample Name: P4472-01 Acquired: 10/24/2024 18:28:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0556443	-.021562	.1819806	-.043994	.0008651	92.20217
Stddev	.0014532	.001687	.0031400	.003328	.0014130	.86717
%RSD	2.611616	7.822620	1.725439	7.565115	163.3386	.9405077
#1	.0546299	-.023216	.1783550	-.042286	.0017170	91.39132
#2	.0549938	-.019844	.1838105	-.047829	-.000766	93.11639
#3	.0573091	-.021626	.1837764	-.041867	.001644	92.09879

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.141926	.0120618	.0153631	223.1700	.2370728	.1435966
Stddev	.010974	.0000945	.0003131	.9422	.0019945	.0004131
%RSD	.9609691	.7837417	2.038143	.4222042	.8413017	.2877119
#1	1.132594	.0119542	.0157217	222.5616	.2389415	.1432528
#2	1.154015	.0120994	.0151437	224.2553	.2349727	.1440549
#3	1.139167	.0121317	.0152240	222.6930	.2373043	.1434821

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7505184	186.6332	5.760612	79.43146	.2596715	.0007506
Stddev	.0027618	.5699	.030016	.18791	.0005919	.0002121
%RSD	.3679840	.3053683	.5210483	.2365704	.2279336	28.25441
#1	.7530756	185.9757	5.739464	79.39146	.2595626	.0009163
#2	.7508901	186.9851	5.794966	79.63615	.2603103	.0005116
#3	.7475896	186.9388	5.747405	79.26677	.2591417	.0008239

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87346	.3735698	.6779187	36.60521	.1416591	.0007088
Stddev	.07599	.0060542	.0019889	.18354	.0014925	.0001533
%RSD	.6400163	1.620621	.2933832	.5014042	1.053591	21.62370
#1	11.82659	.3683426	.6798100	36.42841	.1411489	.0006965
#2	11.96114	.3802034	.6781013	36.79482	.1433398	.0005620
#3	11.83266	.3721633	.6758448	36.59240	.1404886	.0008678

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-01 Acquired: 10/24/2024 18:28:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0014293	6.325009	F 18.16210	9.423667	.8684777	.2769630
Stddev	.0007340	.050222	.07032	.026063	.0092952	.0039198
%RSD	51.35814	.7940192	.3871561	.2765721	1.070283	1.415278
#1	.0010891	6.276647	18.08599	9.419094	.8789561	.2743784
#2	.0022717	6.376904	18.22465	9.451714	.8652514	.2814732
#3	.0009270	6.321478	18.17567	9.400193	.8612254	.2750374

Elem	Sr4077
Units	ppm
Avg	.1978382
Stddev	.0032260
%RSD	1.630643
#1	.1955782
#2	.2015327
#3	.1964037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3142.728	69136.25	16523.05	2262.000	3681.904
Stddev	10.267	156.22	86.34	18.146	7.037
%RSD	.3266910	.2259648	.5225207	.8021944	.1911174
#1	3131.565	69124.00	16557.40	2278.070	3673.807
#2	3151.768	68986.50	16424.83	2242.321	3686.540
#3	3144.849	69298.23	16586.93	2265.609	3685.365

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-05 Acquired: 10/24/2024 18:32:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0787746	-.005015	.2688737	-.050978	.0015728	92.12092
Stddev	.0008226	.003153	.0002995	.002209	.0001184	.12873
%RSD	1.044250	62.88036	.1114033	4.332356	7.527866	.1397375
#1	.0788546	-.008645	.2685290	-.050177	.0017087	92.23520
#2	.0795543	-.003447	.2690214	-.053476	.0015175	92.14609
#3	.0779149	-.002953	.2690706	-.049283	.0014921	91.98146

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.270050	.0100264	.0178632	253.0764	.2291032	.1516183
Stddev	.005263	.0000667	.0000368	2.7708	.0010002	.0004441
%RSD	.4144018	.6653384	.2062090	1.094844	.4365734	.2929362
#1	1.275357	.0099509	.0178259	250.8263	.2280906	.1517406
#2	1.269963	.0100509	.0178996	256.1712	.2300906	.1511258
#3	1.264831	.0100773	.0178640	252.2316	.2291284	.1519884

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8886785	232.3343	10.18305	71.82516	.2896106	.0018948
Stddev	.0011142	.2065	.04764	.42599	.0005946	.0000350
%RSD	.1253741	.0888629	.4678613	.5930910	.2053082	1.846719
#1	.8898632	232.4502	10.22846	72.09457	.2902892	.0018903
#2	.8876517	232.0959	10.18722	72.04687	.2891808	.0019318
#3	.8885206	232.4567	10.13345	71.33404	.2893619	.0018623

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.056164	.3484274	.7423665	26.69874	.1754582	.0048620
Stddev	.029980	.0036702	.0033404	.03385	.0001771	.0003908
%RSD	.3721421	1.053352	.4499703	.1268025	.1009137	8.038481
#1	8.089003	.3517204	.7462212	26.73765	.1752790	.0049729
#2	8.049232	.3490912	.7405587	26.68249	.1754627	.0044277
#3	8.030257	.3444706	.7403195	26.67607	.1756330	.0051854

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4472-05 Acquired: 10/24/2024 18:32:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0154063	4.215731	F 10.51830	8.901925	1.610282	.2527405
Stddev	.0019322	.007051	.01126	.013890	.002879	.0023363
%RSD	12.54196	.1672509	.1070926	.1560350	.1788072	.9243823
#1	.0173305	4.223623	10.50882	8.903179	1.608683	.2554317
#2	.0134661	4.213519	10.51531	8.887450	1.608558	.2512327
#3	.0154223	4.210051	10.53075	8.915145	1.613606	.2515571

Elem	Sr4077
Units	ppm
Avg	.2230698
Stddev	.0019058
%RSD	.8543730
#1	.2250359
#2	.2229429
#3	.2212305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3113.941	66183.10	16406.19	2167.307	3612.916
Stddev	6.387	199.52	74.44	22.612	2.234
%RSD	.2050943	.3014709	.4537337	1.043311	.0618361
#1	3109.943	65953.07	16332.93	2141.202	3610.478
#2	3110.573	66286.96	16403.90	2180.773	3613.404
#3	3121.306	66309.26	16481.75	2179.947	3614.865

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV07 Acquired: 10/24/2024 18:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.931598	5.341616	4.836453	5.053707	4.950545	9.424523
Stddev	.012630	.052075	.008845	.026498	.016120	.116243
%RSD	.2561113	.9748920	.1828897	.5243375	.3256139	1.233405
#1	4.944128	5.398679	4.839308	5.084291	4.968069	9.557931
#2	4.931796	5.296663	4.843518	5.039223	4.947216	9.370629
#3	4.918870	5.329506	4.826532	5.037608	4.936349	9.345010

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.240754	.2356561	2.400133	22.95618	.9352920	2.406272
Stddev	.127936	.0034977	.006739	.27752	.0036944	.006307
%RSD	1.384479	1.484248	.2807658	1.208923	.3949995	.2621056
#1	9.374644	.2395578	2.403427	23.27370	.9371783	2.410701
#2	9.119747	.2346090	2.404591	22.83486	.9376624	2.409064
#3	9.227870	.2328015	2.392381	22.75997	.9310352	2.399051

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.233491	4.598482	2.384648	24.55740	2.426924	1.225326
Stddev	.003987	.026499	.024997	.27872	.006908	.001905
%RSD	.3232259	.5762639	1.048227	1.134992	.2846396	.1555085
#1	1.237469	4.574843	2.413457	24.87924	2.431850	1.223876
#2	1.233511	4.593475	2.371778	24.39713	2.429895	1.224619
#3	1.229495	4.627128	2.368710	24.39582	2.419028	1.227484

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.40685	2.555783	2.469128	25.62888	4.666508	4.964984
Stddev	.06825	.023993	.008176	.04643	.061005	.014679
%RSD	.2796153	.9387886	.3311309	.1811515	1.307286	.2956429
#1	24.34989	2.582643	2.459788	25.58812	4.735665	4.980398
#2	24.38817	2.536472	2.472607	25.61910	4.643526	4.963382
#3	24.48249	2.548234	2.474990	25.67941	4.620332	4.951173

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV07 Acquired: 10/24/2024 18:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.821853	F 4.483918	4.905182	4.899490	4.765159	4.618798
Stddev	.009599	.046756	.026122	.038146	.007162	.053530
%RSD	.1990720	1.042742	.5325379	.7785733	.1503005	1.158953
#1	4.830075	4.537790	4.875457	4.939399	4.772571	4.680604
#2	4.824180	4.460049	4.915611	4.895679	4.764631	4.588609
#3	4.811304	4.453914	4.924479	4.863393	4.758276	4.587182

Elem	Sr4077
Units	ppm
Avg	4.703659
Stddev	.069273
%RSD	1.472750
#1	4.782276
#2	4.677129
#3	4.651572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2725.660	58383.04	12896.88	1946.118	4104.172
Stddev	8.194	153.77	142.89	13.542	12.389
%RSD	.3006413	.2633868	1.107960	.6958663	.3018691
#1	2716.552	58547.25	12733.38	1961.443	4093.178
#2	2727.992	58359.45	12959.44	1941.146	4101.743
#3	2732.436	58242.43	12997.82	1935.764	4117.596

Sample Name: CCB07 Acquired: 10/24/2024 18:41:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0013571	-.000395	.0001031	-.000496	.0013156	-.000680	-.001709
Stddev	.0024235	.000677	.0009331	.000691	.0001752	.005160	.000796
%RSD	178.5749	171.2185	905.1856	139.4302	13.31846	759.0659	46.61604
#1	.0040332	.000111	-.000974	-.001286	.0013163	.005051	-.002174
#2	.0007279	-.001164	.000611	-.000198	.0011401	-.002131	-.002162
#3	-.000690	-.000133	.000672	-.000003	.0014905	-.004959	-.000789

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000824	.0001472	.0048009	.0002259	.0004089	-.000258	.0043146
Stddev	.0000389	.0000284	.0021959	.0001294	.0001431	.000258	.0009115
%RSD	47.18912	19.31273	45.73974	57.28774	35.00354	99.90510	21.12690
#1	.0000446	.0001801	.0068121	.0000813	.0003063	-.000362	.0035213
#2	.0000804	.0001305	.0051326	.0002657	.0005724	.000036	.0041121
#3	.0001223	.0001311	.0024580	.0003308	.0003481	-.000447	.0053103

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	-.001924	.0000631	.0002641	-.004814	-.002053	.0001024
Stddev	.000098	.012009	.0001529	.0001703	.007368	.000965	.0000971
%RSD	4614.668	624.3083	242.3659	64.48661	153.0535	46.98038	94.77808
#1	-.000114	.007680	.0002230	.0003328	-.006271	-.001885	.0001419
#2	.000039	-.015388	.0000477	.0000702	.003174	-.003091	.0001735
#3	.000068	.001938	-.000082	.0003894	-.011344	-.001184	-.000008

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564310	.0078591	.0002996	-.000482	.0001432	.0045865	-.000920
Stddev	.0132244	.0003790	.0001260	.000613	.0000495	.0057691	.001483
%RSD	23.43457	4.823011	42.04685	127.1834	34.59889	125.7840	161.1684
#1	.0609730	.0081761	.0004012	.000051	.0001645	-.000664	.000791
#2	.0415342	.0079619	.0003388	-.001152	.0001786	.003661	-.001711
#3	.0667859	.0074392	.0001587	-.000345	.0000866	.010762	-.001840

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB07 Acquired: 10/24/2024 18:41:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005361	.0019793	.0000764
Stddev	.002360	.0011825	.0000378
%RSD	44.01201	59.74433	49.43812
#1	-.003443	.0007747	.0001181
#2	-.004645	.0020248	.0000445
#3	-.007996	.0031385	.0000667

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2911.000	61943.87	13550.41	2082.875	4717.752
Stddev	2.376	261.04	23.94	14.765	4.383
%RSD	.0816319	.4214115	.1766667	.7088723	.0929138
#1	2912.847	61754.66	13523.46	2066.986	4714.551
#2	2908.320	61835.28	13558.60	2085.468	4715.956
#3	2911.834	62241.68	13569.19	2096.172	4722.748

Sample Name: PB164317BL Acquired: 10/24/2024 18:45:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000438	-.000477	.0002098	.0008712	.0006532	-.000022	-.001246
Stddev	.000904	.000147	.0006340	.0017303	.0006807	.003075	.000347
%RSD	206.4585	30.70326	302.1885	198.6184	104.2107	14130.76	27.81407
#1	-.001481	-.000646	-.000141	-.000714	.0002109	-.002128	-.000883
#2	.000127	-.000397	-.000171	.000610	.0003117	.003507	-.001574
#3	.000040	-.000389	.000942	.002717	.0014371	-.001444	-.001281

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000414	.0000399	-.000552	.0000556	.0002937	-.000207	.0016365
Stddev	.0000122	.0000542	.005001	.0004288	.0001442	.000357	.0010960
%RSD	29.36640	136.0096	906.3139	771.2509	49.08424	172.5242	66.97334
#1	.0000406	.0001024	.004883	.0005026	.0002248	-.000303	.0019445
#2	.0000297	.0000083	-.001578	.0000164	.0001968	-.000505	.0004194
#3	.0000539	.0000088	-.004961	-.000352	.0004593	.000188	.0025456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000088	.0016501	-.000072	.0004028	-.006687	-.001522	.0000376
Stddev	.000131	.0157413	.000158	.0002121	.004185	.002239	.0000501
%RSD	149.1439	953.9416	218.7132	52.65033	62.58321	147.1181	133.3620
#1	-.000158	.0192696	-.000161	.0002417	-.003175	-.003627	.0000855
#2	-.000170	-.011027	-.000167	.0003237	-.011317	.000830	-.000014
#3	.000064	-.003293	.000110	.0006431	-.005568	-.001768	.000042

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0560979	.0051459	-.000066	-.000586	-.000092	-.000338	-.000990
Stddev	.0126051	.0002269	.000112	.000187	.000360	.007829	.001566
%RSD	22.46974	4.408733	170.2519	31.82192	390.5629	2315.336	158.2419
#1	.0620782	.0051923	-.000166	-.000734	-.000004	.004456	.000301
#2	.0416159	.0053460	-.000086	-.000648	-.000489	.003903	-.000538
#3	.0645998	.0048995	.000055	-.000377	.000216	-.009373	-.002732

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164317BL Acquired: 10/24/2024 18:45:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004887	.0010575	.0000017
Stddev	.002021	.0016833	.0000129
%RSD	41.36205	159.1843	777.9438
#1	-.002578	.0012203	-.000013
#2	-.005745	-.000701	.000007
#3	-.006337	.002654	.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2907.489	61952.40	13658.03	2093.181	4687.699
Stddev	15.372	353.30	32.55	22.601	16.421
%RSD	.5286914	.5702838	.2383015	1.079750	.3502920
#1	2897.192	61646.67	13684.10	2071.805	4678.576
#2	2925.158	62339.19	13621.55	2116.835	4706.656
#3	2900.117	61871.34	13668.45	2090.904	4677.866

Sample Name: P4423-02 Acquired: 10/24/2024 18:55:46 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005255	-.007417	.0410498	.0022115	.0401086	1.402265
Stddev	.001113	.001784	.0003871	.0006408	.0009284	.002783
%RSD	21.18627	24.05909	.9429890	28.97494	2.314623	.1984313
#1	-.006534	-.009446	.0414508	.0026911	.0410674	1.399077
#2	-.004737	-.006091	.0406782	.0024597	.0392141	1.404205
#3	-.004496	-.006715	.0410205	.0014838	.0400443	1.403514

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0998745	.0001277	.0014295	8.926899	.0230324	.0045240
Stddev	.0006258	.0000142	.0000381	.023369	.0004369	.0001913
%RSD	.6266279	11.13664	2.664681	.2617795	1.896755	4.229354
#1	.0997689	.0001366	.0013855	8.903000	.0229366	.0043665
#2	.0993083	.0001353	.0014517	8.927996	.0226514	.0047369
#3	.1005465	.0001113	.0014513	8.949699	.0235092	.0044685

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1282656	10.75173	.1545430	2.635075	.0383926	.0012826
Stddev	.0000897	.09363	.0005559	.021905	.0000787	.0001158
%RSD	.0699586	.8708529	.3597296	.8312779	.2049102	9.029795
#1	.1281623	10.67752	.1539204	2.616695	.0384196	.0013787
#2	.1283102	10.72073	.1549896	2.629215	.0383040	.0011540
#3	.1283243	10.85693	.1547191	2.659313	.0384542	.0013152

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	647.0068	.0030633	.5970650	21.61941	.2006691	.0171743
Stddev	1.7416	.0006480	.0039184	.15976	.0010030	.0002585
%RSD	.2691801	21.15317	.6562729	.7389643	.4998310	1.505226
#1	645.5939	.0024079	.5940383	21.47902	.2006562	.0174711
#2	648.9526	.0030784	.5956657	21.58596	.1996726	.0170534
#3	646.4739	.0037036	.6014909	21.79325	.2016785	.0169983

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4423-02 Acquired: 10/24/2024 18:55:46 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0103068	.0216424	F 24.25943	5.746882	F 118.2824	.0572571
Stddev	.0003881	.0001304	.11297	.026852	.5342	.0012400
%RSD	3.764980	.6023495	.4656840	.4672362	.4516542	2.165669
#1	.0098938	.0217380	24.14386	5.716090	118.1601	.0586800
#2	.0106638	.0214939	24.26483	5.759133	118.8672	.0566832
#3	.0103627	.0216953	24.36961	5.765424	117.8200	.0564079

Elem	Sr4077
Units	ppm
Avg	.0656262
Stddev	.0002785
%RSD	.4243610
#1	.0655249
#2	.0654125
#3	.0659411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2424.981	52217.84	13101.23	1747.335	3583.661
Stddev	6.100	116.03	24.65	7.701	5.160
%RSD	.2515405	.2221973	.1881287	.4407104	.1439960
#1	2418.208	52316.35	13073.64	1756.043	3578.525
#2	2430.042	52247.23	13109.00	1741.420	3588.845
#3	2426.693	52089.95	13121.06	1744.543	3583.612

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06 Acquired: 10/24/2024 19:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001199	-.020024	.0014462	-.000752	.0071594	.8522826
Stddev	.002879	.003576	.0027855	.005168	.0018313	.0048011
%RSD	240.0072	17.85602	192.6118	687.4964	25.57863	.5633219
#1	-.004523	-.016567	-.001641	-.001335	.0050935	.8528056
#2	.000497	-.019798	.003773	-.005603	.0078018	.8568008
#3	.000428	-.023708	.002206	.004683	.0085828	.8472415

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577519	-.000054	.0000006	401.9205	.0046780	-.000743
Stddev	.0003912	.000022	.0001068	6.1138	.0005595	.000555
%RSD	.6774080	41.74867	16758.72	1.521157	11.95954	74.63829
#1	.0573573	-.000064	.0001078	395.6488	.0046925	-.001310
#2	.0577588	-.000028	-.000106	402.2496	.0041114	-.000202
#3	.0581396	-.000069	-.000000	407.8632	.0052300	-.000718

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047966	1.148778	.1368072	1407.487	.0031567	-.000059
Stddev	.0008340	.001239	.0010238	11.617	.0001596	.000400
%RSD	17.38783	.1078152	.7483644	.8253777	5.054860	676.5752
#1	.0052576	1.147497	.1367688	1416.441	.0033339	-.000162
#2	.0038338	1.149970	.1358032	1411.659	.0031118	-.000397
#3	.0052983	1.148866	.1378497	1394.359	.0030243	.000382

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0029578	.0396543	936.7389	4.368503	.0152700
Stddev	-----	.0038859	.0005177	10.2982	.014846	.0007278
%RSD	-----	131.3795	1.305667	1.099363	.3398378	4.766118
#1	^ -----	.0074417	.0402106	948.3106	4.353777	.0149891
#2	^ -----	.0008613	.0391864	933.3245	4.368266	.0147245
#3	^ -----	.0005703	.0395659	928.5815	4.383466	.0160964

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06 Acquired: 10/24/2024 19:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007103	.0183528	6.069407	.6013099	F 1189.581	.4415470
Stddev	.001581	.0010672	.064252	.0075411	13.223	.0023084
%RSD	22.25370	5.814851	1.058614	1.254114	1.111600	.5228042
#1	-.008893	.0171347	5.995218	.5928383	1175.952	.4390563
#2	-.005899	.0188004	6.106012	.6038012	1190.434	.4436146
#3	-.006518	.0191234	6.106991	.6072900	1202.358	.4419702

Elem	Sr4077
Units	ppm
Avg	9.045836
Stddev	.044552
%RSD	.4925100
#1	9.036364
#2	9.094362
#3	9.006782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1243.809	29240.63	9187.141	895.6279	1633.659
Stddev	8.991	50.73	9.198	7.6733	12.127
%RSD	.7228354	.1735010	.1001181	.8567548	.7423479
#1	1254.156	29186.56	9177.461	886.8437	1647.595
#2	1237.897	29287.20	9188.197	899.0158	1625.498
#3	1239.375	29248.13	9195.766	901.0242	1627.885

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06DUP Acquired: 10/24/2024 19:04:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004896	-.022397	.0035414	-.003688	.0062060	.8512077
Stddev	.006180	.002526	.0011481	.004011	.0034681	.0017142
%RSD	126.2247	11.27778	32.41811	108.7682	55.88220	.2013823
#1	-.012026	-.021204	.0047036	-.004782	.0044807	.8522547
#2	-.001584	-.025299	.0035126	-.007039	.0101984	.8521389
#3	-.001078	-.020689	.0024080	.000757	.0039390	.8492295

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577263	.0000300	.0001092	402.2271	.0035132	-.000679
Stddev	.0007136	.0000629	.0001991	2.1666	.0003408	.000314
%RSD	1.236251	209.5666	182.2315	.5386444	9.701350	46.23250
#1	.0569066	.0001014	.0001454	399.8871	.0033384	-.000613
#2	.0582092	.0000060	-.000105	404.1634	.0039060	-.000403
#3	.0580630	-.000017	.000288	402.6309	.0032953	-.001020

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041385	1.111024	.1342326	1386.014	.0032274	.0003393
Stddev	.0004616	.005571	.0006899	7.385	.0006307	.0003115
%RSD	11.15248	.5014636	.5139493	.5327994	19.54278	91.79635
#1	.0046683	1.117405	.1334996	1394.527	.0025107	.0006945
#2	.0039238	1.108540	.1348692	1381.333	.0036978	.0002105
#3	.0038234	1.107126	.1343291	1382.184	.0034737	.0001129

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0043999	.0384809	914.2487	4.344827	.0141204
Stddev	-----	.0012262	.0004080	4.5936	.008647	.0007649
%RSD	-----	27.86884	1.060362	.5024435	.1990097	5.417281
#1	^ -----	.0046934	.0380196	919.5257	4.341541	.0144997
#2	^ -----	.0030536	.0387946	911.1455	4.354634	.0132400
#3	^ -----	.0054528	.0386285	912.0750	4.338304	.0146217

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06DUP Acquired: 10/24/2024 19:04:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005935	.0193578	5.888552	.5643608	F 1140.728	.4363947
Stddev	.000556	.0043880	.049558	.0119531	9.581	.0008039
%RSD	9.367847	22.66778	.8415956	2.117989	.8398693	.1842220
#1	-.005968	.0182772	5.892239	.5774812	1150.600	.4354720
#2	-.006474	.0156111	5.936163	.5540902	1140.115	.4369436
#3	-.005363	.0241851	5.837253	.5615110	1131.468	.4367686

Elem	Sr4077
Units	ppm
Avg	8.866285
Stddev	.036104
%RSD	.4072051
#1	8.892316
#2	8.881469
#3	8.825068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1345.637	30112.92	9240.972	924.9130	1754.762
Stddev	31.383	101.43	16.749	5.5388	38.537
%RSD	2.332235	.3368224	.1812513	.5988506	2.196117
#1	1314.657	30000.67	9232.852	923.1533	1717.147
#2	1344.846	30198.00	9229.831	931.1179	1752.979
#3	1377.409	30140.08	9260.234	920.4677	1794.159

Sample Name: P4460-06LX5 Acquired: 10/24/2024 19:09:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000137	-.003527	.0001027	-.001256	.0007515	.1202048
Stddev	.001982	.000583	.0007392	.000101	.0006190	.0044811
%RSD	1442.530	16.54004	719.6092	8.046448	82.37220	3.727894
#1	.000995	-.003151	.0008204	-.001276	.0000936	.1233566
#2	-.002426	-.004199	.0001440	-.001345	.0013224	.1221828
#3	.001019	-.003230	-.000656	-.001146	.0008385	.1150751

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113595	.0000702	.0000222	94.92372	.0006562	.0000434
Stddev	.0005380	.0000299	.0000957	.41049	.0002288	.0002857
%RSD	4.736465	42.56062	431.5181	.4324442	34.87381	658.8440
#1	.0119799	.0000517	.0001214	94.79596	.0006439	.0002810
#2	.0110207	.0001046	-.000069	94.59230	.0008909	.0001227
#3	.0110780	.0000542	.000014	95.38290	.0004338	-.000274

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006813	.2228390	.0304395	340.5947	.0008533	.0001256
Stddev	.0009639	.0051809	.0003855	1.6456	.0001646	.0000384
%RSD	141.4675	2.324956	1.266490	.4831669	19.28512	30.61263
#1	.0009766	.2220291	.0303562	339.7706	.0006640	.0001529
#2	-.000396	.2283771	.0301025	339.5239	.0009344	.0000816
#3	.001463	.2181107	.0308599	342.4895	.0009616	.0001423

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1816.372	.0008758	.0062250	125.3506	1.023262	.0029817
Stddev	18.161	.0006656	.0001212	.9985	.005454	.0003007
%RSD	.9998399	75.99900	1.947443	.7965457	.5330223	10.08314
#1	1830.973	.0006931	.0063142	124.3282	1.021911	.0027683
#2	1822.105	.0003207	.0060870	126.3233	1.018611	.0028514
#3	1796.036	.0016138	.0062739	125.4003	1.029265	.0033256

Sample Name: P4460-06LX5 Acquired: 10/24/2024 19:09:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.000105	.0043170	.9128957	.0935653	F 269.9688	.0658536
Stddev	.001073	.0011338	.0058161	.0029710	.5795	.0008092
%RSD	1024.732	26.26336	.6371047	3.175378	.2146556	1.228823
#1	-.001326	.0049983	.9192917	.0907456	269.4737	.0665159
#2	.000323	.0030082	.9114713	.0966676	269.8266	.0649516
#3	.000688	.0049445	.9079242	.0932828	270.6062	.0660932

Elem	Sr4077
Units	ppm
Avg	1.756905
Stddev	.019259
%RSD	1.096182
#1	1.737099
#2	1.775566
#3	1.758049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2184.244	45196.71	11453.32	1564.233	2935.446
Stddev	5.682	139.04	14.89	12.955	.287
%RSD	.2601293	.3076272	.1300449	.8282041	.0097897
#1	2177.683	45310.80	11436.37	1566.693	2935.407
#2	2187.585	45041.84	11464.29	1550.225	2935.750
#3	2187.463	45237.47	11459.31	1575.782	2935.179

Sample Name: P4460-06MS Acquired: 10/24/2024 19:14:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.016014	1.650306	.8262763	2.624575	1.116893	3.153665
Stddev	.015736	.027073	.0051325	.048073	.024062	.083823
%RSD	1.548795	1.640502	.6211567	1.831640	2.154357	2.657965
#1	1.028291	1.681501	.8309382	2.655866	1.131507	3.093996
#2	1.021475	1.632953	.8271144	2.648637	1.130052	3.117498
#3	.998275	1.636463	.8207764	2.569223	1.089122	3.249500

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2493406	.2154871	.1666277	411.6103	.3209146	.1834769
Stddev	.0046976	.0035412	.0009291	2.9032	.0030131	.0018173
%RSD	1.884008	1.643330	.5576030	.7053303	.9389006	.9904892
#1	.2453584	.2195574	.1677006	412.4753	.3243653	.1855049
#2	.2481421	.2137895	.1660995	408.3729	.3188046	.1819960
#3	.2545214	.2131143	.1660832	413.9827	.3195738	.1829298

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499768	4.294636	.3107336	1440.895	.4469702	.1344470
Stddev	.0033262	.012877	.0013873	29.284	.0040890	.0004544
%RSD	1.330604	.2998324	.4464698	2.032339	.9148227	.3379993
#1	.2528211	4.290563	.3122908	1428.683	.4516175	.1342810
#2	.2507900	4.309056	.3102808	1474.309	.4453686	.1340989
#3	.2463195	4.284287	.3096293	1419.694	.4439244	.1349611

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2933748	.3475059	876.9362	4.647705	.3966926
Stddev	-----	.0015811	.0002818	18.4047	.064862	.0041322
%RSD	-----	.5389357	.0811073	2.098751	1.395563	1.041666
#1	^ -----	.2915491	.3472433	873.2530	4.722458	.4011770
#2	^ -----	.2942868	.3474707	860.6516	4.606322	.3958623
#3	^ -----	.2942886	.3478037	896.9040	4.614335	.3930387

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06MS Acquired: 10/24/2024 19:14:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6195763	.1922750	6.822842	9.626345	F 1140.200	.6710012
Stddev	.0043676	.0091350	.171841	.136827	11.611	.0245785
%RSD	.7049301	4.750994	2.518616	1.421379	1.018300	3.662952
#1	.6236338	.1887310	6.669534	9.713447	1153.359	.6496270
#2	.6201416	.1854431	6.790400	9.696949	1135.842	.6655185
#3	.6149536	.2026509	7.008592	9.468638	1131.398	.6978579

Elem	Sr4077
Units	ppm
Avg	8.918487
Stddev	.062938
%RSD	.7057057
#1	8.880390
#2	8.883939
#3	8.991133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1317.397	30538.96	9139.237	931.0196	1716.352
Stddev	27.912	35.23	84.324	5.6394	33.442
%RSD	2.118740	.1153552	.9226589	.6057214	1.948438
#1	1299.564	30579.56	9041.916	937.5150	1696.858
#2	1303.062	30516.56	9185.234	928.1729	1697.230
#3	1349.564	30520.75	9190.559	927.3710	1754.967

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06MSD Acquired: 10/24/2024 19:19:00 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.088113	1.764635	.8671832	2.797159	1.197807	3.437122
Stddev	.014307	.029402	.0068184	.048785	.018080	.065074
%RSD	1.314808	1.666159	.7862662	1.744094	1.509454	1.893263
#1	1.074729	1.731045	.8609803	2.753098	1.181687	3.393053
#2	1.086418	1.777161	.8660853	2.788793	1.194379	3.511863
#3	1.103191	1.785700	.8744838	2.849586	1.217357	3.406449

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2656273	.2222060	.1754952	420.1979	.3335332	.1941411
Stddev	.0029340	.0018147	.0008153	4.1468	.0018944	.0017143
%RSD	1.104556	.8166678	.4645741	.9868723	.5679796	.8830372
#1	.2629328	.2216525	.1745550	420.8169	.3357172	.1922559
#2	.2687531	.2207326	.1760073	415.7764	.3323337	.1945610
#3	.2651961	.2242330	.1759232	424.0005	.3325487	.1956065

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2639236	4.387156	.3159728	1422.297	.4708095	.1409503
Stddev	.0026544	.016078	.0032400	13.363	.0045606	.0002629
%RSD	1.005729	.3664769	1.025401	.9395377	.9686780	.1865497
#1	.2613885	4.368946	.3130206	1409.566	.4665820	.1408043
#2	.2636992	4.393130	.3154586	1436.213	.4702038	.1412539
#3	.2666830	4.399392	.3194391	1421.112	.4756428	.1407928

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.3047677	.3637465	973.6772	4.772616	.4204244
Stddev	-----	.0037224	.0040870	7.9402	.034286	.0047451
%RSD	-----	1.221398	1.123585	.8154866	.7183859	1.128647
#1	^ -----	.3006078	.3649553	965.6320	4.751092	.4165193
#2	^ -----	.3059109	.3670928	981.5081	4.754603	.4190484
#3	^ -----	.3077844	.3591915	973.8916	4.812154	.4257054

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06MSD Acquired: 10/24/2024 19:19:00 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6568202	.1979209	7.244618	F 10.25855	F 1199.603	.7453656
Stddev	.0071818	.0042248	.130899	.10736	10.101	.0193662
%RSD	1.093424	2.134612	1.806842	1.046535	.8420503	2.598220
#1	.6485274	.1932453	7.177554	10.14452	1189.034	.7370305
#2	.6609804	.2014643	7.395459	10.27347	1200.614	.7675038
#3	.6609529	.1990531	7.160843	10.35767	1209.160	.7315624

Elem	Sr4077
Units	ppm
Avg	9.444316
Stddev	.080803
%RSD	.8555696
#1	9.358485
#2	9.455550
#3	9.518914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1246.302	29603.16	8932.560	896.5626	1624.174
Stddev	20.232	214.79	35.890	13.4149	22.260
%RSD	1.623365	.7255612	.4017885	1.496259	1.370514
#1	1258.963	29542.66	8965.319	897.7786	1640.389
#2	1256.973	29425.11	8938.162	882.5812	1633.337
#3	1222.968	29841.71	8894.198	909.3282	1598.795

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06A Acquired: 10/24/2024 19:23:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.9918539	1.637402	.8021980	2.543363	1.079424	3.056835
Stddev	.0263654	.021341	.0085288	.072831	.034558	.069501
%RSD	2.658191	1.303332	1.063184	2.863578	3.201541	2.273622
#1	.9621027	1.616172	.7944677	2.459299	1.039525	3.130375
#2	1.001136	1.637180	.8007790	2.587444	1.099917	2.992240
#3	1.012323	1.658852	.8113474	2.583348	1.098832	3.047890

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2390991	.2067574	.1621243	388.5502	.3076897	.1784414
Stddev	.0036195	.0047055	.0023117	6.1095	.0031546	.0020872
%RSD	1.513794	2.275875	1.425889	1.572383	1.025246	1.169694
#1	.2404323	.2079221	.1603849	382.6264	.3109240	.1766830
#2	.2350021	.2015789	.1612404	388.1943	.3075237	.1778934
#3	.2418629	.2107712	.1647475	394.8298	.3046214	.1807480

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2413983	3.987602	.2928701	1329.424	.4339077	.1261150
Stddev	.0053045	.009053	.0065963	32.328	.0069679	.0003684
%RSD	2.197399	.2270340	2.252310	2.431698	1.605854	.2921273
#1	.2354279	3.994375	.2914853	1305.691	.4273218	.1262795
#2	.2431990	3.991111	.2870761	1316.338	.4331981	.1263725
#3	.2455681	3.977319	.3000489	1366.243	.4412033	.1256930

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2817449	.3218175	855.4919	4.449822	.3851907
Stddev	-----	.0090704	.0049147	15.2720	.089840	.0075162
%RSD	-----	3.219351	1.527172	1.785172	2.018956	1.951304
#1	^ -----	.2782485	.3232583	869.3920	4.469173	.3765194
#2	^ -----	.2749431	.3258507	857.9400	4.351883	.3892090
#3	^ -----	.2920431	.3163434	839.1437	4.528409	.3898436

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4460-06A Acquired: 10/24/2024 19:23:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6042333	.1797444	6.411834	9.462782	F 1113.389	.6494244
Stddev	.0106808	.0041791	.120250	.191030	13.818	.0114855
%RSD	1.767660	2.324997	1.875441	2.018753	1.241100	1.768570
#1	.5935709	.1805726	6.490339	9.245467	1099.938	.6617333
#2	.6041966	.1752132	6.471768	9.538679	1112.682	.6389938
#3	.6149324	.1834473	6.273396	9.604200	1127.547	.6475460

Elem	Sr4077
Units	ppm
Avg	8.559423
Stddev	.118398
%RSD	1.383252
#1	8.593610
#2	8.427692
#3	8.656966

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1367.857	32852.90	9619.086	1021.669	1777.847
Stddev	44.167	344.58	171.495	14.832	49.340
%RSD	3.228938	1.048848	1.782859	1.451705	2.775255
#1	1418.395	32532.82	9576.771	1012.540	1834.582
#2	1336.656	32808.25	9807.777	1013.685	1744.979
#3	1348.521	33217.62	9472.709	1038.783	1753.979

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-03 Acquired: 10/24/2024 19:28:21 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0102968	-.002431	.1752812	-.013695	.0108812	34.99003
Stddev	.0027588	.001983	.0010657	.001273	.0013920	.21730
%RSD	26.79251	81.56649	.6079889	9.292466	12.79321	.6210460
#1	.0077189	-.000587	.1740534	-.012321	.0124872	34.75397
#2	.0099649	-.002178	.1759672	-.013930	.0101371	35.03438
#3	.0132064	-.004527	.1758228	-.014833	.0100194	35.18173

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3742061	.0058569	.0050768	84.98937	.1135804	.0530383
Stddev	.0006628	.0000233	.0002035	.49544	.0009600	.0005027
%RSD	.1771126	.3972320	4.008188	.5829454	.8451951	.9477385
#1	.3735290	.0058319	.0048524	84.48149	.1129560	.0526830
#2	.3742358	.0058609	.0051288	85.01526	.1130995	.0528185
#3	.3748535	.0058779	.0052493	85.47136	.1146858	.0536135

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1735301	98.67966	1.888566	52.06778	.0796306	.0019252
Stddev	.0005341	.40840	.005901	.24338	.0005355	.0001153
%RSD	.3077617	.4138663	.3124610	.4674333	.6724575	5.987813
#1	.1730038	98.21064	1.885072	51.93917	.0790149	.0019741
#2	.1740716	98.87170	1.885248	51.91568	.0798893	.0020080
#3	.1735147	98.95665	1.895380	52.34848	.0799877	.0017936

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	284.0355	.1837940	1.829362	45.16453	.1605446	.2151565
Stddev	.3361	.0014534	.004919	.12884	.0011253	.0009632
%RSD	.1183416	.7907911	.2688772	.2852653	.7009500	.4476558
#1	284.0428	.1849975	1.833672	45.07924	.1618001	.2141994
#2	284.3680	.1821793	1.824003	45.31274	.1596267	.2151444
#3	283.6958	.1842052	1.830411	45.10161	.1602071	.2161256

Sample Name: P4485-03 Acquired: 10/24/2024 19:28:21 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0045356	.9216942	F 77.40726	5.082099	F 53.17275	.0597268
Stddev	.0002642	.0054675	.46553	.029708	.09870	.0008797
%RSD	5.825377	.5931992	.6014080	.5845606	.1856201	1.472931
#1	.0043374	.9154804	76.86972	5.050339	53.07037	.0592640
#2	.0048356	.9238341	77.67289	5.109205	53.26730	.0591751
#3	.0044339	.9257680	77.67916	5.086753	53.18058	.0607413

Elem	Sr4077
Units	ppm
Avg	.1630538
Stddev	.0002132
%RSD	.1307251
#1	.1629103
#2	.1629524
#3	.1632987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2538.350	54971.82	13251.59	1829.534	3541.412
Stddev	9.027	121.63	31.61	6.180	9.651
%RSD	.3556241	.2212566	.2385564	.3378114	.2725194
#1	2548.428	55099.49	13277.38	1825.279	3551.922
#2	2535.616	54857.30	13261.06	1826.700	3539.365
#3	2531.006	54958.67	13216.32	1836.623	3532.949

Sample Name: CCV08 Acquired: 10/24/2024 19:32:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.961284	5.328046	4.861870	5.122432	5.017978	9.529603	9.321795
Stddev	.005685	.015321	.011125	.010530	.003744	.038739	.113457
%RSD	.1145834	.2875508	.2288215	.2055715	.0746163	.4065097	1.217116
#1	4.955765	5.312061	4.852214	5.119247	5.016791	9.492632	9.200104
#2	4.960964	5.329472	4.859360	5.113862	5.014972	9.569896	9.340616
#3	4.967122	5.342603	4.874035	5.134187	5.022172	9.526281	9.424664

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2447265	2.402500	23.22574	.9468203	2.417519	1.237345	4.757954
Stddev	.0015663	.005479	.11694	.0033593	.005289	.001940	.041511
%RSD	.6400154	.2280436	.5035015	.3548019	.2187700	.1568180	.8724561
#1	.2449038	2.397087	23.10496	.9447452	2.412084	1.235840	4.728017
#2	.2430791	2.402373	23.33843	.9450197	2.417825	1.236660	4.805342
#3	.2461966	2.408042	23.23381	.9506961	2.422648	1.239535	4.740503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.441278	25.00089	2.433481	1.261454	25.25154	2.614684	2.531808
Stddev	.006744	.06142	.006173	.000980	.33143	.009510	.006090
%RSD	.2762341	.2456633	.2536839	.0777089	1.312512	.3637138	.2405465
#1	2.435539	24.93095	2.428163	1.262271	25.20855	2.606192	2.525046
#2	2.448705	25.04601	2.432029	1.261724	25.60237	2.624959	2.533514
#3	2.439588	25.02571	2.440251	1.260367	24.94371	2.612900	2.536863

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.24019	4.829802	5.009421	4.814448	4.577800	5.076104	4.865458
Stddev	.24994	.024501	.008081	.004273	.012891	.050829	.007354
%RSD	.9175547	.5072920	.1613183	.0887456	.2816077	1.001333	.1511477
#1	27.10846	4.843682	5.006592	4.809522	4.569830	5.029096	4.868379
#2	27.52845	4.801512	5.003135	4.816666	4.592672	5.130042	4.857092
#3	27.08367	4.844212	5.018536	4.817155	4.570896	5.069175	4.870903

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV08 Acquired: 10/24/2024 19:32:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.787047	4.733008	4.736943
Stddev	.004573	.026717	.056446
%RSD	.0955304	.5644897	1.191608
#1	4.781872	4.743331	4.672179
#2	4.788722	4.753024	4.775676
#3	4.790545	4.702670	4.762975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2715.288	56675.34	12582.77	1898.021	4109.488
Stddev	6.052	275.04	56.18	10.226	12.837
%RSD	.2228788	.4852912	.4464526	.5387819	.3123627
#1	2716.850	56600.35	12518.30	1892.913	4116.585
#2	2720.406	56445.57	12621.20	1891.356	4117.209
#3	2708.609	56980.10	12608.80	1909.795	4094.670

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB08 Acquired: 10/24/2024 19:45:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015752	-.000530	-.000304	.0004189	.0006361	-.002397
Stddev	.0012113	.000912	.000636	.0012720	.0004565	.005054
%RSD	76.89780	172.1327	209.3116	303.6679	71.77258	210.8174
#1	.0019310	.000116	-.000962	.0018702	.0003955	-.002245
#2	.0002258	-.001573	.000307	-.000503	.0003501	-.007526
#3	.0025687	-.000132	-.000256	-.000111	.0011626	.002579

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001488	.0000470	.0001061	-.002664	.0002457	.0000601
Stddev	.000229	.0000321	.0000197	.005144	.0004505	.0001517
%RSD	15.36417	68.34133	18.60319	193.0843	183.3359	252.3693
#1	-.001603	.0000101	.0001193	-.001104	.0000471	.0002342
#2	-.001636	.0000626	.0000834	-.008407	.0007613	-.000044
#3	-.001225	.0000683	.0001156	.001519	-.000071	-.000010

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000327	.0008315	.0001461	.0027032	-.000079	.0001393
Stddev	.000328	.0036499	.0001237	.0042476	.000071	.0002221
%RSD	100.0152	438.9465	84.65918	157.1347	89.95380	159.4612
#1	-.000012	.0012196	.0002890	.0016331	-.000087	-.000104
#2	-.000666	.0042718	.0000750	-.000907	-.000004	.000192
#3	-.000305	-.002997	.0000744	.007383	-.000146	.000331

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9082985	-.002574	.0005325	.3646943	.0036435	-.000157
Stddev	.0297657	.002670	.0000626	.0492698	.0000957	.000290
%RSD	3.277085	103.7308	11.76252	13.50988	2.627072	185.0903
#1	.8751140	-.005506	.0004768	.3135568	.0036813	-.000385
#2	.9171391	-.000283	.0006003	.3686706	.0035346	-.000254
#3	.9326424	-.001932	.0005204	.4118554	.0037145	.000169

Sample Name: CCB08 Acquired: 10/24/2024 19:45:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041741	-.000226	-.000936	-.002073	F .0118131	.0013283
Stddev	.0004064	.000044	.000460	.001386	.0021852	.0008794
%RSD	9.735924	19.29292	49.18406	66.85046	18.49800	66.20583
#1	.0045483	-.000252	-.000704	-.002245	.0142665	.0012174
#2	.0042322	-.000176	-.001466	-.003365	.0110967	.0005096
#3	.0037418	-.000251	-.000638	-.000609	.0100760	.0022580

Elem	Sr4077
Units	ppm
Avg	-.000008
Stddev	.000011
%RSD	128.3202
#1	.000004
#2	-.000013
#3	-.000016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2974.958	60750.02	13409.89	2073.411	4828.949
Stddev	8.670	111.05	54.20	1.723	7.861
%RSD	.2914323	.1827965	.4041651	.0830941	.1627840
#1	2967.863	60639.06	13355.73	2072.088	4821.247
#2	2972.389	60861.16	13409.82	2075.359	4828.639
#3	2984.622	60749.83	13464.12	2072.786	4836.960

Sample Name: PB164347BL Acquired: 10/24/2024 19:49:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0006105	-.000864	-.000155	.0001436	.0003854	-.001515	-.001288
Stddev	.0006399	.001489	.000277	.0010101	.0008540	.001747	.000350
%RSD	104.8266	172.2770	179.1118	703.2538	221.5888	115.3435	27.18529
#1	-.000128	-.001166	.000091	.0002053	.0013673	-.002882	-.001110
#2	.000972	.000752	-.000456	-.000896	-.000027	.000454	-.001062
#3	.000988	-.002179	-.000100	.001122	-.000184	-.002116	-.001691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000468	.0001151	-.000713	.0001009	.0000626	-.000239	-.000542
Stddev	.0000596	.0000621	.003609	.0000131	.0000920	.000127	.001841
%RSD	127.3606	53.92260	506.4020	12.95769	146.9910	53.29219	339.7882
#1	-.000009	.0000928	-.004847	.0001004	.0001668	-.000132	-.001148
#2	.000109	.0000673	.000896	.0001142	-.000007	-.000204	.001526
#3	.000040	.0001852	.001812	.0000881	.000028	-.000379	-.002003

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000124	.0029371	-.000101	.0005522	.6647324	-.001002	.0003182
Stddev	.000221	.0054844	.000080	.0000706	.0294328	.002279	.0000973
%RSD	178.7153	186.7300	79.70070	12.77855	4.427772	227.4734	30.59763
#1	.000062	-.000664	-.000101	.0006254	.6309477	.000716	.0002470
#2	-.000368	.000226	-.000020	.0004846	.6784249	-.000135	.0002784
#3	-.000065	.009249	-.000180	.0005467	.6848245	-.003587	.0004291

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2461658	.0025591	.0000992	.0043784	-.000065	-.003749	-.002271
Stddev	.0185655	.0002332	.0000866	.0003432	.000543	.000888	.001050
%RSD	7.541867	9.114252	87.28015	7.837595	839.3365	23.69056	46.24730
#1	.2414078	.0026970	.0000433	.0047043	.000472	-.003072	-.001294
#2	.2304423	.0022898	.0000554	.0044106	-.000052	-.003422	-.002137
#3	.2666472	.0026905	.0001990	.0040202	-.000614	-.004755	-.003382

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164347BL Acquired: 10/24/2024 19:49:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0090129	.0014098	-.000003
Stddev	.0005933	.0007070	.000016
%RSD	6.582988	50.15132	609.6480
#1	.0085821	.0006113	.000016
#2	.0087669	.0019563	-.000012
#3	.0096896	.0016619	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2946.041	63888.32	13490.91	2122.861	4815.137
Stddev	61.929	152.76	43.52	4.101	96.719
%RSD	2.102105	.2391036	.3225846	.1931629	2.008655
#1	2976.478	63945.63	13474.00	2124.420	4864.385
#2	2986.861	63715.20	13458.39	2118.209	4877.321
#3	2874.783	64004.14	13540.35	2125.953	4703.704

Sample Name: PB164347BSRE Acquired: 10/24/2024 19:53:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7511047	2.110312	.9238864	1.899034	F -.094362	1.797496
Stddev	.0012960	.025133	.0027847	.008294	.001312	.006532
%RSD	.1725446	1.190948	.3014083	.4367436	1.390746	.3634141
#1	.7512478	2.088151	.9218059	1.890372	-.093052	1.797406
#2	.7523232	2.105167	.9270498	1.899829	-.094358	1.804072
#3	.7497431	2.137620	.9228033	1.906902	-.095677	1.791009

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1777594	.1849693	.1806808	.9215343	.3754016	.1937160
Stddev	.0002392	.0015774	.0006332	.0048990	.0011913	.0002290
%RSD	.1345899	.8527830	.3504761	.5316169	.3173373	.1181880
#1	.1775211	.1834550	.1799565	.9163314	.3750435	.1934964
#2	.1779995	.1866030	.1811296	.9260587	.3767308	.1939533
#3	.1777576	.1848498	.1809563	.9222128	.3744303	.1936983

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3074552	2.712369	.1756530	F 1.516821	.4868322	.0759144
Stddev	.0005517	.018664	.0000548	.015848	.0010204	.0002398
%RSD	.1794326	.6881194	.0312014	1.044834	.2096004	.3159229
#1	.3068746	2.709658	.1755924	1.502943	.4857127	.0761346
#2	.3079724	2.695209	.1756992	1.534090	.4877102	.0759499
#3	.3075187	2.732241	.1756675	1.513429	.4870736	.0756589

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.249347	F .2301481	.2007338	10.23944	F 9.121320	F 9.755588
Stddev	.025859	.0010833	.0013965	.08264	.082195	.023603
%RSD	1.149619	.4707066	.6956796	.8071124	.9011279	.2419462
#1	2.243170	.2300041	.1999555	10.26541	9.046924	9.730206
#2	2.227136	.2291440	.1999000	10.14693	9.209556	9.759682
#3	2.277735	.2312962	.2023460	10.30598	9.107480	9.776877

Sample Name: PB164347BSRE Acquired: 10/24/2024 19:53:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	F 9.250986	F 8.645408	F 7.309795	5.553213	F -.021808	.1753255
Stddev	.034728	.020971	.097829	.022652	.001996	.0029066
%RSD	.3754001	.2425660	1.338324	.4079039	9.152177	1.657825
#1	9.211624	8.621231	7.230277	5.530961	-.019508	.1742547
#2	9.264031	8.658666	7.280070	5.552435	-.022823	.1731062
#3	9.277303	8.656327	7.419039	5.576244	-.023092	.1786156

Elem	Sr4077
Units	ppm
Avg	.1833576
Stddev	.0004253
%RSD	.2319731
#1	.1831180
#2	.1831061
#3	.1838487

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.429	62389.51	13703.76	2072.060	4525.473
Stddev	3.729	161.30	80.14	16.450	2.247
%RSD	.1293118	.2585441	.5847853	.7938807	.0496595
#1	2879.351	62292.09	13769.20	2065.013	4523.646
#2	2886.664	62575.70	13614.38	2090.860	4524.790
#3	2884.273	62300.74	13727.71	2060.309	4527.983

Sample Name: P4508-01 Acquired: 10/24/2024 19:57:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0451338	-.008684	.1574894	-.050308	-.000131	123.9123
Stddev	.0007625	.001054	.0007314	.001981	.000511	.1407
%RSD	1.689309	12.13351	.4643909	3.938575	390.2586	.1135206
#1	.0448839	-.008213	.1566533	-.050550	.000161	124.0027
#2	.0445276	-.009891	.1578045	-.052158	.000167	123.9841
#3	.0459898	-.007948	.1580103	-.048217	-.000721	123.7503

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9669771	.0117938	.0185178	23.07160	.2449971	.1651310
Stddev	.0034051	.0001068	.0001145	.08700	.0011639	.0002727
%RSD	.3521432	.9056677	.6180539	.3771014	.4750646	.1651277
#1	.9684402	.0116843	.0184957	23.16912	.2444803	.1649481
#2	.9694063	.0118977	.0184160	23.04375	.2463299	.1654444
#3	.9630850	.0117994	.0186417	23.00194	.2441810	.1650005

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.137043	244.4469	5.558659	52.21940	.3238579	.0027849
Stddev	.002671	1.7012	.026349	.34745	.0007832	.0002951
%RSD	.2349037	.6959521	.4740096	.6653716	.2418204	10.59619
#1	1.136078	246.2830	5.585845	52.57371	.3243003	.0031126
#2	1.134989	244.1334	5.556893	52.20528	.3243197	.0025400
#3	1.140062	242.9242	5.533237	51.87923	.3229537	.0027022

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11513	.3001790	.6958400	22.10912	.1440746	.0001195
Stddev	.08161	.0019169	.0006403	.08507	.0022218	.0003851
%RSD	.8067834	.6385719	.0920201	.3847539	1.542087	322.3156
#1	10.16628	.3023808	.6965477	22.18711	.1460535	.0004227
#2	10.15810	.2992731	.6956714	22.12185	.1444989	.0002496
#3	10.02102	.2988828	.6953008	22.01841	.1416712	-.000314

Sample Name: P4508-01 Acquired: 10/24/2024 19:57:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0085039	4.472031	F 14.90270	8.481466	.5721417	.1922963
Stddev	.0012258	.016363	.11085	.011496	.0085410	.0011478
%RSD	14.41476	.3659019	.7438345	.1355441	1.492821	.5969003
#1	.0094371	4.477961	14.81068	8.485390	.5624923	.1935693
#2	.0071157	4.484603	14.87167	8.468522	.5787318	.1919793
#3	.0089591	4.453529	15.02577	8.490487	.5752011	.1913403

Elem	Sr4077
Units	ppm
Avg	-.105712
Stddev	.001392
%RSD	1.317126
#1	-.107278
#2	-.105242
#3	-.104615

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.759	73371.26	17352.93	2420.179	3863.530
Stddev	15.981	411.89	65.96	24.831	14.741
%RSD	.4721442	.5613791	.3801241	1.026002	.3815493
#1	3368.993	72918.49	17279.37	2391.507	3846.771
#2	3400.946	73471.51	17372.60	2434.686	3874.490
#3	3384.337	73723.76	17406.82	2434.343	3869.329

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4508-05 Acquired: 10/24/2024 20:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0518192	-.015744	.1799906	-.064756	.0009078	123.1616
Stddev	.0027009	.001146	.0014516	.000979	.0010483	.0541
%RSD	5.212214	7.280536	.8064896	1.511999	115.4801	.0439118
#1	.0488987	-.015770	.1795583	-.063723	.0020114	123.2089
#2	.0523318	-.014585	.1816093	-.064872	.0007868	123.1027
#3	.0542270	-.016877	.1788043	-.065671	-.000075	123.1733

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174433	.0146010	.0242200	195.5484	.2822599	.1907724
Stddev	.002994	.0000252	.0007327	.5836	.0007998	.0002879
%RSD	.2549575	.1727876	3.025041	.2984609	.2833713	.1509085
#1	1.176799	.0146291	.0250598	194.8753	.2831749	.1905144
#2	1.171067	.0145803	.0238887	195.9128	.2816935	.1910829
#3	1.175434	.0145937	.0237114	195.8572	.2819113	.1907199

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6504213	276.0291	5.998468	73.03480	.3894908	.0015288
Stddev	.0027483	4.3586	.023208	.49902	.0005683	.0005614
%RSD	.4225475	1.579033	.3869057	.6832595	.1459117	36.72128
#1	.6531201	271.5077	5.972601	72.46028	.3892548	.0009228
#2	.6505179	276.3752	6.005331	73.36038	.3901390	.0016325
#3	.6476260	280.2043	6.017470	73.28373	.3890785	.0020312

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.869608	.3401928	.8818085	34.20175	.1900447	.0000669
Stddev	.004956	.0027899	.0029300	.08277	.0063001	.0002733
%RSD	.0629711	.8200787	.3322727	.2420032	3.315075	408.5223
#1	7.864994	.3399411	.8837366	34.10690	.1833779	-.000218
#2	7.874846	.3431000	.8832521	34.25932	.1908567	.000327
#3	7.868985	.3375374	.8784368	34.23904	.1958994	.000091

Sample Name: P4508-05 Acquired: 10/24/2024 20:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0059021	5.533536	F 24.17789	F 10.47037	.9366710	.2955280
Stddev	.0009114	.003104	.18796	.04140	.0099734	.0017475
%RSD	15.44147	.0560899	.7773878	.3953705	1.064766	.5913229
#1	.0069489	5.531143	24.08035	10.44672	.9454048	.2972480
#2	.0052858	5.532422	24.39457	10.51817	.9388048	.2937542
#3	.0054715	5.537043	24.05876	10.44621	.9258035	.2955818

Elem	Sr4077
Units	ppm
Avg	.0739324
Stddev	.0043519
%RSD	5.886343
#1	.0788433
#2	.0723998
#3	.0705542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3208.178	69916.62	16754.13	2310.473	3612.796
Stddev	6.738	235.59	20.92	17.709	5.025
%RSD	.2100341	.3369649	.1248849	.7664776	.1390969
#1	3204.695	70144.27	16764.35	2321.031	3608.401
#2	3215.944	69673.81	16730.06	2290.028	3618.275
#3	3203.893	69931.77	16767.99	2320.360	3611.714

Sample Name: P4508-09 Acquired: 10/24/2024 20:06:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0596632	-.008232	.1665446	-.064218	.0025781	118.2740
Stddev	.0034340	.001848	.0016512	.002609	.0012158	.0354
%RSD	5.755654	22.44745	.9914277	4.062178	47.15839	.0299352
#1	.0587768	-.009914	.1646584	-.067058	.0013105	118.3069
#2	.0567594	-.006254	.1677286	-.063668	.0037345	118.2365
#3	.0634536	-.008527	.1672467	-.061929	.0026893	118.2787

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.510851	.0132809	.0212322	230.5800	.2733003	.1733902
Stddev	.011516	.0000614	.0004088	1.7631	.0004502	.0002746
%RSD	.7622121	.4623077	1.925549	.7646552	.1647357	.1583530
#1	1.523924	.0132218	.0216766	229.6940	.2735495	.1730738
#2	1.502210	.0133444	.0211478	229.4356	.2727806	.1735311
#3	1.506418	.0132764	.0208721	232.6104	.2735708	.1735658

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8223586	273.1169	7.520328	69.71244	.3537318	.0012137
Stddev	.0015370	.5712	.015066	.21345	.0001049	.0001075
%RSD	.1868974	.2091409	.2003323	.3061848	.0296600	8.854575
#1	.8212358	272.6427	7.509987	69.52848	.3538501	.0011425
#2	.8241103	273.7510	7.513383	69.66237	.3536501	.0013373
#3	.8217296	272.9569	7.537613	69.94648	.3536952	.0011613

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.982413	.3336785	.7403893	37.02237	.2040694	.0008221
Stddev	.038891	.0016697	.0025085	.25886	.0004661	.0002653
%RSD	.9765631	.5004027	.3388083	.6992066	.2284072	32.26563
#1	4.027279	.3351697	.7402097	37.30292	.2035825	.0005190
#2	3.958321	.3339912	.7429827	36.97141	.2045114	.0009355
#3	3.961638	.3318745	.7379754	36.79277	.2041143	.0010118

Sample Name: P4508-09 Acquired: 10/24/2024 20:06:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0078151	5.249540	F 25.70627	9.508831	.6401735	.3102337
Stddev	.0002513	.026260	.19660	.017723	.0049920	.0030904
%RSD	3.214890	.5002432	.7648107	.1863827	.7797930	.9961508
#1	.0077453	5.272990	25.81183	9.524115	.6371358	.3136594
#2	.0080938	5.221166	25.82755	9.512976	.6374496	.3093861
#3	.0076061	5.254465	25.47943	9.489404	.6459349	.3076554

