SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHL28

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHL28	P5063-01	X			
MBHL29	P5063-02	X			
MBHL30	P5063-03	X			
MBHL31	P5063-04	X			
MBHL32	P5063-05	X			
MBHL33	P5063-06	X			
MBHL34	P5063-07	X			
MBHL34D	P5063-08	X			
MBHL34S	P5063-09	X			
MBHL77	P5063-10	X			
MBHL78	P5063-11	X			
MBHL79	P5063-12	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MBHL28

USEPA CLP COC (LAB COPY)
DateShipped: 12/2/2024
CarrierName: FedEx
AirbillNo: 7704 1901 4696

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 5

No: 2-120224-154336-0038
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P177-SB-10-Z00-02	MBHL28	Soil/		ICP-AES(35)	5012 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z02-06	MBHL29	Soil/		ICP-AES(35)	5013 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z06-12	MBHL30	Soil/		ICP-AES(35)	5014 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z12-18	MBHL31	Soil/		ICP-AES(35)	5015 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z18-24	MBHL32	Soil/		ICP-AES(35)	5016 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z24-30	MBHL33	Soil/		ICP-AES(35)	5017 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	
P177-SB-10-Z30-36	MBHL34	Soil/		ICP-AES(35)	5018 (Wet ice < 6 C) (1)	P177-SB-10	11/22/2024 12:25	QV
P177-SB-01-Z00-02	MBHL77	Soil/		ICP-AES(35)	4949 (Wet ice < 6 C) (1)	P177-SB-01	11/21/2024 11:40	
P177-SB-01-Z02-06	MBHL78	Soil/		ICP-AES(35)	4950 (Wet ice < 6 C) (1)	P177-SB-01	11/21/2024 11:40	
P177-SB-01-Z06-12	MBHL79	