Elem	Sr4077
Units	ppm
Avg	.0873564
Stddev	.0030033
%RSD	3.437973
#1	.0905972
#2	.0846670
#3	.0868049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.916	68411.62	16091.15	2245.631	3696.689
Stddev	4.061	124.80	22.61	7.555	4.886
%RSD	.1290009	.1824205	.1405343	.3364365	.1321620
#1	3146.262	68326.58	16102.94	2240.557	3691.130
#2	3144.942	68353.38	16105.43	2242.023	3698.639
#3	3152.542	68554.89	16065.08	2254.314	3700.300

Sample Name: P4509-01 Acquired: 10/24/2024 20:11:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1175154	.0059110	.9601684	-.047614	.0097459	84.77454
Stddev	.0028898	.0021198	.0010323	.002766	.0005586	.07947
%RSD	2.459092	35.86241	.1075142	5.810096	5.731975	.0937424
#1	.1178334	.0049118	.9589889	-.050795	.0092506	84.68278
#2	.1144797	.0083458	.9606088	-.045767	.0096357	84.82106
#3	.1202330	.0044755	.9609075	-.046280	.0103514	84.81977

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4519802	.0086740	.0112187	78.41298	.2390241	.0492062
Stddev	.0023491	.0000305	.0002949	.46320	.0001271	.0004540
%RSD	.5197244	.3521506	2.628793	.5907142	.0531540	.9226198
#1	.4536930	.0086873	.0115541	78.06996	.2389159	.0495212
#2	.4529452	.0086955	.0110003	78.22910	.2389925	.0486858
#3	.4493023	.0086390	.0111015	78.93989	.2391640	.0494116

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2465421	248.3630	1.417924	22.92163	.1028361	.0024186
Stddev	.0007667	1.3351	.004117	.11810	.0004632	.0003826
%RSD	.3109860	.5375532	.2903375	.5152153	.4503866	15.81735
#1	.2469689	246.9113	1.415559	22.79118	.1027078	.0019950
#2	.2470005	248.6393	1.415536	22.95246	.1024506	.0025219
#3	.2456570	249.5382	1.422678	23.02126	.1033499	.0027389

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.074038	.3783536	.8844697	16.58008	.1614096	.0077413
Stddev	.023285	.0005102	.0064927	.03679	.0011313	.0002393
%RSD	.7574729	.1348493	.7340786	.2219120	.7008563	3.091204
#1	3.050977	.3789414	.8776799	16.55262	.1607490	.0079717
#2	3.097541	.3780942	.8906176	16.62188	.1627159	.0074940
#3	3.073597	.3780252	.8851117	16.56573	.1607641	.0077582

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01 Acquired: 10/24/2024 20:11:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0243334	1.876611	F 18.08320	5.280795	3.827466	.0765969
Stddev	.0007791	.009231	.06352	.017036	.010415	.0004535
%RSD	3.201675	.4918751	.3512686	.3226039	.2721198	.5920226
#1	.0234778	1.868288	18.02596	5.297000	3.822088	.0768251
#2	.0245205	1.875007	18.07211	5.263035	3.820838	.0768911
#3	.0250018	1.886539	18.15154	5.282350	3.839471	.0760747

Elem	Sr4077
Units	ppm
Avg	.1056834
Stddev	.0023843
%RSD	2.256058
#1	.1080811
#2	.1056563
#3	.1033128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2766.621	60914.11	14303.91	1996.253	3864.830
Stddev	4.259	116.84	42.87	15.334	7.162
%RSD	.1539311	.1918154	.2996909	.7681193	.1853201
#1	2761.904	60871.26	14254.53	2008.053	3858.071
#2	2767.776	60824.75	14331.68	1978.921	3872.337
#3	2770.183	61046.33	14325.50	2001.784	3864.082

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01DUP Acquired: 10/24/2024 20:15:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1128753	.0037295	.9428519	-.047409	.0098441	84.18086
Stddev	.0010515	.0026609	.0055858	.003145	.0008445	.03954
%RSD	.9315113	71.34700	.5924336	6.633613	8.579180	.0469742
#1	.1140145	.0006660	.9456590	-.050912	.0108130	84.13923
#2	.1126693	.0054654	.9464774	-.046484	.0092640	84.18544
#3	.1119421	.0050571	.9364193	-.044830	.0094552	84.21792

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4442118	.0086889	.0111830	77.20649	.2374566	.0486060
Stddev	.0019828	.0000382	.0002669	.22307	.0002028	.0004415
%RSD	.4463672	.4394102	2.386368	.2889317	.0853836	.9083751
#1	.4458702	.0087283	.0114112	76.98404	.2376451	.0489904
#2	.4447497	.0086863	.0112482	77.20525	.2372421	.0487039
#3	.4420155	.0086521	.0108896	77.43018	.2374826	.0481238

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2347433	247.8627	1.406972	22.76793	.0993077	.0029468
Stddev	.0022845	1.1118	.004148	.05146	.0004134	.0003379
%RSD	.9731931	.4485541	.2947926	.2260401	.4162464	11.46731
#1	.2356072	246.5790	1.403667	22.70952	.0996559	.0025651
#2	.2364699	248.5150	1.411626	22.78766	.0994164	.0030675
#3	.2321528	248.4942	1.405624	22.80662	.0988508	.0032078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.946384	.3718421	.8246963	16.53139	.1569305	.0077664
Stddev	.015640	.0004799	.0049720	.03278	.0019071	.0001411
%RSD	.5308242	.1290611	.6028848	.1982754	1.215278	1.816794
#1	2.928347	.3713649	.8189830	16.51272	.1547284	.0078616
#2	2.956188	.3718368	.8280422	16.56923	.1580180	.0078333
#3	2.954616	.3723246	.8270637	16.51221	.1580452	.0076043

Sample Name: P4509-01DUP Acquired: 10/24/2024 20:15:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0225340	1.854350	F 18.80258	5.121553	3.596351	.0770364
Stddev	.0019787	.001825	.10151	.030451	.018266	.0002837
%RSD	8.781134	.0984237	.5398737	.5945701	.5079066	.3683318
#1	.0207045	1.855089	18.68731	5.151500	3.611926	.0771883
#2	.0222633	1.855690	18.84181	5.122535	3.600882	.0772119
#3	.0246341	1.852271	18.87862	5.090622	3.576246	.0767091

Elem	Sr4077
Units	ppm
Avg	.1007081
Stddev	.0016409
%RSD	1.629360
#1	.1023596
#2	.1006868
#3	.0990780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.345	60706.73	14427.69	1997.805	3980.294
Stddev	21.101	12.96	50.18	14.452	28.345
%RSD	.7413208	.0213499	.3477812	.7234015	.7121314
#1	2843.264	60721.02	14371.71	2013.454	3967.758
#2	2826.954	60695.75	14468.62	1984.961	3960.378
#3	2868.817	60703.41	14442.72	1995.001	4012.745

Sample Name: P4509-01LX5 Acquired: 10/24/2024 20:19:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0267578	.0020412	.2181660	-.011853	.0025602	19.56947	.1042919
Stddev	.0016687	.0012030	.0012755	.000564	.0004360	.01307	.0003251
%RSD	6.236402	58.93764	.5846473	4.759648	17.02949	.0667978	.3116705
#1	.0252042	.0007541	.2194894	-.012311	.0020951	19.56267	.1046626
#2	.0265475	.0031373	.2169446	-.012026	.0029597	19.56119	.1040559
#3	.0285217	.0022320	.2180641	-.011223	.0026259	19.58453	.1041570

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022307	.0015514	18.60617	.0577391	.0105314	.0573282	59.29231
Stddev	.0001098	.0001139	.07547	.0001539	.0001324	.0002872	.19161
%RSD	4.923788	7.339859	.4056323	.2665023	1.257538	.5009691	.3231690
#1	.0022985	.0016660	18.63224	.0577744	.0106217	.0576591	59.09490
#2	.0021040	.0015499	18.52111	.0575707	.0105931	.0571434	59.47754
#3	.0022897	.0014382	18.66514	.0578723	.0103794	.0571821	59.30449

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3462099	5.589799	.0218397	.0009630	1.066463	.0884569	.1948902
Stddev	.0029562	.026842	.0002450	.0001277	.037023	.0009689	.0004362
%RSD	.8538768	.4801908	1.121654	13.26352	3.471587	1.095323	.2238223
#1	.3493948	5.567138	.0220795	.0009845	1.024684	.0874603	.1944585
#2	.3435537	5.582819	.0218497	.0008259	1.079500	.0885150	.1953308
#3	.3456811	5.619442	.0215899	.0010787	1.095203	.0893955	.1948814

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.880786	.0393796	.0016600	.0065020	.4453804	4.459382	1.111059
Stddev	.049714	.0005571	.0001272	.0004248	.0038500	.010404	.006194
%RSD	1.281030	1.414725	7.659555	6.532533	.8644412	.2333080	.5574666
#1	3.823388	.0387364	.0018065	.0060779	.4431089	4.453344	1.117904
#2	3.908742	.0396949	.0015781	.0065009	.4432066	4.471395	1.109432
#3	3.910229	.0397076	.0015954	.0069273	.4498257	4.453406	1.105841

Sample Name: P4509-01LX5 Acquired: 10/24/2024 20:19:19 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7816240	.0194454	.0225048
Stddev	.0081034	.0009944	.0002887
%RSD	1.036744	5.113814	1.282776
#1	.7878325	.0195787	.0228216
#2	.7724570	.0183911	.0224361
#3	.7845824	.0203664	.0222566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2963.962	61273.82	14014.79	2073.709	4523.767
Stddev	16.279	153.24	80.17	4.627	21.559
%RSD	.5492373	.2500984	.5720244	.2231196	.4765691
#1	2945.258	61352.82	13930.11	2075.000	4498.907
#2	2974.935	61097.19	14089.53	2068.574	4537.325
#3	2971.694	61371.43	14024.71	2077.553	4535.069

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01MS Acquired: 10/24/2024 20:23:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7172724	1.747680	1.806558	1.537938	.4913140	104.1613
Stddev	.0024359	.033571	.006760	.004935	.0032316	.0890
%RSD	.3396115	1.920900	.3742026	.3208586	.6577489	.0854570
#1	.7198540	1.748760	1.813064	1.538668	.4950351	104.2502
#2	.7150145	1.780698	1.807042	1.542467	.4896955	104.1617
#3	.7169487	1.713581	1.799569	1.532679	.4892115	104.0721

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6436729	.1647084	.1771310	67.26185	.5749230	.2299321
Stddev	.0038170	.0006840	.0004831	.11446	.0022909	.0005343
%RSD	.5930014	.4152732	.2727089	.1701640	.3984757	.2323520
#1	.6448413	.1649186	.1771313	67.13020	.5767359	.2305154
#2	.6467692	.1652626	.1776138	67.31759	.5756849	.2298144
#3	.6394083	.1639440	.1766477	67.33775	.5723482	.2294665

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4625804	207.0492	1.388475	22.19388	.5515793	.0698115
Stddev	.0018301	.8868	.010740	.18441	.0013342	.0001832
%RSD	.3956214	.4283029	.7735070	.8309129	.2418931	.2623871
#1	.4639188	206.4010	1.381983	22.02018	.5524555	.0696194
#2	.4633275	206.6868	1.400872	22.38740	.5522386	.0698307
#3	.4604950	208.0598	1.382571	22.17406	.5500437	.0699842

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.688940	.6558385	1.287546	28.93497	.3637655	.3476758
Stddev	.015065	.0038526	.001072	.07954	.0008849	.0004120
%RSD	.2648151	.5874311	.0832685	.2748763	.2432602	.1184935
#1	5.671582	.6514947	1.286813	29.02560	.3634258	.3480733
#2	5.698601	.6588418	1.288777	28.87680	.3647699	.3477032
#3	5.696638	.6571789	1.287050	28.90251	.3631008	.3472507

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01MS Acquired: 10/24/2024 20:23:31 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6315474	1.966112	F 16.58554	F 10.03681	3.074938	.2445383
Stddev	.0037619	.005542	.05279	.03472	.012185	.0021713
%RSD	.5956647	.2818707	.3182849	.3459254	.3962630	.8879172
#1	.6350351	1.966715	16.59945	10.05341	3.068376	.2448424
#2	.6320460	1.971327	16.52719	10.06011	3.088998	.2465415
#3	.6275611	1.960293	16.62999	9.99690	3.067441	.2422310

Elem	Sr4077
Units	ppm
Avg	.3395115
Stddev	.0033184
%RSD	.9774064
#1	.3413028
#2	.3415492
#3	.3356824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2926.833	61149.88	14427.24	2043.233	4016.136
Stddev	5.558	131.62	41.82	5.167	10.446
%RSD	.1899112	.2152337	.2898844	.2528721	.2600944
#1	2925.905	61045.54	14415.75	2042.196	4017.557
#2	2921.798	61297.74	14392.36	2048.839	4005.053
#3	2932.797	61106.35	14473.60	2038.663	4025.799

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01MSD Acquired: 10/24/2024 20:27:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7221588	1.766669	1.819908	1.548694	.4942687	105.0151
Stddev	.0029315	.037539	.008339	.013828	.0046993	.0722
%RSD	.4059301	2.124832	.4582290	.8929025	.9507517	.0687226
#1	.7254950	1.800036	1.829537	1.564622	.4996361	104.9333
#2	.7199952	1.773946	1.815170	1.539752	.4908945	105.0418
#3	.7209861	1.726024	1.815018	1.541708	.4922756	105.0700

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6453957	.1661879	.1781002	66.64932	.5709942	.2308180
Stddev	.0006831	.0004879	.0012703	.19687	.0003113	.0014601
%RSD	.1058491	.2935799	.7132475	.2953771	.0545160	.6325785
#1	.6446074	.1664294	.1795668	66.42326	.5706369	.2324869
#2	.6457644	.1665080	.1773470	66.78308	.5711386	.2297763
#3	.6458153	.1656264	.1773867	66.74162	.5712070	.2301908

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4716147	201.2592	1.379239	22.39178	.5529522	.0679436
Stddev	.0052629	.9694	.004458	.11979	.0025750	.0002526
%RSD	1.115943	.4816556	.3232212	.5349682	.4656749	.3717787
#1	.4776700	200.3306	1.374399	22.25409	.5558608	.0681856
#2	.4690325	201.1821	1.383176	22.47205	.5520324	.0676816
#3	.4681415	202.2648	1.380142	22.44921	.5509635	.0679636

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.277657	.6633528	1.111333	27.82080	.3564069	.3536393
Stddev	.028189	.0006092	.003076	.09245	.0018882	.0034653
%RSD	.5341276	.0918309	.2767513	.3323033	.5297783	.9799011
#1	5.251908	.6627749	1.113907	27.72872	.3543960	.3575585
#2	5.273287	.6639890	1.107927	27.82005	.3566826	.3523783
#3	5.307776	.6632944	1.112165	27.91362	.3581420	.3509811

Sample Name: P4509-01MSD Acquired: 10/24/2024 20:27:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6327983	1.983641	F 15.99142	F 10.02874	2.872806	.2450296
Stddev	.0025049	.009549	.03862	.05416	.024127	.0009828
%RSD	.3958467	.4813741	.2415264	.5400074	.8398379	.4010933
#1	.6351088	1.972947	16.01405	10.09121	2.899866	.2445284
#2	.6331501	1.986661	15.94682	9.99994	2.865013	.2443986
#3	.6301362	1.991314	16.01339	9.99508	2.853539	.2461620

Elem	Sr4077
Units	ppm
Avg	.3490243
Stddev	.0010209
%RSD	.2924989
#1	.3490784
#2	.3500172
#3	.3479775

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2910.734	62921.50	14223.14	2067.303	4005.088
Stddev	27.946	42.59	36.11	5.931	34.827
%RSD	.9601061	.0676820	.2538867	.2869175	.8695782
#1	2878.628	62920.39	14204.29	2065.334	3965.411
#2	2923.981	62964.63	14200.34	2073.969	4019.250
#3	2929.594	62879.48	14264.77	2062.607	4030.603

Sample Name: CCV09 Acquired: 10/24/2024 20:31:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.945735	5.277920	4.806760	5.092074	4.963596	9.529881
Stddev	.015854	.048589	.017046	.018199	.019625	.023254
%RSD	.3205593	.9206165	.3546249	.3573976	.3953706	.2440073
#1	4.930143	5.292957	4.789495	5.071145	4.949256	9.556374
#2	4.945222	5.317214	4.807206	5.100908	4.955571	9.512850
#3	4.961839	5.223590	4.823578	5.104171	4.985961	9.520419

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.145034	.2381633	2.383904	22.84694	.9197018	2.390259
Stddev	.073513	.0017826	.007607	.11193	.0061067	.009560
%RSD	.8038598	.7484673	.3190799	.4899211	.6639881	.3999370
#1	9.220974	.2378363	2.376541	22.74380	.9154745	2.381759
#2	9.139911	.2400867	2.383438	22.96597	.9267031	2.388411
#3	9.074216	.2365668	2.391733	22.83105	.9169278	2.400608

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.226948	4.553072	2.418708	24.71911	2.413632	1.220896
Stddev	.004297	.032145	.001664	.16939	.009520	.000971
%RSD	.3501783	.7060103	.0687833	.6852528	.3944262	.0795395
#1	1.223203	4.529379	2.420050	24.57756	2.403792	1.219778
#2	1.226002	4.540174	2.419226	24.90678	2.414309	1.221377
#3	1.231638	4.589663	2.416847	24.67299	2.422796	1.221533

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.96513	2.693987	2.454611	25.51610	4.698950	4.958413
Stddev	.24677	.005466	.011033	.19587	.031080	.013686
%RSD	1.074536	.2028847	.4494730	.7676196	.6614170	.2760091
#1	23.17909	2.700236	2.452720	25.61628	4.687518	4.943154
#2	22.69518	2.690100	2.444646	25.29041	4.734126	4.962485
#3	23.02114	2.691623	2.466467	25.64162	4.675205	4.969601

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV09 Acquired: 10/24/2024 20:31:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.763269	F 4.467480	5.172069	4.828240	4.724497	4.565049
Stddev	.008498	.012196	.030599	.004176	.014255	.048583
%RSD	.1784171	.2730007	.5916184	.0864815	.3017337	1.064238
#1	4.753677	4.481197	5.154211	4.823644	4.713678	4.620002
#2	4.766273	4.457858	5.154595	4.829277	4.740650	4.527806
#3	4.769858	4.463387	5.207401	4.831800	4.719163	4.547339

Elem	Sr4077
Units	ppm
Avg	4.636593
Stddev	.024422
%RSD	.5267200
#1	4.636949
#2	4.660835
#3	4.611995

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2773.367	59731.01	13084.36	1986.162	4199.602
Stddev	9.665	297.58	35.48	28.410	16.277
%RSD	.3485015	.4982043	.2711333	1.430393	.3875792
#1	2781.348	59600.00	13051.44	1971.379	4211.018
#2	2776.133	60071.62	13079.70	2018.915	4206.825
#3	2762.621	59521.42	13121.93	1968.191	4180.964

Sample Name: CCB09 Acquired: 10/24/2024 20:36:03 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000324	.0006344	-.000145	-.001573	.0010674	-.003466	-.002673
Stddev	.001489	.0021877	.000953	.001208	.0008130	.001549	.000344
%RSD	459.6218	344.8632	657.9993	76.81572	76.16916	44.69461	12.87143
#1	.001392	.0006597	.000832	-.002827	.0001305	-.004749	-.003065
#2	-.001266	.0028093	-.000195	-.000416	.0015875	-.003904	-.002531
#3	-.001098	-.001566	-.001072	-.001477	.0014841	-.001745	-.002422

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000686	.0000904	.0036591	.0000945	.0001665	-.000010	.0025248
Stddev	.0000178	.0000490	.0026091	.0001286	.0000637	.000037	.0037717
%RSD	25.93258	54.23741	71.30452	135.9855	38.24947	359.9080	149.3810
#1	.0000760	.0000344	.0014854	.0001217	.0001540	.000028	.0042658
#2	.0000483	.0001113	.0065525	.0002074	.0001100	-.000012	.0051116
#3	.0000814	.0001256	.0029393	-.000045	.0002356	-.000047	-.001803

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000007	.0063155	.0000317	.0006623	.3484462	-.002607	.0003045
Stddev	.000108	.0065906	.0002058	.0001446	.0267642	.001022	.0002163
%RSD	1594.150	104.3556	648.9054	21.83452	7.681017	39.20035	71.02070
#1	.000087	-.000587	.0000873	.0006567	.3188466	-.003631	.0001350
#2	-.000124	.006993	-.000196	.0005206	.3555504	-.001587	.0005481
#3	.000016	.012541	.000204	.0008096	.3709415	-.002603	.0002304

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0844538	.0038495	.0001836	.0041757	.0014783	.0093276	-.000128
Stddev	.0137994	.0002965	.0000756	.0007650	.0011519	.0083511	.001472
%RSD	16.33962	7.701771	41.18462	18.31911	77.91968	89.53156	1147.506
#1	.0705633	.0041839	.0001696	.0050421	.0014078	.0118254	.001326
#2	.0981604	.0037458	.0002652	.0038913	.0026639	.0161447	-.000095
#3	.0846378	.0036188	.0001159	.0035937	.0003633	.0000126	-.001616

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB09 Acquired: 10/24/2024 20:36:03 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000064	.0005650	.0000302
Stddev	.004114	.0011063	.0000200
%RSD	6440.459	195.8289	66.37880
#1	-.003568	.0014329	.0000420
#2	-.001090	.0009427	.0000416
#3	.004466	-.000681	.0000071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2979.004	63886.67	13732.88	2110.063	4874.069
Stddev	5.073	293.90	49.83	17.953	9.721
%RSD	.1702856	.4600294	.3628750	.8508247	.1994524
#1	2976.068	63897.46	13734.31	2106.391	4863.117
#2	2976.083	63587.52	13781.98	2094.230	4881.675
#3	2984.862	64175.02	13682.35	2129.568	4877.416

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01A Acquired: 10/24/2024 20:40:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7108790	1.748381	1.785646	1.534448	.4872555	102.1820
Stddev	.0022703	.044216	.002944	.005215	.0010463	.2761
%RSD	.3193594	2.528956	.1648820	.3398659	.2147416	.2702175
#1	.7105078	1.697341	1.782302	1.529004	.4882888	101.9924
#2	.7088172	1.775014	1.787848	1.534939	.4872811	102.4988
#3	.7133119	1.772787	1.786788	1.539400	.4861966	102.0549

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6349338	.1611361	.1747405	64.97272	.5557129	.2260688
Stddev	.0035089	.0026762	.0004317	.37925	.0041823	.0006378
%RSD	.5526489	1.660814	.2470324	.5837100	.7526070	.2821175
#1	.6355353	.1591216	.1744018	64.56992	.5528547	.2261795
#2	.6381031	.1601140	.1745932	65.32294	.5537707	.2253829
#3	.6311630	.1641727	.1752266	65.02532	.5605132	.2266439

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4626453	198.2230	1.349223	21.83637	.5416394	.0665596
Stddev	.0018386	1.1979	.006777	.15838	.0015004	.0003401
%RSD	.3974171	.6043013	.5022787	.7253031	.2770130	.5109637
#1	.4637865	198.2934	1.345688	21.70887	.5411454	.0664500
#2	.4605243	199.3842	1.357037	22.01366	.5404483	.0669409
#3	.4636252	196.9915	1.344945	21.78657	.5433246	.0662878

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.188702	.6235624	1.083709	27.56319	.3505761	.3492054
Stddev	.060610	.0023704	.002312	.23871	.0012480	.0007471
%RSD	1.168106	.3801384	.2133046	.8660595	.3559872	.2139432
#1	5.225664	.6210757	1.085796	27.75295	.3500460	.3485010
#2	5.221688	.6257963	1.084106	27.64146	.3496806	.3499889
#3	5.118754	.6238151	1.081224	27.29517	.3520016	.3491262

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4509-01A Acquired: 10/24/2024 20:40:23 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6213964	1.914701	F 14.66352	9.867342	2.813888	.2398786
Stddev	.0038689	.015764	.08467	.044103	.019556	.0028296
%RSD	.6226222	.8233320	.5774504	.4469555	.6949663	1.179608
#1	.6169442	1.909223	14.68021	9.828272	2.791670	.2405396
#2	.6233019	1.932473	14.73861	9.858589	2.828488	.2423193
#3	.6239429	1.902406	14.57174	9.915165	2.821507	.2367770

Elem	Sr4077
Units	ppm
Avg	.3410588
Stddev	.0016339
%RSD	.4790698
#1	.3413632
#2	.3425191
#3	.3392941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2936.496	63847.23	14610.56	2095.561	4057.863
Stddev	11.900	372.19	45.20	35.931	11.450
%RSD	.4052433	.5829418	.3093796	1.714619	.2821633
#1	2924.639	63598.58	14654.67	2067.335	4046.534
#2	2936.409	63667.99	14564.34	2083.338	4057.624
#3	2948.438	64275.13	14612.65	2136.008	4069.430

Sample Name: P4512-03 Acquired: 10/24/2024 20:44:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0696900	-.009506	.5035230	-.054724	.0069457	104.1201
Stddev	.0017024	.003448	.0047541	.000541	.0010305	1.2831
%RSD	2.442782	36.26745	.9441676	.9886176	14.83665	1.232307
#1	.0716231	-.011223	.5034124	-.055259	.0060151	105.5967
#2	.0684147	-.005537	.4988251	-.054177	.0080532	103.4878
#3	.0690321	-.011758	.5083314	-.054736	.0067688	103.2760

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4714379	.0075988	.0193737	525.8422	.2068534	.1110181
Stddev	.0040861	.0001073	.0001760	1.4900	.0010624	.0005040
%RSD	.8667383	1.411909	.9082526	.2833512	.5135817	.4539558
#1	.4759642	.0077154	.0195587	527.1322	.2080579	.1104427
#2	.4680210	.0075768	.0192084	526.1832	.2064522	.1113813
#3	.4703284	.0075042	.0193540	524.2113	.2060501	.1112303

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2959860	223.4229	4.028812	306.0860	.2138305	.0042290
Stddev	.0016792	1.5728	.015051	.9923	.0011141	.0002257
%RSD	.5673187	.7039379	.3735849	.3241764	.5210277	5.336224
#1	.2977059	221.7145	4.044541	307.1777	.2131098	.0039715
#2	.2943507	223.7435	4.027350	305.8412	.2132680	.0043228
#3	.2959013	224.8106	4.014546	305.2390	.2151137	.0043926

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965758	.3597034	.8947412	15.40589	.1095035	.0100390
Stddev	.038022	.0049610	.0058118	.10174	.0034128	.0004181
%RSD	1.282024	1.379203	.6495527	.6603994	3.116635	4.164854
#1	2.935242	.3650383	.8918049	15.33575	.1056054	.0105146
#2	2.953681	.3588433	.9014353	15.35935	.1109517	.0098730
#3	3.008351	.3552287	.8909833	15.52258	.1119535	.0097294

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4512-03 Acquired: 10/24/2024 20:44:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0130290	4.163569	F 17.15926	8.143186	3.325292	.3103584
Stddev	.0006998	.035203	.04135	.010809	.007668	.0045861
%RSD	5.370810	.8454891	.2409891	.1327341	.2305883	1.477691
#1	.0136094	4.203820	17.14091	8.145661	3.332227	.3156334
#2	.0122520	4.138530	17.13026	8.131354	3.317057	.3073165
#3	.0132257	4.148359	17.20661	8.152542	3.326592	.3081254

Elem	Sr4077
Units	ppm
Avg	.4571047
Stddev	.0103326
%RSD	2.260437
#1	.4690345
#2	.4509899
#3	.4512898

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2861.926	63108.16	15262.68	2079.722	3424.222
Stddev	4.259	220.44	153.51	24.871	2.722
%RSD	.1488242	.3493086	1.005810	1.195874	.0794788
#1	2858.202	63353.47	15100.77	2102.063	3421.106
#2	2861.005	62926.68	15281.13	2052.924	3425.429
#3	2866.570	63044.32	15406.13	2084.178	3426.132

Sample Name: P4515-01 Acquired: 10/24/2024 20:48:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0522383	.0002282	.4598401	-.036827	.0678882	116.1692
Stddev	.0018813	.0024105	.0017550	.001622	.0014929	1.2924
%RSD	3.601438	1056.368	.3816520	4.403632	2.199001	1.112535
#1	.0543268	-.002480	.4583614	-.035264	.0676793	115.4454
#2	.0517117	.001027	.4593793	-.036717	.0665107	115.4009
#3	.0506764	.002138	.4617794	-.038502	.0694745	117.6613

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8805452	.0081377	.0121845	23.23603	.2832211	.1061948
Stddev	.0075519	.0001558	.0001498	.28145	.0010885	.0004027
%RSD	.8576438	1.914212	1.229464	1.211260	.3843319	.3791801
#1	.8738620	.0081087	.0122750	23.04934	.2825471	.1060761
#2	.8790357	.0079984	.0120115	23.09900	.2826394	.1058648
#3	.8887379	.0083059	.0122668	23.55975	.2844769	.1066435

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4703887	202.3146	3.015174	37.36916	.2450350	.0040111
Stddev	.0010472	1.0983	.033061	.51179	.0009540	.0002854
%RSD	.2226285	.5428756	1.096495	1.369539	.3893192	7.114243
#1	.4712176	201.0656	2.992169	36.95930	.2446775	.0037514
#2	.4692118	202.7484	3.000293	37.20540	.2443115	.0043166
#3	.4707366	203.1297	3.053061	37.94279	.2461161	.0039654

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.576079	.2962592	2.533593	14.29635	.1703630	.0114848
Stddev	.025115	.0035478	.005993	.11932	.0007051	.0003247
%RSD	.9749202	1.197519	.2365589	.8346400	.4138833	2.826985
#1	2.554680	.2930970	2.535755	14.15901	.1695622	.0112943
#2	2.603729	.2955849	2.526819	14.37463	.1708904	.0118597
#3	2.569826	.3000958	2.538205	14.35540	.1706366	.0113004

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4515-01 Acquired: 10/24/2024 20:48:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0429757	2.910972	F 20.69557	6.231273	F 15.87525	.2018571
Stddev	.0016069	.027033	.13895	.031343	.05592	.0015388
%RSD	3.739187	.9286558	.6713767	.5029969	.3522777	.7623181
#1	.0427276	2.902140	20.57220	6.239263	15.84901	.2000867
#2	.0446923	2.889460	20.66844	6.196708	15.83727	.2028728
#3	.0415072	2.941317	20.84608	6.257848	15.93947	.2026119

Elem	Sr4077
Units	ppm
Avg	-.087111
Stddev	.000851
%RSD	.9771699
#1	-.086539
#2	-.088090
#3	-.086705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3006.798	64749.98	15438.24	2139.888	4091.438
Stddev	9.349	57.20	129.22	6.760	10.105
%RSD	.3109140	.0883408	.8370010	.3159249	.2469851
#1	2997.647	64777.17	15460.50	2135.396	4079.844
#2	3006.414	64684.25	15554.87	2147.663	4096.092
#3	3016.332	64788.51	15299.33	2136.605	4098.378

Sample Name: P4517-01 Acquired: 10/24/2024 20:52:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1481961	-.037862	.6240241	-.045170	.0139560	130.1242
Stddev	.0004579	.002253	.0026005	.001008	.0014283	.1792
%RSD	.3089847	5.949579	.4167253	2.230954	10.23409	.1377522
#1	.1479514	-.036119	.6226101	-.044520	.0124173	130.0618
#2	.1479125	-.037061	.6224371	-.046331	.0142110	129.9845
#3	.1487243	-.040405	.6270252	-.044659	.0152395	130.3263

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.457322	.0098835	.0200379	1320.109	1.204525	.0799671
Stddev	.001443	.0000174	.0001322	11.002	.006988	.0003428
%RSD	.0990247	.1764700	.6596356	.8334434	.5801381	.4286488
#1	1.457670	.0098999	.0201413	1309.819	1.196660	.0796499
#2	1.455737	.0098652	.0200834	1318.800	1.206894	.0799206
#3	1.458560	.0098856	.0198890	1331.707	1.210020	.0803308

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7178690	167.4766	4.472994	48.43403	.5399464	.0031748
Stddev	.0005989	1.0025	.012839	.27330	.0007240	.0003338
%RSD	.0834271	.5986204	.2870291	.5642656	.1340863	10.51252
#1	.7179198	166.7182	4.472666	48.31295	.5395782	.0030562
#2	.7184408	167.0983	4.460323	48.24218	.5394806	.0029165
#3	.7172463	168.6132	4.485995	48.74694	.5407805	.0035516

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.329241	.7626040	2.037276	11.69141	.3212562	.0970902
Stddev	.027057	.0031220	.004874	.01364	.0023595	.0006383
%RSD	.6249821	.4093826	.2392299	.1166670	.7344633	.6573856
#1	4.302346	.7635188	2.037891	11.70175	.3186701	.0965623
#2	4.328918	.7591268	2.032123	11.67595	.3218068	.0969088
#3	4.356458	.7651664	2.041812	11.69652	.3232917	.0977995

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-01 Acquired: 10/24/2024 20:52:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0560222	7.868537	F 184.2641	4.580935	F 49.87929	.4786690
Stddev	.0026123	.014156	.8475	.020489	.03474	.0010666
%RSD	4.662958	.1799113	.4599331	.4472756	.0696548	.2228329
#1	.0530058	7.864827	183.7028	4.568168	49.87246	.4780903
#2	.0575314	7.856606	183.8506	4.570069	49.84847	.4780167
#3	.0575294	7.884180	185.2390	4.604569	49.91694	.4798999

Elem	Sr4077
Units	ppm
Avg	1.275869
Stddev	.012110
%RSD	.9491952
#1	1.267027
#2	1.289672
#3	1.270909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2683.987	58672.58	15075.69	1917.686	3115.291
Stddev	6.383	140.69	39.01	14.732	6.477
%RSD	.2378141	.2397915	.2587839	.7682138	.2079249
#1	2676.788	58604.05	15042.73	1903.601	3107.816
#2	2688.955	58834.41	15118.77	1932.989	3119.272
#3	2686.217	58579.28	15065.59	1916.469	3118.784

Sample Name: P4517-03 Acquired: 10/24/2024 20:57:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1054129	-.048451	.7617312	-.050136	.0164168	144.0831
Stddev	.0010803	.006064	.0017112	.003406	.0013946	.0925
%RSD	1.024856	12.51549	.2246456	6.793495	8.494821	.0642249
#1	.1047636	-.044815	.7635321	-.053746	.0148415	143.9774
#2	.1048152	-.055452	.7615348	-.046980	.0169150	144.1225
#3	.1066601	-.045087	.7601267	-.049681	.0174938	144.1494

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.186385	.0065204	.0215833	1737.451	1.217989	.0799059
Stddev	.003814	.0000783	.0002125	.953	.004010	.0005979
%RSD	.1744478	1.200323	.9844049	.0548502	.3292163	.7481952
#1	2.190734	.0066088	.0215142	1736.954	1.222241	.0801331
#2	2.183608	.0064601	.0218218	1738.549	1.214275	.0792278
#3	2.184813	.0064922	.0214140	1736.849	1.217450	.0803568

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8433869	183.2137	4.944359	58.96414	.5895031	.0033214
Stddev	.0018313	1.0115	.010803	.17998	.0012756	.0002793
%RSD	.2171407	.5520786	.2185001	.3052376	.2163888	8.409320
#1	.8454388	183.0413	4.954718	59.12907	.5905016	.0035135
#2	.8419184	182.2995	4.933160	58.77217	.5880661	.0030010
#3	.8428034	184.3003	4.945197	58.99117	.5899416	.0034497

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.549734	.8145538	2.635702	21.06806	.1862879	.1145872
Stddev	.056761	.0057578	.013298	.11096	.0016831	.0004374
%RSD	.5943708	.7068659	.5045490	.5266602	.9035101	.3817001
#1	9.544047	.8201568	2.621074	21.03734	.1863678	.1147870
#2	9.496030	.8086527	2.647061	20.97569	.1845662	.1140856
#3	9.609123	.8148519	2.638970	21.19113	.1879296	.1148890

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-03 Acquired: 10/24/2024 20:57:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0552165	9.185830	F 252.0649	3.778751	F 72.80838	.6523838
Stddev	.0020580	.009975	1.4005	.003717	.26848	.0030712
%RSD	3.727191	.1085954	.5556180	.0983526	.3687482	.4707677
#1	.0575739	9.196100	251.2720	3.780959	73.10902	.6495268
#2	.0542974	9.176178	251.2406	3.774460	72.72357	.6556318
#3	.0537781	9.185212	253.6820	3.780834	72.59254	.6519929

Elem	Sr4077
Units	ppm
Avg	.9376093
Stddev	.0050267
%RSD	.5361145
#1	.9433955
#2	.9351123
#3	.9343200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2634.696	55634.19	14565.30	1860.420	3082.582
Stddev	9.172	112.77	50.94	4.841	11.878
%RSD	.3481370	.2026980	.3497521	.2602123	.3853406
#1	2625.008	55582.74	14518.88	1865.983	3069.179
#2	2643.247	55763.51	14557.23	1858.119	3091.809
#3	2635.832	55556.32	14619.80	1857.160	3086.757

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-05 Acquired: 10/24/2024 21:01:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0965461	-.049503	.7215300	-.054117	.0066281	152.2743
Stddev	.0000710	.005205	.0037290	.004260	.0026628	.2459
%RSD	.0735361	10.51465	.5168212	7.872444	40.17355	.1614890
#1	.0965207	-.052341	.7257541	-.049211	.0093024	152.2729
#2	.0964913	-.043496	.7201411	-.056885	.0066049	152.5209
#3	.0966263	-.052672	.7186947	-.056255	.0039770	152.0291

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.827480	.0061409	.0193187	1736.700	1.541266	.1098323
Stddev	.006881	.0001040	.0003986	5.122	.007488	.0008469
%RSD	.3765047	1.692987	2.063210	.2949365	.4858503	.7711172
#1	1.835170	.0062514	.0197724	1732.436	1.538388	.1107908
#2	1.821907	.0061264	.0190248	1735.283	1.535644	.1091850
#3	1.825362	.0060450	.0191588	1742.382	1.549766	.1095211

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9464216	193.6446	5.519875	74.30586	.6455392	.0044264
Stddev	.0061213	.6535	.010121	.10053	.0034594	.0003004
%RSD	.6467866	.3374800	.1833615	.1352894	.5358978	6.785935
#1	.9534233	193.0208	5.520200	74.38292	.6494356	.0042336
#2	.9420827	193.5888	5.509595	74.19215	.6428286	.0042730
#3	.9437587	194.3242	5.529830	74.34250	.6443534	.0047725

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.407518	.9764224	2.982249	24.76334	.1910768	.1150588
Stddev	.022310	.0058656	.004054	.02156	.0012588	.0011290
%RSD	.9266978	.6007225	.1359534	.0870517	.6587712	.9812266
#1	2.384621	.9827403	2.984840	24.76527	.1897163	.1163386
#2	2.408741	.9711497	2.977576	24.74088	.1913140	.1146337
#3	2.429191	.9753771	2.984331	24.78386	.1922001	.1142040

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-05 Acquired: 10/24/2024 21:01:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0512856	F 11.79492	F 50.89649	3.654516	F 74.90787	.6525860
Stddev	.0019795	.01390	.14212	.024592	.62840	.0058250
%RSD	3.859672	.1178418	.2792390	.6729249	.8388958	.8926042
#1	.0510157	11.80883	50.75388	3.682123	75.63247	.6486320
#2	.0494549	11.79490	51.03812	3.634953	74.51234	.6592752
#3	.0533861	11.78103	50.89746	3.646471	74.57880	.6498508

Elem	Sr4077
Units	ppm
Avg	.8797030
Stddev	.0069158
%RSD	.7861518
#1	.8798223
#2	.8865583
#3	.8727283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.904	54411.28	13995.49	1791.753	3149.104
Stddev	21.036	76.14	34.03	8.651	24.351
%RSD	.8347869	.1399374	.2431520	.4828099	.7732664
#1	2497.239	54393.94	13964.83	1785.659	3122.571
#2	2538.802	54345.30	13989.53	1787.946	3170.432
#3	2523.672	54494.59	14032.10	1801.654	3154.308

Sample Name: P4517-07 Acquired: 10/24/2024 21:05:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0333552	-.034200	.0863630	-.043213	.0028737	140.4532
Stddev	.0035038	.002672	.0022131	.002509	.0028901	.3750
%RSD	10.50461	7.811837	2.562536	5.806171	100.5695	.2669813
#1	.0343551	-.031160	.0853684	-.040437	-.000184	140.1229
#2	.0294601	-.036175	.0848217	-.043883	.003245	140.3758
#3	.0362504	-.035265	.0888989	-.045319	.005560	140.8608

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8287372	.0086120	.0176004	1496.729	.2563087	.0606325
Stddev	.0057784	.0001042	.0004013	10.669	.0008538	.0003652
%RSD	.6972546	1.210247	2.280250	.7128516	.3331001	.6022859
#1	.8221654	.0085215	.0177329	1485.374	.2563753	.0604769
#2	.8310239	.0085885	.0171496	1498.268	.2571272	.0603708
#3	.8330224	.0087260	.0179188	1506.546	.2554236	.0610497

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1630257	152.2523	2.275908	96.11336	.1580984	.0032666
Stddev	.0009880	1.6838	.025189	1.17321	.0014511	.0003000
%RSD	.6060311	1.105932	1.106784	1.220653	.9178137	9.183840
#1	.1639653	150.3080	2.246829	94.77046	.1565126	.0029332
#2	.1619956	153.2156	2.291014	96.93936	.1584230	.0035147
#3	.1631162	153.2333	2.289881	96.63026	.1593597	.0033519

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.213589	.2369825	.5608561	22.44789	.1762089	.0226192
Stddev	.072188	.0029129	.0021435	.19863	.0022119	.0005709
%RSD	1.000724	1.229167	.3821879	.8848695	1.255289	2.524134
#1	7.130247	.2353569	.5598457	22.22253	.1737110	.0220332
#2	7.256544	.2403454	.5594045	22.52360	.1769962	.0231738
#3	7.253977	.2352452	.5633181	22.59753	.1779195	.0226505

Sample Name: P4517-07 Acquired: 10/24/2024 21:05:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.002524	8.923302	F 149.3252	9.647769	F 74.14347	.5619936
Stddev	.003138	.040132	.8879	.022339	.32816	.0044775
%RSD	124.3458	.4497401	.5946155	.2315438	.4426066	.7967093
#1	-.000182	8.877064	148.3420	9.634657	73.86772	.5659382
#2	-.001299	8.943757	149.5651	9.635087	74.05627	.5571269
#3	-.006090	8.949086	150.0685	9.673562	74.50643	.5629156

Elem	Sr4077
Units	ppm
Avg	2.466509
Stddev	.007805
%RSD	.3164508
#1	2.464690
#2	2.459774
#3	2.475063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2734.606	58359.20	15188.74	1934.751	2992.237
Stddev	4.807	135.61	3.86	13.355	5.434
%RSD	.1757738	.2323662	.0253875	.6902476	.1815977
#1	2737.068	58513.67	15192.30	1949.816	2996.014
#2	2737.684	58304.15	15189.28	1930.073	2994.687
#3	2729.067	58259.77	15184.64	1924.366	2986.009

Sample Name: PB164376BL Acquired: 10/24/2024 21:10:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000747	-.000790	-.000019	-.000293	-.000225	.0034535	-.003003
Stddev	.001245	.000501	.000486	.000766	.000882	.0031920	.000344
%RSD	166.7467	63.39644	2519.764	261.7603	392.6829	92.42760	11.44025
#1	.000646	-.000313	.000538	.000481	.000159	.0059156	-.002795
#2	-.001134	-.000745	-.000353	-.000307	-.001233	-.000153	-.003400
#3	-.001752	-.001312	-.000243	-.001052	.000401	.004598	-.002816

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000583	.0000408	.0555933	.0000382	.0001077	-.000218	.0074628
Stddev	.0000169	.0000309	.0028719	.0001593	.0001197	.000254	.0016920
%RSD	28.91776	75.73030	5.165908	417.0949	111.0650	116.8420	22.67308
#1	.0000730	.0000225	.0523949	.0001740	.0000087	.000074	.0092256
#2	.0000621	.0000234	.0579510	.0000778	.0002407	-.000390	.0073111
#3	.0000399	.0000765	.0564341	-.000137	.0000738	-.000338	.0058517

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002614	-.001383	-.000146	.0006076	.2313891	-.002632	.0003001
Stddev	.0001160	.012304	.000222	.0000844	.0163605	.000095	.0002499
%RSD	44.37001	889.3809	151.5354	13.88994	7.070575	3.618449	83.27504
#1	.0003703	-.008501	-.000314	.0005862	.2172099	-.002582	.0005255
#2	.0001394	.012824	-.000230	.0007006	.2276675	-.002742	.0000314
#3	.0002747	-.008473	.000105	.0005360	.2492898	-.002572	.0003434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237537	-.000101	-.000183	.0045382	.0005315	.0611519	.0004831
Stddev	.0101812	.000770	.000092	.0010061	.0002926	.0038680	.0009390
%RSD	42.86152	766.0563	50.47382	22.16929	55.04722	6.325228	194.3981
#1	.0185536	-.000933	-.000231	.0034998	.0002139	.0646964	-.000549
#2	.0354847	.000586	-.000241	.0055086	.0007899	.0617332	.000710
#3	.0172226	.000046	-.000076	.0046063	.0005906	.0570262	.001288

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164376BL Acquired: 10/24/2024 21:10:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0011966	.0012678	.0000579
Stddev	.0024038	.0014492	.0000216
%RSD	200.8940	114.3080	37.35171
#1	.0030020	.0028659	.0000828
#2	.0021196	.0008988	.0000433
#3	-.001532	.0000388	.0000477

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2865.308	62125.57	13774.78	2054.173	4678.621
Stddev	17.156	113.09	52.17	4.812	33.571
%RSD	.5987482	.1820341	.3787600	.2342678	.7175471
#1	2855.139	62243.08	13741.86	2057.765	4656.233
#2	2855.669	62116.15	13747.55	2056.049	4662.407
#3	2885.115	62017.49	13834.94	2048.706	4717.221

Sample Name: PB164376BS Acquired: 10/24/2024 21:14:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7616079	2.129696	.9386965	1.962059	.7971954	1.901257
Stddev	.0006161	.023933	.0020401	.002930	.0018363	.006297
%RSD	.0808971	1.123778	.2173362	.1493513	.2303451	.3311932
#1	.7623084	2.104278	.9405935	1.959815	.7956238	1.907517
#2	.7611498	2.151799	.9365384	1.965375	.7992139	1.901329
#3	.7613656	2.133010	.9389576	1.960989	.7967486	1.894924

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1836183	.1934863	.1830578	.9847972	.3886062	.1977612
Stddev	.0009639	.0005259	.0002207	.0029548	.0002276	.0002233
%RSD	.5249430	.2718123	.1205452	.3000445	.0585765	.1129045
#1	.1840798	.1937203	.1830921	.9820316	.3883587	.1979711
#2	.1842646	.1938546	.1828220	.9879105	.3886535	.1975266
#3	.1825104	.1928840	.1832593	.9844496	.3888065	.1977860

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3144085	2.842209	.2037127	1.997667	.5005800	.0770841
Stddev	.0002766	.005595	.0011221	.016818	.0004105	.0001728
%RSD	.0879853	.1968366	.5508050	.8418906	.0820031	.2241344
#1	.3142094	2.847611	.2033342	1.992332	.5010413	.0770278
#2	.3142916	2.842577	.2049750	2.016506	.5004438	.0772780
#3	.3147243	2.836440	.2028288	1.984164	.5002550	.0769465

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.951514	.3161413	.2096572	10.50585	.2836961	.4134447
Stddev	.014610	.0008489	.0005669	.02350	.0011008	.0000804
%RSD	.4949940	.2685253	.2703925	.2237087	.3880144	.0194491
#1	2.967998	.3171207	.2098297	10.47887	.2830609	.4135143
#2	2.940165	.3156869	.2101179	10.51686	.2849672	.4134632
#3	2.946380	.3156164	.2090241	10.52183	.2830602	.4133567

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164376BS Acquired: 10/24/2024 21:14:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6801130	.1824158	F .7026767	5.637018	F -.010806	.1833866
Stddev	.0029026	.0005279	.0073023	.012235	.004119	.0021927
%RSD	.4267839	.2893966	1.039207	.2170526	38.11724	1.195650
#1	.6771523	.1830051	.7104698	5.622908	-.009870	.1854163
#2	.6829538	.1822564	.7015684	5.643450	-.007235	.1836826
#3	.6802329	.1819860	.6959920	5.644695	-.015312	.1810610

Elem	Sr4077
Units	ppm
Avg	.1925409
Stddev	.0005358
%RSD	.2782622
#1	.1929485
#2	.1927403
#3	.1919341

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2854.526	61259.66	13399.00	2037.114	4534.261
Stddev	3.454	127.09	68.76	11.132	5.903
%RSD	.1209920	.2074580	.5131919	.5464436	.1301796
#1	2851.338	61147.97	13355.62	2028.096	4527.517
#2	2854.045	61233.06	13363.11	2033.691	4538.488
#3	2858.195	61397.94	13478.28	2049.556	4536.779

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3426-01 Acquired: 10/24/2024 21:18:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0037004	-.000350	-.002212	-.004832	-.000748	.0369671	.3818495
Stddev	.0014438	.000460	.000381	.000763	.000974	.0018285	.0010617
%RSD	39.01756	131.3828	17.23919	15.79822	130.2205	4.946298	.2780441
#1	.0023015	-.000331	-.002383	-.004561	-.001004	.0380694	.3811236
#2	.0051852	.000100	-.001775	-.005695	.000329	.0379754	.3813568
#3	.0036145	-.000819	-.002478	-.004242	-.001569	.0348564	.3830680

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000539	.0003460	58.54024	.0061311	.0029692	-.003662	7.584600
Stddev	.000037	.0000643	.06901	.0003168	.0000813	.000043	.012695
%RSD	6.902707	18.59121	.1178774	5.166533	2.737424	1.179746	.1673816
#1	-.000518	.0003632	58.47611	.0058823	.0030167	-.003616	7.599053
#2	-.000582	.0004000	58.61326	.0064877	.0028754	-.003702	7.575253
#3	-.000517	.0002748	58.53135	.0060233	.0030156	-.003668	7.579493

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.38055	22.26115	.0035383	.0006936	333.8765	-.000828	.0225518
Stddev	.03594	.06854	.0001200	.0000808	3.9723	.001191	.0003182
%RSD	.2902884	.3078960	3.392474	11.64451	1.189761	143.8759	1.410939
#1	12.42170	22.33919	.0034872	.0006039	336.9494	-.001788	.0223722
#2	12.35531	22.21075	.0034522	.0007165	329.3910	.000505	.0223642
#3	12.36465	22.23350	.0036754	.0007605	335.2892	-.001201	.0229192

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.46350	.1926001	-.000171	-.004564	-.000074	7.262555	.1220196
Stddev	.03753	.0005910	.000164	.000238	.000855	.013990	.0026001
%RSD	.3011554	.3068735	95.85596	5.220849	1162.652	.1926320	2.130878
#1	12.44183	.1919211	-.000184	-.004299	.000909	7.266901	.1196315
#2	12.44184	.1929991	-.000329	-.004635	-.000649	7.246908	.1247894
#3	12.50684	.1928802	-.000001	-.004759	-.000481	7.273857	.1216378

Sample Name: P3426-01 Acquired: 10/24/2024 21:18:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.421412	.0146463	.4344727
Stddev	.014450	.0009551	.0011116
%RSD	1.016585	6.521179	.2558436
#1	1.431917	.0135506	.4337725
#2	1.427386	.0150862	.4338913
#3	1.404933	.0153023	.4357544

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2620.140	56530.38	13730.13	1899.127	3862.388
Stddev	17.927	147.25	30.21	.790	29.941
%RSD	.6842071	.2604866	.2200287	.0415865	.7751814
#1	2615.750	56569.90	13753.54	1898.305	3858.340
#2	2604.816	56653.85	13740.83	1899.196	3834.678
#3	2639.855	56367.40	13696.03	1899.881	3894.147

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV10 Acquired: 10/24/2024 21:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.072307	5.344934	4.950588	5.193198	5.113806	9.594722	9.338992
Stddev	.013209	.097571	.022915	.018976	.016123	.065645	.049375
%RSD	.2604139	1.825495	.4628807	.3653926	.3152856	.6841808	.5286962
#1	5.059941	5.264631	4.925831	5.174885	5.099317	9.544461	9.392482
#2	5.070759	5.316648	4.954878	5.191936	5.110925	9.570714	9.295160
#3	5.086222	5.453523	4.971055	5.212773	5.131175	9.668992	9.329335

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2408398	2.456940	23.29574	.9434990	2.465481	1.262334	4.629194
Stddev	.0006663	.008508	.14814	.0044167	.007891	.003581	.023955
%RSD	.2766479	.3462950	.6359183	.4681243	.3200487	.2837200	.5174817
#1	.2401919	2.449070	23.23233	.9477120	2.456997	1.258376	4.626714
#2	.2408046	2.455783	23.18985	.9438816	2.466843	1.263273	4.606575
#3	.2415230	2.465968	23.46503	.9389034	2.472601	1.265352	4.654292

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.480404	25.43834	2.486168	1.241131	23.76679	2.668320	2.509399
Stddev	.011638	.19378	.009061	.000352	.05840	.014258	.006673
%RSD	.4691784	.7617603	.3644527	.0283776	.2457088	.5343417	.2659153
#1	2.473025	25.26790	2.476401	1.240797	23.81750	2.663934	2.502080
#2	2.474368	25.39802	2.487801	1.241499	23.70294	2.656770	2.510973
#3	2.493819	25.64911	2.494301	1.241097	23.77991	2.684255	2.515144

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.05818	4.797277	5.098858	4.912179	4.623134	5.257232	5.016850
Stddev	.04898	.018619	.018140	.025096	.025549	.045101	.016581
%RSD	.1879675	.3881186	.3557705	.5108881	.5526257	.8578758	.3304965
#1	26.09639	4.782106	5.080547	4.891631	4.613525	5.206839	5.001219
#2	26.00296	4.791669	5.099207	4.904758	4.603784	5.271050	5.015091
#3	26.07519	4.818055	5.116822	4.940149	4.652095	5.293807	5.034240

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV10 Acquired: 10/24/2024 21:22:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.854036	4.778116	4.773366
Stddev	.024972	.021133	.038946
%RSD	.5144566	.4422882	.8159098
#1	4.833670	4.774097	4.730617
#2	4.846541	4.759281	4.782650
#3	4.881897	4.800970	4.806832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2729.975	59548.46	12932.37	1961.370	4118.899
Stddev	2.901	33.90	42.72	10.233	5.636
%RSD	.1062627	.0569284	.3303450	.5217522	.1368361
#1	2733.107	59514.28	12964.35	1971.205	4125.326
#2	2727.379	59549.03	12948.91	1962.126	4116.571
#3	2729.440	59582.08	12883.86	1950.780	4114.799

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB10 Acquired: 10/24/2024 21:28:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022134	-.001844	-.000724	.0003870	.0003510	.0000512	-.003908
Stddev	.0015482	.000477	.000191	.0005253	.0002426	.0044114	.000335
%RSD	69.94980	25.83851	26.44345	135.7336	69.12481	8611.440	8.582321
#1	.0017000	-.002138	-.000549	-.000089	.0001471	.0042995	-.004197
#2	.0009870	-.001295	-.000693	.000950	.0006193	.0003612	-.003986
#3	.0039531	-.002101	-.000928	.000300	.0002866	-.004507	-.003540

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000405	.0001312	.0021133	.0001809	.0002392	-.000066	.0005490
Stddev	.0000463	.0000898	.0063467	.0004895	.0000400	.000090	.0016899
%RSD	114.2802	68.43899	300.3229	270.6237	16.74233	137.1772	307.8016
#1	.0000604	.0002252	.0088135	-.000209	.0001931	-.000125	-.001328
#2	.0000734	.0000464	-.003808	.000022	.0002651	-.000109	.001025
#3	-.000012	.0001220	.001335	.000730	.0002595	.000038	.001950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000626	.0008960	-.000127	.0007468	.1325719	-.002649	.0004844
Stddev	.0001428	.0078728	.000070	.0000534	.0178153	.001113	.0000285
%RSD	228.3019	878.6753	54.63262	7.144771	13.43818	41.99832	5.876373
#1	-.000101	-.001236	-.000123	.0006852	.1160882	-.001701	.0005060
#2	.000128	-.005691	-.000060	.0007779	.1301554	-.003874	.0004952
#3	.000161	.009615	-.000199	.0007773	.1514720	-.002372	.0004522

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002764	.0029322	.0002149	.0048298	.0005695	.0046775	-.000848
Stddev	.018067	.0004089	.0002768	.0009417	.0000718	.0023953	.001176
%RSD	653.7052	13.94490	128.8103	19.49671	12.61561	51.20868	138.6916
#1	-.012053	.0029921	.0004802	.0050481	.0006048	.0063626	.000476
#2	-.014296	.0033079	-.000072	.0037982	.0004868	.0019356	-.001247
#3	.018058	.0024967	.000237	.0056431	.0006169	.0057344	-.001772

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB10 Acquired: 10/24/2024 21:28:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001489	.0008770	.0001428
Stddev	.003270	.0018267	.0000433
%RSD	219.5245	208.2855	30.28616
#1	-.000953	.0011856	.0000956
#2	.001479	-.001084	.0001522
#3	-.004994	.002530	.0001806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2585.286	56374.83	12574.57	1855.252	4215.692
Stddev	6.068	91.04	222.37	7.455	7.785
%RSD	.2347044	.1614913	1.768386	.4018182	.1846583
#1	2589.365	56436.89	12831.28	1849.491	4220.178
#2	2588.179	56417.28	12441.73	1863.672	4220.196
#3	2578.313	56270.31	12450.69	1852.593	4206.703

Sample Name: P3426-02 Acquired: 10/24/2024 21:32:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0026040	-.006724	-.001628	-.001514	-.000422	.0212900	.3641340
Stddev	.0005555	.001740	.000757	.001029	.000239	.0005135	.0271075
%RSD	21.33138	25.87883	46.47675	67.93326	56.64477	2.411682	7.444383
#1	.0021407	-.006672	-.002180	-.001143	-.000149	.0208111	.3895776
#2	.0024516	-.008490	-.000765	-.002677	-.000525	.0218321	.3672010
#3	.0032198	-.005011	-.001938	-.000723	-.000592	.0212269	.3356234

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000553	.0003204	55.37195	.0061744	.0029310	-.003068	7.212220
Stddev	.000040	.0001102	4.14636	.0008026	.0002422	.000110	.278678
%RSD	7.274843	34.40447	7.488194	12.99953	8.262926	3.587426	3.863964
#1	-.000550	.0004477	59.33336	.0055015	.0030446	-.003023	7.029996
#2	-.000594	.0002538	55.71994	.0059588	.0030955	-.002988	7.073642
#3	-.000514	.0002598	51.06257	.0070628	.0026529	-.003194	7.533021

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.55333	17.75508	.0043086	.0010412	262.1402	-.000867	.0187062
Stddev	.79223	1.38040	.0003295	.0002980	15.9657	.000837	.0011223
%RSD	7.506947	7.774675	7.648280	28.62462	6.090525	96.64509	5.999612
#1	11.30647	19.08362	.0043881	.0008360	249.3524	-.000865	.0181347
#2	10.62644	17.85355	.0039466	.0009045	257.0336	-.000030	.0179846
#3	9.72707	16.32809	.0045911	.0013830	280.0344	-.001705	.0199992

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.05686	.1814650	-.000109	-.004052	-.000586	7.057367	.1146029
Stddev	.45908	.0099022	.000086	.000501	.000276	.281043	.0062442
%RSD	4.151989	5.456785	78.47814	12.35546	47.11391	3.982267	5.448535
#1	10.74999	.1913194	-.000207	-.003922	-.000276	6.879855	.1202903
#2	10.83595	.1815600	-.000069	-.004605	-.000807	6.910852	.1079213
#3	11.58463	.1715157	-.000051	-.003629	-.000675	7.381394	.1155971

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3426-02 Acquired: 10/24/2024 21:32:27 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.408474	.0145521	.4151080
Stddev	.049352	.0029836	.0314177
%RSD	3.503942	20.50315	7.568563
#1	1.464275	.0172246	.4448840
#2	1.370559	.0150988	.4181677
#3	1.390587	.0113329	.3822724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2584.400	57056.81	14195.01	1886.840	3841.989
Stddev	77.673	2907.59	877.92	98.718	119.398
%RSD	3.005466	5.095959	6.184683	5.231929	3.107704
#1	2495.228	59186.93	13375.70	1955.951	3704.943
#2	2637.312	58239.19	14087.66	1930.790	3923.534
#3	2620.660	53744.30	15121.66	1773.780	3897.490

Sample Name: P3429-01 Acquired: 10/24/2024 21:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0015679	-.008796	-.003102	-.004454	-.001133	.0049190	.4380273
Stddev	.0003734	.001906	.000316	.000735	.000305	.0060668	.0076532
%RSD	23.81771	21.67079	10.19202	16.50037	26.89949	123.3331	1.747199
#1	.0012274	-.006801	-.002846	-.004582	-.001110	.0118773	.4296125
#2	.0015090	-.008989	-.003005	-.003663	-.001448	.0021416	.4398972
#3	.0019672	-.010598	-.003455	-.005116	-.000840	.0007381	.4445723

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000773	.0003779	64.67789	.0054600	.0023778	-.004102	8.110141
Stddev	.000049	.0000652	.63500	.0001310	.0000564	.000246	.081206
%RSD	6.324089	17.24882	.9817856	2.399478	2.373638	5.999959	1.001293
#1	-.000772	.0003599	63.95602	.0055464	.0024233	-.004252	8.145985
#2	-.000725	.0003235	65.15016	.0053092	.0023146	-.004236	8.167257
#3	-.000823	.0004501	64.92751	.0055242	.0023953	-.003818	8.017179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.12703	21.22459	.0021772	.0011787	312.2806	-.000649	.0598020
Stddev	.16636	.22527	.0001183	.0003253	4.7256	.001896	.0007989
%RSD	1.177610	1.061365	5.432774	27.59559	1.513240	292.2621	1.335889
#1	13.93502	20.96535	.0023084	.0015397	315.3354	-.001946	.0607229
#2	14.22786	21.37270	.0021445	.0010878	314.6687	.001527	.0593891
#3	14.21823	21.33572	.0020788	.0009085	306.8376	-.001527	.0592941

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.31348	.1960848	-.000111	-.005437	-.001136	7.204195	.0888510
Stddev	.04835	.0018995	.000385	.000312	.000460	.057760	.0050733
%RSD	.3926204	.9686916	348.4634	5.742508	40.52579	.8017489	5.709937
#1	12.36661	.1939057	-.000073	-.005291	-.001662	7.249636	.0833479
#2	12.27207	.1969578	.000254	-.005224	-.000935	7.223753	.0898630
#3	12.30177	.1973907	-.000513	-.005795	-.000810	7.139196	.0933420

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3429-01 Acquired: 10/24/2024 21:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.698715	.0161596	.4961999
Stddev	.007508	.0009773	.0080019
%RSD	.4419582	6.047975	1.612632
#1	1.690070	.0172446	.4873648
#2	1.702473	.0158857	.4982754
#3	1.703601	.0153484	.5029596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.196	55400.90	13759.64	1856.280	3742.296
Stddev	15.855	450.63	138.74	11.103	17.000
%RSD	.6241753	.8134052	1.008287	.5981147	.4542772
#1	2558.446	55076.68	13919.76	1849.816	3760.204
#2	2532.332	55210.55	13675.12	1849.925	3740.306
#3	2529.809	55915.48	13684.04	1869.101	3726.379

Sample Name: P3429-02 Acquired: 10/24/2024 21:41:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0136613	-.002811	.0037453	-.005527	-.000530	.3523332	.2121713
Stddev	.0008612	.001803	.0009239	.000826	.000732	.0034041	.0015464
%RSD	6.303699	64.15771	24.66877	14.94856	138.1862	.9661674	.7288461
#1	.0143365	-.001400	.0030621	-.004598	-.001301	.3507584	.2125857
#2	.0139559	-.002190	.0033773	-.005802	.000156	.3500016	.2134682
#3	.0126915	-.004842	.0047965	-.006180	-.000445	.3562396	.2104599

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003253	.0007122	18.55050	.0067215	.0128360	.0078705	18.33004
Stddev	.0000467	.0001746	.17668	.0000719	.0004303	.0010491	.09700
%RSD	14.34630	24.51247	.9524219	1.069632	3.352246	13.32979	.5291853
#1	.0003443	.0005177	18.62612	.0066710	.0123872	.0067171	18.22281
#2	.0002721	.0007638	18.67679	.0066897	.0128758	.0081265	18.41169
#3	.0003595	.0008553	18.34860	.0068038	.0132451	.0087679	18.35562

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.612254	6.025944	.0189177	.0007723	80.00435	.0033406	.0287938
Stddev	.026157	.064049	.0007317	.0001588	.39001	.0007330	.0005068
%RSD	1.001313	1.062893	3.867573	20.55685	.4874852	21.94246	1.759984
#1	2.621311	6.040237	.0181582	.0009072	79.58887	.0041803	.0284556
#2	2.632678	6.081640	.0189770	.0008124	80.36256	.0030126	.0293764
#3	2.582772	5.955956	.0196179	.0005973	80.06162	.0028288	.0285493

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.796502	.0659054	.0004787	-.002938	.0045961	6.484527	.4483381
Stddev	.027341	.0010661	.0001098	.001316	.0003633	.040788	.0168474
%RSD	.5700205	1.617561	22.94588	44.78915	7.904924	.6290024	3.757745
#1	4.765792	.0670322	.0003967	-.003793	.0042881	6.437548	.4301035
#2	4.818198	.0657710	.0004359	-.003599	.0049968	6.505115	.4515854
#3	4.805516	.0649128	.0006035	-.001423	.0045035	6.510917	.4633255

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3429-02 Acquired: 10/24/2024 21:41:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.443282	.0056356	.1086969
Stddev	.083132	.0006841	.0008753
%RSD	3.402454	12.13817	.8052341
#1	2.361820	.0049486	.1092121
#2	2.440038	.0056416	.1091923
#3	2.527988	.0063167	.1076863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2803.130	64966.82	14040.51	2179.902	4298.608
Stddev	92.720	450.61	84.70	21.211	137.957
%RSD	3.307717	.6936008	.6032566	.9730151	3.209350
#1	2897.682	65487.13	14017.68	2204.199	4439.447
#2	2799.351	64708.86	13969.56	2165.081	4292.654
#3	2712.358	64704.47	14134.28	2170.427	4163.725

Sample Name: P3429-03 Acquired: 10/24/2024 21:45:33 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0085580	-.006660	.0027568	-.013014	-.000651	.1886497	.5366224
Stddev	.0014804	.000332	.0003820	.001927	.001338	.0034399	.0042865
%RSD	17.29821	4.987776	13.85647	14.80650	205.5027	1.823447	.7987980
#1	.0094702	-.006288	.0029058	-.010923	-.001379	.1865259	.5411664
#2	.0068499	-.006927	.0023227	-.014718	-.001468	.1926185	.5360499
#3	.0093538	-.006765	.0030418	-.013400	.000893	.1868046	.5326509

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000359	.0012837	65.64185	.0047593	.0039398	.0020348	45.37122
Stddev	.000057	.0001381	.51341	.0000346	.0000598	.0009265	.14184
%RSD	16.00505	10.75732	.7821357	.7268249	1.516932	45.53065	.3126315
#1	-.000306	.0011464	66.22988	.0047765	.0039932	.0010035	45.52589
#2	-.000350	.0012821	65.41303	.0047820	.0039510	.0023044	45.24721
#3	-.000420	.0014226	65.28263	.0047195	.0038753	.0027967	45.34056

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.46067	20.81288	.0083094	.0017845	290.9343	.0142873	.1031562
Stddev	.12268	.18172	.0003151	.0001364	3.1899	.0011339	.0007034
%RSD	.8483983	.8731359	3.792092	7.642871	1.096449	7.936446	.6818698
#1	14.59956	21.00804	.0080319	.0017557	291.9398	.0142000	.1025702
#2	14.41539	20.78209	.0082443	.0016647	293.5004	.0131995	.1029623
#3	14.36706	20.64852	.0086519	.0019329	287.3628	.0154623	.1039362

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.15034	.1936144	-.000542	-.000204	.0028816	8.418188	.3311139
Stddev	.03853	.0011135	.000285	.000435	.0001835	.026357	.0028746
%RSD	.3171374	.5750910	52.59497	212.9934	6.368270	.3130934	.8681651
#1	12.17145	.1948511	-.000498	-.000641	.0026775	8.437699	.3316821
#2	12.10586	.1933008	-.000281	-.000201	.0030330	8.388204	.3279976
#3	12.17371	.1926914	-.000846	.000229	.0029342	8.428659	.3336619

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3429-03 Acquired: 10/24/2024 21:45:33 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.445846	.0163087	.4952908
Stddev	.010068	.0010364	.0040739
%RSD	.6963335	6.354709	.8225263
#1	1.434625	.0152765	.4998135
#2	1.448821	.0173492	.4941499
#3	1.454091	.0163004	.4919089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2518.574	55809.55	13683.03	1840.213	3742.811
Stddev	22.510	190.98	57.38	11.498	34.413
%RSD	.8937637	.3421920	.4193395	.6248113	.9194479
#1	2539.889	55985.20	13619.53	1850.797	3772.130
#2	2520.801	55837.19	13698.41	1841.861	3751.381
#3	2495.034	55606.26	13731.16	1827.980	3704.923

Sample Name: P3451-01 Acquired: 10/24/2024 21:49:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0019582	-.003680	.0056874	.0008457	-.000526	.1527252	.0838690
Stddev	.0014207	.000485	.0000452	.0010317	.001057	.0045570	.0006015
%RSD	72.55176	13.18118	.7945734	122.0037	200.8460	2.983796	.7172381
#1	.0027666	-.003299	.0056493	.0020353	-.000251	.1568784	.0845012
#2	.0003178	-.004226	.0056756	.0003058	.000366	.1478505	.0838021
#3	.0027901	-.003514	.0057373	.0001958	-.001693	.1534467	.0833037

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001259	.0001255	25.07927	.0043511	.0007639	.0048020	4.933786
Stddev	.0000042	.0000204	.21700	.0000680	.0001376	.0000348	.045434
%RSD	3.315595	16.25441	.8652723	1.563783	18.01425	.7252879	.9208712
#1	.0001298	.0001265	25.31189	.0043284	.0006806	.0047658	4.985986
#2	.0001265	.0001046	25.04362	.0042972	.0006884	.0048049	4.903147
#3	.0001215	.0001454	24.88230	.0044275	.0009227	.0048353	4.912226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5857045	3.858430	.0033864	.0008074	79.78295	-.000232	.0222524
Stddev	.0052165	.046399	.0001188	.0003002	.49383	.001560	.0000509
%RSD	.8906379	1.202535	3.506822	37.18734	.6189617	672.8528	.2288956
#1	.5911372	3.889598	.0035235	.0009758	80.34642	-.000865	.0223017
#2	.5852413	3.880585	.0033201	.0004607	79.57692	.001545	.0221999
#3	.5807351	3.805106	.0033156	.0009856	79.42549	-.001376	.0222554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.508482	.0899990	.0005403	-.003462	.0017873	2.817620	.0924858
Stddev	.034456	.0006284	.0002430	.000656	.0002529	.016692	.0009551
%RSD	.7642431	.6982719	44.98057	18.94793	14.14784	.5924235	1.032690
#1	4.547516	.0906402	.0007017	-.004154	.0015529	2.835924	.0932125
#2	4.482297	.0899727	.0006584	-.003381	.0017536	2.803237	.0914040
#3	4.495632	.0893842	.0002608	-.002850	.0020552	2.813700	.0928409

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3451-01 Acquired: 10/24/2024 21:49:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.624904	.0083651	.1799078
Stddev	.058868	.0006903	.0011376
%RSD	1.272845	8.251571	.6323420
#1	4.610253	.0091458	.1810054
#2	4.574745	.0078358	.1799841
#3	4.689714	.0081137	.1787340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2652.886	59263.06	14049.14	1932.384	4147.780
Stddev	19.003	280.73	54.04	13.702	34.307
%RSD	.7163047	.4736990	.3846608	.7090697	.8271101
#1	2659.485	58971.14	13990.32	1916.680	4159.324
#2	2667.709	59531.07	14060.53	1941.906	4174.825
#3	2631.463	59286.98	14096.59	1938.565	4109.190

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3457-01 Acquired: 10/24/2024 21:54:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0005891	-.005617	.0011759	-.002080	.0000524	.0779458	.3416425
Stddev	.0002742	.001063	.0009083	.001079	.0005873	.0028357	.0007654
%RSD	46.54982	18.92256	77.24786	51.86490	1120.408	3.638054	.2240290
#1	.0002750	-.004598	.0001396	-.000835	.0000399	.0796371	.3412508
#2	.0007116	-.006719	.0015535	-.002684	.0006458	.0746720	.3411522
#3	.0007807	-.005533	.0018345	-.002721	-.000529	.0795282	.3425244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000073	.0003310	61.26024	.0018905	.0047058	.0002417	7.519093
Stddev	.0000190	.0000629	.18819	.0003730	.0001677	.0002041	.046153
%RSD	259.3775	19.01044	.3071904	19.73143	3.563410	84.44617	.6138141
#1	-.000008	.0003985	61.39860	.0022792	.0045251	.0004769	7.487664
#2	.000029	.0002740	61.04595	.0015354	.0047359	.0001361	7.497535
#3	.000002	.0003205	61.33617	.0018568	.0048564	.0001120	7.572081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.371722	15.44292	.0027853	.0007924	298.2385	-.001020	.0167484
Stddev	.009158	.04252	.0002650	.0001268	1.9452	.001518	.0002002
%RSD	.2716044	.2753521	9.513296	16.00744	.6522270	148.8387	1.195034
#1	3.373259	15.44875	.0030814	.0008772	298.8945	-.000450	.0166161
#2	3.361893	15.39778	.0027040	.0006466	296.0502	-.002740	.0169787
#3	3.380014	15.48223	.0025705	.0008534	299.7709	.000131	.0166505

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.10812	.1479075	.0000921	-.004455	.0002615	4.882878	.0767895
Stddev	.05690	.0009617	.0002358	.000205	.0004044	.025012	.0018018
%RSD	.5629078	.6502034	256.1343	4.608923	154.6433	.5122343	2.346430
#1	10.08658	.1485183	-.000151	-.004647	.0002683	4.886955	.0788520
#2	10.06514	.1467989	.000108	-.004239	-.000146	4.856078	.0755212
#3	10.17265	.1484052	.000320	-.004480	.000662	4.905601	.0759954

Sample Name: P3457-01 Acquired: 10/24/2024 21:54:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.218745	.0152173	.4477206
Stddev	.013188	.0001662	.0007628
%RSD	1.082073	1.091912	.1703805
#1	1.208297	.0154008	.4470632
#2	1.214375	.0151738	.4475415
#3	1.233563	.0150771	.4485570

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2538.953	55562.24	13674.11	1841.744	3765.832
Stddev	19.265	218.54	1.70	12.150	26.707
%RSD	.7587853	.3933181	.0124319	.6597249	.7091892
#1	2557.022	55627.54	13673.10	1840.325	3790.014
#2	2541.155	55740.68	13673.16	1854.542	3770.314
#3	2518.681	55318.50	13676.07	1830.366	3737.168

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3457-02 Acquired: 10/24/2024 21:58:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0013252	-.003557	.0006241	-.002381	-.000445	.0214848	.3239637
Stddev	.0029735	.001066	.0009414	.000446	.000403	.0058224	.0009914
%RSD	224.3906	29.96221	150.8361	18.72402	90.67384	27.10035	.3060342
#1	.0024595	-.004670	.0015424	-.001961	.000010	.0197845	.3245067
#2	.0035646	-.003453	-.000339	-.002332	-.000757	.0167017	.3245651
#3	-.002049	-.002546	.000669	-.002849	-.000587	.0279681	.3228194

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000167	.0002314	59.24236	.0026873	.0042821	.0002248	8.959123
Stddev	.0000255	.0000781	.19617	.0002955	.0000999	.0002555	.490122
%RSD	152.2051	33.72865	.3311279	10.99446	2.331982	113.6272	5.470651
#1	.0000418	.0002385	59.44468	.0027893	.0043974	.0004704	8.689175
#2	.0000176	.0003057	59.22943	.0023543	.0042267	.0002436	8.663324
#3	-.000009	.0001501	59.05298	.0029182	.0042222	-.000040	9.524871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.875287	14.98956	.0030334	.0011603	290.0109	-.001643	.0104145
Stddev	.012628	.10657	.0001753	.0000523	17.9914	.000978	.0006860
%RSD	.4392015	.7109408	5.780160	4.503256	6.203712	59.50680	6.586617
#1	2.886273	15.05301	.0031787	.0011013	280.1039	-.001442	.0101726
#2	2.878097	15.04916	.0030828	.0011788	279.1505	-.002706	.0098823
#3	2.861490	14.86653	.0028386	.0012007	310.7783	-.000781	.0111886

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.728712	.1466197	-.000002	-.004367	-.000228	4.698297	.0854668
Stddev	.607341	.0022735	.000253	.000835	.000324	.279667	.0015358
%RSD	6.242772	1.550627	16117.61	19.11333	142.4450	5.952518	1.796912
#1	9.364482	.1459717	.000038	-.003404	-.000470	4.543263	.0872225
#2	9.391822	.1447406	.000230	-.004820	-.000355	4.530485	.0848052
#3	10.42983	.1491469	-.000273	-.004877	.000141	5.021145	.0843726

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3457-02 Acquired: 10/24/2024 21:58:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.379781	.0146707	.4310305
Stddev	.006903	.0020744	.0007656
%RSD	.5002878	14.13941	.1776190
#1	1.372565	.0128233	.4313010
#2	1.386321	.0142740	.4316240
#3	1.380459	.0169147	.4301663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2594.371	56684.03	14222.63	1898.406	3833.182
Stddev	2.353	3290.75	25.16	108.497	4.835
%RSD	.0907055	5.805429	.1768778	5.715148	.1261344
#1	2596.764	58535.00	14193.78	1956.976	3836.039
#2	2592.060	58632.48	14234.12	1965.031	3827.599
#3	2594.288	52884.62	14239.98	1773.211	3835.907

Sample Name: P3467-01 Acquired: 10/24/2024 22:03:01 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0083220	-.000276	.0344830	-.005388	-.000387	3.300107	.1384400
Stddev	.0002080	.000402	.0003708	.001677	.000607	.027309	.0011005
%RSD	2.499912	145.5318	1.075355	31.13200	157.0179	.8275146	.7949408
#1	.0080997	.000043	.0347343	-.004904	-.000438	3.318521	.1394283
#2	.0083542	-.000144	.0346576	-.007254	-.000966	3.313069	.1386377
#3	.0085121	-.000728	.0340571	-.004006	.000245	3.268731	.1372540

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004955	.0009891	27.14638	.0126041	.0050991	.0470822	20.65422
Stddev	.0000443	.0000129	.22438	.0002120	.0001235	.0004452	.07192
%RSD	8.937867	1.300739	.8265737	1.681660	2.421590	.9455816	.3482286
#1	.0004794	.0009757	27.33012	.0124628	.0051062	.0474852	20.59893
#2	.0005456	.0010014	27.21271	.0125016	.0049722	.0466043	20.62821
#3	.0004615	.0009902	26.89631	.0128478	.0052188	.0471571	20.73553

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9021715	4.637339	.0104643	.0014313	78.65210	.0092948	.3070275
Stddev	.0074698	.050484	.0001366	.0000784	.63096	.0008695	.0010955
%RSD	.8279802	1.088641	1.305763	5.480584	.8022192	9.354548	.3567988
#1	.9078301	4.674420	.0103197	.0013619	77.97232	.0090124	.3060249
#2	.9049799	4.657752	.0105913	.0015164	78.76496	.0086016	.3068610
#3	.8937046	4.579845	.0104819	.0014157	79.21901	.0102704	.3081967

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.831245	.0981450	.0006732	-.003078	.0672651	6.377181	.6964707
Stddev	.042943	.0005525	.0003294	.000449	.0005051	.022116	.0067437
%RSD	.8888504	.5628871	48.93071	14.58202	.7509052	.3468061	.9682669
#1	4.808646	.0987173	.0009116	-.002769	.0678447	6.368979	.7040577
#2	4.804321	.0981030	.0008107	-.002873	.0670316	6.360337	.6941955
#3	4.880768	.0976148	.0002973	-.003593	.0669191	6.402226	.6911589

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3467-01 Acquired: 10/24/2024 22:03:01 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.236352	.0108149	.1797571
Stddev	.033043	.0002432	.0011842
%RSD	.6310229	2.248323	.6587740
#1	5.273537	.0109672	.1806682
#2	5.225159	.0109429	.1801847
#3	5.210360	.0105344	.1784186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2730.746	59573.75	14275.59	1971.201	4220.559
Stddev	5.066	276.42	93.59	8.466	3.187
%RSD	.1855190	.4640045	.6555905	.4294944	.0755076
#1	2733.890	59796.99	14198.93	1978.259	4220.778
#2	2733.446	59659.70	14247.96	1973.531	4223.631
#3	2724.902	59264.56	14379.88	1961.814	4217.268

Sample Name: P3596-01 Acquired: 10/24/2024 22:07:13 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0039838	-.002506	.0032555	-.001141	-.000665	.3095326	.1015713
Stddev	.0024808	.000586	.0004009	.001770	.001239	.0017260	.0010746
%RSD	62.27331	23.37965	12.31392	155.1266	186.4350	.5576193	1.057994
#1	.0034672	-.001830	.0034649	.000801	-.001711	.3114865	.1024803
#2	.0018019	-.002823	.0035083	-.002665	-.000988	.3082152	.1018483
#3	.0066822	-.002865	.0027933	-.001560	.000704	.3088962	.1003853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001514	.0001999	33.61203	.0023392	.0012893	.0064992	6.130102
Stddev	.0000187	.0000478	.32943	.0001682	.0000873	.0001595	.042884
%RSD	12.36571	23.91002	.9800932	7.190342	6.773997	2.454656	.6995709
#1	.0001612	.0002010	33.92253	.0021453	.0013681	.0064329	6.178307
#2	.0001298	.0001515	33.64708	.0024458	.0011954	.0063834	6.115810
#3	.0001632	.0002471	33.26647	.0024266	.0013043	.0066812	6.096189

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8112142	5.154503	.0028263	.0010038	107.4061	-.000261	.0589458
Stddev	.0096653	.073719	.0001086	.0000908	.2472	.000880	.0006544
%RSD	1.191462	1.430191	3.843809	9.047993	.2301957	337.6623	1.110124
#1	.8210810	5.221432	.0029303	.0011050	107.3209	-.000690	.0596682
#2	.8107979	5.166589	.0028351	.0009293	107.6847	-.000844	.0583926
#3	.8017638	5.075487	.0027135	.0009770	107.2127	.000752	.0587766

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.057411	.1229542	.0009651	-.003529	.0067233	4.701734	.1975028
Stddev	.020470	.0015618	.0005252	.000219	.0010010	.011116	.0025281
%RSD	.4047522	1.270236	54.42062	6.196064	14.88879	.2364227	1.280056
#1	5.038051	.1244271	.0013147	-.003779	.0061576	4.712186	.2002695
#2	5.078834	.1231190	.0003611	-.003438	.0061332	4.702960	.1969260
#3	5.055347	.1213165	.0012195	-.003371	.0078791	4.690056	.1953128

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3596-01 Acquired: 10/24/2024 22:07:13 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.919302	.0096406	.2267719
Stddev	.026765	.0007915	.0023936
%RSD	.4521684	8.210147	1.055518
#1	5.950192	.0096241	.2285297
#2	5.904707	.0088574	.2277402
#3	5.903007	.0104402	.2240458

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2743.608	59386.10	14293.44	1941.383	4248.983
Stddev	17.760	155.14	96.05	12.489	26.069
%RSD	.6473184	.2612316	.6720199	.6433252	.6135274
#1	2723.743	59212.10	14208.02	1935.323	4219.363
#2	2757.953	59436.24	14274.89	1933.080	4268.438
#3	2749.127	59509.97	14397.42	1955.747	4259.148

Sample Name: P3596-02 Acquired: 10/24/2024 22:11:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0045609	-.003099	.0036044	-.001933	-.000612	.3999722	.1017661
Stddev	.0016929	.000840	.0002361	.002692	.001850	.0062549	.0001472
%RSD	37.11700	27.09700	6.550605	139.2545	302.3433	1.563823	.1446498
#1	.0038081	-.002209	.0034631	-.004417	-.002435	.3933643	.1016153
#2	.0033749	-.003211	.0038770	-.002311	-.000666	.4058009	.1019094
#3	.0064995	-.003877	.0034731	.000928	.001265	.4007515	.1017737

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001573	.0001475	33.55270	.0024736	.0015721	.0071508	6.809055
Stddev	.0000516	.0000799	.11564	.0003047	.0000375	.0002650	.033016
%RSD	32.81811	54.16392	.3446500	12.31806	2.382346	3.706322	.4848767
#1	.0001491	.0002231	33.47541	.0021927	.0015998	.0069597	6.786746
#2	.0001103	.0000640	33.68564	.0027975	.0015870	.0074534	6.793439
#3	.0002126	.0001553	33.49705	.0024305	.0015295	.0070394	6.846982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8160388	5.176081	.0030056	.0010056	109.4289	-.000230	.0796286
Stddev	.0025635	.014235	.0004135	.0002586	.7130	.000534	.0007956
%RSD	.3141347	.2750106	13.75814	25.71660	.6515476	232.7168	.9991532
#1	.8131298	5.171102	.0030530	.0012943	109.5582	-.000846	.0791643
#2	.8170192	5.165004	.0025704	.0007951	108.6602	.000071	.0791743
#3	.8179674	5.192136	.0033933	.0009275	110.0685	.000087	.0805473

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.103417	.1248839	.0006542	-.003990	.0079808	4.898881	.2283104
Stddev	.013151	.0006461	.0000787	.000652	.0004251	.018241	.0046342
%RSD	.2576866	.5173699	12.03189	16.33223	5.326069	.3723441	2.029757
#1	5.088739	.1248384	.0007196	-.004701	.0082678	4.877914	.2326265
#2	5.107387	.1242617	.0006763	-.003422	.0074925	4.911098	.2288918
#3	5.114126	.1255515	.0005668	-.003847	.0081822	4.907632	.2234130

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3596-02 Acquired: 10/24/2024 22:11:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.043900	.0087992	.2246677
Stddev	.024987	.0005091	.0011023
%RSD	.4134233	5.785580	.4906170
#1	6.057115	.0083706	.2233951
#2	6.015080	.0093619	.2252833
#3	6.059503	.0086651	.2253246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2620.090	55665.52	13706.14	1858.213	4040.067
Stddev	11.271	256.30	86.19	18.630	16.911
%RSD	.4301907	.4604257	.6288211	1.002554	.4185775
#1	2607.230	55895.36	13798.97	1875.914	4022.226
#2	2624.787	55712.05	13628.66	1859.949	4055.861
#3	2628.254	55389.14	13690.80	1838.777	4042.113

Sample Name: CCV11 Acquired: 10/24/2024 22:15:59 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.321199	5.034998	5.169610	5.443143	5.357830	10.29243	10.11195
Stddev	.008226	.034788	.004090	.013354	.017116	.00894	.12333
%RSD	.1545940	.6909263	.0791198	.2453399	.3194661	.0868245	1.219604
#1	5.330127	5.015338	5.170304	5.452205	5.377550	10.29863	10.19044
#2	5.319542	5.075165	5.173309	5.449416	5.349104	10.29647	9.96980
#3	5.313927	5.014492	5.165217	5.427807	5.346835	10.28218	10.17559

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2555755	2.569988	24.97101	.9954895	2.585312	1.325124	4.893659
Stddev	.0002806	.000963	.01418	.0034802	.000625	.003088	.016047
%RSD	.1097940	.0374615	.0567860	.3495998	.0241941	.2330314	.3279172
#1	.2558900	2.570987	24.97557	.9989466	2.585275	1.328593	4.875829
#2	.2553508	2.569910	24.95511	.9955352	2.585955	1.322676	4.898206
#3	.2554858	2.569066	24.98235	.9919866	2.584705	1.324103	4.906942

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.406602	23.47417	2.608258	1.299346	23.14911	2.400361	2.637514
Stddev	.006778	.14832	.003861	.001300	.27604	.005658	.009525
%RSD	.2816224	.6318440	.1480486	.1000462	1.192432	.2357267	.3611485
#1	2.401570	23.37336	2.612399	1.300375	23.44280	2.394006	2.646448
#2	2.403929	23.40466	2.607619	1.297885	23.10954	2.404853	2.638604
#3	2.414309	23.64448	2.604756	1.299779	22.89500	2.402225	2.627491

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.07344	5.087919	5.343348	5.138350	4.954354	5.414117	5.278937
Stddev	.05169	.010559	.010012	.003616	.004343	.038747	.004825
%RSD	.2061371	.2075330	.1873790	.0703761	.0876529	.7156587	.0913954
#1	25.13272	5.099280	5.354865	5.138059	4.957192	5.370852	5.280721
#2	25.03777	5.078406	5.338460	5.142104	4.949355	5.425881	5.282615
#3	25.04984	5.086072	5.336718	5.134889	4.956515	5.445619	5.273474

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV11 Acquired: 10/24/2024 22:15:59 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.094229	5.178797	5.170294
Stddev	.002553	.012360	.019504
%RSD	.0501252	.2386585	.3772334
#1	5.094008	5.192297	5.171516
#2	5.096886	5.168037	5.150208
#3	5.091794	5.176059	5.189159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.159	56080.40	12053.66	1845.992	3889.388
Stddev	12.379	112.01	27.10	3.950	15.019
%RSD	.4792169	.1997307	.2248566	.2139948	.3861471
#1	2568.968	55953.90	12024.12	1842.940	3872.480
#2	2588.769	56120.30	12059.49	1844.582	3894.502
#3	2591.739	56166.99	12077.38	1850.454	3901.182

Sample Name: CCB11 Acquired: 10/24/2024 22:20:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000480	-.001823	-.000326	.0004357	.0005355	-.000667	-.002950
Stddev	.001254	.000913	.000857	.0016069	.0001795	.003254	.000236
%RSD	261.4186	50.05325	262.9005	368.7937	33.51900	487.7534	7.996481
#1	-.001563	-.002679	-.000980	.0012906	.0003498	.003054	-.003067
#2	.000894	-.001927	-.000643	.0014344	.0005488	-.002080	-.003104
#3	-.000771	-.000863	.000644	-.001418	.0007080	-.002975	-.002678

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000338	.0001189	.0027307	.0000036	.0001831	-.000115	-.001147
Stddev	.0000353	.0000528	.0028156	.0002398	.0001219	.000253	.001802
%RSD	104.6107	44.42326	103.1081	6611.797	66.58217	220.5375	157.0567
#1	.0000428	.0001182	-.000418	.0000015	.0003184	-.000385	-.002887
#2	.0000637	.0000664	.005006	-.000235	.0000815	-.000076	.000711
#3	-.000005	.0001720	.003604	.000245	.0001495	.000117	-.001267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001557	.0105164	-.000351	.0005217	.2302295	-.001731	.0004038
Stddev	.0001559	.0074328	.000105	.0001216	.0134177	.001085	.0000775
%RSD	100.1062	70.67758	30.04061	23.31238	5.827971	62.69018	19.19285
#1	.0003197	.0063774	-.000242	.0005904	.2204190	-.001582	.0004164
#2	.0000095	.0060747	-.000453	.0005935	.2247497	-.000728	.0003208
#3	.0001379	.0190973	-.000358	.0003813	.2455199	-.002883	.0004743

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001040	.0037072	.0003979	.0052197	.0002914	.0046652	.0004537
Stddev	.009737	.0001144	.0002610	.0005518	.0003122	.0042662	.0012874
%RSD	936.1252	3.085139	65.58861	10.57220	107.1376	91.44803	283.7348
#1	-.007657	.0037524	.0004164	.0045886	.0002203	.0092826	.0000750
#2	-.005604	.0037920	.0001282	.0054591	.0006330	.0008697	.0018880
#3	.010141	.0035771	.0006492	.0056114	.0000209	.0038434	-.000602

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB11 Acquired: 10/24/2024 22:20:10 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003524	.0024384	.0000390
Stddev	.002599	.0014820	.0000157
%RSD	73.75710	60.78042	40.31429
#1	-.000976	.0033394	.0000305
#2	-.006171	.0007279	.0000294
#3	-.003425	.0032478	.0000572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2755.109	59197.95	13124.49	1989.573	4487.091
Stddev	4.192	29.95	36.07	4.814	4.576
%RSD	.1521701	.0505917	.2748545	.2419595	.1019723
#1	2758.425	59203.25	13161.21	1985.139	4482.905
#2	2750.396	59165.70	13089.10	1994.693	4486.391
#3	2756.505	59224.89	13123.16	1988.887	4491.976

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3609-01 Acquired: 10/24/2024 22:26:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0048114	-.000051	.0078541	-.002004	-.000243	1.076225	.0805471
Stddev	.0014117	.001084	.0011256	.000916	.001098	.012410	.0008344
%RSD	29.34051	2141.987	14.33163	45.70929	452.3738	1.153104	1.035887
#1	.0044844	.000743	.0073793	-.001327	.000886	1.078504	.0800385
#2	.0035920	-.001285	.0070436	-.001638	-.000308	1.062834	.0800927
#3	.0063580	.000391	.0091393	-.003046	-.001307	1.087338	.0815100

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001927	.0002441	25.06317	.0038369	.0019194	.0134932	7.914252
Stddev	.0000399	.0000837	.31043	.0000613	.0000984	.0002730	.023163
%RSD	20.68552	34.28014	1.238601	1.596987	5.125396	2.023447	.2926707
#1	.0002271	.0001826	24.92400	.0038087	.0018567	.0136450	7.889497
#2	.0002019	.0003394	24.84667	.0037948	.0020327	.0131780	7.917861
#3	.0001490	.0002104	25.41883	.0039072	.0018686	.0136565	7.935399

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6383066	4.675990	.0042235	.0011777	99.90484	.0014060	.0857929
Stddev	.0074989	.047232	.0001921	.0001563	.35184	.0008384	.0005729
%RSD	1.174807	1.010095	4.548712	13.27019	.3521775	59.63072	.6677796
#1	.6333376	4.658977	.0044396	.0013580	99.49983	.0008894	.0851821
#2	.6346498	4.639622	.0041589	.0010955	100.0796	.0009552	.0858782
#3	.6469323	4.729372	.0040721	.0010797	100.1351	.0023734	.0863184

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.219957	.0944799	.0009678	-.002998	.0265632	4.699522	.2852152
Stddev	.039111	.0012111	.0000678	.000644	.0010848	.023811	.0026305
%RSD	.9268184	1.281879	7.006544	21.49347	4.083781	.5066707	.9222902
#1	4.179688	.0937888	.0009069	-.002919	.0278068	4.709259	.2824118
#2	4.222384	.0937726	.0010409	-.002397	.0260716	4.672385	.2876294
#3	4.257798	.0958784	.0009557	-.003679	.0258113	4.716921	.2856047

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3609-01 Acquired: 10/24/2024 22:26:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.717126	.0089379	.1631485
Stddev	.043733	.0009731	.0018462
%RSD	.9271193	10.88765	1.131591
#1	4.682982	.0079128	.1616333
#2	4.766420	.0098490	.1626074
#3	4.701976	.0090520	.1652047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2735.089	59366.40	14674.55	1968.297	4255.467
Stddev	30.117	405.36	189.17	18.603	40.890
%RSD	1.101125	.6828022	1.289069	.9451116	.9608761
#1	2769.183	59763.14	14808.96	1986.789	4298.688
#2	2712.106	59383.10	14756.46	1968.517	4217.396
#3	2723.979	58952.95	14458.23	1949.586	4250.318

Sample Name: P3609-02 Acquired: 10/24/2024 22:30:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0044130	-.001481	.0020511	-.001824	.0003417	.2476577	.1035958
Stddev	.0012664	.001302	.0009573	.002161	.0011446	.0097515	.0010769
%RSD	28.69683	87.90373	46.67266	118.4949	334.9566	3.937472	1.039493
#1	.0040948	-.000975	.0018677	-.003490	.0012514	.2437877	.1030570
#2	.0033361	-.002960	.0011988	-.002598	.0007172	.2587501	.1048357
#3	.0058082	-.000508	.0030869	.000618	-.000943	.2404353	.1028947

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001045	.0001664	34.87335	.0014744	.0013345	.0056010	5.801029
Stddev	.0000302	.0000652	.22016	.0002513	.0000610	.0002503	.058233
%RSD	28.89855	39.16276	.6313019	17.04366	4.571424	4.468118	1.003843
#1	.0001171	.0001453	34.91014	.0016849	.0012907	.0053184	5.841534
#2	.0001264	.0001145	35.07279	.0015420	.0013085	.0056900	5.827259
#3	.0000701	.0002396	34.63712	.0011962	.0014042	.0057946	5.734294

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8688511	6.410421	.0026072	.0007385	134.9253	.0012664	.0330252
Stddev	.0054856	.042479	.0001054	.0001647	.9074	.0005998	.0004219
%RSD	.6313674	.6626581	4.044200	22.30727	.6725325	47.35949	1.277409
#1	.8671636	6.434566	.0024866	.0006511	135.6120	.0010441	.0334206
#2	.8749823	6.435324	.0026818	.0006359	135.2673	.0008095	.0330738
#3	.8644075	6.361372	.0026533	.0009285	133.8966	.0019455	.0325811

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.631586	.1299107	.0009118	-.004437	.0058530	4.594372	.2079106
Stddev	.073272	.0010074	.0000877	.000321	.0003057	.055413	.0025022
%RSD	1.301084	.7754813	9.621641	7.228978	5.223139	1.206100	1.203504
#1	5.667365	.1304133	.0010107	-.004751	.0058315	4.642706	.2105886
#2	5.680094	.1305678	.0008436	-.004450	.0061689	4.606516	.2075108
#3	5.547299	.1287508	.0008810	-.004110	.0055586	4.533895	.2056323

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3609-02 Acquired: 10/24/2024 22:30:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.220216	.0102750	.2349871
Stddev	.020773	.0006986	.0019037
%RSD	.3339600	6.799431	.8101303
#1	6.244039	.0095247	.2340397
#2	6.210724	.0109068	.2371786
#3	6.205885	.0103935	.2337430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.931	58739.28	13944.11	1928.289	4183.402
Stddev	5.989	559.19	65.05	22.821	15.173
%RSD	.2201268	.9519808	.4665397	1.183468	.3626932
#1	2714.559	58285.51	13947.88	1909.510	4166.197
#2	2721.786	58568.35	13877.25	1921.669	4189.141
#3	2726.446	59363.98	14007.19	1953.688	4194.868

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01 Acquired: 10/24/2024 22:34:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0113501	-.000455	.0027011	-.003160	-.000722	.2203961
Stddev	.0003013	.000479	.0003284	.001317	.000396	.0012216
%RSD	2.654618	105.2705	12.15687	41.68000	54.81388	.5542934
#1	.0111708	-.000961	.0025974	-.002695	-.001107	.2214312
#2	.0116979	-.000010	.0030688	-.004646	-.000743	.2190486
#3	.0111815	-.000393	.0024371	-.002138	-.000316	.2207085

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1712544	.0001361	.0003373	60.48410	.0037558	.0092001
Stddev	.0007212	.0000390	.0000542	.03441	.0000657	.0001332
%RSD	.4211374	28.69685	16.05546	.0568946	1.748584	1.447210
#1	.1704814	.0001295	.0003874	60.44436	.0037433	.0091128
#2	.1713725	.0001779	.0003448	60.50374	.0036973	.0091342
#3	.1719093	.0001007	.0002798	60.50419	.0038268	.0093534

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016207	12.93166	3.034545	12.73943	.0038546	.0008160
Stddev	.0002911	.04837	.003251	.03894	.0002173	.0002659
%RSD	17.96115	.3740653	.1071442	.3056565	5.636072	32.58950
#1	.0019430	12.96687	3.031924	12.78392	.0037853	.0005631
#2	.0015424	12.95161	3.033528	12.72281	.0040981	.0007917
#3	.0013768	12.87651	3.038184	12.71156	.0036805	.0010933

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	336.9649	.0017023	.1287534	10.72331	.2750918	.0010656
Stddev	2.2732	.0012713	.0008550	.03101	.0009167	.0003415
%RSD	.6746142	74.68188	.6640261	.2892204	.3332315	32.04881
#1	337.1954	.0008455	.1282961	10.69067	.2743111	.0007805
#2	339.1141	.0031629	.1297398	10.72688	.2748630	.0009721
#3	334.5852	.0010984	.1282244	10.75240	.2761012	.0014441

Sample Name: P3645-01 Acquired: 10/24/2024 22:34:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004312	.0048550	9.157607	.4977508	F 11.96814	.0158047
Stddev	.000775	.0001809	.010139	.0029128	.07201	.0004705
%RSD	17.96654	3.725550	.1107126	.5852017	.6016796	2.976984
#1	-.003466	.0049911	9.169017	.5011051	12.05092	.0154773
#2	-.004483	.0046498	9.149633	.4962881	11.91991	.0163438
#3	-.004986	.0049242	9.154171	.4958590	11.93361	.0155928

Elem	Sr4077
Units	ppm
Avg	.4271924
Stddev	.0023376
%RSD	.5471905
#1	.4246220
#2	.4277639
#3	.4291911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2625.084	56114.42	13705.91	1880.445	3890.952
Stddev	10.136	36.49	27.49	3.933	14.107
%RSD	.3861203	.0650365	.2005683	.2091433	.3625523
#1	2613.516	56109.61	13730.04	1879.032	3874.724
#2	2632.411	56080.57	13711.70	1877.414	3897.846
#3	2629.324	56153.08	13675.99	1884.889	3900.286

Sample Name: P3645-02 Acquired: 10/24/2024 22:39:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0064356	-.000312	.0013667	-.001575	.0000535	.1128507	.1229335
Stddev	.0008344	.000383	.0011511	.001357	.0003478	.0039520	.0005736
%RSD	12.96500	122.9182	84.21946	86.16811	650.2179	3.501988	.4666194
#1	.0054761	-.000157	.0023268	-.000684	.0000022	.1109441	.1222754
#2	.0068398	-.000749	.0016827	-.003137	-.000266	.1173946	.1231973
#3	.0069909	-.000030	.0000907	-.000905	.000424	.1102135	.1233278

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001061	.0002582	44.05809	.0021015	.0048136	.0032882	7.687895
Stddev	.0000221	.0000297	.13275	.0000801	.0001634	.0000821	.042384
%RSD	20.81935	11.51826	.3013157	3.814034	3.394491	2.495253	.5513082
#1	.0000870	.0002661	43.92193	.0020697	.0046778	.0032695	7.641741
#2	.0001302	.0002253	44.18715	.0021927	.0049949	.0032171	7.696875
#3	.0001010	.0002832	44.06520	.0020422	.0047681	.0033779	7.725070

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.495018	8.954102	.0047825	.0009685	217.7220	.0010444	.1476039
Stddev	.006920	.090367	.0002457	.0003233	1.9162	.0017094	.0016768
%RSD	.4628631	1.009229	5.137373	33.37888	.8800919	163.6801	1.136028
#1	1.489055	8.879816	.0047143	.0012039	217.2668	-.000062	.1457858
#2	1.502606	9.054707	.0045780	.0005999	219.8248	.000182	.1479362
#3	1.493392	8.927781	.0050550	.0011017	216.0745	.003013	.1490897

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.395970	.1841586	.0006093	-.004890	.0012165	6.022748	.2323882
Stddev	.053921	.0008524	.0002113	.000734	.0000780	.042943	.0010318
%RSD	.7290530	.4628447	34.68164	15.01341	6.410333	.7130214	.4440105
#1	7.343230	.1831760	.0005393	-.005692	.0013021	5.976840	.2311977
#2	7.393682	.1846018	.0008467	-.004725	.0011495	6.029470	.2330252
#3	7.450999	.1846981	.0004418	-.004252	.0011979	6.061934	.2329417

Sample Name: P3645-02 Acquired: 10/24/2024 22:39:08 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.207467	.0127782	.3029458
Stddev	.037854	.0004855	.0011432
%RSD	.4111225	3.799229	.3773514
#1	9.165900	.0125838	.3016262
#2	9.239958	.0124201	.3035761
#3	9.216542	.0133308	.3036351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2625.464	57368.09	13950.57	1901.790	3975.906
Stddev	14.367	379.88	48.67	18.083	19.028
%RSD	.5472150	.6621836	.3488519	.9508424	.4785949
#1	2641.481	57794.38	14002.39	1921.019	3997.570
#2	2621.195	57244.50	13905.84	1899.225	3961.899
#3	2613.715	57065.40	13943.49	1885.127	3968.249

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3657-01 Acquired: 10/24/2024 22:43:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0048769	-.000350	.0042081	-.002843	-.000037	.3340949	.0958332
Stddev	.0026650	.000227	.0008406	.001142	.001005	.0090713	.0013720
%RSD	54.64554	64.83946	19.97570	40.15811	2697.894	2.715183	1.431612
#1	.0078926	-.000214	.0040752	-.003998	-.001073	.3445523	.0973345
#2	.0038991	-.000611	.0034418	-.002814	.000027	.3293860	.0955205
#3	.0028389	-.000224	.0051072	-.001716	.000934	.3283463	.0946445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001209	.0001762	33.12528	.0019485	.0011460	.0057148	5.612321
Stddev	.0000086	.0000192	.35375	.0000154	.0000435	.0003022	.065343
%RSD	7.135765	10.88779	1.067909	.7912571	3.795627	5.288806	1.164270
#1	.0001248	.0001816	33.52054	.0019628	.0011598	.0054686	5.676634
#2	.0001269	.0001922	33.01689	.0019505	.0011809	.0060521	5.614332
#3	.0001110	.0001550	32.83841	.0019321	.0010972	.0056236	5.545996

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6210125	6.057993	.0025313	.0005411	137.1305	.0007996	.0278158
Stddev	.0067756	.109272	.0001418	.0002264	.9601	.0006319	.0003833
%RSD	1.091052	1.803766	5.602833	41.84252	.7001181	79.03031	1.377959
#1	.6287538	6.180640	.0023809	.0003878	138.0078	.0009262	.0282185
#2	.6181233	6.022331	.0026627	.0008012	137.2788	.0013586	.0277734
#3	.6161605	5.971007	.0025503	.0004344	136.1049	.0001139	.0274554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.480454	.1237867	.0009229	-.004361	.0064913	3.646323	.2313036
Stddev	.059841	.0009017	.0001719	.000615	.0003763	.029934	.0005212
%RSD	1.091906	.7284142	18.62857	14.10236	5.796493	.8209259	.2253413
#1	5.507838	.1248101	.0010692	-.005035	.0069158	3.669770	.2318782
#2	5.521704	.1231091	.0007336	-.004220	.0063590	3.656593	.2311713
#3	5.411821	.1234409	.0009660	-.003829	.0061990	3.612606	.2308613

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3657-01 Acquired: 10/24/2024 22:43:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.144704	.0087223	.2242907
Stddev	.076603	.0012908	.0023670
%RSD	1.246652	14.79921	1.055337
#1	6.194186	.0076632	.2268538
#2	6.183458	.0101601	.2238313
#3	6.056467	.0083435	.2221871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2665.427	58552.25	14565.31	1940.392	4127.799
Stddev	19.502	363.05	105.44	8.528	29.945
%RSD	.7316634	.6200427	.7238929	.4395123	.7254389
#1	2655.609	58308.02	14448.59	1935.199	4110.012
#2	2652.786	58379.30	14593.67	1935.744	4111.014
#3	2687.887	58969.44	14653.66	1950.235	4162.372

Sample Name: PB164372BL Acquired: 10/24/2024 22:47:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0008092	.0000815	.0001662	-.001079	-.000034	-.000230	-.004025
Stddev	.0006557	.0005696	.0005905	.001059	.001097	.001127	.000344
%RSD	81.03686	698.5649	355.3548	98.16215	3212.398	489.3336	8.534953
#1	.0006605	-.000555	.0007942	-.001817	-.000140	-.000416	-.004417
#2	.0002406	.000544	.0000821	.000135	-.001074	.000978	-.003776
#3	.0015265	.000256	-.000378	-.001554	.001112	-.001253	-.003881

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000449	.0001142	.0128650	.0001419	.0002812	-.000275	.0040536
Stddev	.0000312	.0000246	.0017417	.0002304	.0001302	.000171	.0009021
%RSD	69.40068	21.56463	13.53823	162.4172	46.28794	62.44198	22.25333
#1	.0000668	.0001425	.0129637	.0003830	.0002784	-.000099	.0041597
#2	.0000588	.0001026	.0110760	.0001185	.0004128	-.000441	.0031032
#3	.0000092	.0000975	.0145552	-.000076	.0001525	-.000284	.0048980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003174	.0104949	.0000119	.0006626	.7331229	-.002496	.0007860
Stddev	.0001509	.0176658	.0001450	.0000753	.0222104	.001981	.0002327
%RSD	47.53012	168.3274	1222.064	11.36880	3.029562	79.36923	29.60742
#1	.0004307	-.005588	.0001700	.0007373	.7587390	-.001885	.0005590
#2	.0001462	.007670	-.000115	.0005866	.7213947	-.000893	.0007750
#3	.0003752	.029403	-.000020	.0006640	.7192352	-.004711	.0010240

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0667287	-.000741	-.000114	.0034204	-.000178	.0045812	.0012858
Stddev	.0129342	.000237	.000131	.0004856	.000242	.0032590	.0027583
%RSD	19.38326	31.98777	115.3677	14.19580	135.9502	71.13865	214.5207
#1	.0812406	-.000574	-.000103	.0029394	-.000452	.0037916	-.000622
#2	.0625299	-.001012	.000012	.0039104	-.000088	.0081625	.004448
#3	.0564155	-.000637	-.000250	.0034114	.000006	.0017896	.000031

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164372BL Acquired: 10/24/2024 22:47:52 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.002596	.0007047	.0000469
Stddev	.001329	.0004762	.0000038
%RSD	51.19372	67.57325	8.149268
#1	-.001551	.0008657	.0000512
#2	-.004092	.0001689	.0000439
#3	-.002145	.0010794	.0000456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2870.058	58390.53	14190.96	1961.323	4696.139
Stddev	41.070	211.99	889.52	8.294	61.421
%RSD	1.430973	.3630597	6.268209	.4228862	1.307909
#1	2825.248	58147.11	13949.24	1951.829	4628.174
#2	2879.017	58534.66	15176.35	1964.981	4712.565
#3	2905.909	58489.81	13447.28	1967.160	4747.676

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164299TB Acquired: 10/24/2024 22:56:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005909	-.007242	.0002420	.0054798	.0016949	.0056985
Stddev	.002922	.001083	.0006111	.0025701	.0006250	.0043676
%RSD	49.45537	14.95805	252.5499	46.90149	36.87828	76.64454
#1	-.003080	-.008299	-.000015	.0031250	.0014718	.0095773
#2	-.008916	-.007294	-.000199	.0050929	.0012119	.0009677
#3	-.005731	-.006134	.000940	.0082214	.0024008	.0065505

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002359	-.000156	-.000039	.0127807	.0008465	-.000146
Stddev	.000376	.000029	.000074	.0067206	.0004281	.000321
%RSD	15.93780	18.90063	190.4373	52.58420	50.57211	219.9958
#1	-.002287	-.000181	.000010	.0204734	.0011856	.000222
#2	-.002024	-.000123	-.000003	.0098197	.0009884	-.000369
#3	-.002765	-.000163	-.000124	.0080490	.0003655	-.000291

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003207	.0273785	.0055607	.0047773	.0008516	.0004378
Stddev	.0002880	.0029543	.0001195	.0049950	.0001164	.0001995
%RSD	89.81636	10.79065	2.148600	104.5553	13.66872	45.57417
#1	.0001430	.0297853	.0054300	.0012019	.0007628	.0002170
#2	.0001660	.0282689	.0056644	.0026457	.0009834	.0004913
#3	.0006530	.0240815	.0055877	.0104845	.0008088	.0006052

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 431.5127	-.001338	.0049736	.1084162	-.001402	.0003810
Stddev	4.8707	.000509	.0003027	.0105304	.000643	.0000427
%RSD	1.128748	38.07520	6.085337	9.712933	45.83221	11.20717
#1	434.0890	-.001922	.0049802	.1192106	-.001594	.0003334
#2	434.5541	-.000990	.0046678	.0981713	-.000685	.0003935
#3	425.8949	-.001101	.0052730	.1078668	-.001927	.0004161

Sample Name: PB164299TB Acquired: 10/24/2024 22:56:12 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0009475	.0000406	.0147392	.0033216	F .0244331	.0012934
Stddev	.0006860	.0003042	.0073412	.0013216	.0018709	.0007757
%RSD	72.40865	750.0691	49.80758	39.78731	7.657167	59.97268
#1	.0001555	.0002710	.0130160	.0028196	.0228380	.0012965
#2	.0013291	.0001549	.0227887	.0048206	.0239689	.0020675
#3	.0013579	-.000304	.0084128	.0023246	.0264924	.0005162

Elem	Sr4077
Units	ppm
Avg	.0000007
Stddev	.0000191
%RSD	2897.562
#1	-.000002
#2	.000021
#3	-.000017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.505	56562.54	13819.35	1891.368	3968.424
Stddev	5.485	143.49	15.90	5.948	5.413
%RSD	.2082617	.2536827	.1150746	.3144908	.1363970
#1	2636.023	56416.90	13817.01	1887.437	3965.783
#2	2637.278	56703.78	13804.74	1898.211	3974.650
#3	2627.213	56566.93	13836.29	1888.455	3964.838

Sample Name: PB164299BL Acquired: 10/24/2024 23:00:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0006798	-.000106	-.000485	-.000012	.0011281	-.002278	-.003360
Stddev	.0004863	.000925	.000381	.001623	.0014835	.002444	.000516
%RSD	71.53836	870.6325	78.41447	13060.46	131.5051	107.2975	15.35069
#1	.0007674	-.000260	-.000869	-.000740	.0011709	-.004734	-.003580
#2	.0001556	.000886	-.000480	.001848	.0025898	-.002253	-.003730
#3	.0011163	-.000945	-.000107	-.001145	-.000376	.000154	-.002771

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000986	.0001157	.0044259	.0001689	.0002470	-.000085	-.000659
Stddev	.0000390	.0000501	.0049895	.0003751	.0002011	.000326	.003178
%RSD	39.60940	43.33463	112.7345	222.0770	81.41293	385.0835	481.8607
#1	.0000660	.0001444	-.000065	-.000212	.0004672	-.000364	-.003955
#2	.0001419	.0000578	.003545	.000538	.0000729	-.000164	.002385
#3	.0000879	.0001448	.009797	.000180	.0002010	.000274	-.000408

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000582	.0051272	-.000002	.0006288	.3365520	-.002657	.0004338
Stddev	.0001681	.0182994	.000150	.0003414	.0068816	.000393	.0000467
%RSD	288.8712	356.9094	7405.251	54.29798	2.044750	14.79204	10.77494
#1	-.000136	-.015803	.000052	.0003510	.3385864	-.003073	.0004571
#2	.000158	.013083	-.000172	.0005255	.3288825	-.002609	.0003800
#3	.000153	.018102	.000114	.0010100	.3421870	-.002291	.0004643

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442611	-.000838	-.000073	.0038573	-.000209	.0004565	-.000342
Stddev	.0206784	.000345	.000105	.0003829	.000250	.0019842	.002094
%RSD	46.71913	41.14719	143.9143	9.925638	119.5572	434.6944	612.2498
#1	.0398861	-.001227	-.000047	.0037214	.000010	.0016996	.000139
#2	.0667769	-.000573	-.000188	.0042895	-.000482	.0015016	.001470
#3	.0261203	-.000712	.000017	.0035609	-.000156	-.001832	-.002635

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164299BL Acquired: 10/24/2024 23:00:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003644	.0003988	-.000025
Stddev	.001058	.0008059	.000024
%RSD	29.02437	202.0691	94.64470
#1	-.004591	.0010134	.000001
#2	-.002503	-.000514	-.000033
#3	-.003838	.000697	-.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2916.742	59904.78	13887.71	2000.653	4826.065
Stddev	13.217	120.03	31.86	8.797	20.857
%RSD	.4531589	.2003702	.2294001	.4396855	.4321713
#1	2904.030	59789.72	13883.56	1994.843	4803.194
#2	2915.784	59895.39	13858.13	1996.342	4830.965
#3	2930.413	60029.23	13921.44	2010.773	4844.036

Sample Name: PB164299BS Acquired: 10/24/2024 23:05:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7559905	2.076918	.9234027	1.954784	.7996074	1.871326	.1746855
Stddev	.0043823	.018726	.0022105	.002219	.0037841	.007679	.0013269
%RSD	.5796817	.9016173	.2393877	.1135373	.4732393	.4103661	.7595772
#1	.7609892	2.058242	.9259088	1.952382	.8023588	1.869513	.1747411
#2	.7528093	2.076819	.9217303	1.956760	.8011713	1.864715	.1733317
#3	.7541731	2.095694	.9225689	1.955209	.7952921	1.879749	.1759837

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1873415	.1794313	.9516724	.3784667	.1945987	.3122289	2.776974
Stddev	.0007637	.0002496	.0051152	.0007576	.0002150	.0008224	.001408
%RSD	.4076691	.1391255	.5374946	.2001744	.1104692	.2633949	.0507176
#1	.1866534	.1793280	.9493847	.3782102	.1948161	.3114792	2.776408
#2	.1872080	.1792499	.9481004	.3778706	.1943862	.3131085	2.775936
#3	.1881632	.1797160	.9575322	.3793192	.1945937	.3120989	2.778577

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2001014	1.955281	.4937466	.0758952	2.910336	.3048220	.2090854
Stddev	.0002644	.019113	.0002385	.0002819	.028521	.0008565	.0003070
%RSD	.1321206	.9775045	.0483079	.3714132	.9799910	.2809757	.1468231
#1	.2004067	1.934948	.4939875	.0761413	2.921462	.3057100	.2088596
#2	.1999497	1.972879	.4935106	.0755877	2.877929	.3040010	.2089615
#3	.1999479	1.958016	.4937418	.0759568	2.931618	.3047550	.2094349

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.32590	.2730045	.4122501	.6690540	.1779661	.6912501	5.548173
Stddev	.06332	.0005222	.0004265	.0012996	.0009718	.0031971	.004386
%RSD	.6132251	.1912947	.1034462	.1942378	.5460620	.4625079	.0790494
#1	10.37371	.2733447	.4117812	.6680812	.1780205	.6879297	5.544092
#2	10.25409	.2732657	.4123545	.6685509	.1769682	.6943076	5.552810
#3	10.34990	.2724032	.4126148	.6705299	.1789095	.6915131	5.547618

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164299BS Acquired: 10/24/2024 23:05:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.013297	.1740849	.1863476
Stddev	.002690	.0027240	.0017150
%RSD	20.22786	1.564727	.9203448
#1	-.015033	.1761658	.1869761
#2	-.010199	.1710018	.1844070
#3	-.014659	.1750871	.1876598

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2776.232	60024.15	13408.39	1975.162	4436.643
Stddev	8.588	191.05	45.96	10.650	7.431
%RSD	.3093231	.3182812	.3428016	.5392042	.1674934
#1	2767.839	59873.93	13385.00	1963.300	4430.392
#2	2775.854	60239.16	13461.34	1983.903	4434.678
#3	2785.002	59959.35	13378.82	1978.282	4444.859

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV12 Acquired: 10/24/2024 23:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.973678	5.335508	4.839049	5.123273	5.030494	9.526368	9.221703
Stddev	.011803	.059404	.011786	.013535	.018484	.009241	.054943
%RSD	.2373005	1.113363	.2435618	.2641898	.3674414	.0970081	.5958035
#1	4.960127	5.272234	4.827601	5.107803	5.010034	9.526661	9.243172
#2	4.981711	5.390082	4.838399	5.132935	5.045988	9.516983	9.262670
#3	4.979194	5.344208	4.851146	5.129079	5.035459	9.535459	9.159266

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2374806	2.396016	23.09769	.9208734	2.405303	1.233666	4.547268
Stddev	.0004956	.002805	.05823	.0004665	.003246	.001987	.018919
%RSD	.2086749	.1170699	.2520938	.0506566	.1349577	.1610963	.4160415
#1	.2380374	2.393029	23.04801	.9207299	2.401838	1.231475	4.529483
#2	.2370879	2.396424	23.16177	.9204955	2.405797	1.234170	4.567146
#3	.2373166	2.398594	23.08329	.9213948	2.408274	1.235353	4.545174

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.483815	25.37446	2.427757	1.219194	23.36475	2.641029	2.466181
Stddev	.008739	.13876	.002799	.000535	.07304	.011607	.006040
%RSD	.3518503	.5468676	.1153005	.0438774	.3126221	.4394743	.2448949
#1	2.479247	25.21787	2.424550	1.219399	23.29044	2.632085	2.473101
#2	2.493892	25.42333	2.429011	1.219596	23.43646	2.654145	2.461968
#3	2.478307	25.48218	2.429710	1.218587	23.36736	2.636858	2.463474

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.58617	4.726077	5.009353	4.779670	4.564667	4.963353	4.911546
Stddev	.05684	.005239	.008326	.010819	.006863	.054335	.018583
%RSD	.2221364	.1108551	.1662184	.2263458	.1503522	1.094719	.3783533
#1	25.53755	4.732126	4.999783	4.767846	4.557960	4.904894	4.890857
#2	25.64865	4.722953	5.014937	4.789072	4.571676	4.972855	4.916962
#3	25.57229	4.723153	5.013339	4.782094	4.564365	5.012310	4.926820

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV12 Acquired: 10/24/2024 23:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.738204	4.679367	4.731843
Stddev	.020101	.007768	.015058
%RSD	.4242363	.1660049	.3182348
#1	4.715045	4.670407	4.724742
#2	4.751125	4.683489	4.721648
#3	4.748442	4.684206	4.749139

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2780.130	60639.68	13121.16	1989.928	4206.916
Stddev	4.746	120.11	16.51	1.886	8.804
%RSD	.1707007	.1980757	.1258103	.0947726	.2092844
#1	2785.045	60687.35	13117.94	1989.852	4215.893
#2	2779.771	60503.04	13106.50	1988.081	4206.562
#3	2775.574	60728.63	13139.04	1991.851	4198.295

Sample Name: CCB12 Acquired: 10/24/2024 23:13:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003306	-.000378	-.001026	-.001256	.0005991	.0009105	-.002549
Stddev	.0013649	.001008	.000761	.000933	.0004026	.0036061	.000069
%RSD	412.8700	266.4805	74.11284	74.27721	67.19827	396.0328	2.716436
#1	-.001141	-.001536	-.001489	-.000199	.0007048	.0050738	-.002472
#2	.001555	.000310	-.000148	-.001603	.0009383	-.001108	-.002607
#3	.000578	.000090	-.001442	-.001966	.0001542	-.001234	-.002567

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000734	.0001113	.0037382	.0000530	.0002317	-.000171	.0002349
Stddev	.0000846	.0000313	.0038767	.0001775	.0000212	.000228	.0016370
%RSD	115.3252	28.12923	103.7066	335.0303	9.155181	133.5776	696.9733
#1	.0001481	.0000917	-.000699	.0001240	.0002484	-.000124	.0020122
#2	.0000905	.0000948	.006471	.0001840	.0002079	.000030	-.000096
#3	-.000019	.0001474	.005442	-.000149	.0002389	-.000418	-.001211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000121	.0029812	.0000353	.0007177	.1299414	-.001336	.0003082
Stddev	.000200	.0085111	.0001711	.0003436	.0101814	.000402	.0001974
%RSD	165.2618	285.4884	484.4123	47.87540	7.835389	30.05505	64.05274
#1	-.000330	.0110765	-.000162	.0005485	.1187041	-.001256	.0004529
#2	.000068	-.005892	.000143	.0004915	.1325679	-.001772	.0000833
#3	-.000101	.003759	.000125	.0011131	.1385523	-.000981	.0003885

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060622	.0029317	.0002323	.0038338	-.000095	.0018878	-.001226
Stddev	.0202810	.0004379	.0001802	.0004985	.000068	.0064706	.001868
%RSD	334.5473	14.93847	77.56406	13.00382	71.64041	342.7667	152.3293
#1	-.017298	.0026590	.0003095	.0040642	-.000149	.0063121	-.001059
#2	.016312	.0034369	.0003612	.0041754	-.000019	.0048897	-.003171
#3	.019173	.0026992	.0000264	.0032617	-.000117	-.005539	.000552

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB12 Acquired: 10/24/2024 23:13:14 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002893	.0012600	.0000178
Stddev	.000396	.0006425	.0000191
%RSD	13.67650	50.98858	107.5160
#1	-.002793	.0010593	.0000367
#2	-.003329	.0007419	-.000002
#3	-.002557	.0019789	.000018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.099	63219.69	13691.55	2102.153	4824.146
Stddev	6.891	120.03	40.45	2.651	14.032
%RSD	.2348706	.1898582	.2954664	.1260891	.2908611
#1	2935.833	63119.55	13647.46	2099.101	4811.773
#2	2939.958	63186.76	13726.96	2103.875	4839.392
#3	2926.507	63352.74	13700.22	2103.483	4821.274

Sample Name: PB164347BS Acquired: 10/24/2024 23:17:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7212283	2.002731	.8896823	1.866551	.7664483	1.804373
Stddev	.0045247	.014972	.0009388	.003583	.0034522	.003785
%RSD	.6273548	.7475636	.1055165	.1919660	.4504106	.2097753
#1	.7189753	2.016612	.8886252	1.862856	.7624647	1.808720
#2	.7182724	2.004715	.8904187	1.870011	.7685660	1.801807
#3	.7264371	1.986867	.8900029	1.866787	.7683141	1.802593

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1726604	.1846051	.1732052	1.134437	.3775051	.1876405
Stddev	.0009907	.0004505	.0004600	.012333	.0010432	.0002695
%RSD	.5738102	.2440599	.2655826	1.087146	.2763338	.1436060
#1	.1738028	.1849552	.1736398	1.120328	.3776778	.1878191
#2	.1720353	.1840968	.1727234	1.143167	.3763864	.1873306
#3	.1721432	.1847633	.1732524	1.139815	.3784512	.1877719

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2979110	3.376000	.2162673	1.927246	.4752996	.0741241
Stddev	.0012569	.013342	.0011226	.003852	.0005508	.0003852
%RSD	.4219104	.3952129	.5190776	.1998642	.1158862	.5196644
#1	.2966960	3.373164	.2172547	1.931693	.4756313	.0745558
#2	.2978309	3.364304	.2150462	1.925111	.4746638	.0740010
#3	.2992060	3.390533	.2165008	1.924935	.4756037	.0738155

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.779500	.3130408	.2018155	10.05366	.2699854	.3959141
Stddev	.007912	.0023087	.0006638	.01676	.0003161	.0010621
%RSD	.2846406	.7375046	.3289291	.1666612	.1170812	.2682566
#1	2.783405	.3138057	.2021960	10.07300	.2702180	.3950738
#2	2.784701	.3148699	.2022015	10.04441	.2701127	.3955607
#3	2.770395	.3104467	.2010490	10.04357	.2696255	.3971078

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164347BS Acquired: 10/24/2024 23:17:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6445364	.1730974	F .6683797	5.373759	F -.012693	.1703332
Stddev	.0019485	.0003695	.0065175	.020207	.002400	.0022475
%RSD	.3023110	.2134588	.9751145	.3760307	18.91051	1.319467
#1	.6458427	.1735185	.6621704	5.396295	-.012868	.1727548
#2	.6454698	.1728278	.6678017	5.367727	-.015002	.1699306
#3	.6422968	.1729457	.6751669	5.357254	-.010210	.1683142

Elem	Sr4077
Units	ppm
Avg	.1801544
Stddev	.0009544
%RSD	.5297611
#1	.1812564
#2	.1796049
#3	.1796019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.550	62138.21	13897.96	2079.217	4711.628
Stddev	11.986	79.33	41.23	7.814	9.045
%RSD	.4060767	.1276740	.2966444	.3758354	.1919792
#1	2961.231	62081.13	13855.19	2082.916	4708.862
#2	2955.275	62104.70	13901.24	2070.240	4721.734
#3	2938.144	62228.80	13937.45	2084.495	4704.289

Sample Name: P4470-01MS Acquired: 10/24/2024 23:21:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6559472	1.783599	.9386723	1.541531	.4638265	95.39528
Stddev	.0058066	.014387	.0020844	.008383	.0011493	.56894
%RSD	.8852220	.8066517	.2220640	.5438079	.2477758	.5963992
#1	.6493857	1.780064	.9410577	1.533164	.4650005	94.99575
#2	.6604222	1.799425	.9377577	1.549930	.4627038	96.04668
#3	.6580337	1.771310	.9372015	1.541498	.4637753	95.14341

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6065986	.1599041	.1733892	74.20318	.4413814	.2815636
Stddev	.0047480	.0007089	.0007836	.58013	.0007641	.0006530
%RSD	.7827278	.4433380	.4519358	.7818063	.1731251	.2319268
#1	.6028758	.1592140	.1742815	73.58997	.4422091	.2822119
#2	.6119456	.1606305	.1728129	74.74329	.4407028	.2809060
#3	.6049743	.1598680	.1730733	74.27630	.4412323	.2815729

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5755134	206.3894	3.852519	51.92345	.6377984	.0748109
Stddev	.0006129	.5832	.031032	.38533	.0008484	.0001293
%RSD	.1064992	.2825767	.8055026	.7421123	.1330194	.1728872
#1	.5748853	205.7797	3.820294	51.54770	.6387541	.0747423
#2	.5761100	206.9418	3.882202	52.31769	.6371340	.0749601
#3	.5755448	206.4468	3.855060	51.90496	.6375072	.0747303

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.26393	.6094029	.5261401	20.19771	.3670619	.3459495
Stddev	.01249	.0057250	.0012852	.04370	.0020954	.0006469
%RSD	.0941558	.9394377	.2442696	.2163546	.5708549	.1869909
#1	13.26140	.6044966	.5270179	20.18972	.3662617	.3453425
#2	13.27750	.6156929	.5246649	20.24486	.3694395	.3458760
#3	13.25291	.6080192	.5267375	20.15856	.3654845	.3466300

Sample Name: P4470-01MS Acquired: 10/24/2024 23:21:45 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6102775	4.545165	F 10.94461	F 10.69398	3.191151	.2407360
Stddev	.0022988	.027917	.02190	.04374	.013544	.0010731
%RSD	.3766897	.6142215	.2000738	.4090083	.4244205	.4457587
#1	.6119031	4.520835	10.94783	10.72393	3.206769	.2402448
#2	.6076474	4.575645	10.96473	10.64379	3.182634	.2419668
#3	.6112821	4.539015	10.92128	10.71423	3.184051	.2399964

Elem	Sr4077
Units	ppm
Avg	.1039148
Stddev	.0013843
%RSD	1.332097
#1	.1032155
#2	.1055092
#3	.1030198

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2944.303	64757.31	14759.50	2111.249	3947.420
Stddev	11.370	167.23	47.54	5.275	8.237
%RSD	.3861539	.2582448	.3220999	.2498430	.2086769
#1	2957.324	64564.22	14774.21	2106.297	3954.424
#2	2936.341	64851.65	14706.35	2116.796	3949.491
#3	2939.244	64856.05	14797.95	2110.652	3938.345

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4470-01MSD Acquired: 10/24/2024 23:25:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6538433	1.824545	.9487094	1.533395	.4639572	91.68908
Stddev	.0007095	.009290	.0023991	.006484	.0026338	.12917
%RSD	.1085099	.5091900	.2528801	.4228446	.5676876	.1408803
#1	.6538664	1.813878	.9467288	1.527834	.4614080	91.56094
#2	.6545409	1.830870	.9480224	1.531834	.4637955	91.68706
#3	.6531225	1.828885	.9513771	1.540517	.4666682	91.81926

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5908598	.1557681	.1762912	71.33376	.4464788	.2860870
Stddev	.0018974	.0000296	.0002601	.15472	.0006672	.0005543
%RSD	.3211272	.0189717	.1475355	.2168909	.1494244	.1937487
#1	.5888040	.1557575	.1760528	71.24259	.4457155	.2859064
#2	.5925438	.1557454	.1762522	71.24628	.4469503	.2856456
#3	.5912316	.1558015	.1765685	71.51239	.4467707	.2867091

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5800715	205.5659	3.721135	50.11376	.6450020	.0743996
Stddev	.0016222	.9861	.013738	.17758	.0017899	.0004264
%RSD	.2796625	.4796968	.3691990	.3543506	.2775028	.5731411
#1	.5787871	204.8147	3.708030	49.93815	.6430168	.0739126
#2	.5795330	205.2005	3.719946	50.10987	.6454968	.0745805
#3	.5818946	206.6826	3.735430	50.29325	.6464925	.0747058

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.10790	.5887944	.5202849	20.18873	.3623497	.3495554
Stddev	.03473	.0023817	.0013514	.04070	.0023900	.0012972
%RSD	.3127049	.4045027	.2597492	.2015922	.6595818	.3711030
#1	11.06864	.5872794	.5216318	20.14742	.3612120	.3483653
#2	11.12041	.5915397	.5189290	20.18998	.3607411	.3493627
#3	11.13465	.5875643	.5202939	20.22879	.3650960	.3509382

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4470-01MSD Acquired: 10/24/2024 23:25:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6224126	4.395071	F 11.04903	F 10.84083	3.185416	.2319387
Stddev	.0023810	.012310	.05428	.02449	.005433	.0015322
%RSD	.3825502	.2800758	.4913034	.2259303	.1705568	.6605873
#1	.6197306	4.382087	10.99612	10.81728	3.179283	.2302875
#2	.6242775	4.396554	11.04637	10.83905	3.187340	.2333145
#3	.6232296	4.406572	11.10459	10.86617	3.189624	.2322141

Elem	Sr4077
Units	ppm
Avg	.0926817
Stddev	.0004803
%RSD	.5182349
#1	.0922570
#2	.0932030
#3	.0925853

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.550	65276.89	15355.20	2130.618	3977.918
Stddev	9.616	135.20	21.43	10.534	8.589
%RSD	.3216675	.2071126	.1395335	.4943967	.2159128
#1	2983.130	65120.84	15332.02	2118.787	3970.422
#2	3000.606	65351.10	15359.30	2138.980	3987.290
#3	2984.914	65358.73	15374.28	2134.086	3976.040

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4470-01A Acquired: 10/24/2024 23:29:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6463294	1.780384	.9446223	1.507265	.4560349	92.74660
Stddev	.0013609	.023361	.0016188	.004668	.0011855	.65838
%RSD	.2105535	1.312125	.1713727	.3096758	.2599654	.7098715
#1	.6461132	1.807319	.9452289	1.510026	.4574031	92.18156
#2	.6450896	1.765649	.9458503	1.509892	.4553897	93.46959
#3	.6477854	1.768185	.9427878	1.501876	.4553119	92.58866

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5878280	.1595844	.1751118	72.43055	.4521715	.2837758
Stddev	.0035548	.0016765	.0006798	.54597	.0008253	.0005362
%RSD	.6047392	1.050518	.3882014	.7537899	.1825295	.1889677
#1	.5852409	.1582860	.1756941	71.86064	.4530817	.2843400
#2	.5918814	.1614770	.1752766	72.94894	.4519609	.2837146
#3	.5863617	.1589901	.1743648	72.48206	.4514718	.2832727

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5766958	204.0313	3.791246	51.63484	.6409242	.0739634
Stddev	.0025113	1.0818	.029934	.44235	.0014853	.0004446
%RSD	.4354599	.5302111	.7895533	.8566983	.2317417	.6011805
#1	.5768980	203.7439	3.760755	51.16270	.6425429	.0737339
#2	.5790999	203.1223	3.820590	52.03970	.6406057	.0736805
#3	.5740896	205.2278	3.792393	51.70211	.6396240	.0744760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.56059	.6017204	.5202251	19.72578	.3648984	.3451611
Stddev	.04290	.0058638	.0021510	.08260	.0009153	.0008669
%RSD	.4061866	.9745052	.4134643	.4187597	.2508221	.2511543
#1	10.56865	.5956309	.5177824	19.72957	.3640648	.3461597
#2	10.51424	.6073289	.5210575	19.64134	.3647528	.3446024
#3	10.59889	.6022014	.5218355	19.80642	.3658778	.3447211

Sample Name: P4470-01A Acquired: 10/24/2024 23:29:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6154547	4.451850	F 11.15989	F 10.84105	3.166806	.2347889
Stddev	.0012679	.027386	.03278	.01587	.006905	.0012373
%RSD	.2060066	.6151538	.2937364	.1463884	.2180537	.5269644
#1	.6143907	4.426021	11.15704	10.85864	3.174705	.2340408
#2	.6168576	4.480564	11.12863	10.82779	3.161914	.2362170
#3	.6151158	4.448965	11.19401	10.83674	3.163799	.2341089

Elem	Sr4077
Units	ppm
Avg	.0959419
Stddev	.0024468
%RSD	2.550298
#1	.0944508
#2	.0987658
#3	.0946092

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3031.979	65748.10	15096.13	2170.719	4032.459
Stddev	2.559	68.65	145.57	5.846	8.038
%RSD	.0844049	.1044096	.9642607	.2692976	.1993232
#1	3029.752	65713.01	15172.89	2174.850	4024.642
#2	3031.411	65704.10	14928.24	2164.030	4032.034
#3	3034.775	65827.20	15187.24	2173.276	4040.700

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164317BS Acquired: 10/24/2024 23:33:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7465177	2.080314	.9270143	1.923701	.7890374	1.887853
Stddev	.0081419	.018080	.0102333	.024600	.0075205	.004903
%RSD	1.090648	.8691223	1.103895	1.278791	.9531262	.2597378
#1	.7475950	2.060272	.9265757	1.913971	.7887105	1.891511
#2	.7540673	2.095400	.9374598	1.951678	.7967161	1.889767
#3	.7378908	2.085269	.9170073	1.905454	.7816857	1.882281

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1821303	.1937530	.1808889	1.192076	.3969246	.1952515
Stddev	.0005768	.0016733	.0017592	.007427	.0007039	.0023005
%RSD	.3166935	.8636146	.9725125	.6229912	.1773432	1.178216
#1	.1825689	.1950378	.1812651	1.197684	.3971665	.1955481
#2	.1823450	.1943603	.1824296	1.194889	.3974758	.1973892
#3	.1814769	.1918608	.1789721	1.183653	.3961317	.1928170

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3085534	3.496257	.2282374	2.068891	.4953973	.0766180
Stddev	.0040106	.007910	.0007473	.005270	.0056584	.0001001
%RSD	1.299819	.2262328	.3274035	.2547186	1.142187	.1306092
#1	.3088752	3.492701	.2290636	2.063372	.4963562	.0765900
#2	.3123935	3.490749	.2280398	2.069433	.5005149	.0767291
#3	.3043916	3.505321	.2276087	2.073870	.4893207	.0765349

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.849610	.3302357	.2079876	10.27917	.2828228	.4090044
Stddev	.002629	.0025145	.0001791	.03976	.0017479	.0041960
%RSD	.0922449	.7614248	.0861021	.3868108	.6180051	1.025896
#1	2.851002	.3311855	.2080023	10.28436	.2840303	.4080681
#2	2.851251	.3321370	.2081589	10.31608	.2836195	.4135894
#3	2.846579	.3273847	.2078017	10.23706	.2808185	.4053557

Sample Name: PB164317BS Acquired: 10/24/2024 23:33:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6739267	.1812530	F .6907708	5.695508	F -.010146	.1796590
Stddev	.0082357	.0009683	.0029777	.071198	.001076	.0020345
%RSD	1.222050	.5342018	.4310699	1.250076	10.60304	1.132407
#1	.6740589	.1820444	.6873349	5.696219	-.008912	.1810592
#2	.6820955	.1815412	.6923768	5.766348	-.010639	.1805926
#3	.6656256	.1801734	.6926008	5.623957	-.010886	.1773253

Elem	Sr4077
Units	ppm
Avg	.1885848
Stddev	.0010155
%RSD	.5384785
#1	.1893076
#2	.1890230
#3	.1874238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2891.338	61294.63	13474.00	2061.569	4572.199
Stddev	29.283	49.45	88.45	6.624	44.439
%RSD	1.012793	.0806817	.6564608	.3213042	.9719451
#1	2891.110	61311.03	13407.91	2067.698	4565.554
#2	2862.169	61239.06	13439.61	2062.468	4531.456
#3	2920.735	61333.80	13574.48	2054.542	4619.586

Sample Name: PB164289BL Acquired: 10/24/2024 23:37:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0013196	.0002327	-.000480	.0011585	-.000154	-.001803	-.004861
Stddev	.0014259	.0005173	.001051	.0004224	.000430	.004802	.000530
%RSD	108.0568	222.2875	218.7605	36.46248	278.4031	266.2822	10.89361
#1	.0019089	.0003544	-.000038	.0011846	-.000641	-.003682	-.005352
#2	-.000307	-.000335	-.001680	.0015673	.000002	.003654	-.004932
#3	.002356	.000678	.000277	.0007237	.000175	-.005382	-.004300

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000667	.0001146	.0026391	.0002215	.0001956	-.000278	.0072030
Stddev	.0000206	.0000056	.0018605	.0003472	.0000824	.000261	.0008435
%RSD	30.88397	4.858043	70.49495	156.7369	42.12687	93.87763	11.71121
#1	.0000848	.0001206	.0007592	.0003439	.0002845	-.000279	.0064545
#2	.0000443	.0001137	.0044795	-.000170	.0001804	-.000017	.0081171
#3	.0000710	.0001096	.0026788	.000491	.0001218	-.000539	.0070373

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001374	-.004431	-.000260	.0005988	.0890521	-.002905	.0006415
Stddev	.0002772	.005814	.000106	.0001953	.0122723	.001489	.0000630
%RSD	201.7823	131.2002	40.75721	32.62132	13.78106	51.24865	9.821664
#1	.0001296	-.000655	-.000379	.0004040	.0846339	-.001241	.0007141
#2	-.000136	-.001513	-.000176	.0005978	.0796007	-.003362	.0006013
#3	.000418	-.011127	-.000225	.0007947	.1029218	-.004112	.0006091

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073057	-.000267	-.000163	.0039745	.0001840	.0027930	.0015200
Stddev	.0041877	.000347	.000134	.0004215	.0000765	.0058431	.0003884
%RSD	57.32030	130.3366	82.37077	10.60557	41.56945	209.2061	25.55561
#1	.0038538	-.000232	-.000123	.0042112	.0002191	-.003433	.0018472
#2	.0119642	-.000630	-.000313	.0034878	.0000962	.003654	.0016221
#3	.0060992	.000063	-.000054	.0042244	.0002366	.008158	.0010907

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164289BL Acquired: 10/24/2024 23:37:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003255	.0007169	-.000004
Stddev	.001374	.0004877	.000023
%RSD	42.22519	68.02476	622.8536
#1	-.001686	.0002532	-.000027
#2	-.003832	.0006721	.000018
#3	-.004246	.0012255	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2894.205	60575.82	13651.05	2024.136	4767.144
Stddev	8.511	55.73	15.30	4.684	14.881
%RSD	.2940543	.0919999	.1120625	.2313892	.3121517
#1	2884.454	60625.28	13651.15	2027.823	4750.021
#2	2900.137	60586.75	13666.30	2025.718	4774.471
#3	2898.024	60515.43	13635.71	2018.866	4776.941

Sample Name: PB164289BS Acquired: 10/24/2024 23:41:55 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7320855	2.016266	.8958163	1.889759	.7732096	1.817954
Stddev	.0034101	.018880	.0011381	.006100	.0020705	.014072
%RSD	.4658120	.9363853	.1270465	.3227856	.2677746	.7740463
#1	.7351808	2.035007	.8955147	1.895939	.7755922	1.802091
#2	.7284299	2.016542	.8970748	1.889595	.7721895	1.828931
#3	.7326457	1.997250	.8948594	1.883742	.7718471	1.822841

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1743309	.1835630	.1739417	1.150968	.3719294	.1883681
Stddev	.0019521	.0015083	.0004733	.008050	.0018323	.0005633
%RSD	1.119772	.8216633	.2720825	.6994075	.4926566	.2990495
#1	.1724957	.1830491	.1744623	1.142469	.3740071	.1888153
#2	.1763820	.1852610	.1738253	1.158477	.3705446	.1877354
#3	.1741150	.1823788	.1735375	1.151957	.3712365	.1885534

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3006872	3.334232	.2167742	1.924956	.4778613	.0734704
Stddev	.0003523	.014275	.0025244	.017834	.0006958	.0001980
%RSD	.1171479	.4281212	1.164531	.9264745	.1456143	.2695087
#1	.3010939	3.319523	.2148456	1.920625	.4786267	.0733409
#2	.3004828	3.348028	.2196314	1.944557	.4772670	.0733720
#3	.3004849	3.335145	.2158456	1.909687	.4776900	.0736984

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.735384	.3123266	.2029591	9.958504	.2688638	.3981032
Stddev	.017722	.0028967	.0006506	.058323	.0015226	.0008427
%RSD	.6478646	.9274728	.3205627	.5856596	.5663014	.2116792
#1	2.717868	.3098577	.2036694	9.898562	.2684850	.3988856
#2	2.734981	.3155154	.2028159	9.961890	.2705400	.3982131
#3	2.753304	.3116067	.2023920	10.01506	.2675663	.3972110

Sample Name: PB164289BS Acquired: 10/24/2024 23:41:55 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6453052	.1734405	F .6627539	5.377080	F -.010968	.1717331
Stddev	.0016740	.0020797	.0022058	.027855	.001172	.0020036
%RSD	.2594055	1.199095	.3328297	.5180389	10.68992	1.166706
#1	.6470736	.1711829	.6604748	5.408577	-.012225	.1695041
#2	.6437453	.1752782	.6648784	5.366975	-.010774	.1733845
#3	.6450967	.1738603	.6629085	5.355687	-.009905	.1723106

Elem	Sr4077
Units	ppm
Avg	.1820375
Stddev	.0016632
%RSD	.9136479
#1	.1802649
#2	.1835639
#3	.1822836

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.292	63691.50	14007.10	2089.183	4703.822
Stddev	7.166	51.47	116.94	5.840	9.207
%RSD	.2437142	.0808136	.8348784	.2795384	.1957397
#1	2933.597	63698.13	14061.58	2094.942	4695.715
#2	2939.427	63637.04	13872.86	2083.265	4701.919
#3	2947.851	63739.34	14086.86	2089.341	4713.832

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01DUP Acquired: 10/24/2024 23:45:55 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0101243	-.000215	.0022510	-.004194	-.000424	.1806182
Stddev	.0030704	.000731	.0006462	.001641	.000349	.0030124
%RSD	30.32758	339.9271	28.70707	39.12538	82.18908	1.667830
#1	.0079205	-.000606	.0016605	-.003062	-.000775	.1801457
#2	.0136314	.000628	.0029413	-.003444	-.000420	.1778700
#3	.0088209	-.000667	.0021512	-.006076	-.000078	.1838390

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1704115	.0001203	.0001517	73.43706	.0048572	.0091356
Stddev	.0028716	.0000160	.0000117	.85417	.0002331	.0000853
%RSD	1.685085	13.29800	7.692451	1.163128	4.799036	.9339967
#1	.1693461	.0001282	.0001602	72.97022	.0046431	.0090372
#2	.1682250	.0001308	.0001384	72.91805	.0048230	.0091880
#3	.1736636	.0001019	.0001565	74.42291	.0051055	.0091817

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000965	15.96495	3.345449	12.74085	.0044160	.0014702
Stddev	.000034	.04572	.045704	.17933	.0001180	.0001758
%RSD	3.489593	.2863789	1.366146	1.407510	2.672353	11.95568
#1	-.000977	15.93433	3.316866	12.61120	.0042800	.0015944
#2	-.000927	15.94302	3.321321	12.66584	.0044906	.0012691
#3	-.000992	16.01751	3.398160	12.94550	.0044775	.0015472

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	331.7487	.0016385	.1274201	10.67197	.2764300	.0010325
Stddev	2.2443	.0010104	.0005771	.06620	.0026858	.0001633
%RSD	.6764929	61.66590	.4529326	.6202827	.9716026	15.81209
#1	329.8141	.0010256	.1274601	10.62274	.2749869	.0011259
#2	331.2229	.0010853	.1268240	10.64595	.2747742	.0011277
#3	334.2092	.0028047	.1279762	10.74722	.2795288	.0008440

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01DUP Acquired: 10/24/2024 23:45:55 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005477	.0052521	9.210710	.5004705	F 12.02766	.0135798
Stddev	.000869	.0003864	.034517	.0040881	.04645	.0008002
%RSD	15.86716	7.356902	.3747457	.8168494	.3862180	5.892808
#1	-.004534	.0054505	9.210045	.4958105	11.99296	.0144831
#2	-.006246	.0048068	9.176530	.5034528	12.08043	.0132964
#3	-.005651	.0054989	9.245554	.5021483	12.00959	.0129598

Elem	Sr4077
Units	ppm
Avg	.4179797
Stddev	.0066016
%RSD	1.579405
#1	.4137135
#2	.4146418
#3	.4255837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.085	55773.05	13745.89	1862.007	3821.022
Stddev	5.874	245.07	169.50	18.004	11.750
%RSD	.2288318	.4394017	1.233090	.9669300	.3075008
#1	2572.954	55978.61	13861.49	1882.298	3832.374
#2	2561.205	55838.69	13824.85	1855.778	3808.912
#3	2567.098	55501.85	13551.31	1847.944	3821.782

Sample Name: P3645-01LX5 Acquired: 10/24/2024 23:50:17 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0018623	.0004533	.0003833	-.001451	.0000489	.0309946	.0313428
Stddev	.0005761	.0019871	.0004135	.000340	.0004640	.0042284	.0001299
%RSD	30.93570	438.3171	107.8840	23.40910	949.3368	13.64231	.4144090
#1	.0018276	-.001639	.0008427	-.001777	.0005717	.0284788	.0311929
#2	.0024549	.002315	.0000412	-.001478	-.000314	.0286286	.0314234
#3	.0013043	.000684	.0002658	-.001099	-.000111	.0358763	.0314120

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000618	.0000203	15.17303	.0009179	.0019505	-.000532	3.089549
Stddev	.0000380	.0000175	.03475	.0002143	.0001179	.000221	.005435
%RSD	61.45451	86.26086	.2290134	23.34854	6.046690	41.48611	.1759120
#1	.0000614	.0000262	15.15601	.0007426	.0018603	-.000544	3.085603
#2	.0000240	.0000342	15.21300	.0011568	.0020840	-.000306	3.095748
#3	.0000999	.0000006	15.15007	.0008543	.0019073	-.000746	3.087297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7022668	2.618151	.0008102	.0009365	63.34280	-.002141	.0245249
Stddev	.0009026	.031736	.0000523	.0001022	.13883	.000110	.0005118
%RSD	.1285308	1.212161	6.456447	10.91696	.2191798	5.140439	2.086928
#1	.7022307	2.654065	.0008699	.0009532	63.47067	-.002267	.0243819
#2	.7031869	2.606504	.0007881	.0010293	63.36260	-.002065	.0250930
#3	.7013828	2.593883	.0007726	.0008269	63.19513	-.002091	.0240998

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.008873	.0588629	.0002433	.0012981	.0008896	1.723281	.0889666
Stddev	.006083	.0008535	.0001548	.0007256	.0002884	.011390	.0004195
%RSD	.3027986	1.449989	63.64623	55.89765	32.42297	.6609696	.4715116
#1	2.015093	.0588422	.0004047	.0020862	.0005945	1.736001	.0887979
#2	2.008590	.0597265	.0000960	.0011506	.0011709	1.719819	.0894442
#3	2.002937	.0580199	.0002291	.0006576	.0009034	1.714024	.0886577

Sample Name: P3645-01LX5 Acquired: 10/24/2024 23:50:17 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	2.186948	.0031762	.0851632
Stddev	.011997	.0017639	.0002510
%RSD	.5485798	55.53273	.2946674
#1	2.187239	.0012430	.0852668
#2	2.174808	.0035877	.0853457
#3	2.198797	.0046980	.0848770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2785.434	59176.19	13590.22	1994.334	4304.164
Stddev	10.192	118.96	53.18	10.913	16.866
%RSD	.3658942	.2010237	.3913309	.5472171	.3918610
#1	2774.932	59088.02	13560.26	1987.453	4290.779
#2	2795.284	59129.05	13558.77	1988.632	4323.108
#3	2786.088	59311.49	13651.62	2006.917	4298.605

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01MS Acquired: 10/24/2024 23:54:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8150321	1.930850	.9242447	2.006108	.8482492	2.127043
Stddev	.0150766	.037289	.0118965	.037931	.0161564	.029685
%RSD	1.849821	1.931227	1.287158	1.890760	1.904675	1.395579
#1	.8089684	1.907771	.9211969	1.990365	.8403287	2.154790
#2	.8039314	1.910908	.9141687	1.978584	.8375814	2.130597
#3	.8321965	1.973869	.9373686	2.049376	.8668374	2.095741

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3571213	.1906374	.1849127	77.02345	.3956177	.2077885
Stddev	.0054140	.0024231	.0027705	1.21386	.0030814	.0029888
%RSD	1.516000	1.271053	1.498279	1.575963	.7788926	1.438360
#1	.3623273	.1933155	.1841718	78.23306	.3987388	.2065788
#2	.3575156	.1900000	.1825879	77.03192	.3955368	.2055941
#3	.3515209	.1885967	.1879783	75.80538	.3925776	.2111924

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2985148	19.90635	3.670269	15.19809	.5084168	.0821752
Stddev	.0053134	.16303	.061675	.24358	.0080359	.0004508
%RSD	1.779941	.8189930	1.680403	1.602720	1.580573	.5485985
#1	.2966031	20.08895	3.730335	15.44967	.5064420	.0825468
#2	.2944217	19.85473	3.673370	15.18122	.5015523	.0823051
#3	.3045195	19.77538	3.607101	14.96338	.5172560	.0816737

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	343.6370	.3316425	.3508113	22.28450	.5535781	.4195429
Stddev	1.7148	.0085105	.0010770	.11778	.0067109	.0077786
%RSD	.4990095	2.566174	.3070053	.5285496	1.212275	1.854053
#1	345.5904	.3381125	.3519478	22.40832	.5599522	.4166507
#2	342.9414	.3348133	.3506804	22.27131	.5542073	.4136247
#3	342.3794	.3220018	.3498057	22.17386	.5465747	.4283532

Sample Name: P3645-01MS Acquired: 10/24/2024 23:54:35 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6888545	.1880165	F 10.18733	6.856987	F 11.97286	.1928998
Stddev	.0100031	.0023356	.08584	.107487	.21586	.0033531
%RSD	1.452142	1.242253	.8426242	1.567549	1.802908	1.738245
#1	.6869702	.1904043	10.27474	6.836174	11.88615	.1958710
#2	.6799275	.1879085	10.18411	6.761429	11.81384	.1935640
#3	.6996658	.1857368	10.10315	6.973358	12.21859	.1892643

Elem	Sr4077
Units	ppm
Avg	.6200317
Stddev	.0086086
%RSD	1.388420
#1	.6281352
#2	.6209659
#3	.6109941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2561.063	54564.58	13239.02	1828.239	3806.296
Stddev	47.143	252.04	160.48	2.285	67.198
%RSD	1.840753	.4619071	1.212195	.1249991	1.765433
#1	2588.657	54313.52	13090.69	1827.397	3842.481
#2	2587.902	54562.63	13217.00	1826.494	3847.647
#3	2506.629	54817.59	13409.38	1830.826	3728.760

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV13 Acquired: 10/24/2024 23:58:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.849462	5.104309	4.657804	5.011289	4.913911	9.319450
Stddev	.004801	.040887	.007595	.016909	.001623	.166584
%RSD	.0990090	.8010248	.1630674	.3374218	.0330324	1.787488
#1	4.844094	5.088333	4.649355	4.994114	4.913376	9.497771
#2	4.850943	5.073822	4.659991	5.011834	4.912623	9.292750
#3	4.853348	5.150772	4.664065	5.027919	4.915734	9.167828

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.176967	.2278495	2.304008	27.18605	.9034884	2.317643
Stddev	.226549	.0045333	.004364	.56723	.0036657	.004557
%RSD	2.468667	1.989598	.1893955	2.086483	.4057237	.1966292
#1	9.381498	.2326432	2.299868	27.78810	.9061811	2.313176
#2	9.215943	.2272738	2.303590	27.10840	.9049704	2.317467
#3	8.933458	.2236316	2.308565	26.66164	.8993138	2.322286

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.200726	5.462733	2.670651	24.51601	2.343860	1.183381
Stddev	.000789	.023627	.054421	.50172	.003808	.000989
%RSD	.0657163	.4325032	2.037751	2.046507	.1624782	.0835402
#1	1.199828	5.437643	2.728878	25.05784	2.340492	1.184183
#2	1.201044	5.484556	2.662004	24.42266	2.343097	1.182277
#3	1.201308	5.466000	2.621071	24.06751	2.347992	1.183685

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.17050	2.673568	2.404588	25.28869	4.545328	4.856826
Stddev	.06105	.043236	.001827	.10074	.100505	.008666
%RSD	.2634766	1.617169	.0759868	.3983596	2.211181	.1784391
#1	23.11424	2.719665	2.406399	25.19236	4.652322	4.847155
#2	23.16185	2.667122	2.404621	25.28036	4.530762	4.859433
#3	23.23542	2.633917	2.402745	25.39333	4.452901	4.863890

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV13 Acquired: 10/24/2024 23:58:40 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.578916	F 4.458504	4.932194	4.679302	4.560388	4.568595
Stddev	.010490	.084504	.043465	.012527	.007005	.083354
%RSD	.2290920	1.895340	.8812563	.2677137	.1536011	1.824498
#1	4.567292	4.550277	4.906541	4.681601	4.555224	4.661099
#2	4.581776	4.441324	4.907661	4.665784	4.557577	4.545365
#3	4.587679	4.383909	4.982379	4.690520	4.568361	4.499320

Elem	Sr4077
Units	ppm
Avg	4.604608
Stddev	.121757
%RSD	2.644247
#1	4.740180
#2	4.569073
#3	4.504572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.259	60927.42	13340.27	1981.820	4262.281
Stddev	2.509	54.00	288.54	.684	1.635
%RSD	.0898515	.0886382	2.162908	.0345075	.0383653
#1	2793.402	60983.53	13034.32	1981.041	4261.154
#2	2789.382	60875.80	13379.02	1982.321	4261.532
#3	2793.993	60922.94	13607.48	1982.098	4264.156

Sample Name: CCB13 Acquired: 10/25/2024 0:02:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000470	.0002067	-.000411	-.000521	.0011463	-.001944	-.004740
Stddev	.0009140	.0003597	.000477	.000702	.0001104	.002960	.000299
%RSD	1943.488	174.0481	116.1775	134.7739	9.633053	152.2358	6.316262
#1	-.000745	-.000077	-.000354	-.000309	.0012471	-.001844	-.005080
#2	-.000161	.000086	-.000914	.000050	.0011636	.000964	-.004629
#3	.001047	.000611	.000036	-.001305	.0010283	-.004953	-.004513

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000515	.0001706	.0042099	.0002800	.0001331	-.000153	.0042160
Stddev	.0000139	.0000458	.0008357	.0003222	.0000723	.000082	.0006291
%RSD	26.92997	26.83981	19.85034	115.0955	54.35009	53.33998	14.92054
#1	.0000587	.0002235	.0050104	.0000035	.0000698	-.000090	.0049324
#2	.0000603	.0001435	.0033430	.0002025	.0002120	-.000246	.0039621
#3	.0000355	.0001447	.0042763	.0006338	.0001176	-.000124	.0037537

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001501	-.001230	-.000045	.0007455	.1293963	-.002550	.0001543
Stddev	.0001508	.002564	.000148	.0002335	.0028760	.001148	.0001632
%RSD	100.4818	208.4100	327.4689	31.31191	2.222625	45.03167	105.7723
#1	.0003243	-.003578	-.000161	.0009213	.1268452	-.002511	.0001026
#2	.0000622	-.001618	-.000096	.0004807	.1325131	-.001421	.0000232
#3	.0000638	.001505	.000121	.0008347	.1288306	-.003717	.0003371

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271945	.0033580	.0003565	.0036796	-.000063	-.000958	-.000889
Stddev	.0117384	.0006567	.0001093	.0009235	.000298	.002441	.001070
%RSD	43.16458	19.55666	30.64674	25.09748	473.8798	254.7077	120.4279
#1	.0144961	.0039825	.0004529	.0046843	-.000040	.001842	-.001532
#2	.0294385	.0034182	.0003788	.0028679	.000223	-.002631	.000347
#3	.0376489	.0026732	.0002378	.0034864	-.000371	-.002086	-.001481

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB13 Acquired: 10/25/2024 0:02:51 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004166	.0009100	.0000459
Stddev	.000231	.0016327	.0000124
%RSD	5.547614	179.4211	27.03518
#1	-.003972	.0010149	.0000366
#2	-.004106	-.000773	.0000411
#3	-.004422	.002488	.0000600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3005.189	61762.56	13599.06	2074.734	4942.128
Stddev	9.966	1938.07	50.58	58.705	11.826
%RSD	.3316228	3.137935	.3719353	2.829510	.2392849
#1	2994.191	59691.91	13641.75	2011.273	4928.481
#2	3007.754	62062.76	13543.20	2085.829	4949.347
#3	3013.621	63533.01	13612.22	2127.100	4948.557

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01MSD Acquired: 10/25/2024 0:10:01 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7828381	1.877878	.8926964	1.926468	.8140359	2.036455
Stddev	.0010868	.020488	.0006661	.008154	.0026121	.024575
%RSD	.1388229	1.091015	.0746136	.4232613	.3208853	1.206762
#1	.7835250	1.894818	.8925117	1.921206	.8137524	2.061090
#2	.7815852	1.855107	.8934353	1.922337	.8115771	2.036334
#3	.7834042	1.883709	.8921421	1.935861	.8167782	2.011940

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3401002	.1850753	.1789967	61.25388	.3735821	.2005959
Stddev	.0022325	.0018998	.0001779	.78969	.0017770	.0006911
%RSD	.6564389	1.026494	.0994130	1.289211	.4756615	.3445172
#1	.3424278	.1870682	.1790430	62.15302	.3755688	.2003864
#2	.3379768	.1832848	.1788001	60.67290	.3721444	.2000338
#3	.3398960	.1848728	.1791469	60.93572	.3730331	.2013675

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2902199	15.25613	3.168056	14.48583	.4902251	.0776200
Stddev	.0011254	.08451	.034333	.21357	.0005247	.0004897
%RSD	.3877844	.5539541	1.083737	1.474325	.1070376	.6308373
#1	.2899062	15.33416	3.206406	14.72007	.4903703	.0781504
#2	.2892846	15.26787	3.140177	14.30192	.4896431	.0775243
#3	.2914689	15.16636	3.157585	14.43550	.4906620	.0771853

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	321.3920	.3067334	.3345199	20.97928	.5312640	.4041850
Stddev	.5125	.0023972	.0016700	.05490	.0053857	.0006003
%RSD	.1594685	.7815325	.4992197	.2616925	1.013760	.1485248
#1	321.4018	.3077641	.3360011	21.00863	.5369744	.4034965
#2	321.8996	.3039932	.3327100	21.01327	.5262758	.4044593
#3	320.8747	.3084429	.3348486	20.91594	.5305418	.4045991

Sample Name: P3645-01MSD Acquired: 10/25/2024 0:10:01 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6676929	.1805725	9.596622	6.666854	F 11.59614	.1864404
Stddev	.0011389	.0010182	.054183	.018163	.02628	.0011717
%RSD	.1705717	.5638777	.5646096	.2724331	.2266412	.6284633
#1	.6664258	.1816084	9.616008	6.679679	11.61899	.1852190
#2	.6686312	.1795729	9.638446	6.646071	11.56742	.1865472
#3	.6680218	.1805361	9.535412	6.674813	11.60200	.1875551

Elem	Sr4077
Units	ppm
Avg	.6005607
Stddev	.0051000
%RSD	.8491992
#1	.6060564
#2	.5959804
#3	.5996453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2660.219	57394.94	13633.10	1924.126	3941.674
Stddev	14.385	106.24	120.09	4.049	18.319
%RSD	.5407405	.1851035	.8808948	.2104369	.4647621
#1	2673.272	57373.68	13514.06	1922.812	3956.060
#2	2662.589	57300.93	13754.22	1920.897	3947.910
#3	2644.796	57510.20	13631.00	1928.669	3921.050

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01A Acquired: 10/25/2024 0:14:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8501326	2.014308	.9618910	2.102113	.8855709	2.132938
Stddev	.0051494	.014756	.0072479	.017180	.0068379	.019358
%RSD	.6057132	.7325519	.7535087	.8172540	.7721508	.9075679
#1	.8455318	2.002848	.9593761	2.088044	.8790519	2.115704
#2	.8491711	2.009119	.9562356	2.097035	.8849724	2.129228
#3	.8556949	2.030958	.9700614	2.121259	.8926884	2.153883

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3541339	.1906935	.1929369	63.37706	.3906826	.2165017
Stddev	.0036219	.0017046	.0007899	.51558	.0065007	.0009776
%RSD	1.022754	.8939133	.4094310	.8135158	1.663926	.4515277
#1	.3516344	.1892703	.1925506	62.90225	.3953178	.2163618
#2	.3524798	.1902276	.1924144	63.30344	.3832518	.2156016
#3	.3582876	.1925827	.1938456	63.92550	.3934782	.2175417

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3164537	16.22775	3.285030	14.98632	.5297961	.0819316
Stddev	.0015656	.26930	.031146	.14784	.0030475	.0010757
%RSD	.4947357	1.659490	.9481110	.9864916	.5752167	1.312938
#1	.3147626	16.35077	3.258864	14.94479	.5283249	.0825367
#2	.3167460	15.91891	3.276745	14.86368	.5277634	.0806896
#3	.3178526	16.41357	3.319480	15.15048	.5333000	.0825684

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	344.2822	.3174795	.3557017	22.56088	.5496634	.4371450
Stddev	4.4493	.0030935	.0052607	.34893	.0050254	.0021015
%RSD	1.292328	.9743922	1.478962	1.546628	.9142634	.4807305
#1	347.9242	.3156531	.3582718	22.72793	.5457130	.4352217
#2	339.3231	.3157342	.3496500	22.15983	.5479576	.4368251
#3	345.5993	.3210513	.3591833	22.79489	.5553196	.4393880

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P3645-01A Acquired: 10/25/2024 0:14:04 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7198627	.1886161	F 10.29330	7.127594	F 12.53135	.1942029
Stddev	.0031903	.0017801	.15611	.012295	.05158	.0018701
%RSD	.4431886	.9437432	1.516623	.1724972	.4116308	.9629667
#1	.7186757	.1869968	10.38032	7.131227	12.48597	.1929882
#2	.7174360	.1883293	10.11307	7.113892	12.52062	.1932641
#3	.7234764	.1905221	10.38650	7.137663	12.58745	.1963564

Elem	Sr4077
Units	ppm
Avg	.6261686
Stddev	.0060819
%RSD	.9712844
#1	.6209525
#2	.6247042
#3	.6328489

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2438.022	53780.84	13147.53	1794.700	3626.720
Stddev	13.931	854.21	104.32	26.114	13.164
%RSD	.5714241	1.588319	.7934815	1.455059	.3629737
#1	2452.599	53298.69	13237.98	1784.599	3639.795
#2	2436.624	54767.12	13171.20	1824.355	3626.894
#3	2424.842	53276.71	13033.40	1775.145	3613.469

Sample Name: P4485-02 Acquired: 10/25/2024 0:18:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005268	-.009049	.0020066	.0038196	.0005421	.1314806	.2334050
Stddev	.000814	.001543	.0008917	.0007431	.0017435	.0029343	.0011708
%RSD	15.45149	17.05588	44.43738	19.45606	321.6531	2.231769	.5016254
#1	-.005742	-.007790	.0029775	.0045736	.0024804	.1280992	.2327375
#2	-.004328	-.008586	.0018182	.0030878	.0000443	.1333583	.2347569
#3	-.005734	-.010771	.0012242	.0037973	-.000898	.1329843	.2327205

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009580	.0002134	8.284307	.0017216	.0034238	.0122220	.0781429
Stddev	.0000511	.0000244	.023758	.0002957	.0001067	.0005916	.0004818
%RSD	5.336110	11.44506	.2867823	17.17699	3.117251	4.840476	.6165345
#1	.0009919	.0002217	8.258049	.0019105	.0035422	.0127318	.0783306
#2	.0008992	.0001859	8.290556	.0013808	.0033942	.0115733	.0775955
#3	.0009829	.0002325	8.304315	.0018735	.0033350	.0123607	.0785026

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1189609	7.416171	.0039938	.0006031	282.0011	.0001615	.2077950
Stddev	.0005670	.033771	.0002519	.0001410	1.1725	.0021688	.0008117
%RSD	.4766258	.4553718	6.307379	23.38242	.4157861	1342.768	.3906170
#1	.1183118	7.389142	.0037123	.0005853	282.5596	-.000827	.2068630
#2	.1193595	7.454028	.0041979	.0007521	282.7899	.002648	.2081750
#3	.1192113	7.405344	.0040711	.0004718	280.6537	-.001337	.2083470

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.206425	.0728741	.0008169	-.000530	.0030808	3.144781	.0734618
Stddev	.019008	.0002881	.0001574	.001291	.0002433	.018893	.0016517
%RSD	.4518797	.3954053	19.26823	243.4438	7.898672	.6007797	2.248440
#1	4.185832	.0725451	.0009605	-.000176	.0033178	3.126003	.0752449
#2	4.210147	.0729957	.0008415	.000546	.0030931	3.144553	.0719839
#3	4.223297	.0730815	.0006486	-.001961	.0028316	3.163787	.0731566

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02 Acquired: 10/25/2024 0:18:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8916891	.0082448	.0484580
Stddev	.0028070	.0010223	.0001424
%RSD	.3147934	12.39911	.2939646
#1	.8942548	.0086760	.0484141
#2	.8886910	.0089809	.0486172
#3	.8921215	.0070776	.0483427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2511.775	54620.68	13493.55	1776.247	3847.884
Stddev	4.865	69.12	30.58	5.261	5.862
%RSD	.1937036	.1265536	.2266452	.2961581	.1523529
#1	2506.178	54694.61	13514.45	1781.596	3843.508
#2	2514.998	54609.77	13458.45	1776.067	3854.545
#3	2514.148	54557.66	13507.76	1771.080	3845.600

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02DUP Acquired: 10/25/2024 0:22:33 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005965	-.007344	.0019464	.0025150	.0004331	.1268808	.2322200
Stddev	.002584	.000606	.0011083	.0015460	.0003390	.0041338	.0026108
%RSD	43.31403	8.245584	56.93860	61.47147	78.27778	3.258012	1.124291
#1	-.008945	-.007040	.0008183	.0037637	.0004606	.1225686	.2313641
#2	-.004606	-.008042	.0019874	.0007858	.0000812	.1308095	.2351513
#3	-.004344	-.006951	.0030337	.0029955	.0007576	.1272642	.2301445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009337	.0002524	8.202826	.0016021	.0032697	.0119204	.0769014
Stddev	.0000288	.0000355	.058678	.0002257	.0002863	.0000252	.0013654
%RSD	3.085131	14.04486	.7153398	14.09021	8.755926	.2114538	1.775484
#1	.0009670	.0002261	8.140577	.0017414	.0033297	.0119251	.0771986
#2	.0009156	.0002384	8.257122	.0017232	.0035212	.0119429	.0754119
#3	.0009187	.0002927	8.210779	.0013416	.0029582	.0118932	.0780937

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1184245	7.448240	.0038456	.0005071	274.7025	.0015185	.1986530
Stddev	.0011602	.054074	.0002954	.0000613	1.3303	.0010623	.0004486
%RSD	.9797136	.7259931	7.680766	12.08618	.4842520	69.96099	.2258342
#1	.1183889	7.442781	.0038328	.0004979	273.3774	.0022392	.1982417
#2	.1196021	7.504836	.0035569	.0004509	276.0378	.0020178	.1985859
#3	.1172825	7.397102	.0041472	.0005724	274.6923	.0002985	.1991314

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.022214	.0716218	.0007522	-.000993	.0032001	3.002156	.0698642
Stddev	.020174	.0003567	.0001006	.000337	.0001266	.011356	.0020895
%RSD	.5015555	.4980374	13.37203	33.94330	3.954621	.3782461	2.990748
#1	4.031372	.0715942	.0008596	-.000787	.0030981	3.013438	.0688270
#2	4.036183	.0712798	.0006602	-.000810	.0033417	3.002303	.0684964
#3	3.999085	.0719916	.0007370	-.001382	.0031605	2.990728	.0722694

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02DUP Acquired: 10/25/2024 0:22:33 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8532960	.0073897	.0478399
Stddev	.0039266	.0020934	.0004192
%RSD	.4601734	28.32866	.8763405
#1	.8554548	.0095665	.0476135
#2	.8556697	.0072115	.0483237
#3	.8487636	.0053911	.0475827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2662.276	56886.73	13672.57	1889.246	4059.943
Stddev	12.748	281.43	114.40	10.731	13.727
%RSD	.4788424	.4947282	.8366773	.5679895	.3381106
#1	2647.709	56763.91	13738.45	1886.904	4044.448
#2	2667.726	56687.58	13540.48	1879.879	4064.799
#3	2671.393	57208.70	13738.78	1900.954	4070.582

Sample Name: P4485-02LX5 Acquired: 10/25/2024 0:26:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001551	-.001703	.0008941	-.000180	.0012770	.0265850	.0482463
Stddev	.000051	.000570	.0003328	.000368	.0001420	.0012140	.0002960
%RSD	3.298193	33.45576	37.22566	204.5040	11.11686	4.566651	.6134852
#1	-.001500	-.002081	.0005935	-.000533	.0013394	.0253921	.0479671
#2	-.001602	-.001048	.0012518	.000202	.0013771	.0278191	.0485566
#3	-.001550	-.001981	.0008371	-.000209	.0011145	.0265438	.0482152

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002851	.0001434	1.810937	.0002566	.0007955	.0023767	.0191396
Stddev	.0000091	.0000282	.009608	.0002098	.0001207	.0000765	.0042031
%RSD	3.198800	19.67201	.5305388	81.76659	15.16613	3.220019	21.96019
#1	.0002936	.0001733	1.821545	.0000864	.0006612	.0023252	.0159741
#2	.0002861	.0001398	1.808446	.0001924	.0008947	.0024646	.0175364
#3	.0002755	.0001172	1.802821	.0004910	.0008307	.0023401	.0239083

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259146	1.660108	.0008641	.0006744	55.03551	-.000684	.0422361
Stddev	.0001290	.010831	.0000248	.0001105	.41948	.000165	.0002697
%RSD	.4979115	.6524081	2.866541	16.38550	.7622048	24.17156	.6385517
#1	.0258546	1.665600	.0008507	.0006590	54.77129	-.000785	.0425210
#2	.0260627	1.667093	.0008926	.0005724	55.51920	-.000493	.0422024
#3	.0258264	1.647632	.0008488	.0007918	54.81605	-.000774	.0419848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8858424	.0166940	.0000450	.0033936	.0005304	.6157781	.0127206
Stddev	.0210833	.0003780	.0001662	.0005003	.0002120	.0041798	.0026888
%RSD	2.380025	2.264391	369.1450	14.74383	39.96224	.6787783	21.13749
#1	.8621885	.0162632	.0001824	.0036785	.0003225	.6172225	.0131343
#2	.8926820	.0168485	.0000924	.0036865	.0005225	.6190441	.0151786
#3	.9026567	.0169702	-.000140	.0028159	.0007462	.6110677	.0098489

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02LX5 Acquired: 10/25/2024 0:26:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.1770137	.0026063	.0103557
Stddev	.0042354	.0006746	.0000200
%RSD	2.392714	25.88169	.1932949
#1	.1803007	.0033843	.0103381
#2	.1785065	.0021850	.0103775
#3	.1722340	.0022495	.0103515

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2793.125	60038.50	13556.11	2003.154	4339.458
Stddev	3.705	245.69	57.07	10.075	2.473
%RSD	.1326647	.4092155	.4209778	.5029734	.0569807
#1	2791.162	60178.21	13492.81	2007.106	4337.708
#2	2797.399	59754.81	13571.88	1991.702	4338.378
#3	2790.814	60182.47	13603.63	2010.654	4342.287

Sample Name: P4485-02MS Acquired: 10/25/2024 0:31:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7656223	1.862664	.8764368	1.931745	.7982845	1.934411	.4052026
Stddev	.0038661	.002300	.0026387	.007496	.0034444	.012084	.0044031
%RSD	.5049666	.1234584	.3010661	.3880283	.4314750	.6246969	1.086642
#1	.7643254	1.862164	.8773431	1.928505	.7943351	1.923959	.4007488
#2	.7625714	1.860655	.8734644	1.926413	.7998518	1.931631	.4053059
#3	.7699702	1.865172	.8785028	1.940315	.8006665	1.947643	.4095531

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776822	.1809144	9.045257	.3796706	.1987085	.3011468	2.979703
Stddev	.0007362	.0004773	.058377	.0007526	.0004195	.0014099	.031192
%RSD	.4143311	.2638160	.6453904	.1982172	.2111330	.4681804	1.046800
#1	.1775315	.1811099	8.980987	.3797488	.1983807	.3006969	2.944403
#2	.1770329	.1803703	9.059788	.3788820	.1985634	.3000168	2.991162
#3	.1784820	.1812628	9.094997	.3803810	.1991813	.3027268	3.003544

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3065094	9.238903	.4946534	.0759007	272.9780	.3064394	.4066187
Stddev	.0029033	.055181	.0010506	.0003202	1.1958	.0041250	.0014504
%RSD	.9472214	.5972709	.2123907	.4218879	.4380438	1.346104	.3567084
#1	.3032094	9.175496	.4941186	.0755397	271.6304	.3029852	.4078861
#2	.3076478	9.265170	.4939777	.0761504	273.9123	.3053263	.4050368
#3	.3086710	9.276045	.4958638	.0760121	273.3912	.3110068	.4069333

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.90314	.3089280	.4210625	.6580952	.1798888	3.758286	6.050716
Stddev	.11237	.0013308	.0015075	.0002623	.0019212	.020053	.019994
%RSD	.7540133	.4307675	.3580251	.0398538	1.067981	.5335750	.3304445
#1	14.77800	.3080313	.4199170	.6578091	.1777788	3.735222	6.046364
#2	14.93603	.3082957	.4205001	.6583244	.1803509	3.768039	6.033256
#3	14.99540	.3104571	.4227703	.6581520	.1815369	3.771597	6.072527

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02MS Acquired: 10/25/2024 0:31:15 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8580121	.1760512	.2287625
Stddev	.0052251	.0021826	.0020499
%RSD	.6089746	1.239769	.8960774
#1	.8614366	.1750241	.2266110
#2	.8519980	.1745715	.2289838
#3	.8606017	.1785579	.2306928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.968	55851.82	13555.05	1857.104	3926.835
Stddev	11.501	98.96	22.59	2.464	13.194
%RSD	.4435495	.1771843	.1666275	.1326560	.3359947
#1	2600.722	55916.23	13571.24	1856.852	3936.275
#2	2598.428	55901.36	13564.67	1859.685	3932.471
#3	2579.754	55737.87	13529.25	1854.777	3911.759

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02MSD Acquired: 10/25/2024 0:35:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7663725	1.831358	.8635188	1.934668	.8004892	1.964379	.4083215
Stddev	.0041851	.034427	.0048577	.015111	.0052624	.037926	.0060758
%RSD	.5460908	1.879863	.5625457	.7810863	.6574009	1.930703	1.487997
#1	.7637870	1.816868	.8654806	1.934114	.7967787	2.005498	.4147750
#2	.7641296	1.806544	.8579870	1.919841	.7981771	1.930769	.4027115
#3	.7712010	1.870661	.8670889	1.950049	.8065119	1.956869	.4074778

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776284	.1782427	9.041027	.3726772	.1966140	.2991014	2.919627
Stddev	.0027253	.0005675	.166528	.0000975	.0007330	.0015374	.001741
%RSD	1.534276	.3183929	1.841914	.0261621	.3728039	.5140159	.0596322
#1	.1807122	.1779621	9.231635	.3727828	.1964350	.2992482	2.917932
#2	.1755434	.1778702	8.923744	.3726583	.1959870	.2974958	2.919539
#3	.1766296	.1788959	8.967702	.3725906	.1974199	.3005602	2.921411

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3103759	9.282777	.4883113	.0747917	266.2720	.3082117	.4004488
Stddev	.0045686	.155962	.0014994	.0002747	1.1510	.0028933	.0021832
%RSD	1.471964	1.680126	.3070666	.3672489	.4322789	.9387215	.5451765
#1	.3154746	9.462867	.4872047	.0745012	265.3042	.3110209	.3986549
#2	.3066541	9.193070	.4877113	.0748268	265.9670	.3052411	.4028795
#3	.3089990	9.192396	.4900178	.0750472	267.5448	.3083730	.3998119

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.59951	.3097600	.4221040	.6515601	.1827342	3.659459	5.908788
Stddev	.09218	.0058094	.0020530	.0026382	.0032058	.021050	.030866
%RSD	.6314049	1.875457	.4863717	.4049050	1.754337	.5752341	.5223757
#1	14.50757	.3164639	.4219529	.6512834	.1864158	3.636299	5.905009
#2	14.59903	.3066158	.4201308	.6490711	.1805600	3.664648	5.879985
#3	14.69193	.3062005	.4242284	.6543257	.1812267	3.677429	5.941369

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4485-02MSD Acquired: 10/25/2024 0:35:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8280623	.1787641	.2321791
Stddev	.0043599	.0028880	.0037995
%RSD	.5265152	1.615553	1.636470
#1	.8252464	.1804792	.2362637
#2	.8258562	.1754297	.2287499
#3	.8330844	.1803833	.2315238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2619.964	57731.95	13549.66	1868.657	3993.378
Stddev	16.927	291.59	208.38	14.831	22.686
%RSD	.6460967	.5050683	1.537918	.7936849	.5680854
#1	2620.933	58068.59	13309.43	1883.220	3997.871
#2	2636.385	57558.73	13681.64	1853.571	4013.482
#3	2602.572	57568.51	13657.90	1869.179	3968.783

Sample Name: P4485-02A Acquired: 10/25/2024 0:39:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7804128	1.872433	.8854929	1.973013	.8266575	2.034772	.4194195
Stddev	.0037961	.017576	.0028775	.008763	.0051540	.014886	.0022539
%RSD	.4864241	.9386884	.3249604	.4441311	.6234747	.7315581	.5373866
#1	.7784634	1.852145	.8828147	1.966498	.8211769	2.018157	.4171262
#2	.7847875	1.883046	.8885351	1.982975	.8314067	2.046892	.4216318
#3	.7779874	1.882108	.8851290	1.969566	.8273890	2.039268	.4195004

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1842861	.1828738	9.391602	.3947975	.2014571	.3056236	3.122136
Stddev	.0008312	.0005577	.049338	.0016845	.0006588	.0016872	.028975
%RSD	.4510405	.3049641	.5253450	.4266797	.3269968	.5520416	.9280646
#1	.1833578	.1823415	9.336967	.3965003	.2013413	.3037168	3.128769
#2	.1849614	.1834538	9.432902	.3947604	.2021661	.3069227	3.147220
#3	.1845392	.1828262	9.404937	.3931319	.2008640	.3062315	3.090419

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3229162	9.695970	.4997594	.0795949	287.7899	.3210185	.4274027
Stddev	.0037054	.145762	.0014248	.0006087	1.5199	.0054335	.0016081
%RSD	1.147496	1.503324	.2850906	.7647306	.5281368	1.692570	.3762443
#1	.3192659	9.561577	.4981586	.0800391	288.4072	.3147504	.4291450
#2	.3266744	9.850919	.5008885	.0798444	288.9040	.3239169	.4270878
#3	.3228083	9.675414	.5002311	.0789011	286.0584	.3243883	.4259754

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.60747	.3212674	.4352515	.6752957	.1898532	3.929467	6.055525
Stddev	.03703	.0028403	.0020298	.0025210	.0012577	.015595	.013302
%RSD	.2372871	.8840958	.4663568	.3733165	.6624576	.3968669	.2196629
#1	15.64937	.3181136	.4337935	.6729469	.1884065	3.947437	6.040382
#2	15.59389	.3236237	.4375698	.6779593	.1906866	3.919486	6.060870
#3	15.57914	.3220648	.4343911	.6749811	.1904664	3.921477	6.065322

Sample Name: P4485-02A Acquired: 10/25/2024 0:39:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.8588675	.1850302	.2396408
Stddev	.0097170	.0013651	.0013446
%RSD	1.131378	.7377754	.5610992
#1	.8486875	.1837964	.2385045
#2	.8680437	.1847974	.2411253
#3	.8598712	.1864967	.2392926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2551.035	53565.33	13038.11	1755.679	3877.642
Stddev	12.679	197.94	77.81	4.524	18.389
%RSD	.4969947	.3695338	.5968240	.2576999	.4742434
#1	2562.395	53388.46	13122.08	1750.484	3894.762
#2	2537.358	53528.39	12968.43	1758.757	3858.203
#3	2553.352	53779.14	13023.81	1757.797	3879.961

Sample Name: P4487-04 Acquired: 10/25/2024 0:43:39 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005686	-.007960	.0004460	.0023960	.0018213	-.041577	.4459973
Stddev	.000610	.000438	.0002124	.0008398	.0004505	.003898	.0133595
%RSD	10.72160	5.503378	47.63097	35.04992	24.73387	9.374150	2.995430
#1	-.006288	-.007620	.0004319	.0017580	.0013012	-.037888	.4363124
#2	-.005701	-.008455	.0006651	.0033474	.0020851	-.045654	.4404412
#3	-.005069	-.007806	.0002409	.0020825	.0020777	-.041190	.4612382

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000209	.0005123	145.4336	.0021425	.0006057	.0128432	.0684369
Stddev	.000027	.0000501	4.0312	.0003087	.0001817	.0006097	.0052978
%RSD	12.94054	9.776604	2.771837	14.40736	30.00021	4.747464	7.741137
#1	-.000185	.0005510	141.9099	.0024989	.0003959	.0123431	.0724439
#2	-.000238	.0005303	144.5613	.0019608	.0007130	.0126641	.0704364
#3	-.000202	.0004557	149.8295	.0019678	.0007083	.0135225	.0624303

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.662505	2.546435	.0016111	.0004106	327.4748	-.002700	.0532689
Stddev	.073560	.062740	.0000664	.0002369	2.4592	.001764	.0004726
%RSD	2.762803	2.463829	4.121317	57.68576	.7509514	65.34368	.8872508
#1	2.602977	2.497313	.0015357	.0004393	329.4575	-.003974	.0538100
#2	2.639796	2.524881	.0016366	.0001607	328.2438	-.003439	.0529366
#3	2.744741	2.617110	.0016609	.0006318	324.7230	-.000686	.0530602

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.113455	.0131025	.0008319	-.002674	-.002872	.3522663	-.001295
Stddev	.026190	.0006965	.0001184	.001049	.000416	.0030283	.004427
%RSD	1.239226	5.315490	14.23150	39.24448	14.47556	.8596745	341.7217
#1	2.142449	.0131297	.0007758	-.003733	-.003347	.3489272	.003682
#2	2.091512	.0123928	.0009679	-.001634	-.002574	.3530363	-.002775
#3	2.106403	.0137849	.0007520	-.002656	-.002694	.3548352	-.004793

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4487-04 Acquired: 10/25/2024 0:43:39 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.5464812	.0288651	.2311454
Stddev	.0038610	.0012320	.0067432
%RSD	.7065207	4.268062	2.917307
#1	.5446203	.0290843	.2262835
#2	.5439031	.0275382	.2283091
#3	.5509203	.0299727	.2388434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.453	55840.98	13712.74	1851.642	3775.000
Stddev	25.808	483.28	328.64	21.959	32.057
%RSD	.9997404	.8654513	2.396626	1.185904	.8491975
#1	2589.855	55347.35	13968.15	1828.102	3784.958
#2	2602.013	55862.41	13828.09	1855.251	3800.896
#3	2552.491	56313.19	13341.97	1871.572	3739.145

Sample Name: P4487-08 Acquired: 10/25/2024 0:48:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005247	-.008857	-.000383	.0008905	.0016470	-.039721	.3718436
Stddev	.000327	.002688	.000626	.0024155	.0007665	.002001	.0119450
%RSD	6.242164	30.34423	163.4770	271.2505	46.54054	5.037692	3.212361
#1	-.005188	-.006083	-.000240	.0000149	.0009179	-.037478	.3682908
#2	-.004953	-.009039	.000159	-.000965	.0024462	-.040359	.3851619
#3	-.005600	-.011449	-.001068	.003622	.0015770	-.041325	.3620782

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000258	.0002669	129.2696	.0007768	.0007580	.0134894	.0527181
Stddev	.000013	.0001323	3.9469	.0004159	.0001829	.0006554	.0022536
%RSD	4.852084	49.57803	3.053199	53.53786	24.13612	4.858378	4.274897
#1	-.000250	.0002755	127.9162	.0008793	.0006037	.0131592	.0532061
#2	-.000252	.0003948	133.7151	.0003192	.0009601	.0130648	.0546877
#3	-.000273	.0001305	126.1775	.0011318	.0007101	.0142442	.0502604

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.330713	1.813560	.0015844	.0004310	305.2964	-.000230	.0243679
Stddev	.071895	.057273	.0000938	.0001164	7.4087	.000428	.0002209
%RSD	3.084691	3.158062	5.921152	27.00082	2.426740	186.2858	.9065826
#1	2.306903	1.786838	.0015557	.0005613	313.4847	-.000404	.0241555
#2	2.411493	1.879310	.0015084	.0003941	299.0567	.000258	.0245965
#3	2.273744	1.774531	.0016893	.0003375	303.3477	-.000544	.0243518

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.107766	.0056338	.0008371	-.003198	-.002352	.3255628	-.002931
Stddev	.022114	.0003277	.0002925	.000390	.000176	.0085924	.001208
%RSD	1.996225	5.816343	34.93992	12.20883	7.468467	2.639255	41.22096
#1	1.133074	.0056435	.0006145	-.003614	-.002518	.3351812	-.001621
#2	1.098051	.0059564	.0007285	-.002839	-.002168	.3186454	-.004001
#3	1.092172	.0053013	.0011684	-.003141	-.002370	.3228618	-.003171

Sample Name: P4487-08 Acquired: 10/25/2024 0:48:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.3368533	.0251201	.1981454
Stddev	.0043000	.0017538	.0061704
%RSD	1.276522	6.981768	3.114063
#1	.3343061	.0246783	.1961922
#2	.3344359	.0270526	.2050559
#3	.3418180	.0236294	.1931879

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.565	57443.42	13660.76	1878.413	3847.572
Stddev	46.230	1070.35	367.55	35.672	64.270
%RSD	1.770197	1.863308	2.690589	1.899041	1.670395
#1	2657.292	56235.08	13788.94	1838.112	3912.675
#2	2612.557	58272.51	13246.28	1905.936	3845.870
#3	2564.848	57822.66	13947.07	1891.190	3784.169

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV14 Acquired: 10/25/2024 0:52:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.066863	5.410914	4.903536	5.209575	5.109846	9.701055	9.297702
Stddev	.003607	.113364	.007519	.014598	.002712	.006823	.061942
%RSD	.0711945	2.095100	.1533370	.2802078	.0530682	.0703341	.6662096
#1	5.070114	5.392030	4.899195	5.195225	5.112926	9.706475	9.365914
#2	5.062982	5.532534	4.899194	5.224408	5.107818	9.703298	9.244963
#3	5.067493	5.308177	4.912218	5.209094	5.108795	9.693393	9.282229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2411449	2.432416	23.48114	.9271670	2.442301	1.257379	4.597736
Stddev	.0005504	.002311	.04644	.0035294	.004053	.002212	.007889
%RSD	.2282248	.0950091	.1977865	.3806683	.1659517	.1758889	.1715891
#1	.2417001	2.432538	23.43974	.9272834	2.442617	1.259194	4.589162
#2	.2411351	2.430046	23.47232	.9306369	2.438100	1.254916	4.599355
#3	.2405995	2.434664	23.53136	.9235809	2.446188	1.258028	4.604690

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517217	25.71148	2.469382	1.232769	23.19779	2.675447	2.500517
Stddev	.003095	.03635	.003028	.000508	.11730	.009167	.007651
%RSD	.1229410	.1413602	.1226076	.0411796	.5056685	.3426321	.3059657
#1	2.513842	25.74480	2.469123	1.232248	23.31753	2.676482	2.493016
#2	2.517888	25.67272	2.466492	1.233262	23.19274	2.684052	2.500225
#3	2.519922	25.71692	2.472531	1.232798	23.08309	2.665806	2.508309

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.78094	4.780323	5.075335	4.827459	4.633592	5.006617	5.013440
Stddev	.03984	.006392	.001941	.007569	.003903	.035824	.009595
%RSD	.1545289	.1337081	.0382506	.1567927	.0842385	.7155260	.1913857
#1	25.76554	4.779867	5.073295	4.824618	4.637822	4.969855	5.016952
#2	25.82618	4.786930	5.077159	4.836037	4.632826	5.008574	5.020784
#3	25.75110	4.774171	5.075552	4.821721	4.630129	5.041422	5.002584

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV14 Acquired: 10/25/2024 0:52:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV14 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.813763	4.702590	4.776509
Stddev	.010589	.015360	.038521
%RSD	.2199837	.3266285	.8064596
#1	4.812841	4.711484	4.742979
#2	4.824783	4.711431	4.767961
#3	4.803664	4.684853	4.818585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.203	59796.27	12902.49	1946.698	4127.081
Stddev	3.387	79.67	37.00	8.170	5.471
%RSD	.1245247	.1332395	.2867498	.4197012	.1325560
#1	2720.401	59723.11	12870.75	1952.492	4128.880
#2	2723.487	59784.54	12893.60	1950.249	4131.426
#3	2716.721	59881.15	12943.13	1937.353	4120.938

Sample Name: CCB14 Acquired: 10/25/2024 0:56:44 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000473	.0012232	.0000979	.0005790	.0014153	-.003725	-.003697
Stddev	.0018712	.0015382	.0006971	.0013894	.0003099	.002928	.000383
%RSD	3956.694	125.7553	712.0209	239.9745	21.89803	78.59865	10.34999
#1	.0020500	-.000258	.0000855	-.000420	.0015526	-.006387	-.004135
#2	-.000252	.001115	-.000593	-.000009	.0016328	-.004199	-.003428
#3	-.001656	.002813	.000801	.002166	.0010604	-.000589	-.003529

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000641	.0001328	.0081056	.0003661	.0002163	-.000262	.0008901
Stddev	.0000158	.0000615	.0057830	.0001752	.0001550	.000112	.0035383
%RSD	24.61527	46.29882	71.34544	47.84647	71.68741	42.63694	397.5102
#1	.0000485	.0000640	.0103539	.0002835	.0002995	-.000381	-.002471
#2	.0000800	.0001521	.0015361	.0002475	.0000374	-.000161	.000559
#3	.0000637	.0001823	.0124268	.0005673	.0003119	-.000243	.004582

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000542	.0022350	-.000108	.0006838	.3294626	-.002142	.0007701
Stddev	.0000887	.0041382	.000164	.0000966	.0149684	.000477	.0002808
%RSD	163.4524	185.1570	151.8493	14.12493	4.543287	22.25895	36.46111
#1	.0000827	-.001222	.000072	.0006811	.3131234	-.001997	.0005907
#2	.0001252	.006820	-.000147	.0007817	.3327507	-.001755	.0010937
#3	-.000045	.001107	-.000249	.0005886	.3425136	-.002675	.0006259

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0851824	.0024079	.0001658	.0043437	.0000293	.0077574	.0000310
Stddev	.0104851	.0003930	.0001197	.0000860	.0003114	.0028518	.0020562
%RSD	12.30898	16.32121	72.18834	1.979110	1061.976	36.76220	6636.772
#1	.0780451	.0019915	.0001506	.0042675	-.000192	.0045219	-.002062
#2	.0802816	.0027724	.0002923	.0043269	-.000105	.0099055	.002048
#3	.0972204	.0024599	.0000544	.0044369	.000385	.0088449	.000108

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB14 Acquired: 10/25/2024 0:56:44 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB14 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005056	.0004663	.0000352
Stddev	.002557	.0012215	.0000076
%RSD	50.56647	261.9325	21.69473
#1	-.003474	-.000351	.0000287
#2	-.008006	-.000121	.0000333
#3	-.003689	.001871	.0000436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2830.957	60125.58	13665.12	1998.720	4651.126
Stddev	8.668	201.92	22.18	11.942	18.230
%RSD	.3061696	.3358266	.1623358	.5974860	.3919502
#1	2840.785	59991.38	13671.15	2001.094	4671.972
#2	2827.678	60027.56	13640.55	1985.768	4638.166
#3	2824.407	60357.80	13683.67	2009.296	4643.242

Sample Name: P4488-09DLX5 Acquired: 10/25/2024 1:01:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.001875	-.001303	.0129824	.0007904	-.000091	.0106898	-.002895
Stddev	.000968	.000341	.0012555	.0010921	.000786	.0037901	.000278
%RSD	51.63897	26.17079	9.670436	138.1743	862.9253	35.45536	9.602351
#1	-.002953	-.001058	.0117353	.0020435	.000615	.0063197	-.002885
#2	-.001594	-.001159	.0142460	.0002866	.000050	.0126710	-.002623
#3	-.001079	-.001693	.0129658	.0000411	-.000939	.0130788	-.003178

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000482	.0070809	.0230397	.0026245	.0007995	.3801070	.0362106
Stddev	.0000328	.0001343	.0021642	.0003137	.0000681	.0095209	.0023954
%RSD	68.02733	1.897174	9.393500	11.95396	8.521734	2.504781	6.615156
#1	.0000861	.0069258	.0212392	.0029589	.0008143	.3691886	.0343255
#2	.0000282	.0071550	.0224391	.0025779	.0008589	.3844534	.0389061
#3	.0000303	.0071619	.0254408	.0023367	.0007251	.3866790	.0354002

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020208	.0071706	.0009541	.0008388	.1782546	-.001919	.1348505
Stddev	.0002936	.0120646	.0002091	.0000228	.0158431	.001745	.0002088
%RSD	14.52982	168.2515	21.91502	2.712718	8.887884	90.93872	.1548600
#1	.0021774	.0209702	.0007129	.0008619	.1605810	-.001177	.1347083
#2	.0022028	.0019242	.0010645	.0008164	.1911822	-.000667	.1347529
#3	.0016821	-.001383	.0010848	.0008381	.1830007	-.003913	.1350903

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321566	.0015869	.0002850	.0036715	.0003088	.0080916	.0653355
Stddev	.0088466	.0003907	.0000262	.0003635	.0003915	.0030652	.0003823
%RSD	27.51105	24.62271	9.187923	9.902011	126.7662	37.88191	.5851949
#1	.0328587	.0014577	.0002626	.0040810	.0005023	.0045525	.0657624
#2	.0406312	.0020258	.0003138	.0033866	-.000142	.0099076	.0650248
#3	.0229798	.0012771	.0002785	.0035469	.000566	.0098146	.0652192

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4488-09DLX5 Acquired: 10/25/2024 1:01:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4409530	.0003326	.0000578
Stddev	.0104328	.0010825	.0000197
%RSD	2.365968	325.4134	34.03537
#1	.4306667	.0014142	.0000643
#2	.4406659	-.000751	.0000735
#3	.4515264	.000335	.0000357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2901.411	64454.36	14535.61	2115.239	4781.785
Stddev	60.773	48.91	41.69	5.035	103.749
%RSD	2.094608	.0758843	.2867922	.2380217	2.169675
#1	2971.125	64494.33	14487.49	2120.143	4900.563
#2	2873.504	64399.82	14560.74	2115.490	4735.918
#3	2859.604	64468.94	14558.59	2110.083	4708.875

Sample Name: P4488-10 Acquired: 10/25/2024 1:06:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004663	-.004892	.0012332	.0023406	.0016418	.0184262	.0093209
Stddev	.002210	.000680	.0004338	.0011901	.0002612	.0008993	.0004166
%RSD	47.39460	13.89633	35.17738	50.84451	15.90938	4.880433	4.468998
#1	-.002114	-.005026	.0014652	.0032594	.0019396	.0187647	.0093591
#2	-.006034	-.004155	.0007328	.0009963	.0015345	.0191070	.0097170
#3	-.005842	-.005494	.0015018	.0027662	.0014514	.0174067	.0088865

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000147	.0011924	.0164755	.0053357	.0002084	.0182113	.0352980
Stddev	.000024	.0000642	.0041776	.0004430	.0001369	.0003080	.0002945
%RSD	16.10982	5.384750	25.35649	8.302348	65.70347	1.691457	.8342404
#1	-.000156	.0011928	.0119131	.0049932	.0001890	.0183282	.0349621
#2	-.000121	.0011279	.0201135	.0058360	.0003540	.0184438	.0355118
#3	-.000166	.0012563	.0174000	.0051780	.0000822	.0178619	.0354201

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024812	.0077914	.0009788	.0006232	.0070061	-.001368	.0879270
Stddev	.0001001	.0070818	.0000806	.0003455	.0018311	.002068	.0002321
%RSD	4.033924	90.89266	8.233723	55.44978	26.13569	151.2320	.2639149
#1	.0023739	.0159200	.0008957	.0002964	.0058426	-.002894	.0879746
#2	.0024977	.0029544	.0010567	.0009848	.0091167	-.002196	.0881316
#3	.0025721	.0044999	.0009840	.0005883	.0060589	.000986	.0876748

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001116	.0075998	.0005225	.0894756	.0004428	.1088860	.0266201
Stddev	.006155	.0003658	.0000382	.0002223	.0002056	.0065688	.0012958
%RSD	551.7808	4.813445	7.316927	.2484481	46.43701	6.032721	4.867727
#1	-.005090	.0078563	.0005623	.0897321	.0002074	.1025119	.0258355
#2	-.004232	.0071809	.0005193	.0893572	.0005870	.1156335	.0259091
#3	.005975	.0077621	.0004860	.0893377	.0005341	.1085127	.0281158

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4488-10 Acquired: 10/25/2024 1:06:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.610073	.0024452	.0003029
Stddev	.008210	.0013748	.0000241
%RSD	.5098983	56.22246	7.953706
#1	1.614723	.0034830	.0002949
#2	1.600594	.0029667	.0002837
#3	1.614902	.0008860	.0003299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2935.701	64826.10	14408.02	2101.257	4931.000
Stddev	5.096	28.28	49.00	1.724	9.439
%RSD	.1735821	.0436286	.3400628	.0820550	.1914206
#1	2931.504	64794.96	14356.24	2101.661	4922.283
#2	2934.229	64850.19	14414.16	2099.367	4929.693
#3	2941.371	64833.15	14453.66	2102.743	4941.025

Sample Name: P4508-04 Acquired: 10/25/2024 1:10:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005414	-.006485	.0020188	.0017929	.0014957	1.117083	.4923015
Stddev	.002756	.001365	.0017957	.0013865	.0006864	.007129	.0024567
%RSD	50.91167	21.05287	88.95124	77.33406	45.88801	.6382071	.4990255
#1	-.008314	-.007762	.0022938	.0004745	.0011547	1.111584	.4928361
#2	-.005099	-.006647	.0036611	.0032387	.0022858	1.114527	.4944469
#3	-.002828	-.005046	.0001014	.0016655	.0010467	1.125138	.4896215

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002786	.0001755	11.21550	.0033508	.0082078	.0457730	3.624744
Stddev	.0000452	.0000444	.02982	.0000166	.0000632	.0004325	.005133
%RSD	16.20354	25.33001	.2658513	.4960518	.7699078	.9449354	.1415965
#1	.0003193	.0001375	11.18339	.0033353	.0081940	.0460744	3.620909
#2	.0002865	.0001646	11.24232	.0033486	.0082768	.0459672	3.622749
#3	.0002301	.0002243	11.22077	.0033683	.0081527	.0452774	3.630574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.126267	3.599304	.0065539	.0006565	340.5480	.0000057	.2791819
Stddev	.010474	.014271	.0001797	.0002193	2.7797	.0014738	.0015654
%RSD	.3350311	.3964973	2.742229	33.40910	.8162370	25902.88	.5606989
#1	3.137691	3.614647	.0063755	.0009051	337.6973	-.001408	.2808382
#2	3.123994	3.586426	.0065511	.0005744	343.2507	.001533	.2789805
#3	3.117117	3.596838	.0067349	.0004901	340.6961	-.000108	.2777269

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.562618	.0878904	.0004170	-.000790	.0474445	2.401924	.0502815
Stddev	.004147	.0010423	.0000454	.000613	.0060275	.001137	.0026333
%RSD	.2653779	1.185948	10.88667	77.54472	12.70442	.0473227	5.237103
#1	1.558609	.0890531	.0003829	-.000712	.0409964	2.402180	.0472475
#2	1.566890	.0875782	.0003996	-.000220	.0529375	2.402911	.0519729
#3	1.562357	.0870398	.0004685	-.001439	.0483996	2.400681	.0516242

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4508-04 Acquired: 10/25/2024 1:10:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.531207	.0040725	.0781613
Stddev	.003827	.0010215	.0003826
%RSD	.2499383	25.08243	.4895147
#1	1.530226	.0049197	.0783637
#2	1.535429	.0029382	.0784003
#3	1.527966	.0043596	.0777200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2656.615	55976.95	13769.97	1872.693	4012.995
Stddev	3.322	95.10	28.08	2.300	.543
%RSD	.1250530	.1699000	.2038954	.1228027	.0135432
#1	2655.489	55868.08	13738.47	1870.756	4013.113
#2	2654.002	56043.89	13779.09	1875.234	4012.402
#3	2660.354	56018.88	13792.36	1872.088	4013.469

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4508-08 Acquired: 10/25/2024 1:15:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007920	-.009522	.0000296	.0027528	.0020951	-.020335	.3400044
Stddev	.000968	.000821	.0006086	.0010879	.0003313	.002255	.0012959
%RSD	12.22300	8.625474	2056.824	39.52037	15.81359	11.09014	.3811497
#1	-.006965	-.008603	-.000098	.0024256	.0023745	-.021212	.3386904
#2	-.008901	-.010184	.000692	.0018660	.0021817	-.022020	.3400413
#3	-.007893	-.009780	-.000505	.0039667	.0017291	-.017773	.3412814

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000144	.0003991	107.6073	.0077879	.0031468	.0083030	.9467035
Stddev	.000015	.0000286	.6144	.0000910	.0000810	.0003512	.0068433
%RSD	10.25240	7.160714	.5710057	1.168438	2.574713	4.230293	.7228500
#1	-.000152	.0003829	106.9732	.0076981	.0030657	.0081592	.9507896
#2	-.000152	.0003823	107.6487	.0078800	.0031470	.0087034	.9505177
#3	-.000127	.0004321	108.2000	.0077855	.0032278	.0080465	.9388032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.078918	2.517005	.0122732	.0002260	344.1126	-.000726	.0302338
Stddev	.022104	.029542	.0001652	.0000292	2.7474	.002852	.0003257
%RSD	.7179135	1.173693	1.345926	12.92504	.7983995	393.0383	1.077274
#1	3.053825	2.482957	.0121195	.0002347	346.8236	-.002018	.0302280
#2	3.087422	2.532222	.0122524	.0001935	344.1839	-.002703	.0305623
#3	3.095507	2.535836	.0124479	.0002500	341.3302	.002544	.0299110

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.045981	.0059086	.0008405	-.002940	-.001279	.4093838	.0007503
Stddev	.013089	.0003124	.0000466	.000374	.000530	.0019465	.0015702
%RSD	1.251352	5.286540	5.543156	12.73725	41.44364	.4754755	209.2927
#1	1.031887	.0056416	.0008902	-.002934	-.001666	.4104495	.0021932
#2	1.048302	.0062521	.0007978	-.003317	-.001497	.4071371	.0009796
#3	1.057755	.0058322	.0008335	-.002568	-.000675	.4105647	-.000922

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4508-08 Acquired: 10/25/2024 1:15:11 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.4123523	.0225054	.1709570
Stddev	.0037409	.0016874	.0007267
%RSD	.9072022	7.497944	.4250804
#1	.4159370	.0207297	.1702799
#2	.4126473	.0226986	.1708662
#3	.4084727	.0240880	.1717248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2564.626	56191.37	13984.68	1828.751	3806.618
Stddev	7.405	371.75	53.91	12.496	8.875
%RSD	.2887178	.6615740	.3854846	.6833305	.2331510
#1	2571.012	55800.00	14041.13	1815.691	3816.079
#2	2566.356	56234.37	13979.18	1840.595	3805.296
#3	2556.509	56539.75	13933.74	1829.967	3798.477

Sample Name: P4508-12 Acquired: 10/25/2024 1:19:37 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005684	-.004750	.0031564	.0020321	.0003585	.0060926	-.003125
Stddev	.000316	.001590	.0007288	.0009356	.0012163	.0028305	.000517
%RSD	5.553879	33.46864	23.09075	46.04046	339.2399	46.45859	16.53882
#1	-.005444	-.004946	.0030725	.0013833	.0004424	.0062393	-.002709
#2	-.006042	-.003071	.0024732	.0031046	-.000898	.0031915	-.002963
#3	-.005568	-.006232	.0039236	.0016085	.001531	.0088469	-.003704

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000099	-.000062	.0710049	.0038520	-.000019	.0003648	.3456516
Stddev	.000022	.000059	.0037541	.0001828	.000148	.0000692	.0025076
%RSD	22.40569	95.31638	5.287078	4.746471	777.2488	18.96134	.7254684
#1	-.000116	-.000032	.0734506	.0039792	.000106	.0003248	.3471744
#2	-.000107	-.000130	.0666826	.0039342	.000020	.0004446	.3427574
#3	-.000074	-.000023	.0728817	.0036425	-.000183	.0003249	.3470229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256148	.0018298	.0066480	.0007447	.0385339	-.002280	.0097962
Stddev	.0003586	.0119244	.0001545	.0001164	.0029803	.001144	.0001633
%RSD	1.400088	651.6743	2.323629	15.62859	7.734316	50.18790	1.667388
#1	.0252568	-.001481	.0064725	.0006589	.0352110	-.002562	.0098741
#2	.0256137	-.008090	.0067634	.0008771	.0409707	-.003257	.0099061
#3	.0259741	.015060	.0067082	.0006980	.0394201	-.001021	.0096085

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113260	-.000983	.0002932	-.001392	-.000145	.0007134	.0004076
Stddev	.0094913	.000312	.0001708	.000509	.000421	.0028933	.0018551
%RSD	83.80169	31.74701	58.24818	36.57981	289.6045	405.5729	455.1867
#1	.0038431	-.000636	.0001248	-.001880	-.000574	-.000084	.0023122
#2	.0081326	-.001073	.0004662	-.001430	.000267	.003922	.0003041
#3	.0220021	-.001240	.0002886	-.000864	-.000128	-.001698	-.001394

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4508-12 Acquired: 10/25/2024 1:19:37 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0607032	.0017916	-.000113
Stddev	.0004901	.0009695	.000018
%RSD	.8073541	54.11258	16.30165
#1	.0604124	.0020704	-.000113
#2	.0604281	.0007133	-.000132
#3	.0612690	.0025912	-.000095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2891.722	64395.53	14048.02	2078.836	4837.016
Stddev	5.341	106.01	46.39	8.364	3.657
%RSD	.1846975	.1646155	.3302366	.4023187	.0756051
#1	2889.479	64389.34	14098.10	2072.631	4837.676
#2	2897.819	64504.49	14039.45	2075.529	4840.298
#3	2887.868	64292.75	14006.51	2088.347	4833.074

Sample Name: P4511-02 Acquired: 10/25/2024 1:23:58 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006818	-.006675	.0042649	.0030623	.0016440	.0037911	.1155185
Stddev	.001300	.001642	.0004802	.0010910	.0005246	.0018629	.0009103
%RSD	19.07456	24.60115	11.25841	35.62538	31.90693	49.13803	.7879738
#1	-.008319	-.008231	.0040395	.0023297	.0021580	.0023560	.1151140
#2	-.006082	-.004959	.0039390	.0043161	.0016646	.0031209	.1165610
#3	-.006052	-.006836	.0048163	.0025411	.0011095	.0058963	.1148807

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000120	.0000540	16.20691	.0014124	.0004198	.0044038	.0355619
Stddev	.000028	.0000691	.09926	.0005336	.0000569	.0003648	.0020859
%RSD	23.56452	128.0033	.6124392	37.78127	13.55570	8.283274	5.865601
#1	-.000093	.0000095	16.14387	.0010242	.0003659	.0039972	.0377935
#2	-.000150	.0001336	16.32132	.0011920	.0004141	.0045119	.0336612
#3	-.000117	.0000188	16.15553	.0020209	.0004793	.0047023	.0352310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156492	.1657589	.0015336	.0005534	305.8450	-.002416	.1757235
Stddev	.0000976	.0035272	.0001498	.0000314	.6524	.001118	.0005699
%RSD	.6238483	2.127897	9.770701	5.668239	.2132951	46.27807	.3243318
#1	.0155805	.1631742	.0016745	.0005280	306.5960	-.001577	.1762796
#2	.0157609	.1697771	.0015501	.0005437	305.4180	-.003685	.1751406
#3	.0156061	.1643252	.0013762	.0005884	305.5212	-.001986	.1757502

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.547245	.0369704	.0010490	-.001478	-.000391	.0622005	.0292512
Stddev	.013011	.0004427	.0002016	.000173	.000284	.0020199	.0013235
%RSD	.8409177	1.197539	19.21854	11.68321	72.45757	3.247393	4.524549
#1	1.538632	.0368769	.0009957	-.001322	-.000116	.0636044	.0278299
#2	1.562213	.0374524	.0008794	-.001449	-.000376	.0598856	.0294757
#3	1.540891	.0365819	.0012719	-.001664	-.000682	.0631115	.0304481

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4511-02 Acquired: 10/25/2024 1:23:58 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6308213	.0073233	.0099267
Stddev	.0094387	.0011258	.0000976
%RSD	1.496256	15.37283	.9827977
#1	.6378919	.0070594	.0099260
#2	.6344690	.0085576	.0100245
#3	.6201031	.0063528	.0098294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2641.903	54577.63	13203.71	1851.341	4008.549
Stddev	25.862	152.60	62.93	5.980	41.783
%RSD	.9789210	.2796018	.4766193	.3229993	1.042342
#1	2619.879	54431.28	13207.46	1844.669	3973.915
#2	2635.449	54565.81	13138.98	1853.135	3996.779
#3	2670.381	54735.79	13264.68	1856.218	4054.955

Sample Name: P4513-01 Acquired: 10/25/2024 1:28:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.005677	-.006244	.0059007	.0017991	.0011812	.0025351	-.003511
Stddev	.002068	.000642	.0005458	.0001876	.0008003	.0028632	.000367
%RSD	36.43524	10.28790	9.250159	10.42918	67.75358	112.9430	10.44017
#1	-.005267	-.006751	.0054919	.0015870	.0020453	.0034119	-.003825
#2	-.007920	-.006459	.0056898	.0018670	.0010328	-.000664	-.003600
#3	-.003845	-.005522	.0065206	.0019434	.0004655	.004857	-.003108

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000162	-.000133	.0097462	.0015442	-.000128	.0020362	.0414070
Stddev	.000062	.000016	.0061501	.0003447	.000066	.0002082	.0019769
%RSD	38.17547	12.27319	63.10282	22.32328	51.45031	10.22394	4.774393
#1	-.000221	-.000148	.0109431	.0019396	-.000169	.0019632	.0407601
#2	-.000168	-.000137	.0030856	.0013858	-.000052	.0022710	.0398345
#3	-.000098	-.000116	.0152100	.0013071	-.000164	.0018743	.0436263

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181291	.0007336	-.000077	.0006179	.0491779	-.001224	.0313384
Stddev	.0002172	.0014918	.000244	.0002631	.0061939	.000904	.0004011
%RSD	1.197832	203.3421	315.0039	42.58223	12.59482	73.80580	1.279768
#1	.0182485	.0018381	-.000101	.0005350	.0563299	-.001764	.0310131
#2	.0178784	.0013263	.000178	.0009125	.0456361	-.000181	.0317865
#3	.0182602	-.000963	-.000309	.0004062	.0455678	-.001729	.0312157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017218	-.000260	.0005185	.0000454	.0000571	.0073059	.0018478
Stddev	.011250	.000233	.0001582	.0004030	.0003422	.0022190	.0009013
%RSD	65.33674	89.71475	30.51612	887.4806	599.6871	30.37284	48.77748
#1	-.004755	-.000121	.0003384	-.000343	.0001707	.0053201	.0009360
#2	-.026622	-.000529	.0006351	.000017	.0003280	.0097011	.0018692
#3	-.020277	-.000130	.0005819	.000462	-.000327	.0068965	.0027383

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4513-01 Acquired: 10/25/2024 1:28:24 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0598285	.0019114	-.000056
Stddev	.0003977	.0010774	.000013
%RSD	.6647343	56.36600	24.03993
#1	.0602082	.0029391	-.000053
#2	.0598623	.0020047	-.000070
#3	.0594149	.0007904	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2936.405	63055.80	14479.75	2054.977	4932.883
Stddev	2.664	78.82	58.99	3.324	2.611
%RSD	.0907095	.1250072	.4073989	.1617542	.0529333
#1	2939.126	63041.82	14419.56	2051.259	4933.262
#2	2936.289	63140.68	14482.23	2056.010	4930.103
#3	2933.802	62984.89	14537.46	2057.662	4935.283

Sample Name: P4513-02 Acquired: 10/25/2024 1:32:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.008865	-.007399	-.000163	.0051442	.0093685	.0356006	.1656261
Stddev	.000906	.000499	.000706	.0009793	.0004973	.0024117	.0007284
%RSD	10.21997	6.745865	432.0957	19.03683	5.307754	6.774210	.4397682
#1	-.007820	-.007961	.000028	.0040184	.0096635	.0328269	.1662360
#2	-.009435	-.007009	.000427	.0057994	.0087944	.0367730	.1658226
#3	-.009340	-.007227	-.000945	.0056147	.0096476	.0372019	.1648196

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000102	.0000333	1.129239	.0017202	-.000031	.0040882	.1423689
Stddev	.000041	.0000642	.007040	.0003398	.000180	.0002922	.0046819
%RSD	39.82003	192.8856	.6234657	19.75609	587.5288	7.147137	3.288595
#1	-.000063	.0000244	1.121695	.0017574	.000071	.0038734	.1437980
#2	-.000144	.0001014	1.135635	.0013633	.000075	.0044209	.1461697
#3	-.000101	-.000026	1.130387	.0020400	-.000239	.0039702	.1371389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0437982	.1375391	.0010922	.0005113	287.0120	-.001545	.4683668
Stddev	.0001464	.0061671	.0000723	.0002707	1.8950	.002040	.0015603
%RSD	.3343469	4.483874	6.620257	52.95320	.6602659	131.9927	.3331446
#1	.0439623	.1336964	.0010291	.0005749	284.9496	-.003602	.4697473
#2	.0437516	.1446525	.0011711	.0007446	288.6766	-.001511	.4666739
#3	.0436808	.1342683	.0010764	.0002144	287.4097	.000477	.4686793

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.232099	.2184820	.0768769	.0005563	.0003921	.0618411	.0650718
Stddev	.055776	.0006105	.0003191	.0004944	.0002674	.0036266	.0001886
%RSD	.6775399	.2794215	.4151004	88.86660	68.21135	5.864403	.2897592
#1	8.251368	.2187731	.0767862	.0003540	.0002205	.0656578	.0649804
#2	8.275686	.2177804	.0766129	.0001952	.0007002	.0614250	.0649463
#3	8.169244	.2188924	.0772315	.0011198	.0002554	.0584405	.0652886

Sample Name: P4513-02 Acquired: 10/25/2024 1:32:43 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.024033	.0060335	.0063632
Stddev	.004623	.0003079	.0000314
%RSD	.4514616	5.103359	.4942889
#1	1.029205	.0062371	.0063942
#2	1.020303	.0056792	.0063642
#3	1.022591	.0061841	.0063313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2560.718	56230.74	13758.90	1825.688	3949.259
Stddev	8.857	131.27	40.55	6.411	8.491
%RSD	.3458902	.2334567	.2947139	.3511530	.2150128
#1	2551.625	56083.09	13725.16	1818.877	3939.754
#2	2561.208	56274.86	13803.88	1826.579	3951.926
#3	2569.319	56334.27	13747.66	1831.606	3956.096

Sample Name: P4513-03 Acquired: 10/25/2024 1:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.011704	-.003901	.0157584	.0107373	.0738645	.1607747	.1037794
Stddev	.002272	.001939	.0007985	.0017165	.0007991	.0029150	.0004786
%RSD	19.41514	49.70435	5.066869	15.98591	1.081901	1.813097	.4611625
#1	-.009080	-.003194	.0149221	.0090189	.0743364	.1595458	.1032362
#2	-.013031	-.002415	.0165127	.0107412	.0743154	.1641030	.1041389
#3	-.013001	-.006094	.0158404	.0124517	.0729418	.1586755	.1039630

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000082	.0010694	8.891490	.0076301	.0005473	.0143713	.3263168
Stddev	.000032	.0001210	.015636	.0003273	.0001318	.0000671	.0015313
%RSD	39.07694	11.31802	.1758574	4.289627	24.08357	.4668281	.4692717
#1	-.000075	.0010007	8.877356	.0074487	.0006719	.0142946	.3246253
#2	-.000054	.0009984	8.908286	.0074338	.0004093	.0144189	.3276086
#3	-.000118	.0012092	8.888826	.0080080	.0005608	.0144004	.3267164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877687	1.511570	.0117243	.0007872	338.8104	.0001383	3.260400
Stddev	.0004343	.002758	.0003363	.0002411	3.4960	.0004145	.005974
%RSD	.4948550	.1824438	2.868429	30.62444	1.031843	299.6305	.1832351
#1	.0880159	1.513254	.0119820	.0007583	342.6678	.0002316	3.265944
#2	.0872672	1.508388	.0118470	.0005619	335.8510	.0004983	3.261183
#3	.0880230	1.513069	.0113439	.0010415	337.9124	-.000315	3.254073

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.39947	.2080188	.4054030	.0029631	.0002351	.2560621	1.534079
Stddev	.06674	.0010144	.0006159	.0003663	.0003265	.0080562	.010242
%RSD	.3627266	.4876616	.1519159	12.36267	138.8774	3.146175	.6676279
#1	18.46590	.2071389	.4051728	.0025558	.0005707	.2571459	1.545905
#2	18.33243	.2077892	.4061008	.0030678	-.000082	.2475189	1.528127
#3	18.40009	.2091284	.4049354	.0032656	.000216	.2635215	1.528204

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4513-03 Acquired: 10/25/2024 1:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	4.337100	.0295279	.0282824
Stddev	.005703	.0008991	.0000539
%RSD	.1314859	3.044843	.1903965
#1	4.343557	.0305164	.0282694
#2	4.332752	.0287588	.0282363
#3	4.334991	.0293085	.0283416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2544.862	55570.78	13807.76	1781.092	3956.805
Stddev	8.651	307.16	19.66	16.718	15.381
%RSD	.3399217	.5527283	.1423755	.9386492	.3887296
#1	2536.777	55218.91	13808.21	1762.582	3940.811
#2	2543.825	55708.22	13787.88	1785.598	3958.113
#3	2553.984	55785.21	13827.19	1795.095	3971.490

Sample Name: P4515-02 Acquired: 10/25/2024 1:41:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003918	-.004506	-.000086	-.002841	.0024832	.0414626	.3849207
Stddev	.002208	.000945	.000720	.001502	.0005920	.0022663	.0054083
%RSD	56.35120	20.96667	833.0136	52.88625	23.83991	5.465834	1.405043
#1	-.004451	-.005536	-.000497	-.002408	.0023476	.0434077	.3911261
#2	-.005810	-.003679	.000745	-.001602	.0031312	.0389740	.3824259
#3	-.001492	-.004304	-.000507	-.004512	.0019707	.0420059	.3812101

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001260	.0004785	33.42975	.0025130	.0145604	.0024814	34.54405
Stddev	.0000591	.0000163	.43205	.0000976	.0000623	.0000917	.12231
%RSD	46.93634	3.402421	1.292415	3.884166	.4281314	3.696174	.3540723
#1	.0000682	.0004966	33.92858	.0025893	.0145053	.0023897	34.54320
#2	.0001864	.0004738	33.17372	.0025466	.0145479	.0025732	34.42217
#3	.0001232	.0004651	33.18695	.0024030	.0146281	.0024814	34.66678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.720987	5.799006	.0102048	.0014508	305.7425	.0033443	.3402766
Stddev	.059839	.075891	.0003420	.0002333	1.6647	.0002760	.0014112
%RSD	1.608150	1.308688	3.351592	16.08062	.5444935	8.251950	.4147233
#1	3.789892	5.882045	.0103281	.0011878	304.2983	.0030425	.3387536
#2	3.682083	5.733241	.0098182	.0015315	305.3657	.0035839	.3405362
#3	3.690987	5.781733	.0104680	.0016329	307.5633	.0034066	.3415399

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.176267	.1432575	.0003913	-.002722	-.000234	2.574096	1.174972
Stddev	.026746	.0011303	.0000887	.000501	.000407	.014688	.000969
%RSD	.6404350	.7889694	22.66143	18.40802	173.5494	.5706028	.0824791
#1	4.155334	.1444990	.0004876	-.002629	-.000486	2.558670	1.174752
#2	4.167068	.1429851	.0003130	-.003263	.000235	2.575704	1.176032
#3	4.206399	.1422883	.0003732	-.002274	-.000452	2.587914	1.174131

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4515-02 Acquired: 10/25/2024 1:41:32 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.840882	.0094556	.1106139
Stddev	.013730	.0005723	.0021257
%RSD	.7458420	6.052171	1.921721
#1	1.828183	.0087948	.1130587
#2	1.839012	.0097870	.1095812
#3	1.855451	.0097851	.1092019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.985	57162.15	13457.17	1906.087	4003.222
Stddev	6.795	149.52	175.74	5.497	2.081
%RSD	.2567187	.2615713	1.305885	.2883757	.0519808
#1	2640.580	57263.31	13254.55	1905.118	4001.583
#2	2646.264	57232.74	13548.95	1912.004	4002.520
#3	2654.113	56990.41	13568.01	1901.139	4005.563

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV15 Acquired: 10/25/2024 1:45:54 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.892327	5.161689	4.795337	4.997061	4.917124	9.427709	9.099547
Stddev	.016521	.082512	.003502	.036633	.018100	.016925	.027586
%RSD	.3376956	1.598550	.0730353	.7330878	.3680951	.1795287	.3031553
#1	4.873424	5.068835	4.793464	4.958092	4.904266	9.436125	9.076425
#2	4.899552	5.189625	4.799378	5.002298	4.909284	9.408226	9.130082
#3	4.904005	5.226607	4.793170	5.030794	4.937822	9.438777	9.092133

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2380496	2.387966	22.97967	.9259466	2.388950	1.221176	4.512169
Stddev	.0008394	.004159	.02972	.0035863	.000702	.002064	.028556
%RSD	.3526002	.1741739	.1293206	.3873091	.0293934	.1690066	.6328588
#1	.2387392	2.392721	22.96715	.9224375	2.389761	1.220276	4.480310
#2	.2371149	2.386174	22.95825	.9296053	2.388533	1.219714	4.520738
#3	.2382946	2.385003	23.01359	.9257971	2.388557	1.223537	4.535459

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.467992	25.35776	2.419427	1.210817	22.70565	2.637801	2.435654
Stddev	.010506	.17335	.003079	.001760	.01198	.010970	.002087
%RSD	.4256762	.6836178	.1272472	.1453605	.0527579	.4158759	.0856764
#1	2.460917	25.24598	2.422429	1.210305	22.71029	2.629841	2.437099
#2	2.462995	25.26985	2.419575	1.209370	22.71462	2.633248	2.436601
#3	2.480063	25.55745	2.416277	1.212777	22.69205	2.650314	2.433261

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.18593	4.705091	4.901764	4.721742	4.519421	4.820774	4.963587
Stddev	.14672	.018989	.011122	.003584	.011727	.043804	.008197
%RSD	.5825474	.4035864	.2269023	.0759078	.2594707	.9086532	.1651434
#1	25.06294	4.723638	4.890993	4.725823	4.516788	4.776886	4.958782
#2	25.14652	4.685689	4.901091	4.719105	4.509235	4.820940	4.973052
#3	25.34833	4.705946	4.913207	4.720298	4.532241	4.864494	4.958928

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV15 Acquired: 10/25/2024 1:45:54 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV15 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.715681	4.601989	4.664375
Stddev	.017072	.022380	.005270
%RSD	.3620326	.4863123	.1129878
#1	4.696808	4.598972	4.663327
#2	4.730048	4.581271	4.659708
#3	4.720188	4.625725	4.670091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2768.319	59981.32	12965.36	2002.392	4167.884
Stddev	6.309	115.53	26.38	2.954	.172
%RSD	.2278952	.1926034	.2034537	.1475283	.0041316
#1	2774.417	60114.64	12939.09	1998.986	4167.695
#2	2768.722	59918.68	12991.84	2003.925	4167.926
#3	2761.818	59910.64	12965.15	2004.264	4168.032

Sample Name: CCB15 Acquired: 10/25/2024 1:50:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000341	-.000929	.0002307	-.000936	.0009643	.0017122	-.003535
Stddev	.0006020	.000521	.0004478	.000770	.0008084	.0018036	.000292
%RSD	1764.181	56.06595	194.1375	82.22211	83.83110	105.3362	8.261656
#1	-.000289	-.001386	-.000167	-.001459	.0002563	.0031101	-.003217
#2	-.000337	-.001039	.000716	-.000052	.0018450	.0023502	-.003792
#3	.000729	-.000362	.000143	-.001298	.0007915	-.000324	-.003596

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000306	.0000943	.0014948	.0004867	.0000795	-.000209	-.001031
Stddev	.0000243	.0000276	.0042608	.0003477	.0001017	.000053	.000895
%RSD	79.39475	29.21687	285.0374	71.44086	127.9278	25.55036	86.79151
#1	.0000242	.0001255	.0063931	.0001088	-.000004	-.000231	-.000544
#2	.0000574	.0000842	-.000555	.0005581	.000193	-.000248	-.000485
#3	.0000101	.0000732	-.001354	.0007931	.000050	-.000148	-.002063

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001248	.0059857	.0000317	.0009342	.3534366	-.002446	.0002343
Stddev	.0001759	.0021560	.0000546	.0000694	.0219635	.000059	.0001946
%RSD	140.9604	36.01926	172.0151	7.426214	6.214281	2.399224	83.06503
#1	.0000433	.0071636	.0000207	.0010091	.3303712	-.002398	.0000447
#2	.0000044	.0034973	.0000910	.0008722	.3558377	-.002512	.0004335
#3	.0003267	.0072962	-.000016	.0009211	.3741010	-.002428	.0002246

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735816	.0021928	.0001857	.0035071	-.000159	.0008579	-.002367
Stddev	.0070353	.0001684	.0001284	.0001323	.000264	.0009865	.001450
%RSD	9.561175	7.679590	69.16173	3.773016	166.4944	114.9973	61.26499
#1	.0656651	.0023531	.0000570	.0033553	-.000330	.0012561	-.000854
#2	.0791183	.0020173	.0003139	.0035983	-.000291	-.000266	-.003745
#3	.0759616	.0022081	.0001861	.0035677	.000146	.001583	-.002501

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB15 Acquired: 10/25/2024 1:50:20 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB15 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003211	.0014365	.0000287
Stddev	.001996	.0005311	.0000285
%RSD	62.15304	36.97408	99.17109
#1	-.002911	.0011065	.0000297
#2	-.005340	.0020492	-.000000
#3	-.001382	.0011538	.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3055.678	62940.68	14354.22	2119.335	5007.320
Stddev	1.131	209.20	83.40	9.710	3.721
%RSD	.0369979	.3323798	.5809970	.4581720	.0743117
#1	3056.902	62964.00	14263.50	2112.218	5003.961
#2	3055.459	62720.79	14371.61	2115.391	5011.320
#3	3054.673	63137.24	14427.55	2130.397	5006.680

Sample Name: PB164372BS Acquired: 10/25/2024 1:54:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7202311	1.979854	.8869710	1.858305	.7655762	1.801986
Stddev	.0038478	.021674	.0022683	.009105	.0018095	.006211
%RSD	.5342479	1.094721	.2557400	.4899616	.2363535	.3446929
#1	.7165376	1.954873	.8852119	1.848361	.7634940	1.794821
#2	.7199391	1.993660	.8861700	1.860319	.7667675	1.805285
#3	.7242166	1.991029	.8895312	1.866234	.7664671	1.805851

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1676574	.1841054	.1727198	.9107150	.3710930	.1871863
Stddev	.0007809	.0004601	.0001957	.0041153	.0004242	.0001561
%RSD	.4657943	.2499234	.1132803	.4518767	.1143217	.0833711
#1	.1668211	.1835856	.1725360	.9060333	.3706644	.1870405
#2	.1683676	.1844604	.1729255	.9123505	.3715127	.1873509
#3	.1677834	.1842703	.1726979	.9137611	.3711019	.1871674

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2977340	2.782254	.1713784	F 1.595529	.4738457	.0751361
Stddev	.0004114	.011295	.0007108	.011039	.0004263	.0002532
%RSD	.1381860	.4059778	.4147479	.6918741	.0899727	.3370306
#1	.2974254	2.788386	.1708777	1.587605	.4736390	.0751891
#2	.2982011	2.769219	.1721919	1.608138	.4743359	.0748605
#3	.2975756	2.789156	.1710655	1.590844	.4735620	.0753586

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.909888	F .2464636	.2041170	10.18090	.2686693	.3939458
Stddev	.004222	.0012753	.0016815	.05678	.0009893	.0016047
%RSD	.1451002	.5174420	.8238120	.5577488	.3682225	.4073465
#1	2.914478	.2462286	.2021773	10.24414	.2678920	.3920976
#2	2.906170	.2478401	.2050112	10.13427	.2697829	.3949852
#3	2.909017	.2453222	.2051625	10.16431	.2683329	.3947546

Sample Name: PB164372BS Acquired: 10/25/2024 1:54:41 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6410145	.1723155	.8294446	5.353958	F -.014102	F .1684335
Stddev	.0019612	.0006237	.0023022	.018293	.002185	.0010520
%RSD	.3059591	.3619344	.2775527	.3416808	15.49748	.6245887
#1	.6389141	.1723802	.8276911	5.332989	-.012429	.1676544
#2	.6413314	.1729043	.8320516	5.362235	-.013302	.1696302
#3	.6427980	.1716620	.8285911	5.366650	-.016575	.1680160

Elem	Sr4077
Units	ppm
Avg	.1798598
Stddev	.0006446
%RSD	.3584169
#1	.1797198
#2	.1805630
#3	.1792967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.939	60728.97	13912.71	2048.362	4699.205
Stddev	3.502	230.95	15.14	4.386	6.319
%RSD	.1189800	.3802915	.1088424	.2141219	.1344704
#1	2946.588	60467.10	13909.37	2046.558	4699.732
#2	2939.607	60903.57	13899.52	2053.362	4692.639
#3	2942.620	60816.23	13929.25	2045.164	4705.244

Sample Name: P4516-01 Acquired: 10/25/2024 1:58:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006598	-.007489	.0068542	.0037220	.0016355	.0651144	.4348071
Stddev	.000576	.001328	.0013043	.0007528	.0006042	.0029474	.0048762
%RSD	8.737239	17.73521	19.02993	20.22589	36.94528	4.526503	1.121464
#1	-.006015	-.008995	.0056152	.0039659	.0015099	.0680010	.4312134
#2	-.007167	-.006990	.0082153	.0028775	.0022927	.0621098	.4328500
#3	-.006611	-.006483	.0067320	.0043227	.0011039	.0652323	.4403578

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002387	.0009744	18.64550	.0061542	.0027143	.0041034	.0553026
Stddev	.0000350	.0000986	.19118	.0003226	.0001095	.0003468	.0020724
%RSD	14.64551	10.12235	1.025356	5.241142	4.034935	8.450982	3.747421
#1	.0002039	.0008683	18.43009	.0062924	.0027239	.0037930	.0540648
#2	.0002386	.0010634	18.71135	.0063846	.0026003	.0044777	.0576951
#3	.0002738	.0009915	18.79505	.0057856	.0028187	.0040396	.0541479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8938602	6.684363	.0053381	.0006668	379.3401	-.000731	.3070339
Stddev	.0082362	.071975	.0002345	.0001789	3.8152	.001566	.0033110
%RSD	.9214239	1.076771	4.393804	26.82376	1.005755	214.2221	1.078399
#1	.8848823	6.612951	.0052700	.0007594	375.4743	-.001897	.3033858
#2	.8956319	6.683251	.0055991	.0007803	379.4435	.001049	.3098487
#3	.9010665	6.756889	.0051451	.0004606	383.1026	-.001345	.3078671

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.881486	.0828839	.0006984	-.000617	.0002242	2.950361	.0643012
Stddev	.032018	.0009961	.0000914	.001072	.0003013	.016991	.0010982
%RSD	.6559103	1.201843	13.08385	173.6121	134.4015	.5758988	1.707881
#1	4.845115	.0821467	.0007841	.000618	.0000353	2.935699	.0633051
#2	4.893925	.0824877	.0006022	-.001299	.0005716	2.968982	.0641196
#3	4.905418	.0840171	.0007088	-.001171	.0000656	2.946402	.0654788

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4516-01 Acquired: 10/25/2024 1:58:42 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.638201	.0086471	.1194025
Stddev	.008510	.0014163	.0012673
%RSD	.5194731	16.37859	1.061372
#1	1.629050	.0070123	.1182874
#2	1.645877	.0095043	.1191392
#3	1.639676	.0094245	.1207807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.167	55323.77	13744.87	1839.175	3900.447
Stddev	7.455	364.78	104.10	19.212	7.673
%RSD	.2887150	.6593550	.7573379	1.044596	.1967167
#1	2585.737	55721.62	13864.87	1858.673	3902.370
#2	2573.598	55005.04	13690.97	1820.262	3891.996
#3	2587.165	55244.66	13678.78	1838.590	3906.976

Sample Name: P4517-02 Acquired: 10/25/2024 2:03:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004391	-.008135	.0006725	.0026801	.0013615	-.024974	.1048639
Stddev	.001529	.001287	.0004709	.0014999	.0009133	.003605	.0005488
%RSD	34.82860	15.81834	70.03194	55.96303	67.08265	14.43360	.5233718
#1	-.003646	-.009203	.0004010	.0043325	.0005264	-.028899	.1042317
#2	-.006150	-.008496	.0012162	.0023031	.0012213	-.021811	.1051418
#3	-.003377	-.006706	.0004001	.0014047	.0023368	-.024214	.1052182

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.000075	172.3551	.1174612	-.000428	.0020687	.0273733
Stddev	.000020	.000056	.4347	.0008521	.000110	.0001232	.0004192
%RSD	19.17882	75.19171	.2522298	.7254155	25.60665	5.954028	1.531531
#1	-.000085	-.000129	171.8533	.1184431	-.000302	.0019865	.0268970
#2	-.000125	-.000017	172.5930	.1170247	-.000502	.0020093	.0275367
#3	-.000101	-.000078	172.6189	.1169159	-.000480	.0022103	.0276863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021837	.3175478	.0031962	.0005029	386.4367	.0106125	.0117934
Stddev	.0000642	.0018222	.0001159	.0002605	1.8285	.0015071	.0000243
%RSD	2.939784	.5738405	3.626203	51.80967	.4731607	14.20125	.2059941
#1	.0021303	.3196516	.0033237	.0004664	388.5457	.0112705	.0117659
#2	.0021658	.3165280	.0031676	.0007797	385.4679	.0116788	.0118120
#3	.0022549	.3164638	.0030973	.0002624	385.2964	.0088883	.0118024

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.746525	.0337022	.0138565	-.003531	-.004181	3.951850	-.001617
Stddev	.007997	.0004800	.0001499	.000406	.000253	.018147	.001492
%RSD	.1684719	1.424209	1.081987	11.49246	6.058261	.4591971	92.26047
#1	4.738039	.0336048	.0137742	-.003154	-.004444	3.948994	-.002622
#2	4.747618	.0342234	.0137657	-.003960	-.004160	3.971255	-.002327
#3	4.753920	.0332783	.0140295	-.003479	-.003939	3.935300	.000097

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-02 Acquired: 10/25/2024 2:03:05 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.741303	.0429120	.2978976
Stddev	.038356	.0008861	.0013448
%RSD	.6680664	2.064903	.4514391
#1	5.716154	.0437978	.2967056
#2	5.722306	.0429127	.2976316
#3	5.785450	.0420256	.2993555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2573.767	56233.17	13585.34	1856.865	3832.287
Stddev	22.610	157.24	25.61	7.834	28.579
%RSD	.8784761	.2796204	.1884997	.4218789	.7457452
#1	2576.536	56090.32	13601.28	1848.751	3842.994
#2	2594.865	56207.55	13598.94	1857.457	3853.968
#3	2549.900	56401.65	13555.80	1864.385	3799.901

Sample Name: P4517-04 Acquired: 10/25/2024 2:07:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.004312	-.007929	.0002423	.0015554	.0020923	.1148904	.2600092
Stddev	.001637	.000649	.0011234	.0001964	.0009167	.0048723	.0009705
%RSD	37.95895	8.190042	463.6283	12.62708	43.81512	4.240791	.3732491
#1	-.002890	-.007756	-.001000	.0016690	.0025072	.1182753	.2590056
#2	-.006101	-.007384	.001188	.0013286	.0027281	.1093062	.2600793
#3	-.003944	-.008647	.000539	.0016686	.0010414	.1170898	.2609427

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000131	-.000121	181.3361	.0779559	-.000576	.0062520	.0574237
Stddev	.000049	.000034	.5017	.0006931	.000086	.0001285	.0028396
%RSD	37.42733	27.74821	.2766497	.8890676	14.96867	2.055275	4.944966
#1	-.000093	-.000084	180.7669	.0778199	-.000519	.0063955	.0578651
#2	-.000114	-.000149	181.5281	.0773410	-.000534	.0062129	.0600168
#3	-.000187	-.000131	181.7135	.0787070	-.000675	.0061476	.0543893

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099259	.0131886	.0011679	.0003564	335.2501	-.002493	.0273168
Stddev	.0003060	.0086704	.0002041	.0000869	.4529	.000432	.0000206
%RSD	3.083266	65.74101	17.47764	24.39085	.1350871	17.34857	.0752844
#1	.0095767	.0102722	.0009365	.0004096	335.1545	-.002619	.0273042
#2	.0101475	.0229412	.0013226	.0004035	335.7431	-.002848	.0273057
#3	.0100536	.0063525	.0012445	.0002561	334.8526	-.002011	.0273405

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.189587	.0070610	.0102297	-.003315	-.004060	.3495715	-.000407
Stddev	.019026	.0001906	.0003066	.000265	.000349	.0042799	.001183
%RSD	.2646386	2.699577	2.997242	7.993801	8.607275	1.224322	290.2989
#1	7.170355	.0068702	.0105811	-.003059	-.003657	.3454154	-.001559
#2	7.208401	.0072514	.0100170	-.003299	-.004241	.3493338	.000805
#3	7.190004	.0070613	.0100908	-.003588	-.004282	.3539653	-.000469

Sample Name: P4517-04 Acquired: 10/25/2024 2:07:29 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	1.414221	.0411439	.2976932
Stddev	.004702	.0000673	.0013555
%RSD	.3324975	.1634801	.4553333
#1	1.414955	.0410703	.2963278
#2	1.418513	.0411592	.2977132
#3	1.409195	.0412022	.2990386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2513.581	54821.50	13450.48	1816.021	3767.921
Stddev	5.975	86.32	21.69	5.168	3.634
%RSD	.2377171	.1574619	.1612539	.2845547	.0964468
#1	2506.741	54832.31	13475.53	1814.359	3763.938
#2	2517.782	54730.27	13438.04	1811.890	3771.057
#3	2516.220	54901.90	13437.89	1821.816	3768.768

Sample Name: P4517-06 Acquired: 10/25/2024 2:11:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007500	-.008055	.0004965	.0020987	.0010041	.0912217	.1480161
Stddev	.001536	.001582	.0013233	.0021192	.0006129	.0077947	.0006969
%RSD	20.48118	19.63584	266.5401	100.9759	61.03994	8.544787	.4708551
#1	-.008890	-.006515	.0019482	.0001456	.0014217	.0873216	.1477329
#2	-.007761	-.007975	-.000642	.0017985	.0012902	.0861468	.1475053
#3	-.005851	-.009676	.000183	.0043519	.0003005	.1001966	.1488101

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000123	-.000059	150.1600	.1053083	-.000381	.0023676	.0152173
Stddev	.000022	.000031	.8695	.0004751	.000061	.0003956	.0040221
%RSD	18.01158	51.79965	.5790820	.4511191	15.98709	16.70948	26.43082
#1	-.000098	-.000033	149.7647	.1057213	-.000448	.0021568	.0188479
#2	-.000130	-.000093	149.5583	.1047891	-.000329	.0028239	.0159103
#3	-.000141	-.000051	151.1569	.1054143	-.000365	.0021220	.0108938

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098781	.0242356	-.000151	.0003725	311.7370	-.002125	.0167439
Stddev	.0000861	.0026196	.000139	.0002961	1.7212	.000896	.0001864
%RSD	.8715326	10.80872	92.10273	79.49870	.5521465	42.17339	1.113251
#1	.0099019	.0213203	.000000	.0003770	312.5587	-.002873	.0167313
#2	.0097826	.0263917	-.000181	.0006664	309.7589	-.001132	.0169364
#3	.0099497	.0249949	-.000273	.0000742	312.8935	-.002369	.0165642

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.022258	.0092276	.0109965	-.003827	-.003779	.7309842	.0025924
Stddev	.027828	.0003853	.0000707	.001143	.000264	.0041631	.0023360
%RSD	.5540980	4.175425	.6427487	29.87029	6.992207	.5695176	90.10925
#1	5.053026	.0089856	.0109602	-.004624	-.003825	.7309712	.0052439
#2	4.998849	.0096719	.0110779	-.002517	-.003495	.7268277	.0008380
#3	5.014899	.0090253	.0109513	-.004340	-.004017	.7351538	.0016952

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-06 Acquired: 10/25/2024 2:11:56 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	3.042268	.0352392	.1721563
Stddev	.004761	.0010443	.0009078
%RSD	.1564882	2.963367	.5272816
#1	3.037856	.0341383	.1722533
#2	3.047314	.0362157	.1712039
#3	3.041634	.0353636	.1730116

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.821	54260.85	13676.56	1789.661	3858.391
Stddev	8.502	60.88	54.17	6.174	11.762
%RSD	.3326521	.1121905	.3960673	.3449978	.3048405
#1	2548.007	54194.48	13722.61	1787.839	3845.796
#2	2564.875	54314.08	13690.19	1784.603	3869.090
#3	2554.580	54273.98	13616.88	1796.541	3860.287

Sample Name: P4517-08 Acquired: 10/25/2024 2:16:22 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.006724	-.008264	-.000819	.0035725	.0020466	-.027370	.0702701
Stddev	.002342	.000740	.001117	.0010597	.0010462	.004522	.0013470
%RSD	34.83085	8.954702	136.4375	29.66119	51.11715	16.52042	1.916850
#1	-.004190	-.007414	.000436	.0041503	.0022794	-.024431	.0710759
#2	-.007173	-.008613	-.001705	.0042178	.0029568	-.025103	.0687151
#3	-.008808	-.008764	-.001187	.0023496	.0009036	-.032577	.0710194

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000105	-.000085	140.8203	.0155984	-.000385	.0011231	.0082624
Stddev	.000010	.000023	2.3579	.0003765	.000192	.0003244	.0017256
%RSD	9.655196	27.74730	1.674404	2.413768	49.85681	28.88037	20.88479
#1	-.000116	-.000058	141.8219	.0159748	-.000599	.0007589	.0067218
#2	-.000099	-.000098	138.1270	.0152218	-.000325	.0013808	.0079385
#3	-.000099	-.000098	142.5121	.0155985	-.000230	.0012298	.0101270

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168813	.4982742	-.000115	.0004215	309.6413	.0006421	.0135222
Stddev	.0004742	.0074305	.000166	.0000961	4.0146	.0014877	.0002387
%RSD	2.809265	1.491243	144.5348	22.79295	1.296518	231.6748	1.765191
#1	.0172151	.4992402	-.000302	.0004895	314.2661	-.000667	.0137363
#2	.0163384	.4904080	.000015	.0003116	307.6034	.000333	.0135656
#3	.0170903	.5051744	-.000058	.0004634	307.0545	.002260	.0132648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.944426	.0250789	.0035910	-.002996	-.003201	2.850935	-.003153
Stddev	.033061	.0007396	.0001627	.001029	.000165	.049171	.001737
%RSD	1.122830	2.949032	4.529332	34.36607	5.167101	1.724734	55.09034
#1	2.979651	.0251208	.0034823	-.002993	-.003386	2.907290	-.002094
#2	2.914069	.0243193	.0035127	-.004026	-.003067	2.816768	-.002207
#3	2.939559	.0257967	.0037780	-.001967	-.003150	2.828745	-.005158

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: P4517-08 Acquired: 10/25/2024 2:16:22 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.230536	.0373215	.4677452
Stddev	.037975	.0009509	.0069095
%RSD	.5252007	2.547926	1.477195
#1	7.194849	.0378293	.4700627
#2	7.270446	.0362245	.4599748
#3	7.226314	.0379107	.4731979

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2541.648	55216.99	13668.79	1782.798	3846.567
Stddev	9.145	1018.12	194.59	40.996	12.316
%RSD	.3598194	1.843853	1.423594	2.299541	.3201914
#1	2545.793	54049.90	13571.00	1735.872	3852.368
#2	2531.164	55922.97	13892.87	1811.658	3832.421
#3	2547.987	55678.09	13542.48	1800.865	3854.911

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164335TB Acquired: 10/25/2024 2:20:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.007347	-.008316	.0000714	.0041738	.0021370	.0003812
Stddev	.000656	.000665	.0005982	.0004643	.0010477	.0035252
%RSD	8.925279	7.993796	838.0883	11.12490	49.02756	924.7419
#1	-.008042	-.007756	-.000559	.0036588	.0018414	-.003688
#2	-.007261	-.009051	.000142	.0043020	.0033008	.002311
#3	-.006739	-.008142	.000631	.0045605	.0012689	.002520

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004400	-.000098	-.000044	.0022615	.0007291	-.000103
Stddev	.000524	.000022	.000046	.0005086	.0005355	.000167
%RSD	11.89862	22.09305	104.9223	22.48752	73.43858	162.2862
#1	-.004031	-.000092	-.000014	.0020243	.0011850	.000071
#2	-.004999	-.000080	-.000021	.0028453	.0008629	-.000262
#3	-.004171	-.000122	-.000098	.0019149	.0001394	-.000119

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000853	.0050622	.0008099	-.008844	.0001778	.0004665
Stddev	.0001968	.0048079	.0001275	.010649	.0001561	.0001412
%RSD	230.6135	94.97685	15.74514	120.4090	87.77720	30.27488
#1	.0002274	.0013715	.0008736	.001411	.0000475	.0004536
#2	-.000139	.0104992	.0006631	-.008095	.0003508	.0003322
#3	.000168	.0033158	.0008931	-.019847	.0001351	.0006138

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 285.2071	-.002718	.0017824	.0589629	-.001795	.0005508
Stddev	.5981	.001322	.0001723	.0058282	.000342	.0001396
%RSD	.2097120	48.62966	9.665526	9.884458	19.03054	25.34535
#1	284.5337	-.001230	.0016473	.0644122	-.001454	.0004767
#2	285.6767	-.003756	.0017234	.0596582	-.002138	.0007118
#3	285.4110	-.003168	.0019764	.0528182	-.001792	.0004639

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164335TB Acquired: 10/25/2024 2:20:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0002403	-.000399	.0008916	-.003484	.0023620	.0023116
Stddev	.0006810	.000227	.0030270	.001974	.0018776	.0013660
%RSD	283.4275	57.04426	339.4911	56.66558	79.48941	59.09190
#1	.0002493	-.000321	.0043811	-.004272	.0039837	.0008260
#2	-.000445	-.000655	-.001028	-.004944	.0027973	.0035134
#3	.000917	-.000220	-.000678	-.001238	.0003051	.0025954

Elem	Sr4077
Units	ppm
Avg	-.000035
Stddev	.000022
%RSD	64.07415
#1	-.000046
#2	-.000049
#3	-.000009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2719.225	58655.02	13890.62	1948.626	4152.590
Stddev	3.994	43.12	12.09	8.397	9.734
%RSD	.1468763	.0735113	.0870581	.4309151	.2344067
#1	2723.459	58684.06	13893.04	1954.238	4161.929
#2	2718.691	58605.48	13901.31	1938.972	4153.336
#3	2715.525	58675.52	13877.49	1952.667	4142.504

Sample Name: PB164377BL Acquired: 10/25/2024 2:25:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.0007022	.0006825	-.000201	-.000690	.0006388	.0014366	-.003060
Stddev	.0018276	.0006995	.000396	.000999	.0001314	.0013599	.000144
%RSD	260.2865	102.5014	196.9732	144.7665	20.56690	94.66156	4.710362
#1	-.001404	.0014788	-.000649	-.000346	.0004921	-.000116	-.003000
#2	.001637	.0004016	.000105	.000091	.0006786	.002011	-.002956
#3	.001873	.0001670	-.000059	-.001815	.0007456	.002415	-.003225

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000597	.0000489	.0004020	.0001882	.0001274	-.000167	-.001026
Stddev	.0000377	.0000219	.0036128	.0002212	.0001027	.000421	.000923
%RSD	63.12521	44.82209	898.7769	117.4974	80.64619	253.0581	89.92707
#1	.0000612	.0000603	.0017790	.0001632	.0001986	-.000071	.000029
#2	.0000213	.0000237	-.003697	.0004208	.0001740	.000199	-.001684
#3	.0000966	.0000629	.003124	-.000019	.0000096	-.000628	-.001423

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002020	-.007941	-.000064	.0006539	.6538922	-.002941	.0002601
Stddev	.0000522	.016513	.000103	.0000685	.0252249	.000682	.0001708
%RSD	25.85147	207.9345	161.3853	10.47364	3.857650	23.18849	65.64313
#1	.0002243	-.027008	.000025	.0007330	.6313562	-.002159	.0000937
#2	.0001423	.001766	-.000040	.0006143	.6491793	-.003252	.0004349
#3	.0002393	.001417	-.000176	.0006144	.6811411	-.003412	.0002518

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1034883	-.001336	-.000031	.0042286	-.000010	.0004650	-.002703
Stddev	.0097530	.000272	.000093	.0006546	.000272	.0047629	.001963
%RSD	9.424279	20.38882	300.8897	15.47887	2650.858	1024.278	72.62542
#1	.0952972	-.001486	.000074	.0047095	.000203	-.001389	-.004513
#2	.1008906	-.001500	-.000105	.0034832	-.000316	-.003092	-.000616
#3	.1142772	-.001022	-.000061	.0044932	.000082	.005876	-.002979

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: PB164377BL Acquired: 10/25/2024 2:25:16 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	-.003484	.0010397	-.000009
Stddev	.001818	.0012580	.000028
%RSD	52.19401	120.9941	311.1361
#1	-.005292	.0018953	-.000041
#2	-.001656	-.000405	.000009
#3	-.003503	.001629	.000005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.018	64042.64	14112.73	2168.766	4878.377
Stddev	5.293	43.79	48.06	9.375	6.033
%RSD	.1753097	.0683831	.3405714	.4322519	.1236623
#1	3012.907	64092.08	14126.35	2177.765	4873.713
#2	3022.144	64027.14	14059.32	2169.478	4876.226
#3	3022.004	64008.70	14152.51	2159.057	4885.190

Sample Name: PB164377BS Acquired: 10/25/2024 2:29:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.7184363	1.979635	.8907076	1.847830	.7604627	1.808802
Stddev	.0035072	.046339	.0020198	.005925	.0036644	.001715
%RSD	.4881705	2.340807	.2267643	.3206699	.4818655	.0947890
#1	.7171783	1.928850	.8886284	1.841031	.7562351	1.810432
#2	.7157316	1.990433	.8908321	1.850569	.7627306	1.807014
#3	.7223990	2.019622	.8926622	1.851891	.7624224	1.808959

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1676031	.1862136	.1737554	.9244826	.3673866	.1877948
Stddev	.0001508	.0007096	.0003301	.0018617	.0004297	.0002690
%RSD	.0899931	.3810892	.1899590	.2013721	.1169664	.1432539
#1	.1677621	.1857406	.1736608	.9227275	.3677660	.1878089
#2	.1675850	.1870296	.1734830	.9242853	.3669200	.1875190
#3	.1674621	.1858707	.1741225	.9264350	.3674739	.1880565

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2971089	2.669268	.1724989	1.632579	.4759292	.0735937
Stddev	.0002485	.012086	.0005387	.005758	.0009293	.0005416
%RSD	.0836463	.4527848	.3123107	.3527033	.1952696	.7358822
#1	.2968248	2.662329	.1723450	1.626027	.4758292	.0732000
#2	.2972163	2.662252	.1720539	1.634874	.4750539	.0742113
#3	.2972857	2.683224	.1730979	1.636836	.4769045	.0733700

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.870416	.2469895	.2002094	9.735370	.2691454	.3932766
Stddev	.010561	.0014684	.0002212	.018699	.0010448	.0011524
%RSD	.3679279	.5944993	.1104841	.1920745	.3881950	.2930335
#1	2.866030	.2475412	.1999715	9.742969	.2695009	.3919945
#2	2.862755	.2453252	.2004088	9.714068	.2699661	.3936089
#3	2.882464	.2481020	.2002480	9.749073	.2679692	.3942263

Sample Name: PB164377BS Acquired: 10/25/2024 2:29:38 Type: Unk
Method: NON EPA-6010-200.7(v2450) 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	.6453927	.1725359	F .6535889	5.449960	F -.014027	.1687887
Stddev	.0007768	.0002910	.0028554	.013811	.001095	.0002714
%RSD	.1203629	.1686346	.4368842	.2534057	7.804572	.1607730
#1	.6453687	.1722462	.6520649	5.438411	-.012842	.1687360
#2	.6461812	.1725334	.6568829	5.465258	-.014238	.1685476
#3	.6446281	.1728281	.6518188	5.446210	-.015000	.1690826

Elem	Sr4077
Units	ppm
Avg	.1799943
Stddev	.0003380
%RSD	.1877587
#1	.1800527
#2	.1796310
#3	.1802993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2953.984	62974.08	13773.06	2109.643	4690.817
Stddev	3.677	162.12	57.41	6.925	4.647
%RSD	.1244739	.2574370	.4167955	.3282368	.0990709
#1	2953.134	62857.31	13779.29	2108.177	4685.578
#2	2950.806	62905.75	13712.80	2103.569	4694.444
#3	2958.012	63159.18	13827.10	2117.183	4692.428

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV16 Acquired: 10/25/2024 2:44:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.972196	5.297953	4.871417	5.073425	4.991514	9.309488
Stddev	.075316	.119210	.073112	.070727	.074190	.034993
%RSD	1.514749	2.250106	1.500845	1.394067	1.486326	.3758812
#1	4.886126	5.161388	4.787280	4.992288	4.907605	9.348535
#2	5.004443	5.351292	4.907480	5.105937	5.018511	9.280965
#3	5.026021	5.381180	4.919492	5.122050	5.048425	9.298964

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.013402	.2355709	2.428674	22.85183	.9132872	2.424998
Stddev	.128330	.0011589	.036557	.09754	.0033479	.037129
%RSD	1.423764	.4919519	1.505211	.4268286	.3665779	1.531110
#1	9.151958	.2367831	2.386496	22.96273	.9103123	2.382168
#2	8.989620	.2344739	2.448312	22.77936	.9126368	2.444753
#3	8.898626	.2354556	2.451216	22.81341	.9169127	2.448074

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234253	5.000954	2.715568	25.40843	2.455755	1.193154
Stddev	.017437	.030926	.010709	.07422	.038375	.000614
%RSD	1.412724	.6184014	.3943486	.2920969	1.562670	.0514481
#1	1.214373	4.979840	2.727689	25.49239	2.411501	1.192664
#2	1.241431	5.036452	2.711628	25.38133	2.475925	1.193843
#3	1.246955	4.986569	2.707387	25.35156	2.479840	1.192955

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.73586	2.738904	2.409924	24.68828	4.671489	4.984249
Stddev	.05660	.018070	.006268	.04170	.024031	.072951
%RSD	.2489405	.6597400	.2600734	.1689028	.5144200	1.463621
#1	22.71735	2.759078	2.406054	24.64473	4.697049	4.900399
#2	22.79940	2.733429	2.406562	24.72785	4.649354	5.019198
#3	22.69083	2.724204	2.417155	24.69225	4.668064	5.033150

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCV16 Acquired: 10/25/2024 2:44:36 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV16 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.804674	F 4.482499	4.685861	5.041135	4.791510	4.590441
Stddev	.076410	.013728	.046157	.083184	.077017	.016548
%RSD	1.590321	.3062668	.9850183	1.650101	1.607359	.3604945
#1	4.716461	4.498186	4.633325	4.945534	4.702640	4.607358
#2	4.847292	4.472678	4.704356	5.080880	4.833098	4.589678
#3	4.850270	4.476633	4.719902	5.096991	4.838793	4.574288

Elem	Sr4077
Units	ppm
Avg	4.615582
Stddev	.025138
%RSD	.5446433
#1	4.637058
#2	4.587932
#3	4.621756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2785.423	61770.70	13202.42	2059.742	4185.530
Stddev	34.388	8.96	63.65	4.524	57.514
%RSD	1.234584	.0145061	.4820895	.2196356	1.374125
#1	2824.990	61769.81	13129.32	2055.104	4251.920
#2	2768.543	61762.22	13245.61	2064.142	4153.840
#3	2762.737	61780.08	13232.31	2059.979	4150.831

Sample Name: CCB16 Acquired: 10/25/2024 2:48:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007484	.0000299	.0007992	.0000577	.0020746	.0020006	-.002023
Stddev	.0006350	.0013884	.0009522	.0005117	.0002723	.0028198	.000512
%RSD	84.84423	4644.619	119.1432	886.3034	13.12589	140.9477	25.31477
#1	.0013781	.0007007	.0006129	-.000318	.0019055	.0050662	-.002028
#2	.0007589	-.001566	.0018309	-.000149	.0023887	-.000482	-.002532
#3	.0001082	.000955	-.000046	.000641	.0019295	.001418	-.001508

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000886	.0003019	.0032864	.0002888	.0002887	-.000101	.0038099
Stddev	.0000187	.0000634	.0075928	.0002903	.0001418	.000105	.0011223
%RSD	21.08882	21.01416	231.0393	100.5082	49.11792	104.7258	29.45886
#1	.0000995	.0003606	-.005286	.0003895	.0004298	-.000039	.0025292
#2	.0000994	.0003104	.009164	.0005154	.0002900	-.000041	.0042780
#3	.0000671	.0002346	.005981	-.000038	.0001462	-.000222	.0046224

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004481	.0100680	.0001200	.0010409	.1276450	-.003408	.0005055
Stddev	.0001403	.0046666	.0000518	.0003647	.0106365	.000453	.0001472
%RSD	31.30649	46.35075	43.15624	35.03964	8.332839	13.28377	29.12421
#1	.0003662	.0099318	.0001049	.0013788	.1219823	-.003470	.0006020
#2	.0006100	.0054710	.0001777	.0010895	.1210379	-.002927	.0003361
#3	.0003680	.0148012	.0000774	.0006543	.1399148	-.003826	.0005786

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0286498	.0041148	.0006610	.0048232	.0001350	.0001443	-.001880
Stddev	.0126257	.0001993	.0002206	.0006407	.0004886	.0032615	.000919
%RSD	44.06893	4.844765	33.37988	13.28363	361.7930	2260.048	48.87620
#1	.0315915	.0040926	.0008857	.0055065	.0006198	-.001693	-.002711
#2	.0395450	.0043244	.0004446	.0042359	-.000357	.003910	-.000893
#3	.0148130	.0039275	.0006527	.0047273	.000143	-.001784	-.002035

Reviewed By:mohan
On:10/28/2024 3:22:20 AM
Inst Id :P4
LB :LB133110

Sample Name: CCB16 Acquired: 10/25/2024 2:48:47 Type: Unk
Method: NON EPA-6010-200.7(v2450) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB16 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005638	.0010005	.0002915
Stddev	.002086	.0018303	.0000199
%RSD	37.00325	182.9337	6.807460
#1	-.005064	-.000568	.0002822
#2	-.003899	.000557	.0003143
#3	-.007952	.003012	.0002780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.228	61887.01	13654.95	2069.363	4668.124
Stddev	4.050	51.67	10.67	13.883	3.780
%RSD	.1403070	.0834836	.0781393	.6709001	.0809653
#1	2882.026	61873.18	13655.41	2056.606	4663.847
#2	2890.105	61843.67	13665.38	2084.150	4671.013
#3	2886.552	61944.18	13644.05	2067.335	4669.513

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164372

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: 10/24/2024 **Time :** 11:45 **Temp :** 95 °C

End Digest Date: 10/24/2024 **Time :** 14:50 **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
1:1 HNO3	1.00	MP81119
1:1 HCL	0.50	MP82127
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
10/24/24 15:00	jgp / Met dig	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164372

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P3426-01	927-K1-WS-073124	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	25
P3426-02	927-K1-WS-073124-FD	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	26
P3429-01	926-K1-WS-073124	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	27
P3429-02	931-K1-WS-073124	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
P3429-03	925-K1-WS-073124	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	29
P3451-01	921-J-WS-080124	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	30
P3457-01	924-K1-WS-080224	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
P3457-02	932-K1-WS-080224	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	33
P3467-01	919-J-WS-080224	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	32
P3596-01	918-J-WS-081324	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	33
P3596-02	918-J-WS-081324-FD	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	34
P3609-01	915-J-WS-081424	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	35
P3609-02	920-J-WS-081424	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	36
P3645-01	914-J-WS-081524	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	37
P3645-01DUP	914-J-WS-081524DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	38
P3645-01MS	914-J-WS-081524MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	39
P3645-01MSD	914-J-WS-081524MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	40
P3645-02	916-J-WS-081524	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	41
P3657-01	917-J-WS-081624	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	42
PB164372BL	PBW372	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	43
PB164372BS	LCS372	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	44

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164372 **WorkList ID :** 184735 **Department :** Digestion **Date :** 10-24-2024 11:05:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3426-01	927-K1-WS-073124	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	E21	07/31/2024	200.7
P3426-02	927-K1-WS-073124-FD	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	E21	07/31/2024	200.7
P3429-01	926-K1-WS-073124	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D31	07/31/2024	200.7
P3429-02	931-K1-WS-073124	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D31	07/31/2024	200.7
P3429-03	925-K1-WS-073124	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D31	07/31/2024	200.7
P3451-01	921-J-WS-080124	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D31	07/31/2024	200.7
P3457-01	924-K1-WS-080224	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D31	08/01/2024	200.7
P3457-02	932-K1-WS-080224	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	J21	08/02/2024	200.7
P3467-01	919-J-WS-080224	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	J21	08/02/2024	200.7
P3596-01	918-J-WS-081324	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D21	08/02/2024	200.7
P3596-02	918-J-WS-081324-FD	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D21	08/13/2024	200.7
P3609-01	915-J-WS-081424	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D21	08/13/2024	200.7
P3609-02	920-J-WS-081424	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D21	08/14/2024	200.7
P3645-01	914-J-WS-081524	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	D21	08/14/2024	200.7
P3645-02	916-J-WS-081524	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	G21	08/15/2024	200.7
P3657-01	917-J-WS-081624	Water	Metals Group5	1:1 HNO3 to pH < 2	JACO05	G21	08/15/2024	200.7
						G11	08/16/2024	200.7

Date/Time 10/24/24 11:30
Raw Sample Received by: JPP (Met dig)
Raw Sample Relinquished by: JM (SM)

Date/Time 10/24/24 1:00
Raw Sample Received by: JM (SM)
Raw Sample Relinquished by: JPP (Met dig)

Revised
416 of 571
P3657-METALS

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	jaswal	Review On	10/28/2024 3:21:41 AM
Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/24/24 12:14		Kareem	OK
2	S1	S1	CAL2	10/24/24 12:18		Kareem	OK
3	S2	S2	CAL3	10/24/24 12:23		Kareem	OK
4	S3	S3	CAL4	10/24/24 12:27		Kareem	OK
5	S4	S4	CAL5	10/24/24 12:31		Kareem	OK
6	S5	S5	CAL6	10/24/24 12:35		Kareem	OK
7	ICV01	ICV01	ICV	10/24/24 13:26	Fail for Ba,Be,Cd,Cu,Mg,Mn,Ag,V, Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/24/24 13:30		Kareem	OK
9	ICB01	ICB01	ICB	10/24/24 13:34		Kareem	OK
10	CRI01	CRI01	CRDL	10/24/24 13:38		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/24/24 13:43		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/24/24 13:54		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/24/24 13:58		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/24/24 14:02		Kareem	OK
15	CCV01	CCV01	CCV	10/24/24 14:06		Kareem	OK
16	CCB01	CCB01	CCB	10/24/24 14:11		Kareem	OK
17	P4460-03	WB-303-BOT	SAM	10/24/24 14:15	NOT USE	Kareem	Not Ok
18	P4460-03DUP	WB-303-BOTDUP	DUP	10/24/24 14:19	NOT USE	Kareem	Not Ok

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Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P4460-03L	WB-303-BOTL	SD	10/24/24 14:23	NOT USE	Kareem	Not Ok
20	P4460-03MS	WB-303-BOTMS	MS	10/24/24 14:28	NOT USE	Kareem	Not Ok
21	P4460-03MSD	WB-303-BOTMSD	MSD	10/24/24 14:32	NOT USE	Kareem	Not Ok
22	P4460-03A	WB-303-BOTA	PS	10/24/24 14:36	NOT USE	Kareem	Not Ok
23	P4473-01	TS-1	SAM	10/24/24 14:40		Kareem	OK
24	P4474-01	TS-2	SAM	10/24/24 14:44		Kareem	OK
25	P4486-01	EO-03-102224	SAM	10/24/24 14:49		Kareem	OK
26	CCV02	CCV02	CCV	10/24/24 14:53		Kareem	OK
27	CCB02	CCB02	CCB	10/24/24 14:57		Kareem	OK
28	P4489-01	RT-2675	SAM	10/24/24 15:01		Kareem	OK
29	CCV03	CCV03	CCV	10/24/24 15:06		Kareem	OK
30	CCB03	CCB03	CCB	10/24/24 15:12		Kareem	OK
31	P4485-01	D20241001-01-04	SAM	10/24/24 15:16		Kareem	OK
32	P4486-01DUP	EO-03-102224DUP	DUP	10/24/24 15:21		Kareem	OK
33	P4486-01L	EO-03-102224L	SD	10/24/24 15:25		Kareem	OK
34	P4486-01MS	EO-03-102224MS	MS	10/24/24 15:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
35	P4486-01MSD	EO-03-102224MSD	MSD	10/24/24 15:33	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

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Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

36	P4486-01A	EO-03-102224A	PS	10/24/24 15:37	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
37	P4487-01	BP-B5	SAM	10/24/24 15:41		Kareem	OK
38	P4487-05	BP-F27	SAM	10/24/24 15:45		Kareem	OK
39	PB164320BL	PB164320BL	MB	10/24/24 15:49		Kareem	OK
40	PB164320BS	PB164320BS	LCS	10/24/24 15:54	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
41	CCV04	CCV04	CCV	10/24/24 15:58		Kareem	OK
42	CCB04	CCB04	CCB	10/24/24 16:02		Kareem	OK
43	LR1	LR1	HIGH STD	10/24/24 16:08		Kareem	OK
44	LR2	LR2	HIGH STD	10/24/24 16:13		Kareem	OK
45	P4467-04	TP-1	SAM	10/24/24 16:19		Kareem	OK
46	P4468-02	ETGI-331	SAM	10/24/24 16:24		Kareem	OK
47	P4468-04	ETGI-329	SAM	10/24/24 16:28		Kareem	OK
48	P4468-06	ETGI-345	SAM	10/24/24 16:33		Kareem	OK
49	P4472-04	BP-F-28	SAM	10/24/24 16:37		Kareem	OK
50	P4472-08	BP-F-6	SAM	10/24/24 16:42		Kareem	OK
51	P4472-08DUP	BP-F-6DUP	DUP	10/24/24 16:46		Kareem	OK
52	P4472-08L	BP-F-6L	SD	10/24/24 16:50		Kareem	OK
53	CCV05	CCV05	CCV	10/24/24 16:55		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

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Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

54	CCB05	CCB05	CCB	10/24/24 16:59		Kareem	OK
55	P4472-08MS	BP-F-6MS	MS	10/24/24 17:03		Kareem	OK
56	P4472-08MSD	BP-F-6MSD	MSD	10/24/24 17:08		Kareem	OK
57	P4472-08A	BP-F-6A	PS	10/24/24 17:12	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
58	PB164301TB	PB164301TB	MB	10/24/24 17:16		Kareem	OK
59	PB164319BL	PB164319BL	MB	10/24/24 17:21		Kareem	OK
60	PB164319BS	PB164319BS	LCS	10/24/24 17:25	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
61	P4467-01	TP-1	SAM	10/24/24 17:29		Kareem	OK
62	P4468-01	ETGI-331	SAM	10/24/24 17:33		Kareem	OK
63	P4468-03	ETGI-329	SAM	10/24/24 17:37		Kareem	OK
64	P4468-05	ETGI-345	SAM	10/24/24 17:41		Kareem	OK
65	CCV06	CCV06	CCV	10/24/24 17:46		Kareem	OK
66	CCB06	CCB06	CCB	10/24/24 17:50		Kareem	OK
67	P4470-01	CL-01-102124	SAM	10/24/24 17:56		Kareem	OK
68	P4470-01DUP	CL-01-102124DUP	DUP	10/24/24 18:00		Kareem	OK
69	P4470-01L	CL-01-102124L	SD	10/24/24 18:04		Kareem	OK
70	P4471-01	B-180-SB01	SAM	10/24/24 18:20		Kareem	OK
71	P4471-02	B-180-SB02	SAM	10/24/24 18:24		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	jaswal	Review On	10/28/2024 3:21:41 AM
Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

72	P4472-01	BP-F-28	SAM	10/24/24 18:28		Kareem	OK
73	P4472-05	BP-F-6	SAM	10/24/24 18:32		Kareem	OK
74	CCV07	CCV07	CCV	10/24/24 18:37		Kareem	OK
75	CCB07	CCB07	CCB	10/24/24 18:41		Kareem	OK
76	PB164317BL	PB164317BL	MB	10/24/24 18:45		Kareem	OK
77	P4423-02	COMP	SAM	10/24/24 18:55		Kareem	OK
78	P4460-06	WB-303-SW	SAM	10/24/24 19:00	Na (Oversaturated)	Kareem	Dilution
79	P4460-06DUP	WB-303-SWDUP	DUP	10/24/24 19:04	Na (Oversaturated)	Kareem	Dilution
80	P4460-06L	WB-303-SWL	SD	10/24/24 19:09	Na high	Kareem	Dilution
81	P4460-06MS	WB-303-SWMS	MS	10/24/24 19:14	Na (Oversaturated), 0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	Dilution
82	P4460-06MSD	WB-303-SWMSD	MSD	10/24/24 19:19	Na (Oversaturated), 0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	Dilution
83	P4460-06A	WB-303-SWA	PS	10/24/24 19:23	Na (Oversaturated), 0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	Dilution
84	P4485-03	D20241001-02-03	SAM	10/24/24 19:28		Kareem	OK
85	CCV08	CCV08	CCV	10/24/24 19:32		Kareem	OK
86	CCB08	CCB08	CCB	10/24/24 19:45		Kareem	OK
87	PB164347BL	PB164347BL	MB	10/24/24 19:49		Kareem	OK
88	PB164347BSRE	PB164347BSRE	LCS	10/24/24 19:53	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	jaswal	Review On	10/28/2024 3:21:41 AM
Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

89	P4508-01	TP-3	SAM	10/24/24 19:57		Kareem	OK
90	P4508-05	BP-F23	SAM	10/24/24 20:01		Kareem	OK
91	P4508-09	BP-F22	SAM	10/24/24 20:06		Kareem	OK
92	P4509-01	AU-06-10232024	SAM	10/24/24 20:11		Kareem	OK
93	P4509-01DUP	AU-06-10232024DUP	DUP	10/24/24 20:15		Kareem	OK
94	P4509-01L	AU-06-10232024L	SD	10/24/24 20:19		Kareem	OK
95	P4509-01MS	AU-06-10232024MS	MS	10/24/24 20:23		Kareem	OK
96	P4509-01MSD	AU-06-10232024MSD	MSD	10/24/24 20:27		Kareem	OK
97	CCV09	CCV09	CCV	10/24/24 20:31		Kareem	OK
98	CCB09	CCB09	CCB	10/24/24 20:36		Kareem	OK
99	P4509-01A	AU-06-10232024A	PS	10/24/24 20:40	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
100	P4512-03	VNJ-212	SAM	10/24/24 20:44		Kareem	OK
101	P4515-01	CHVB0783	SAM	10/24/24 20:48		Kareem	OK
102	P4517-01	NASSAU-ST-CO	SAM	10/24/24 20:52		Kareem	OK
103	P4517-03	S.JEFFERSON-CO-1	SAM	10/24/24 20:57		Kareem	OK
104	P4517-05	S.JEFFERSON-CO-2	SAM	10/24/24 21:01		Kareem	OK
105	P4517-07	FOREST-ST-CO	SAM	10/24/24 21:05		Kareem	OK
106	PB164376BL	PB164376BL	MB	10/24/24 21:10		Kareem	OK

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

107	PB164376BS	PB164376BS	LCS	10/24/24 21:14	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
108	P3426-01	927-K1-WS-073124	SAM	10/24/24 21:18		Kareem	OK
109	CCV10	CCV10	CCV	10/24/24 21:22		Kareem	OK
110	CCB10	CCB10	CCB	10/24/24 21:28		Kareem	OK
111	P3426-02	927-K1-WS-073124-F	SAM	10/24/24 21:32		Kareem	OK
112	P3429-01	926-K1-WS-073124	SAM	10/24/24 21:36		Kareem	OK
113	P3429-02	931-K1-WS-073124	SAM	10/24/24 21:41		Kareem	OK
114	P3429-03	925-K1-WS-073124	SAM	10/24/24 21:45		Kareem	OK
115	P3451-01	921-J-WS-080124	SAM	10/24/24 21:49		Kareem	OK
116	P3457-01	924-K1-WS-080224	SAM	10/24/24 21:54		Kareem	OK
117	P3457-02	932-K1-WS-080224	SAM	10/24/24 21:58		Kareem	OK
118	P3467-01	919-J-WS-080224	SAM	10/24/24 22:03		Kareem	OK
119	P3596-01	918-J-WS-081324	SAM	10/24/24 22:07		Kareem	OK
120	P3596-02	918-J-WS-081324-FD	SAM	10/24/24 22:11		Kareem	OK
121	CCV11	CCV11	CCV	10/24/24 22:15		Kareem	OK
122	CCB11	CCB11	CCB	10/24/24 22:20		Kareem	OK
123	P3609-01	915-J-WS-081424	SAM	10/24/24 22:26		Kareem	OK
124	P3609-02	920-J-WS-081424	SAM	10/24/24 22:30		Kareem	OK
125	P3645-01	914-J-WS-081524	SAM	10/24/24 22:34		Kareem	OK

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Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

126	P3645-02	916-J-WS-081524	SAM	10/24/24 22:39		Kareem	OK
127	P3657-01	917-J-WS-081624	SAM	10/24/24 22:43		Kareem	OK
128	PB164372BL	PB164372BL	MB	10/24/24 22:47		Kareem	OK
129	PB164299TB	PB164299TB	MB	10/24/24 22:56		Kareem	OK
130	PB164299BL	PB164299BL	MB	10/24/24 23:00		Kareem	OK
131	PB164299BS	PB164299BS	LCS	10/24/24 23:05	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
132	CCV12	CCV12	CCV	10/24/24 23:09		Kareem	OK
133	CCB12	CCB12	CCB	10/24/24 23:13		Kareem	OK
134	PB164347BS	PB164347BS	LCS	10/24/24 23:17	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
135	P4470-01MS	CL-01-102124MS	MS	10/24/24 23:21	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
136	P4470-01MSD	CL-01-102124MSD	MSD	10/24/24 23:25	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
137	P4470-01A	CL-01-102124A	PS	10/24/24 23:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
138	PB164317BS	PB164317BS	LCS	10/24/24 23:33	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
139	PB164289BL	PB164289BL	MB	10/24/24 23:37		Kareem	OK

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ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

140	PB164289BS	PB164289BS	LCS	10/24/24 23:41	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
141	P3645-01DUP	914-J-WS-081524DUI	DUP	10/24/24 23:45		Kareem	OK
142	P3645-01L	914-J-WS-081524L	SD	10/24/24 23:50		Kareem	OK
143	P3645-01MS	914-J-WS-081524MS	MS	10/24/24 23:54	Si high	Kareem	Dilution
144	CCV13	CCV13	CCV	10/24/24 23:58		Kareem	OK
145	CCB13	CCB13	CCB	10/25/24 00:02		Kareem	OK
146	P3645-01MSD	914-J-WS-081524MS	MSD	10/25/24 00:10	Si high	Kareem	Dilution
147	P3645-01A	914-J-WS-081524A	PS	10/25/24 00:14	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
148	P4485-02	D20241001-01-04	SAM	10/25/24 00:18		Kareem	OK
149	P4485-02DUP	D20241001-01-04DUI	DUP	10/25/24 00:22		Kareem	OK
150	P4485-02L	D20241001-01-04L	SD	10/25/24 00:26		Kareem	OK
151	P4485-02MS	D20241001-01-04MS	MS	10/25/24 00:31	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
152	P4485-02MSD	D20241001-01-04MS	MSD	10/25/24 00:35	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
153	P4485-02A	D20241001-01-04A	PS	10/25/24 00:39	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
154	P4487-04	BP-B5	SAM	10/25/24 00:43		Kareem	OK
155	P4487-08	BP-B27	SAM	10/25/24 00:48		Kareem	OK

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Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

156	CCV14	CCV14	CCV	10/25/24 00:52		Kareem	OK
157	CCB14	CCB14	CCB	10/25/24 00:56		Kareem	OK
158	P4488-09DL	HCC-1DL	SAM	10/25/24 01:01	Straight 5x Dilution for all elements	Kareem	OK
159	P4488-10	HCC-2	SAM	10/25/24 01:06		Kareem	OK
160	P4508-04	TP-3	SAM	10/25/24 01:10		Kareem	OK
161	P4508-08	BP-F23	SAM	10/25/24 01:15		Kareem	OK
162	P4508-12	BP-F22	SAM	10/25/24 01:19		Kareem	OK
163	P4511-02	267	SAM	10/25/24 01:23		Kareem	OK
164	P4513-01	D3683	SAM	10/25/24 01:28		Kareem	OK
165	P4513-02	D3694	SAM	10/25/24 01:32		Kareem	OK
166	P4513-03	D3695	SAM	10/25/24 01:37		Kareem	OK
167	P4515-02	CHVB0783	SAM	10/25/24 01:41		Kareem	OK
168	CCV15	CCV15	CCV	10/25/24 01:45		Kareem	OK
169	CCB15	CCB15	CCB	10/25/24 01:50		Kareem	OK
170	PB164372BS	PB164372BS	LCS	10/25/24 01:54	200.7 Method	Kareem	OK
171	P4516-01	72-11986	SAM	10/25/24 01:58		Kareem	OK
172	P4517-02	NASSAU-ST-CO	SAM	10/25/24 02:03		Kareem	OK
173	P4517-04	S.JEFFERSON-CO-1	SAM	10/25/24 02:07		Kareem	OK
174	P4517-06	S.JEFFERSON-CO-2	SAM	10/25/24 02:11		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	jaswal	Review On	10/28/2024 3:21:41 AM
Supervise By	mohan	Supervise On	10/28/2024 3:22:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

175	P4517-08	FOREST-ST-CO	SAM	10/25/24 02:16		Kareem	OK
176	PB164335TB	PB164335TB	MB	10/25/24 02:20		Kareem	OK
177	PB164377BL	PB164377BL	MB	10/25/24 02:25		Kareem	OK
178	PB164377BS	PB164377BS	LCS	10/25/24 02:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
179	CCV16	CCV16	CCV	10/25/24 02:44		Kareem	OK
180	CCB16	CCB16	CCB	10/25/24 02:48		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : P3657

Test : Metals Group5

Prepbatch ID : PB164372,

Sequence ID/Qc Batch ID: LB133110,

Standard ID :
MP81119,MP82127,MP82441,MP82476,MP82477,MP82478,MP82479,MP82485,MP82486,MP82487,MP82488,MP82491,MP82492,MP82711,MP82712,

Chemical ID :
M4960,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5394,M5429,M5467,M5498,M5515,M5658,M5697,M5698,M5747,M5748,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5814,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5935,M5962,M5963,M5970,M5978,M5982,M5984,M6000,M6009,M6021,M6023,M6028,M6030,M6033,M6034,M6037,M6040,W2606,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP81119	06/21/2024	04/24/2025	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/21/2024

FROM 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP82127	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1250.00000ml of M6040 + 1250.00000ml of W3112 = 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP82441	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 125.00000ml of M6040 + 2350.00000ml of W3112 + 25.00000ml of M6037 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP82476	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 5.00000ml of M5296 + 5.00000ml of M5394 + 5.00000ml of M5802 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M5982 + 460.00000ml of MP82441 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP82477	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 50.00000ml of MP82441 + 50.00000ml of MP82476 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP82478	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of MP82476 + 75.00000ml of MP82441 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP82479	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 16.00000ml of MP82476 + 184.00000ml of MP82441 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP82485	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.02500ml of M5982 + 0.25000ml of M5218 + 10.00000ml of M5295 + 89.77500ml of MP82441 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP82486	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP82441 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP82487	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

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 MP82441 = 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	MP82488	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 50.00000ml of MP82441 + 50.00000ml of MP82476 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP82491	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 1.00000ml of M5984 + 10.00000ml of M4960 + 1969.00000ml of W3112 + 20.00000ml of M5963 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP82492	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 200.00000ml of M6034 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP82711	10/07/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/07/2024

FROM 0.00300ml of M6028 + 0.03000ml of M5798 + 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 MP82441 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP82712	10/07/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/07/2024

FROM 2.00000ml of MP82711 + 98.00000ml of MP82441 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

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	11/19/2024	05/20/2024 / bin	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	11/19/2024	05/20/2024 / bin	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	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	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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	12/08/2024	06/21/2024 / Al-Terek	06/07/2024 / Al-Terek	M5935

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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CHEMICAL RECEIPT LOG BOOK

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	01/04/2025	07/09/2024 / Al-Terek	07/03/2024 / Al-Terek	M5963

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	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/01/2025	08/06/2024 / Janvi	08/01/2024 / Janvi	M6034

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	02/02/2025	08/24/2024 / Janvi	08/01/2024 / Janvi	M6037

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)	24D1562005	02/08/2025	08/09/2024 / Janvi	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

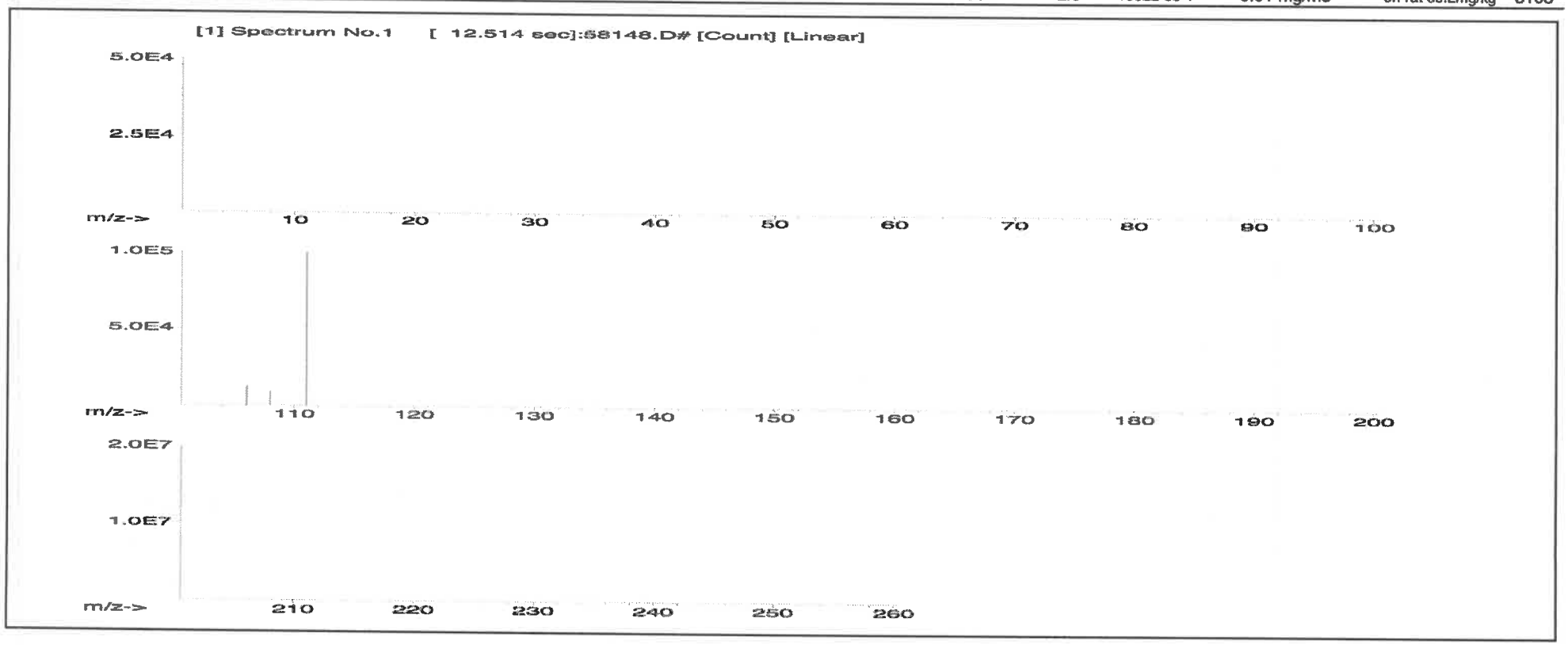
R: 8/5/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**			**Lot #**	
Lot Number:	**070124**		**Solvent:**	24002546	Nitric Acid
Description:	**Cadmium (Cd)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady		
Formulated By:	Aleah O'Brady	070124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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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-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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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Certificate of Analysis

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Calcium, Ca	5 000 ± 22 µg/mL
Chromium, Cr	200.0 ± 1.0 µg/mL	Cobalt, Co	500.0 ± 2.4 µg/mL
Copper, Cu	250.0 ± 1.0 µg/mL	Iron, Fe	1 000 ± 4 µg/mL
Magnesium, Mg	5 000 ± 20 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Potassium, K	5 000 ± 19 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 18 µg/mL
Vanadium, V	499.7 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- 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

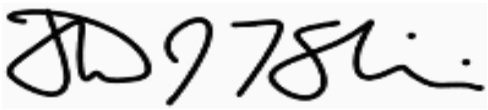
- Sealed TCT Bag Open Date: _____

- 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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

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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

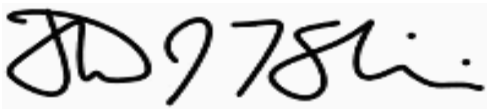
- Sealed TCT Bag Open Date: _____

- 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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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M4960 R: 10/08/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58149
Lot Number: 100721
Description: Indium (In)

Expiration Date: 100724
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

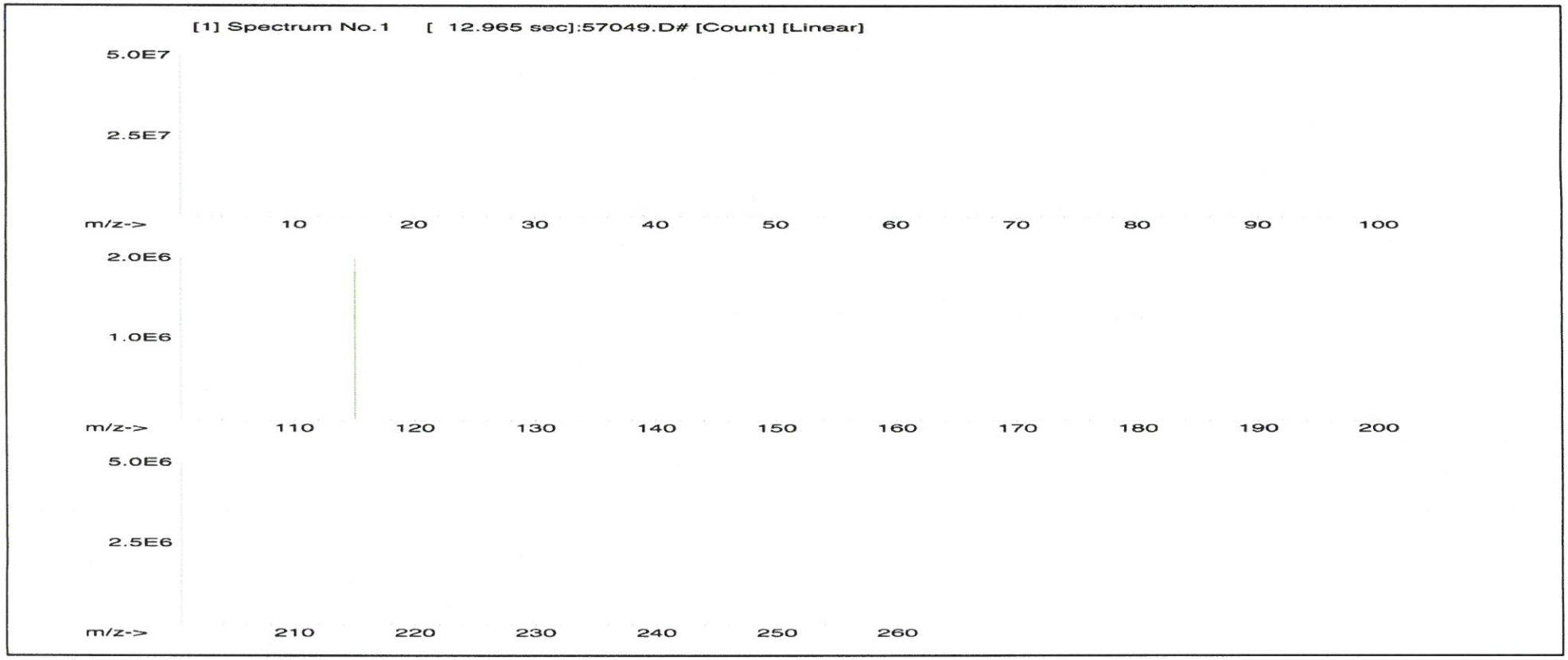
	Lot #	
Solvent:	20370011	Nitric Acid
5%	25.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

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. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	T	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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

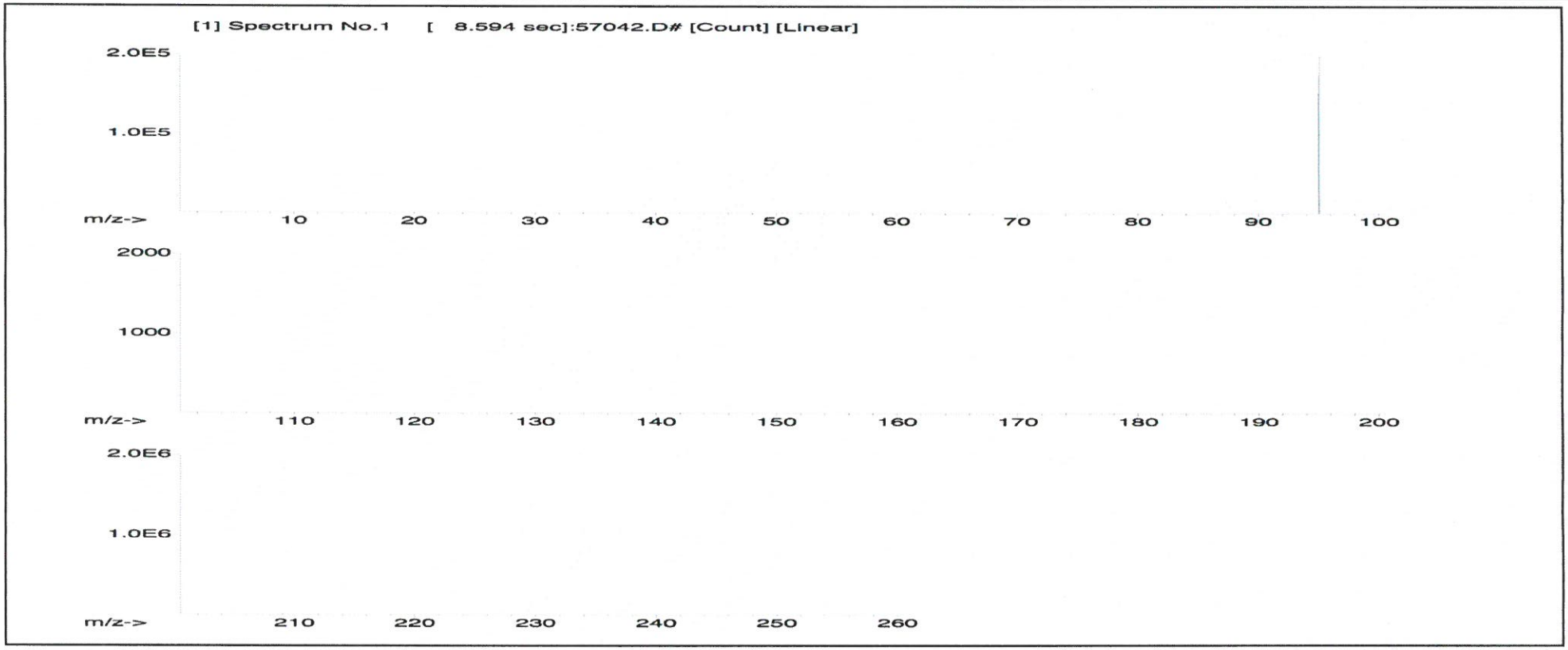
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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CERTIFIED WEIGHT REPORT:

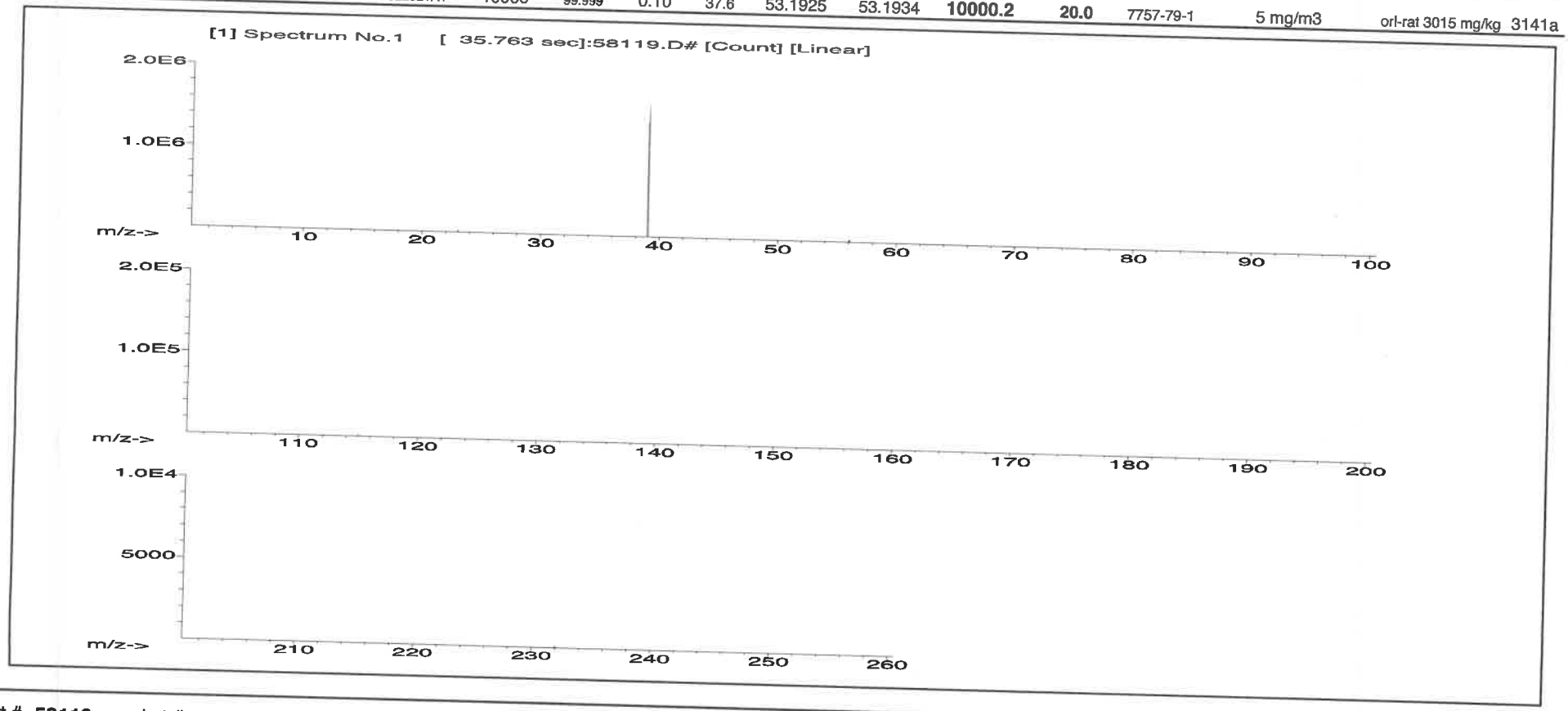
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 071122
Reviewed By: Pedro L. Rentas 071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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P3657-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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P3657-METALS

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Absolute Standards, Inc.
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R:09/08/22 (BA)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

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AR-1539 Certificate Number
https://Absolutestandards.com

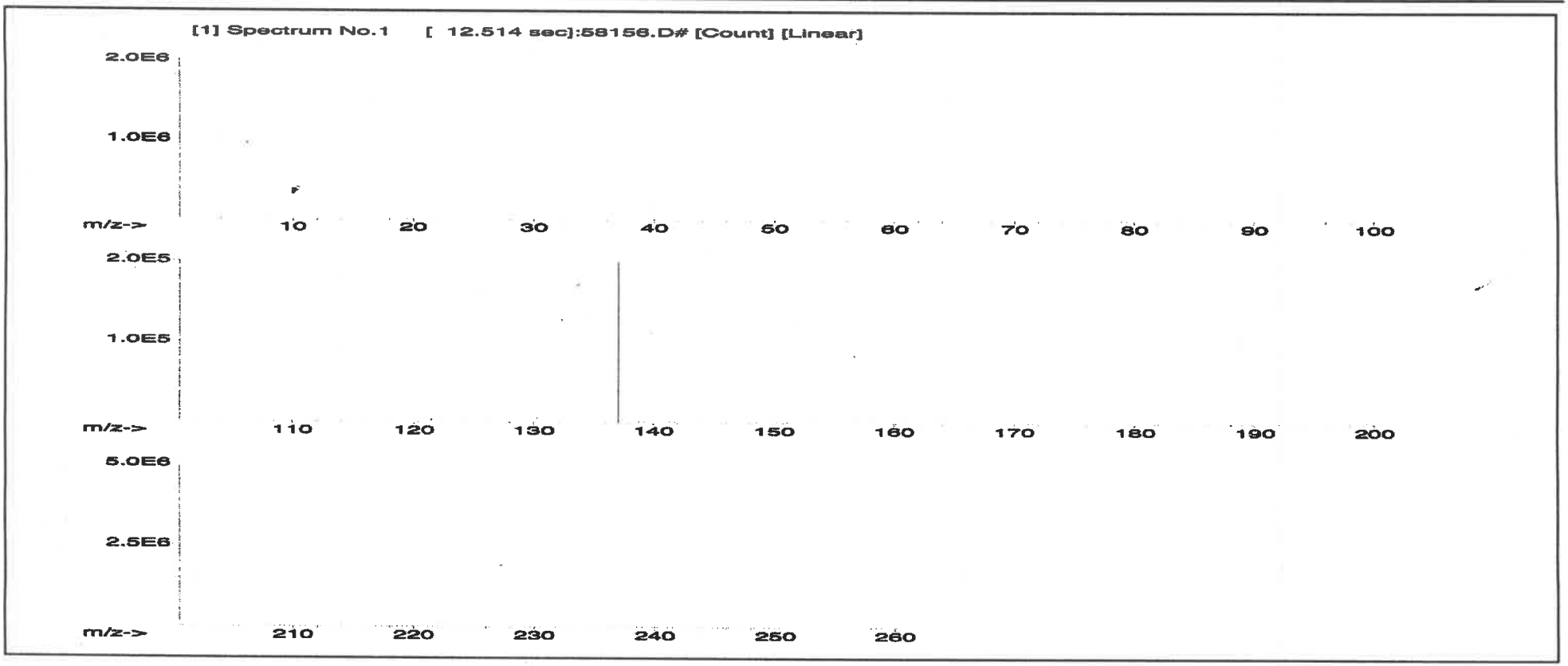
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

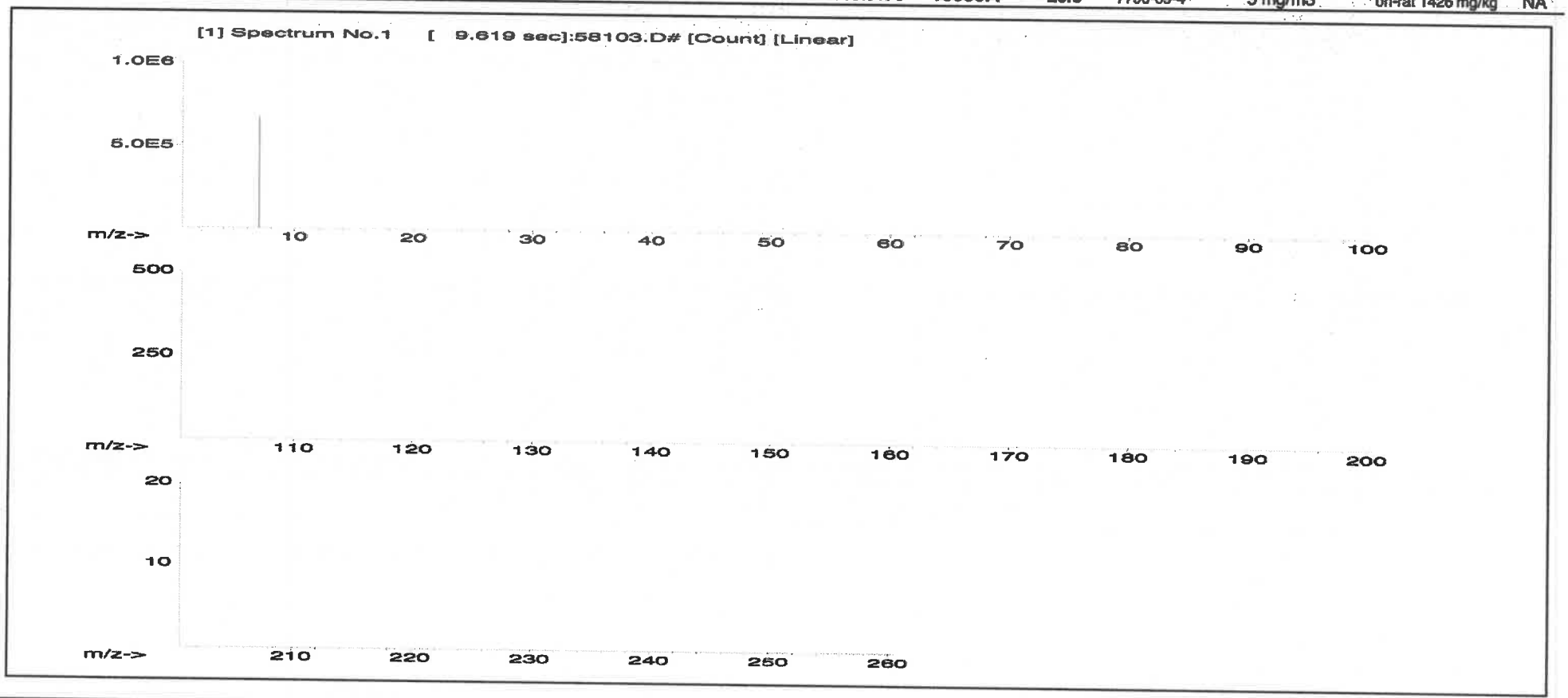
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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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M5467 R: 03/01/23 (LA)

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3357-METALS

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

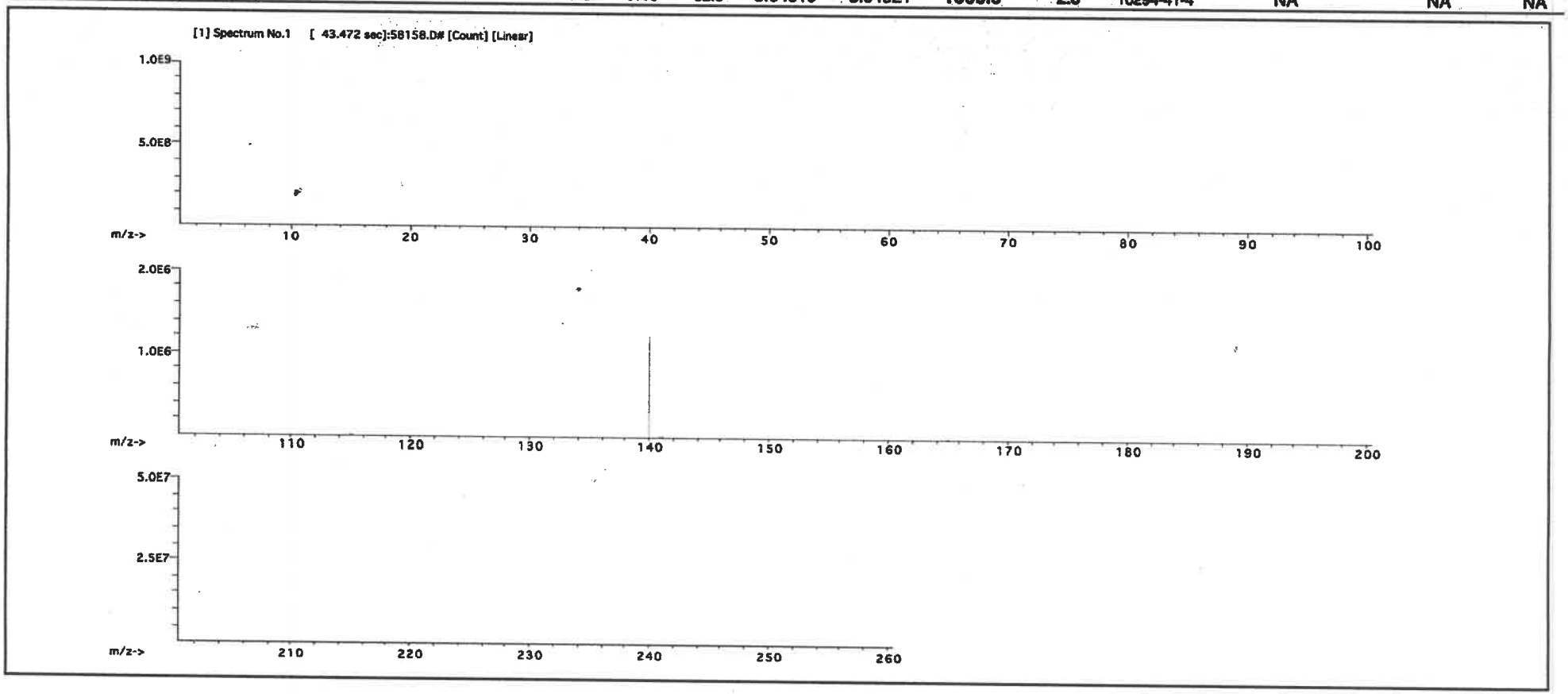
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

	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



ASTM-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5497 - M5498 R: 03/17/23 BH

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P3657-METALS

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

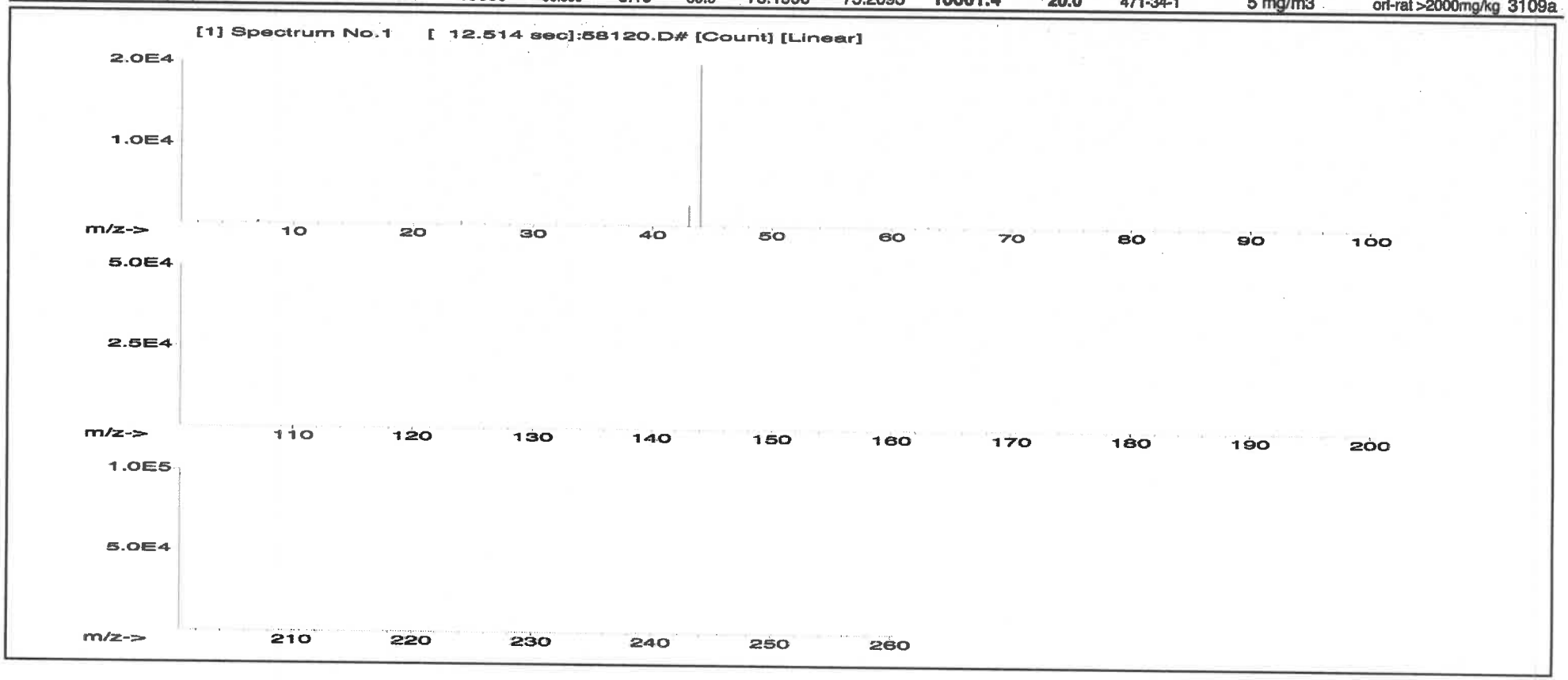
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

Lot #			
Solvent:	21110221	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty
		0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5514 - M5515 R: 03/17/22

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P3657-METALS

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

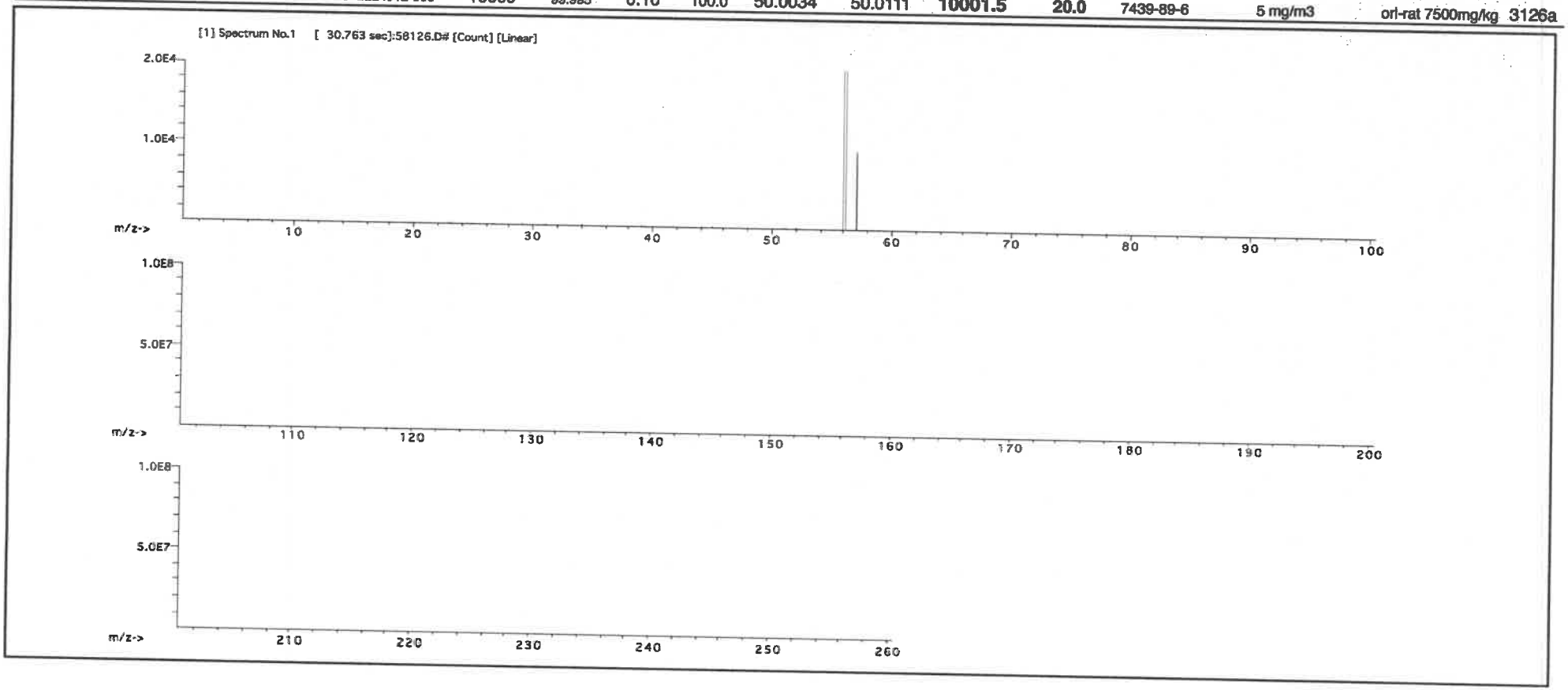
	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	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

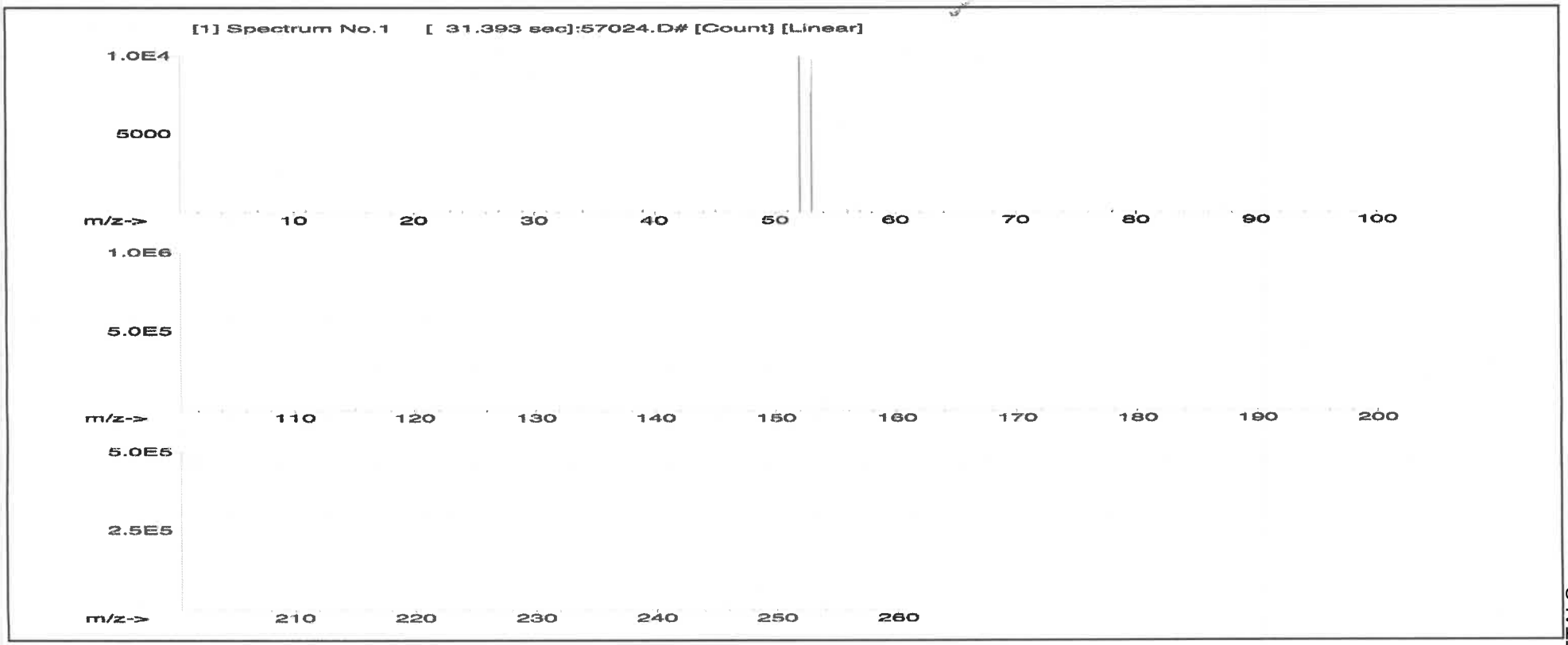
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CERTIFIED WEIGHT REPORT:

		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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5697 R: 10/27/23

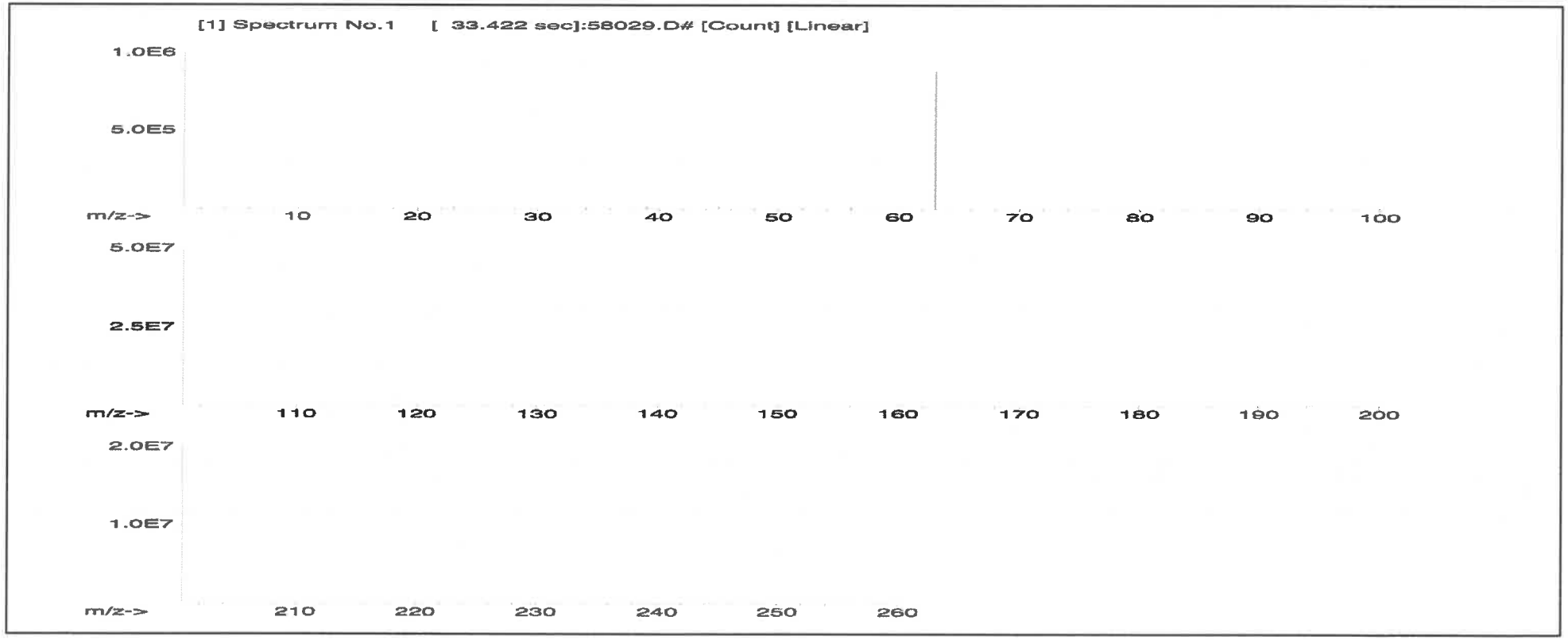
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58029**	24002546	Nitric Acid
Lot Number:	**102523**		
Description:	**Copper (Cu)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	102526		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

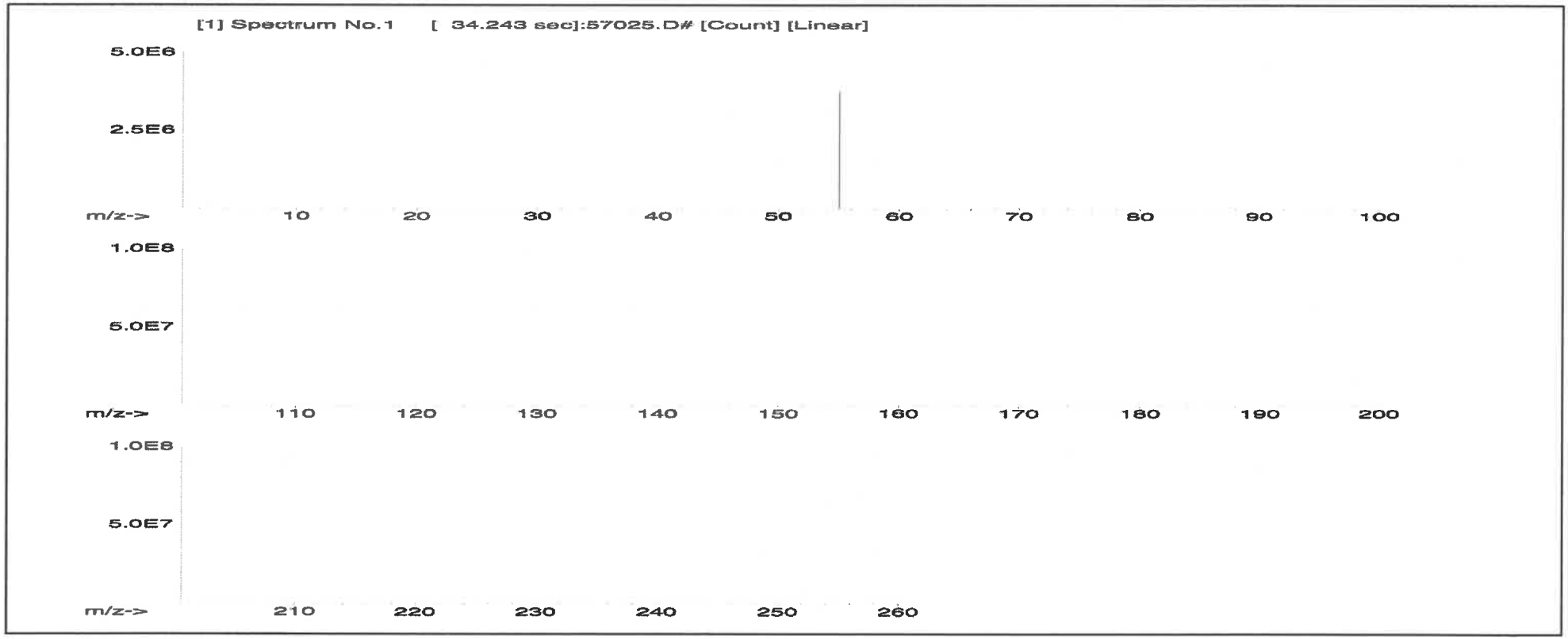
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CERTIFIED WEIGHT REPORT:

		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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* 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)

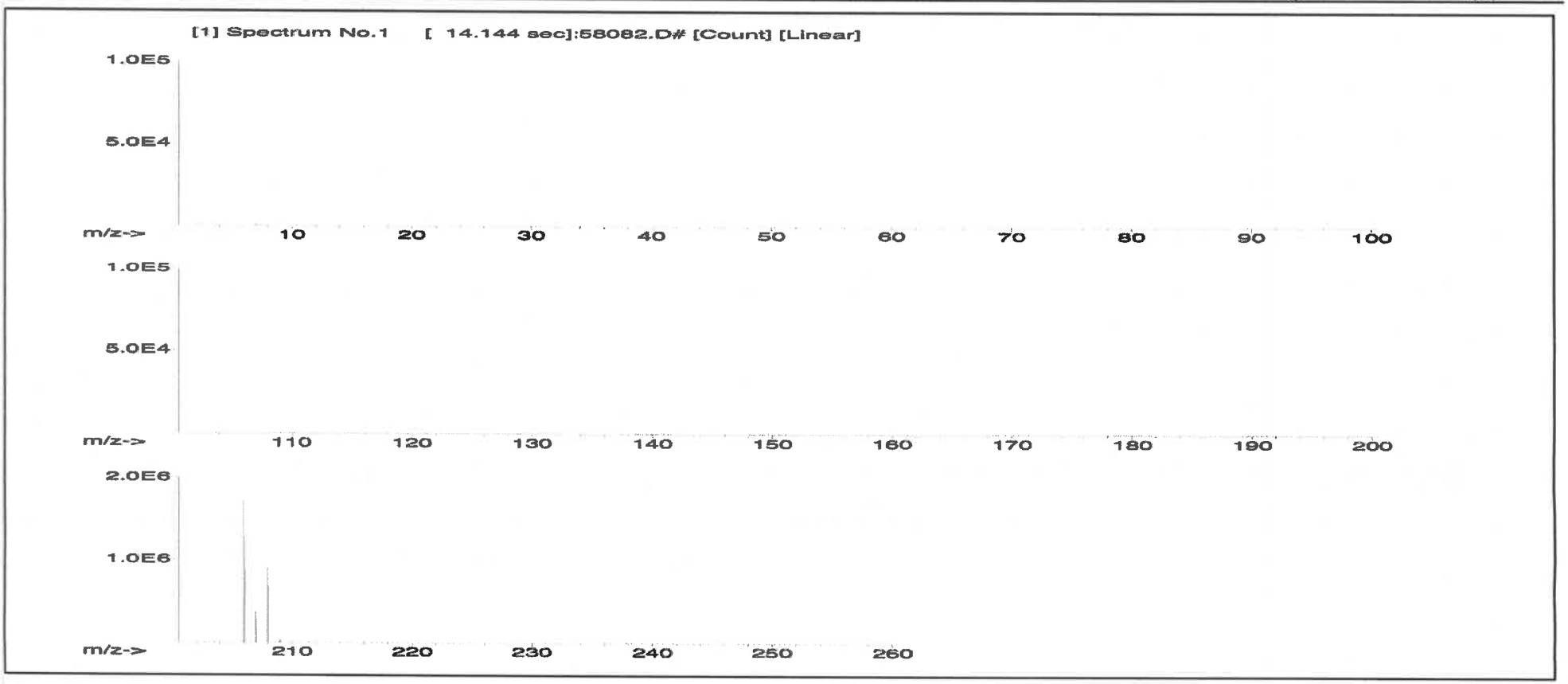
Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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

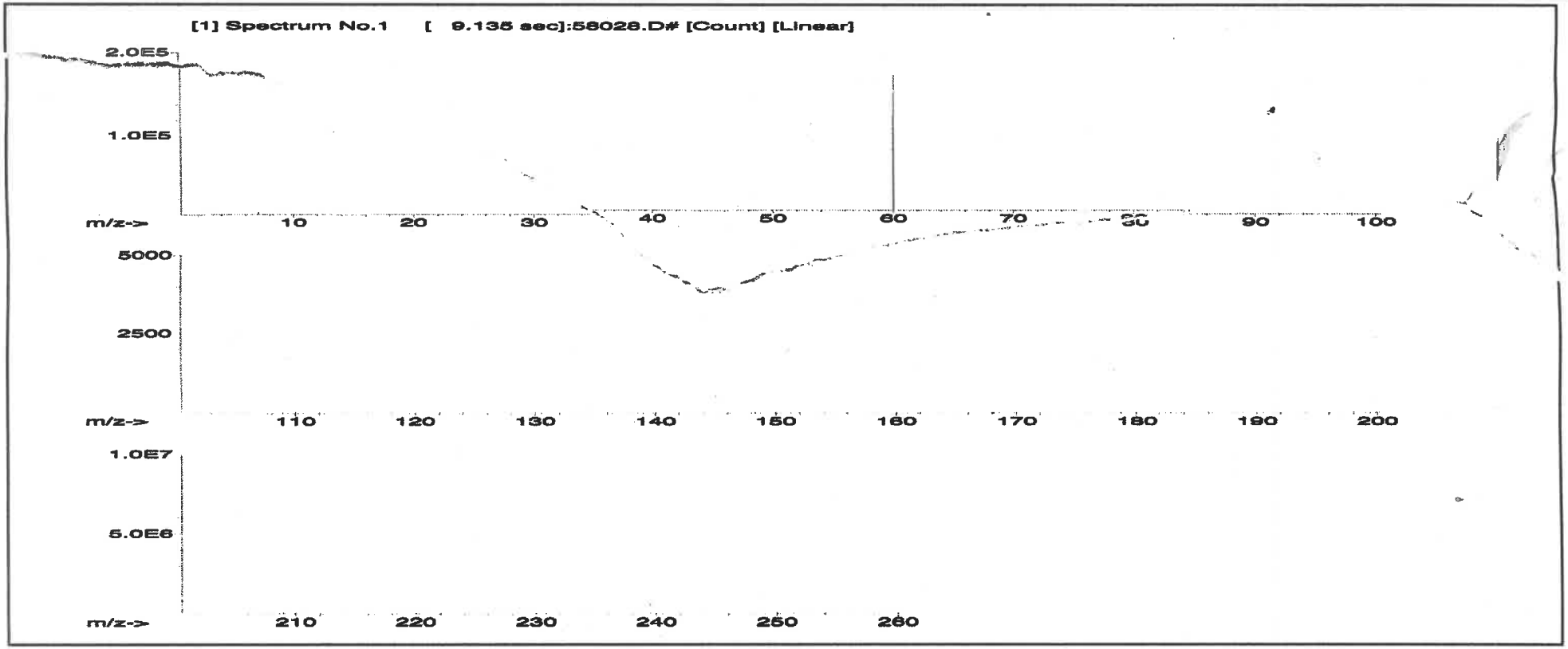
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	2.2	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

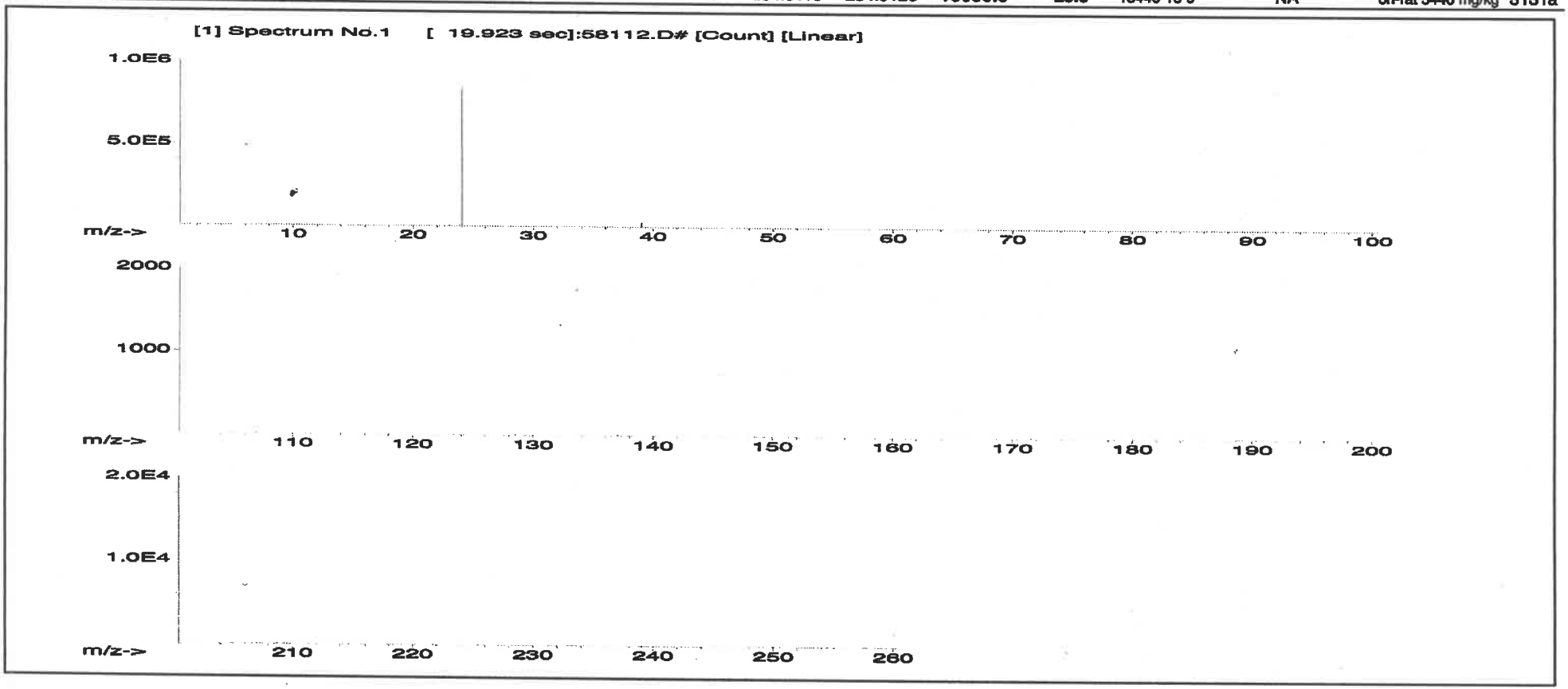
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ort-rat 5440 mg/kg	3131a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5798

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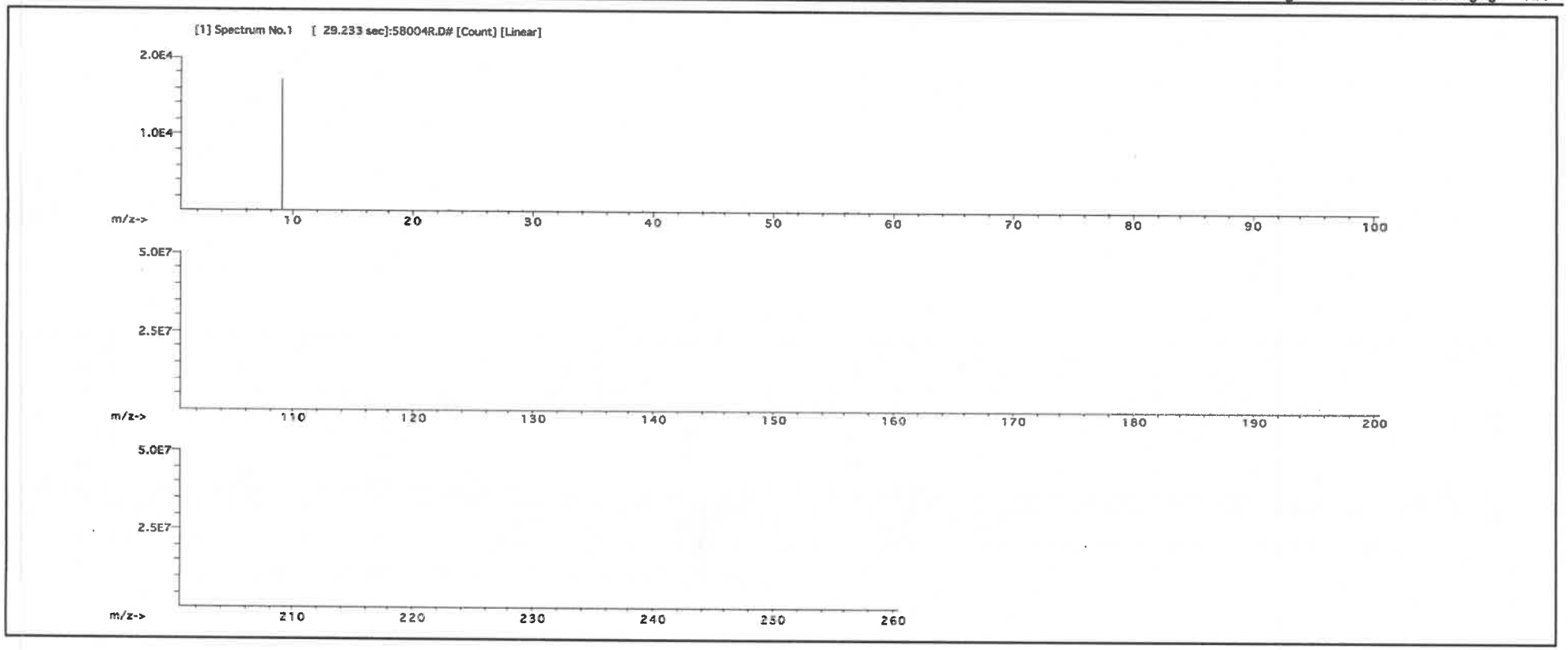
Revised

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



P3657-METALS

A3657-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

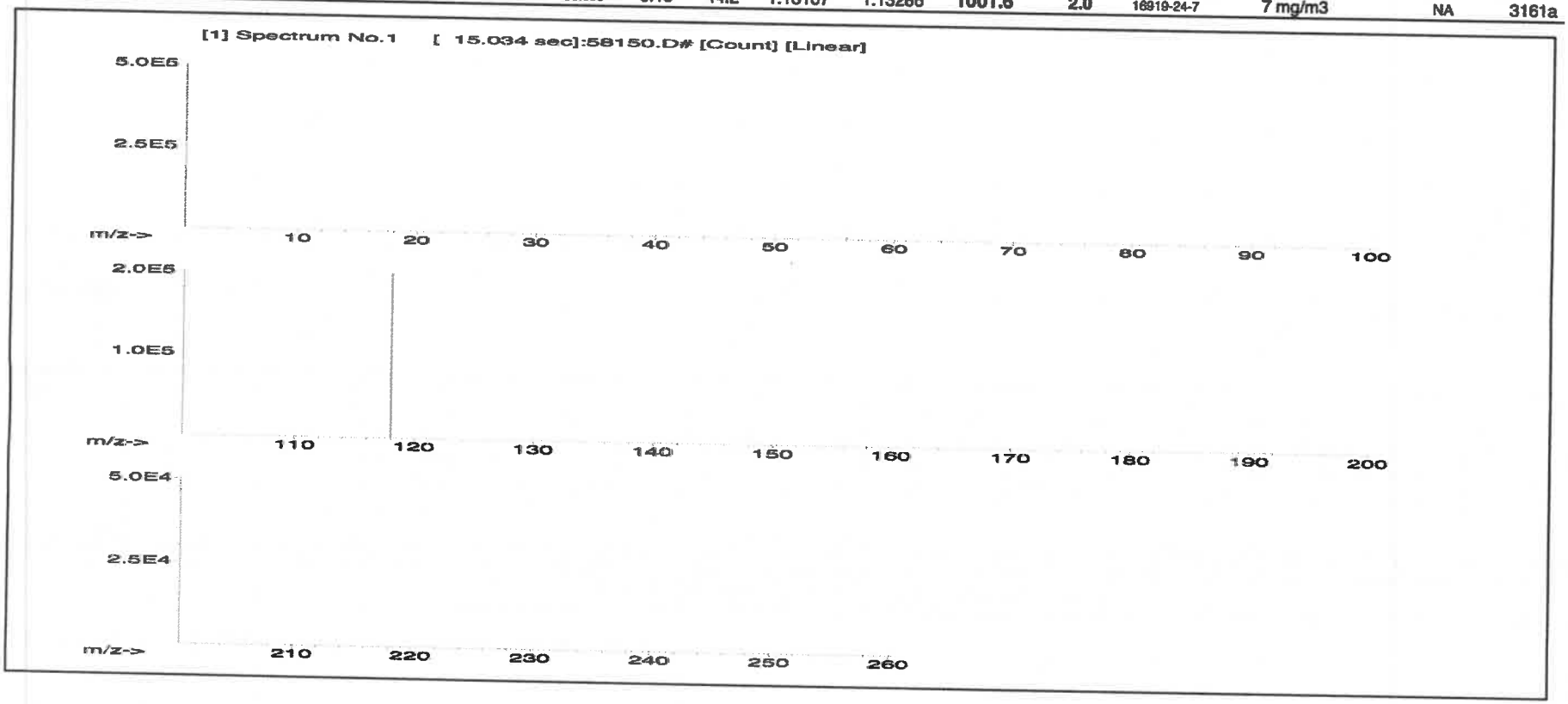
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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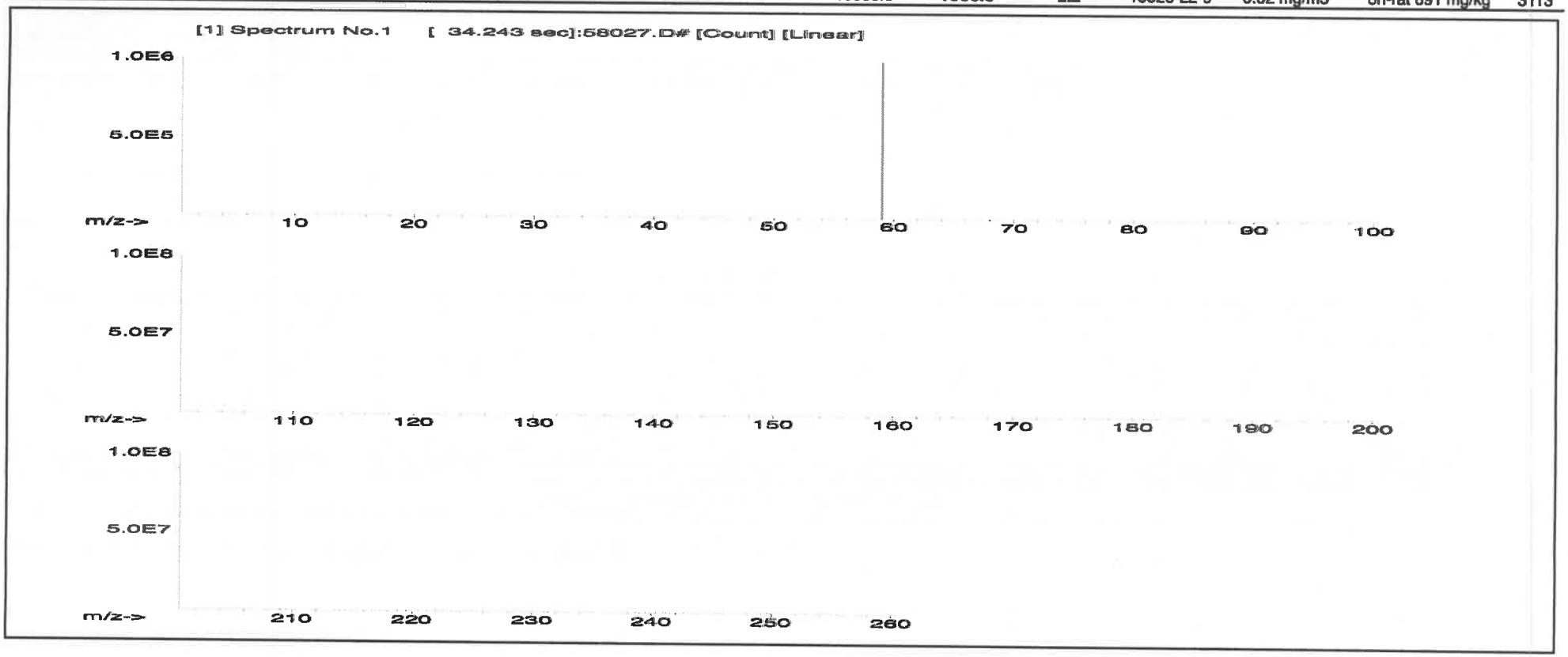
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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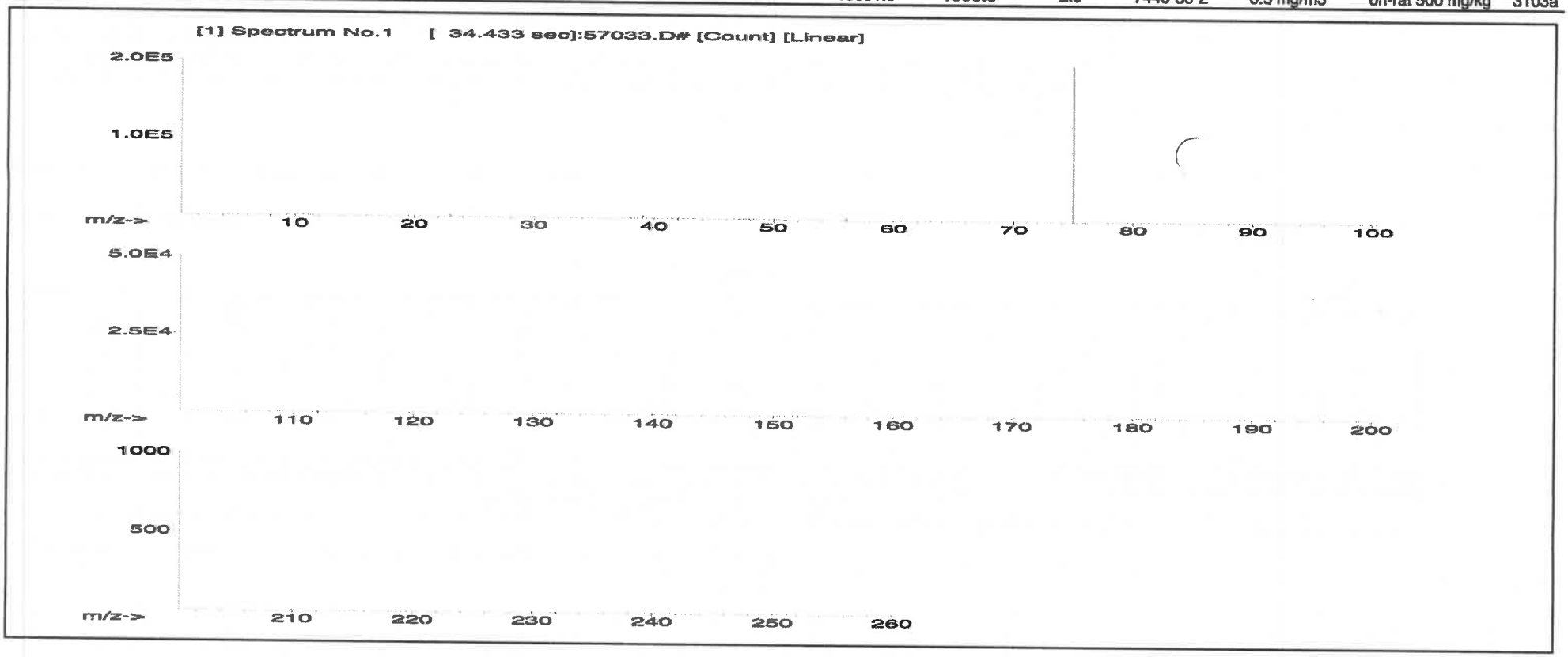
Revised

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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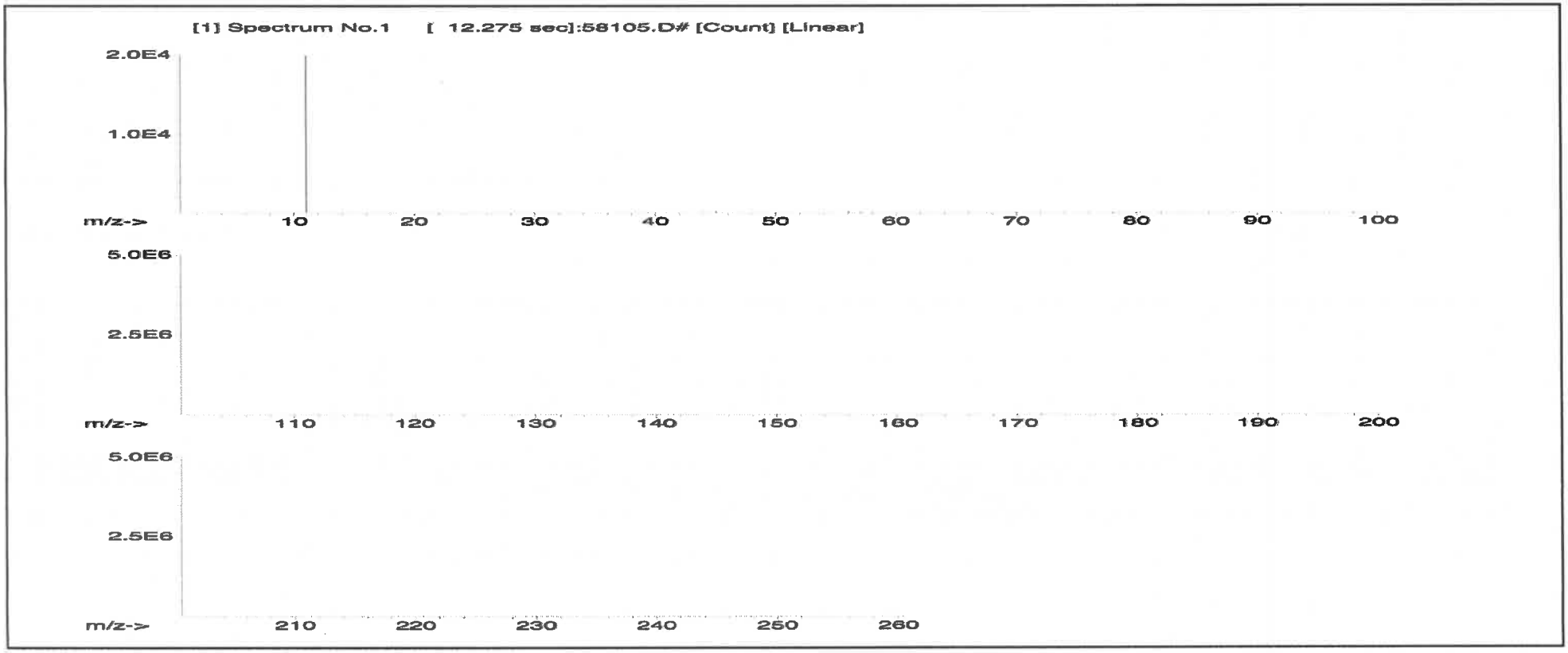
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Lot #**		
Lot Number:	**071123**	**Solvent:**	MKBQ8597V	Ammonium hydroxide	
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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

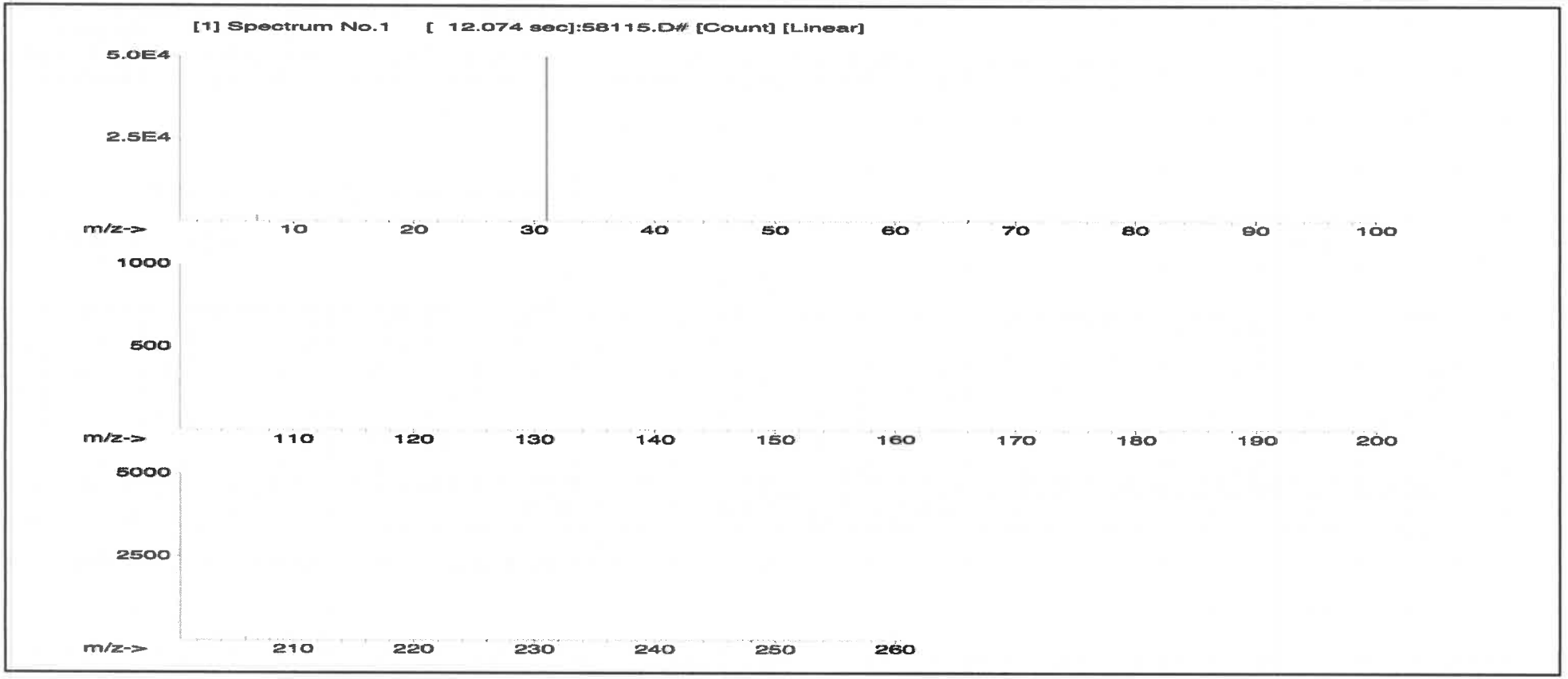
Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Expiration Date: 041726
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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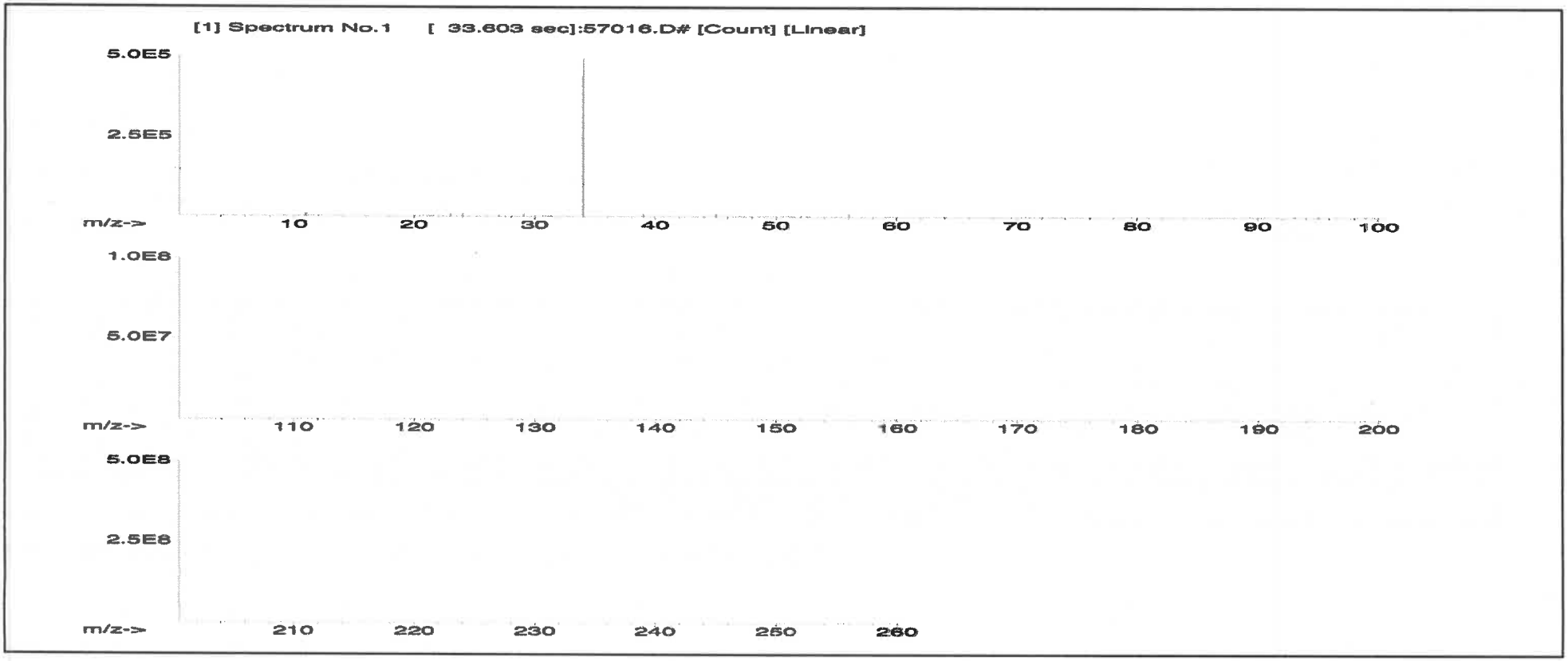
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**			**Lot #**	
Lot Number:	**122923**	**Solvent:**	122923	ASTM Type 1 Water	
Description:	**Sulfur (S)**				
Expiration Date:	122926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* 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:

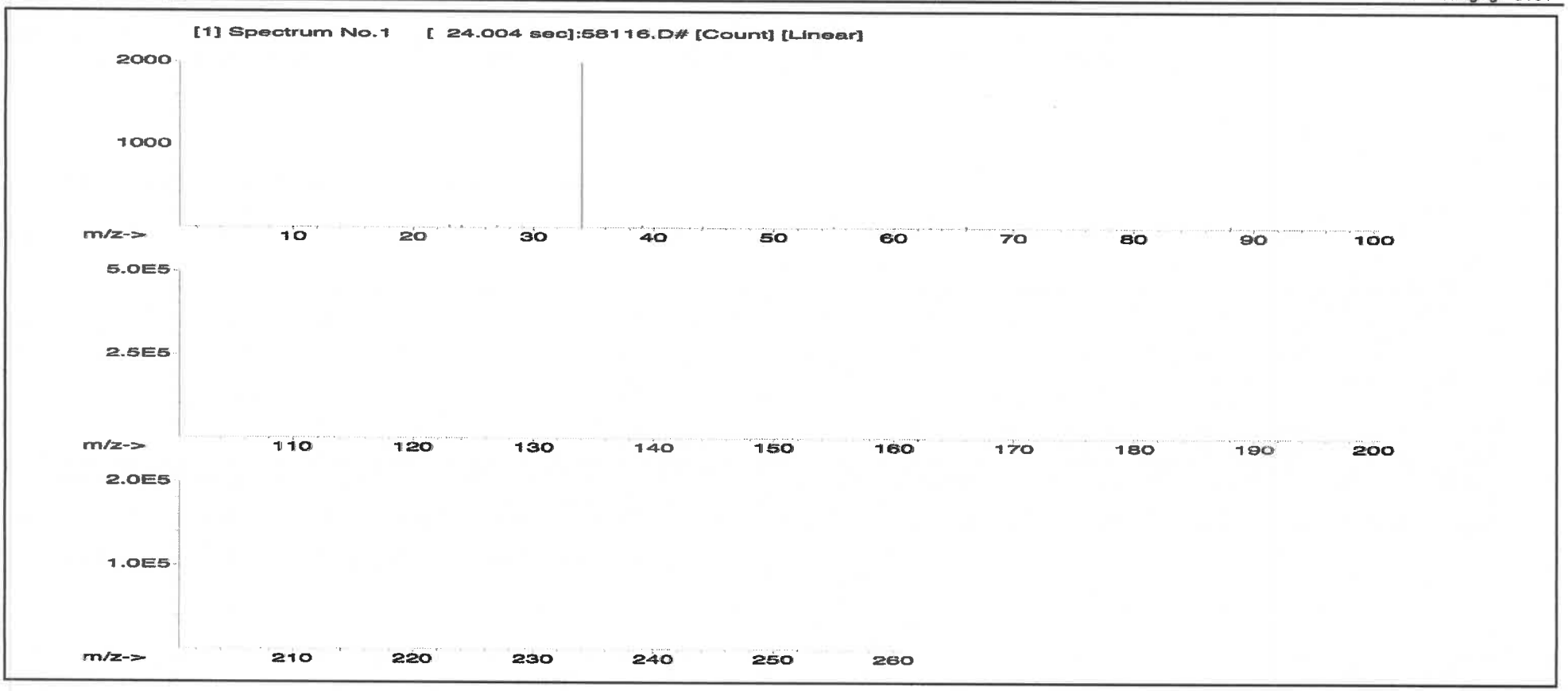
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry 071123
Reviewed By:	Pedro L. Rentas 071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 ± 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

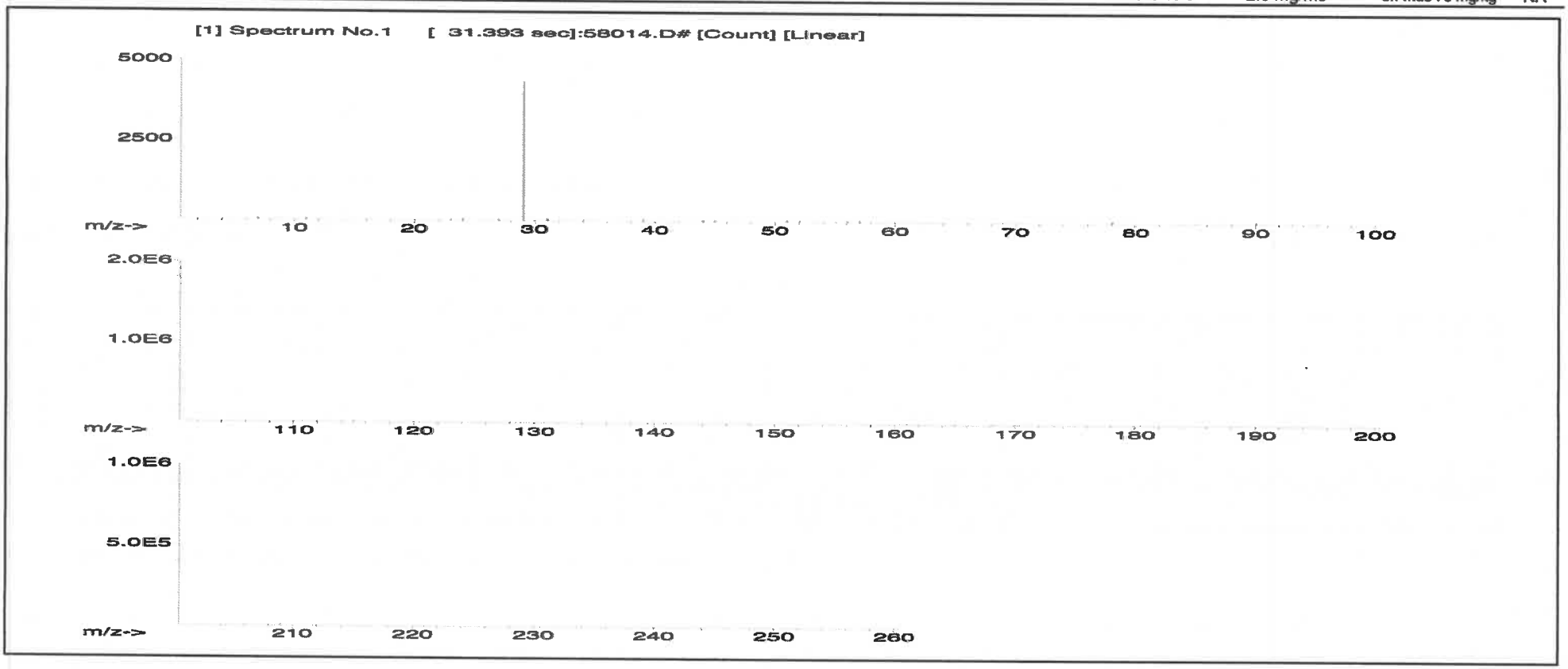
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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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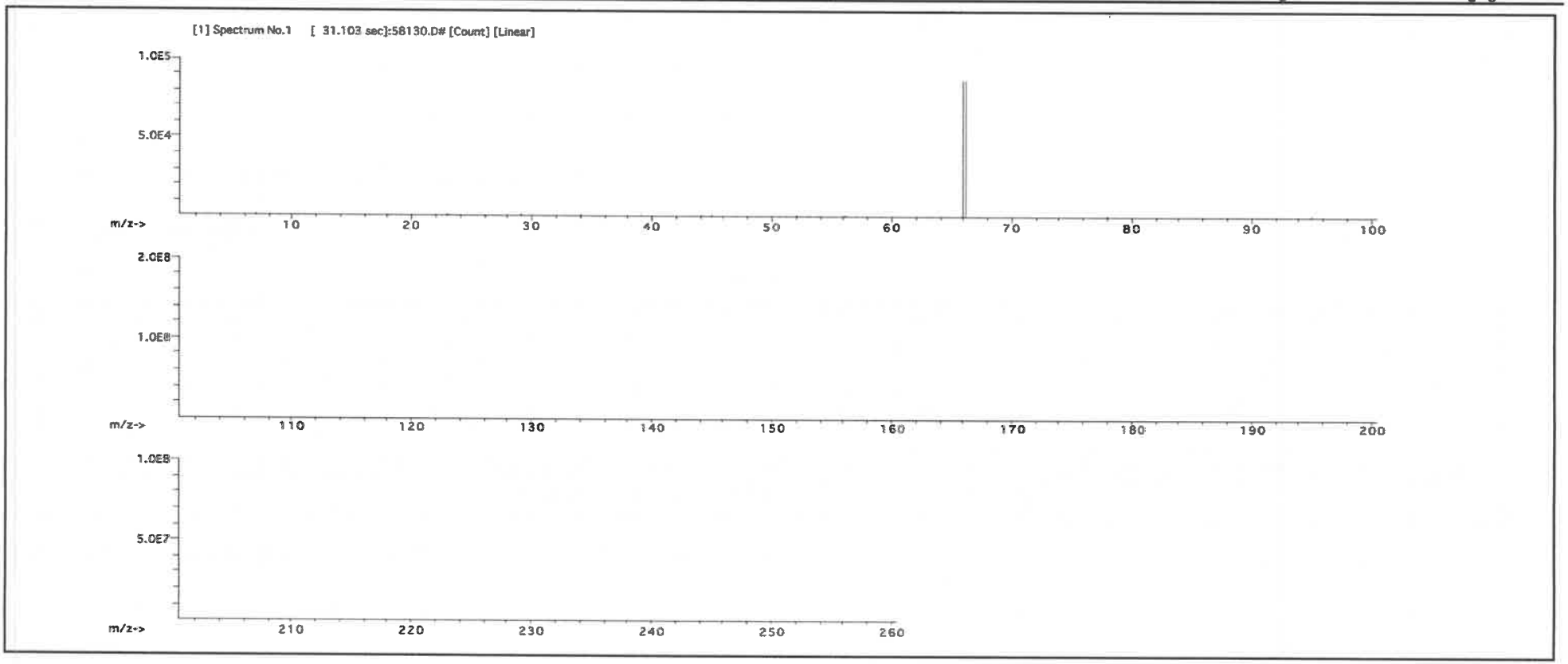
R: 02/09/24 M5819

CERTIFIED WEIGHT REPORT:

Part Number:	**58030**				
Lot Number:	**111623**				
Description:	**Zinc (Zn)**				
				Lot #	
			Solvent:	24002546	Nitric Acid
			2%	60.0 (mL)	Nitric Acid
Expiration Date:	111626				
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):	3000.4	0.06	Flask Uncertainty		

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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R: 02/09/24 M5820

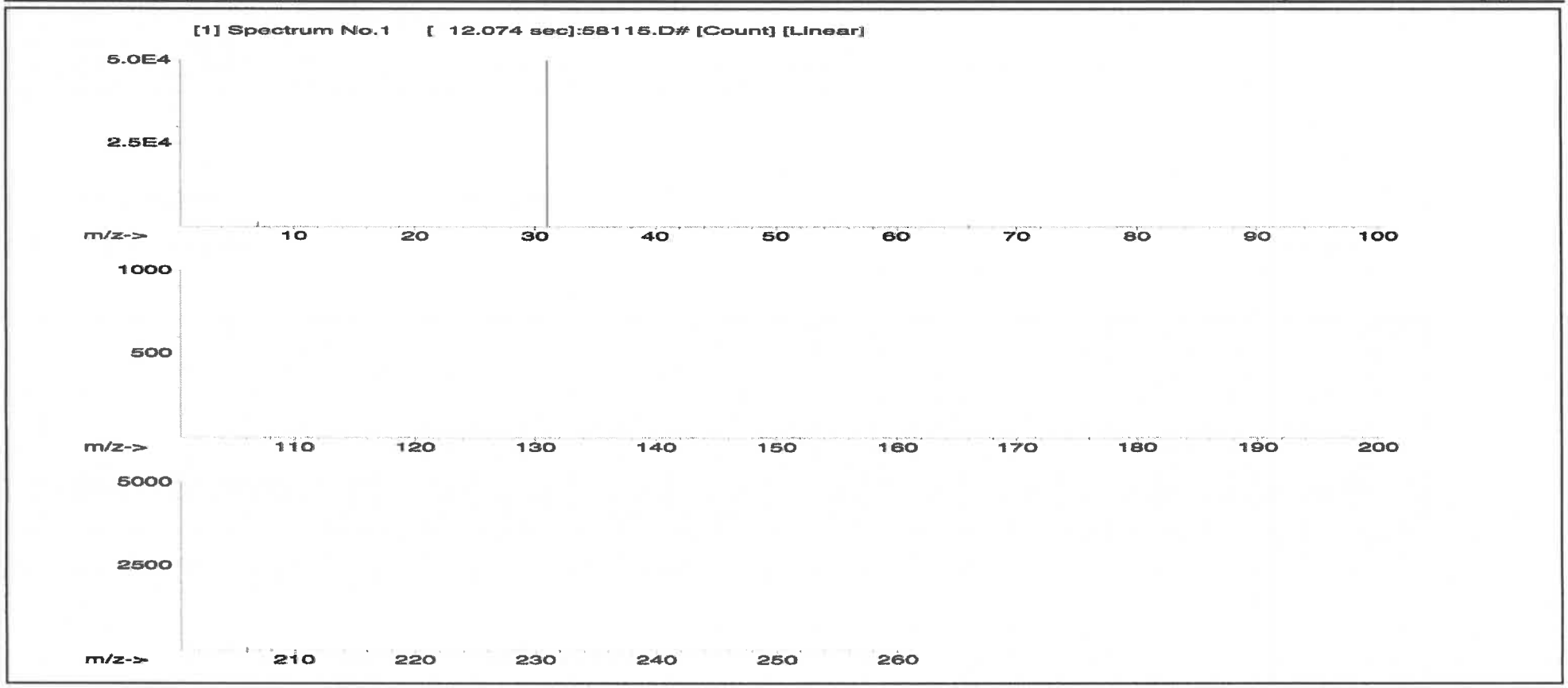
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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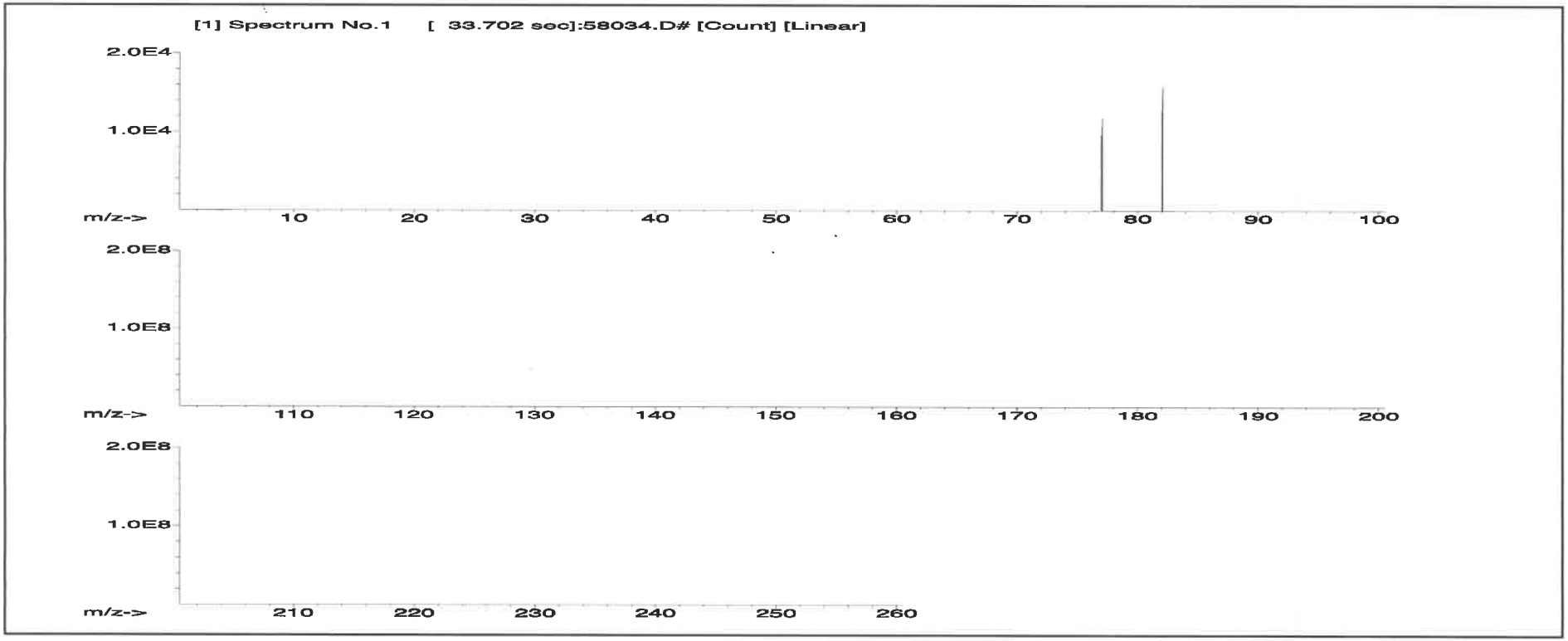
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

MS963 MS964 MS965
MS966 MS967 MS968

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

avantor™ | J.T.Baker®

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

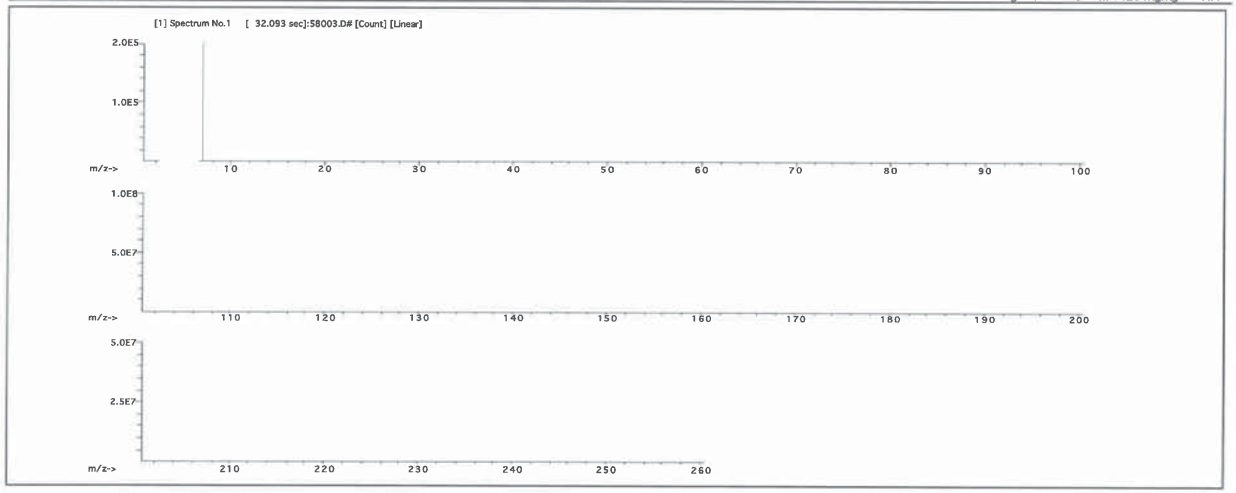
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 for months in 1% 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

45982 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)

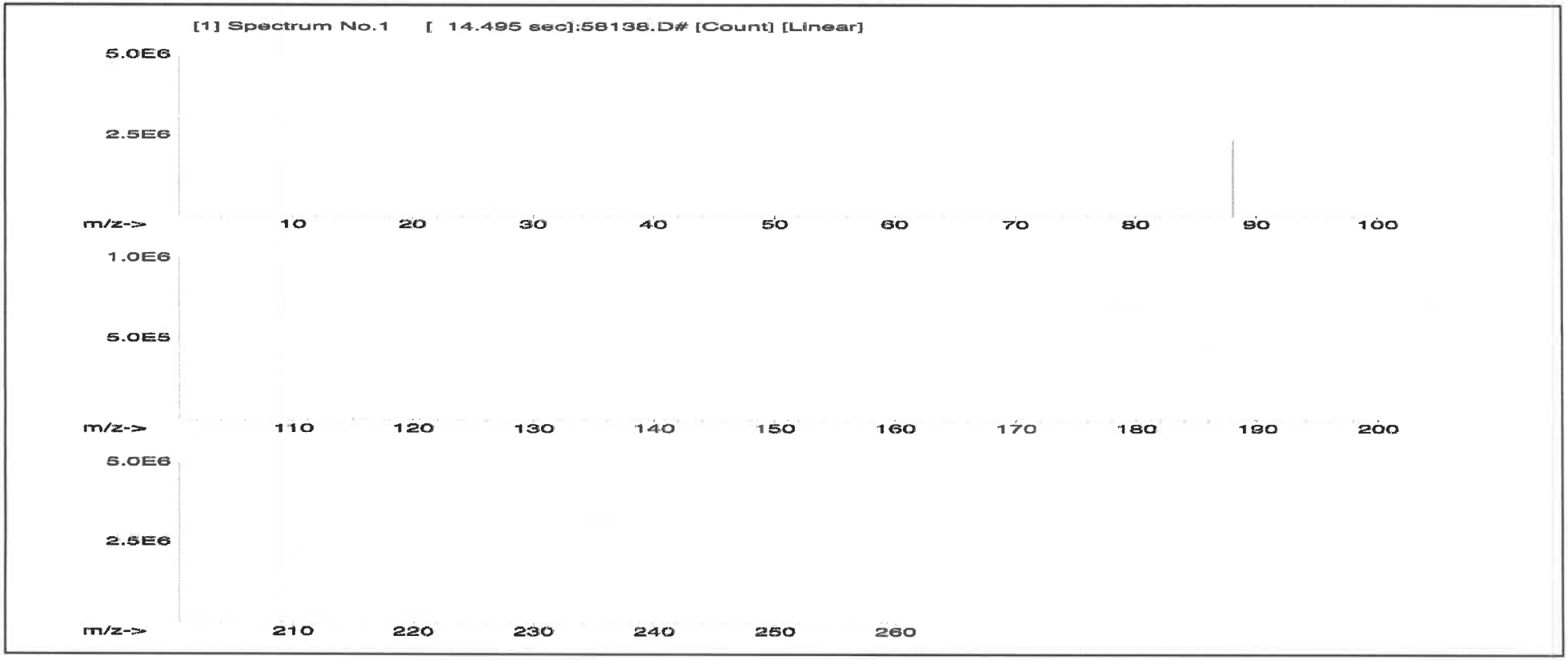
Expiration Date: 031527
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.100	Flask Uncertainty		

Formulated By: Benson Chan 031524

Reviewed By: Pedro L. Rentas 031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



P-3657-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

MS984
R:6/14/24

P: 800-669-6799/540-585-3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	
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	

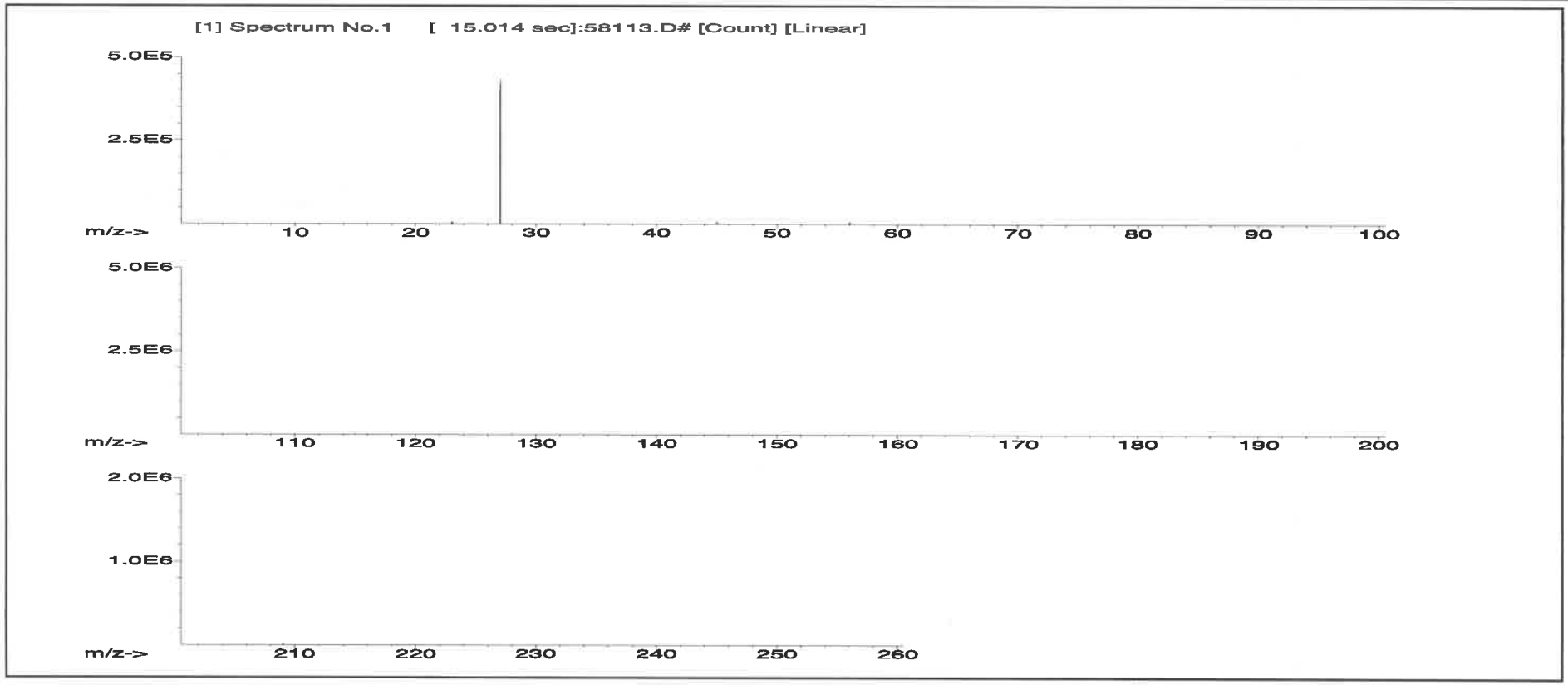
Giovanni Esposito

Formulated By:	Giovanni Esposito	011623

Pedro Rentas

Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Revised
544 of 571
P3657-METALS

Nitric Acid 69%
CMOS

Recv date: 1.1.—08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

Recv date: 1.1.—08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
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	1.192
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	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 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	3 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.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 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	< 0.4 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	< 0.2 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.: 24D1562005

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

Jamie Croak
Director Quality Operations, Bioscience Production

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R: 01/03/24 M5806, M5807

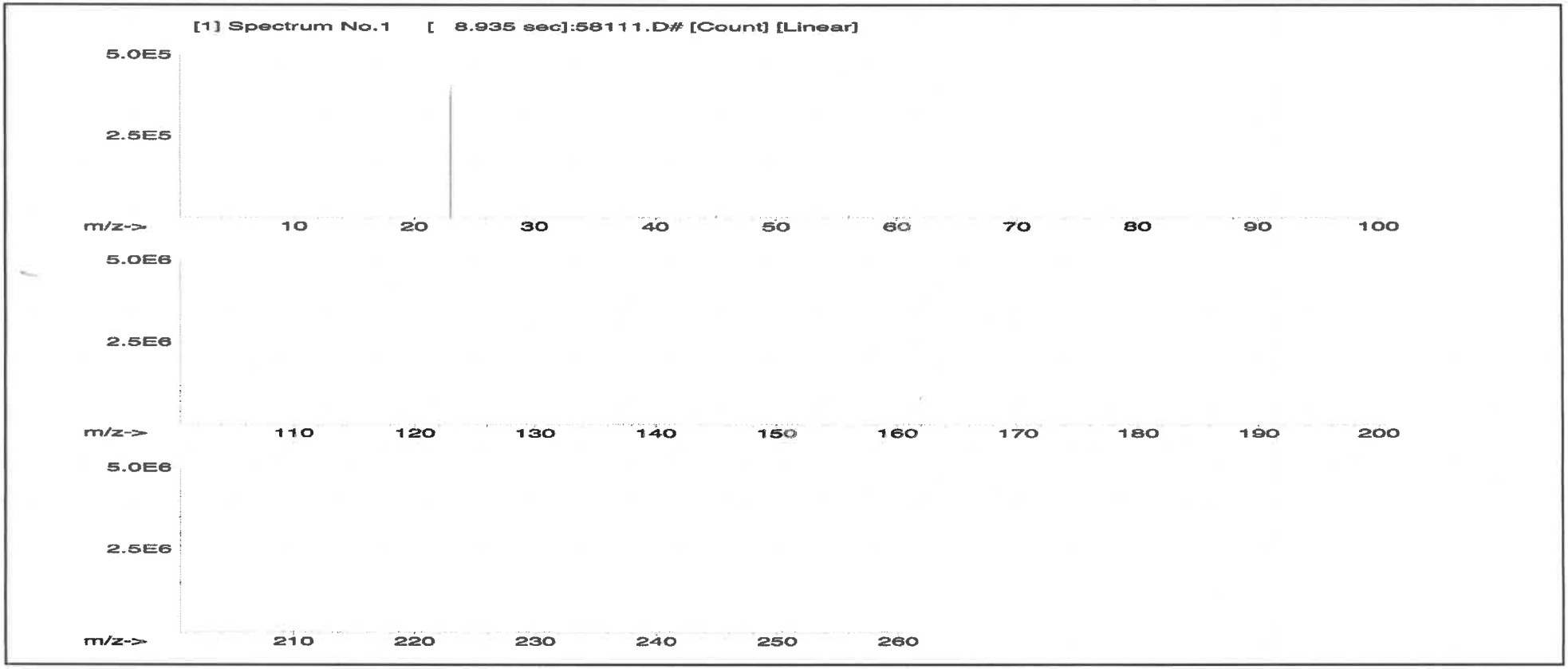
CERTIFIED WEIGHT REPORT:

Part Number:	**58111**		**Lot #**		
Lot Number:	**122223**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**	2%	60.0 (mL)	Nitric Acid	
Expiration Date:	122226				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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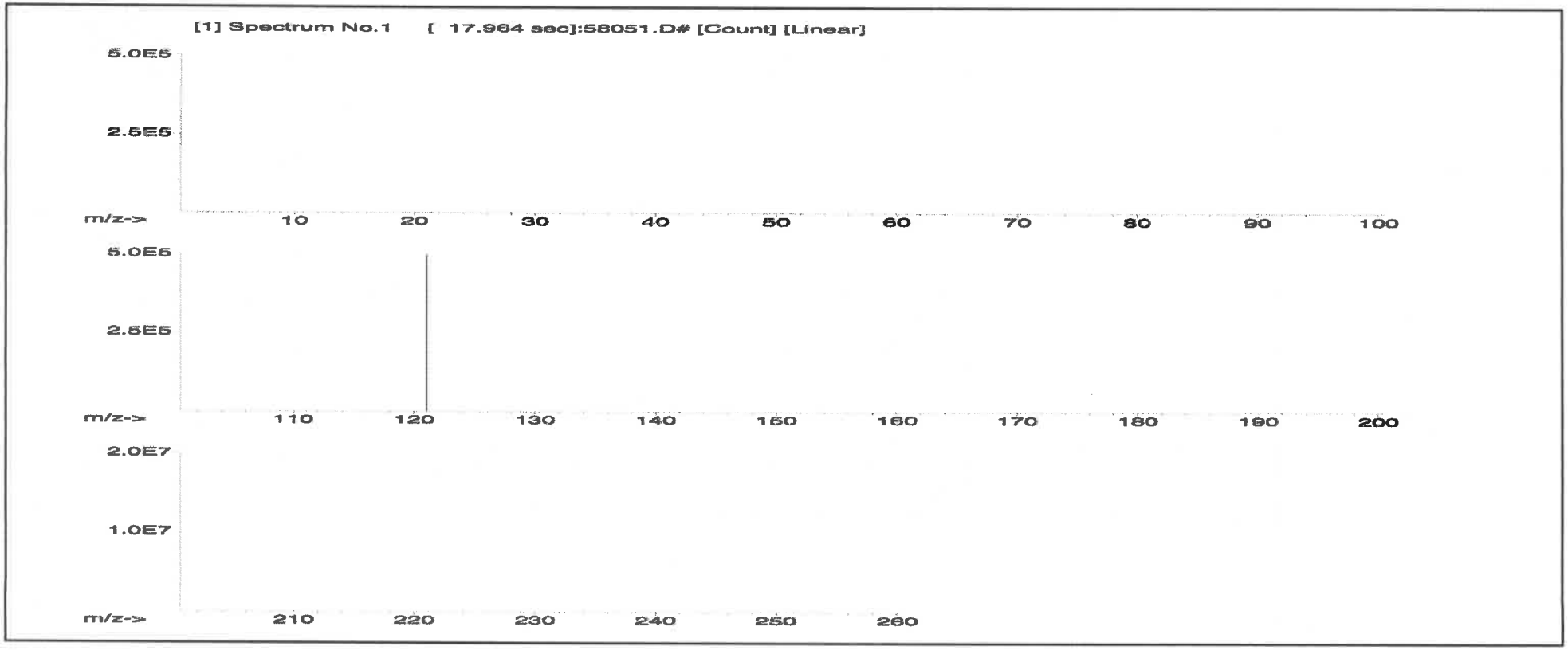
R: 01/03/24 M5802, M5803

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



Revised
556 of 571
P3657-METALS

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	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.
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M6030

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

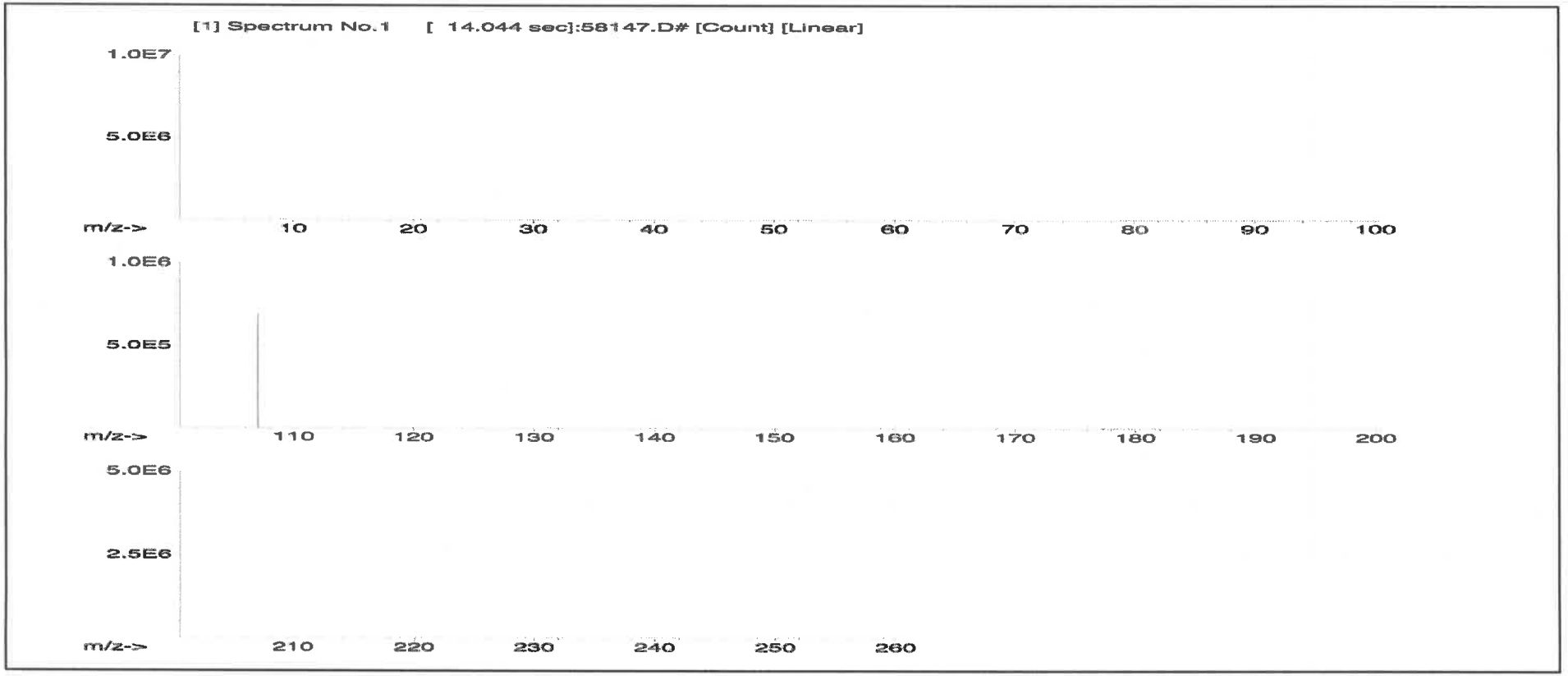
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	Lot #	
Solvent:	24002546	Nitric Acid
2%	80.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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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Revised

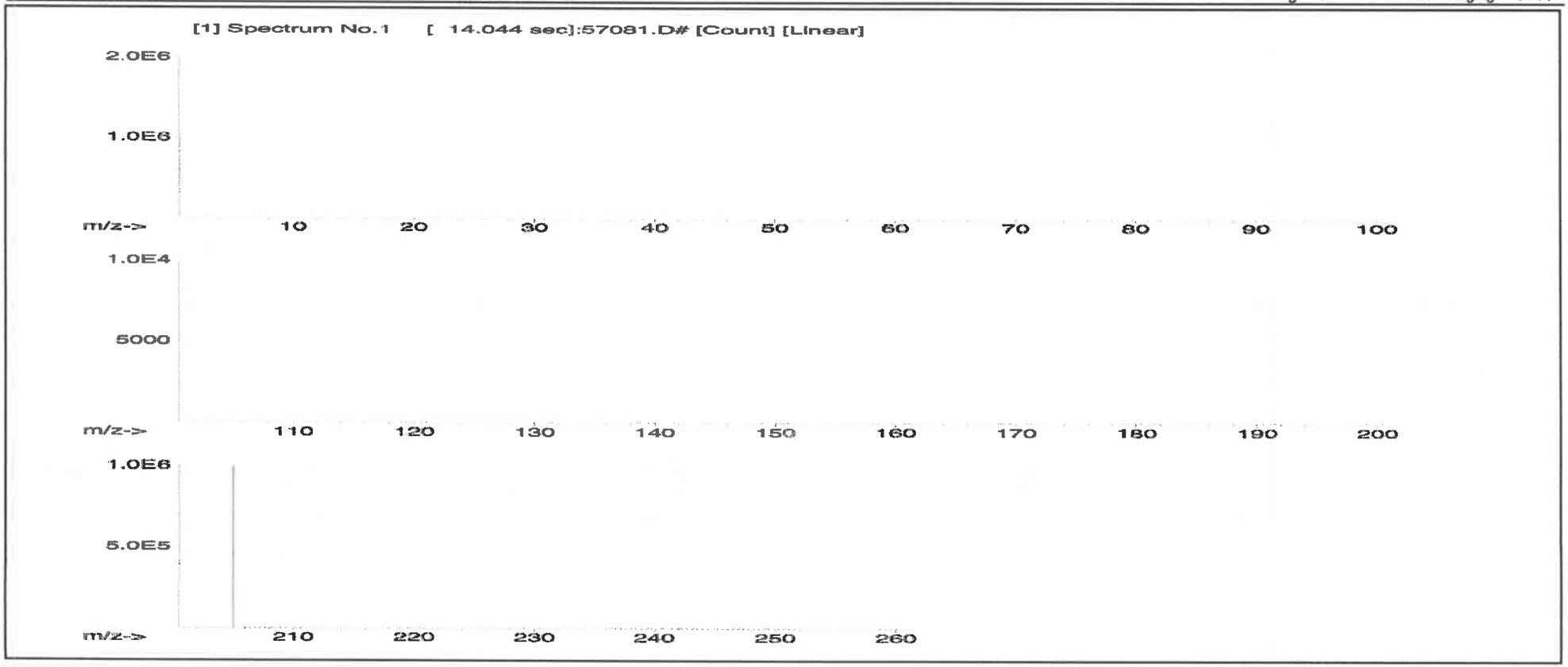
CERTIFIED WEIGHT REPORT:

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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57023**				
Lot Number:	**062424**	24002546	Nitric Acid		
Description:	**Vanadium (V)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	062427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty		

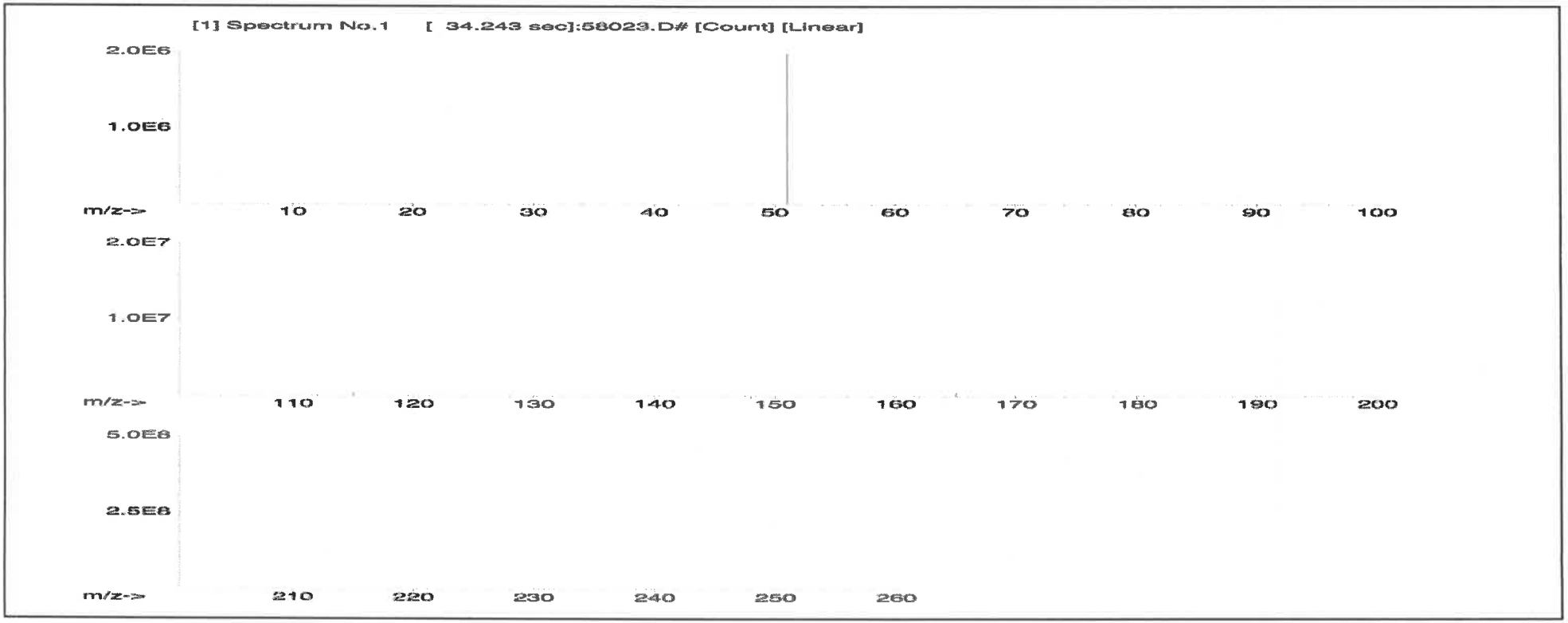
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CHEMTECH PROJECT NO. P3657
QUOTE NO.
COC Number 2041316

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite H 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yuhanta
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3779922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT 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)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

1 VOCs 8260D
2 SVOCs - 8270E; PAHs - 8270E SIM
3 Metals 6020B, Hg 7473
4 Cr(VI) 7196A
5 Siw 300.0 A
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 1	2	3	4	5	6	7	8	9	COMMENTS
1.	917-J-WS-081624	WS		X	8-16-24	0930	8	A/E 2	E 4	B/E 1	E 1						
2.	TB-01-081624	DI		X	8-16-24	1055	1	1									TB is unpreserved!
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	8-16-24 1245	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2-4 °C
Comments: See attached table for the required analytes list

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

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits

Site Sampling Plan for Ecological Evaluation

Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion[a]	Fresh Surface Water Chronic NJDEP Ecological Criterion[b]
ECO-SVOCs					
SW8270E	1,4-Dioxane	123-91-1	µg/L	0.4	--
SW8270E	1-Methylnaphthalene	90-12-0	µg/L	--	
SW8270E	2,4,5-Trichlorophenol	95-95-4	µg/L	700	
SW8270E	2,4,6-Trichlorophenol	88-06-2	µg/L	20	
SW8270E	2,4-Dinitrotoluene	121-14-2	µg/L	10	
SW8270E	2-Methylnaphthalene	91-57-6	µg/L	30	
SW8270E	2-Methylphenol	95-48-7	µg/L	--	
SW8270E	3 & 4-Methylphenol (m,p-Cresols)	65794-96-9	µg/L	--	
SW8270E	Acenaphthene	83-32-9	µg/L	400	
SW8270E	Acenaphthylene	208-96-8	µg/L	--	
SW8270E	Anthracene	120-12-7	µg/L	2000	
SW8270E	Benzaldehyde	100-52-7	µg/L	--	
SW8270E	Benzo(a)anthracene	56-55-3	µg/L	--	
SW8270E	Benzo(a)pyrene	50-32-8	µg/L	0.1	
SW8270E	Benzo(b)fluoranthene	205-99-2	µg/L	0.5	
SW8270E	Benzo(g,h,i)perylene	191-24-2	µg/L	--	
SW8270E	Benzo(k)fluoranthene	207-08-9	µg/L	0.5	
SW8270E	Bis (2-ethylhexyl) phthalate	117-81-7	µg/L	--	
SW8270E	Carbazole	86-74-8	µg/L	--	
SW8270E	Chrysene	218-01-9	µg/L	5	
SW8270E	Dibenzo(a,h)anthracene	53-70-3	µg/L	0.3	
SW8270E	Dibenzofuran	132-64-9	µg/L	--	
SW8270E	Di-N-Butylphthalate	84-74-2	µg/L	--	
SW8270E	Fluoranthene	206-44-0	µg/L	300	
SW8270E	Fluorene	86-73-7	µg/L	300	
SW8270E	Hexachlorobenzene	118-74-1	µg/L	0.02	
SW8270E	Hexachlorobutadiene	87-68-3	µg/L	1	
SW8270E	Hexachloroethane	67-72-1	µg/L	7	
SW8270E	Indeno(1,2,3-Cd)Pyrene	193-39-5	µg/L	0.2	
SW8270E	Naphthalene	91-20-3	µg/L	300	
SW8270E	Nitrobenzene	98-95-3	µg/L	6	
SW8270E	Pentachlorophenol	87-86-5	µg/L	0.3	
SW8270E	Phenanthrene	85-01-8	µg/L	--	
SW8270E	Pyrene	129-00-0	µg/L	200	
SW8270E	Pyridine	110-86-1	µg/L	--	
ECO-VOCs					
SW8260D	1,1,1-Trichloroethane	71-55-6	µg/L	30	76

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Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion[a]	Fresh Surface Water Chronic NJDEP Ecological Criterion[b]
SW8260D	1,1,2-Trichloroethane	79-00-5	µg/L	3	500
SW8260D	1,1-Dichloroethane	75-34-3	µg/L	50	--
SW8260D	1,1-Dichloroethene	75-35-4	µg/L	1	65
SW8260D	1,2-Dichlorobenzene	95-50-1	µg/L	600	14
SW8260D	1,2-Dichloroethane	107-06-2	µg/L	2	910
SW8260D	1,2-Dichloroethene (Total)	540-59-0	µg/L		
SW8260D	1,4-Dichlorobenzene	106-46-7	µg/L	75	9.4
SW8260D	2-Butanone	78-93-3	µg/L	300	--
SW8260D	Acetone	67-64-1	µg/L	6000	--
SW8260D	Benzene	71-43-2	µg/L	1	114
SW8260D	Bromodichloromethane	75-27-4	µg/L	1	--
SW8260D	Bromomethane	74-83-9	µg/L	10	--
SW8260D	Carbon disulfide	75-15-0	µg/L	700	--
SW8260D	Carbon tetrachloride	56-23-5	µg/L	1	240
SW8260D	Chlorobenzene	108-90-7	µg/L	50	47
SW8260D	Chloroethane	75-00-3	µg/L	--	--
SW8260D	Chloroform	67-66-3	µg/L	70	140
SW8260D	Chloromethane	74-87-3	µg/L	--	--
SW8260D	cis-1,2-Dichloroethene	156-59-2	µg/L	70	--
SW8260D	Cyclohexane	110-82-7	µg/L	--	--
SW8260D	Dibromochloromethane	124-48-1	µg/L	1	--
SW8260D	Dichlorodifluoromethane	75-71-8	µg/L	1000	--
SW8260D	Ethylbenzene	100-41-4	µg/L	700	14
SW8260D	Freon TF	76-13-1	µg/L	20000	--
SW8260D	Isopropylbenzene	98-82-8	µg/L	700	--
SW8260D	m&p-Xylene	179601-23-1	µg/L	1000	27
SW8260D	Methylcyclohexane	108-87-2	µg/L	--	--
SW8260D	Methylene Chloride	75-09-2	µg/L	3	940
SW8260D	MTBE	1634-04-4	µg/L	70	51000
SW8260D	o-Xylene	95-47-6	µg/L	1000	27
SW8260D	Tetrachloroethene	127-18-4	µg/L	1	45
SW8260D	Toluene	108-88-3	µg/L	600	253
SW8260D	trans-1,2-Dichloroethene	156-60-5	µg/L	100	970
SW8260D	Trichloroethene	79-01-6	µg/L	1	47
SW8260D	Vinyl chloride	75-01-4	µg/L	1	930
SW8260D	Xylenes, Total	1330-20-7	µg/L		
ECO-PAHs					
SW8270E SIM	1,4-Dioxane	123-91-1	µg/L	0.4	--

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Site Sampling Plan for Ecological Evaluation

Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion[a]	Fresh Surface Water Chronic NJDEP Ecological Criterion[b]
SW8270E SIM	2-Methylnaphthalene	91-57-6	µg/L	30	330
SW8270E SIM	Acenaphthene	83-32-9	µg/L	400	38
SW8270E SIM	Acenaphthylene	208-96-8	µg/L	--	4840
SW8270E SIM	Anthracene	120-12-7	µg/L	2000	0.035
SW8270E SIM	Benzo(a)anthracene	56-55-3	µg/L	0.1	0.025
SW8270E SIM	Benzo(a)pyrene	50-32-8	µg/L	0.1	0.014
SW8270E SIM	Benzo(b)fluoroanthene	205-99-2	µg/L	0.2	9.07
SW8270E SIM	Benzo(g,h,i)perylene	191-24-2	µg/L	--	7.64
SW8270E SIM	Benzo(k)fluoroanthene	207-08-9	µg/L	0.5	--
SW8270E SIM	Chrysene	218-01-9	µg/L	5	--
SW8270E SIM	Dibenz(a,h)anthracene	53-70-3	µg/L	0.3	--
SW8270E SIM	Fluoroanthene	206-44-0	µg/L	300	1.9
SW8270E SIM	Fluorene	86-73-7	µg/L	300	19
SW8270E SIM	Indeno[1,2,3-cd]pyrene	193-39-5	µg/L	0.2	4.31
SW8270E SIM	Naphthalene	91-20-3	µg/L	300	13
SW8270E SIM	Phenanthrene	85-01-8	µg/L	--	3.6
SW8270E SIM	Pyrene	129-00-0	µg/L	200	0.3
ECO-Metals					
SW3060A/7196A	Hexavalent Chromium	18540-29-9	µg/L	--	10
SW7470A	Mercury	7439-97-6	µg/L	2	0.77
SW6020B	Aluminum	7429-90-5	µg/L	--	--
SW6020B	Antimony	7440-36-0	µg/L	6	80
SW6020B	Arsenic	7440-38-2	µg/L	3	150
SW6020B	Barium	7440-39-3	µg/L	6000	220
SW6020B	Beryllium	7440-41-7	µg/L	1	3.6
SW6020B	Cadmium	7440-43-9	µg/L	4	--
SW6020B	Calcium	7440-70-2	µg/L	--	--
SW6020B	Chromium	7440-47-3	µg/L	--	42
SW6020B	Cobalt	7440-48-4	µg/L	100	24
SW6020B	Copper	7440-50-8	µg/L	1300	--
SW6020B	Iron	7439-89-6	µg/L	--	--
SW6020B	Lead	7439-92-1	µg/L	5	5.4
SW6020B	Magnesium	7439-95-4	µg/L	--	--
SW6020B	Manganese	7439-96-5	µg/L	--	--
SW6020B	Nickel	7440-02-0	µg/L	100	--
SW6020B	Potassium	7440-09-7	µg/L	--	--
SW6020B	Selenium	7782-49-2	µg/L	40	5
EPA 200.7	Silica	7631-86-9	µg/L	--	--

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Site Sampling Plan for Ecological Evaluation

Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion[a]	Fresh Surface Water Chronic NJDEP Ecological Criterion[b]
SW6020B	Silver	7440-22-4	µg/L	40	**0.12**
SW6020B	Sodium	7440-23-5	µg/L	--	--
SW6020B	Thallium	7440-28-0	µg/L	--	10
SW6020B	Vanadium	7440-62-2	µg/L	--	12
SW6020B	Zinc	7440-66-6	µg/L	2000	--

Notes:

[a] New Jersey Department of Environmental Protection (NJDEP) Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards.

[b] NJDEP Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards. NJDEP Ecological Surface Water SSLs. March 2009.

Bold = MDL and RL exceed screening criteria.

-- = not available (no standard)

µg/L = microgram(s) per liter

CAS = Chemical Abstracts Service

Freon TF = 1,1,2-Trichloro-1,2,2-trifluoroethane

MDL = method detection limit

MTBE = methyl tert butyl ether

NJDEP = New Jersey Department of Environmental Protection

PAH = polycyclic aromatic hydrocarbon

PQL = Practical Quantitation Level as defined in N.J.A.C. 7:9C-1.4

RL = reporting limit

SIM = selected ion method

SVOC = semivolatile organic compound

VOC = volatile organic compound

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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3657 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : Mary I. Murphy
Invoice Name : JACOBS Engineering Grou
Invoice Contact : Mary I. Murphy

Order Date : 8/16/2024 2:45:00 PM
Project Name : Former Schlumberger Site I
Receive DateTime : 8/16/2024 ~~12:00:00 AM~~ 12:45
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3657-01	~~717~~-J-WS-O81624 917	Water	08/16/2024	09:30					
					VOCMS Group6		8260-Low		10 Bus. Days
P3657-02	TB-01-081624	Water	08/16/2024	10:55					
					VOCMS Group6		8260-Low		10 Bus. Days

Relinguished By : JM
Date / Time : 08-16-24 1524

Received By : Sam
Date / Time : 8/16/24 15:24 4 of 4

Storage Area : VOA Refridgerator Room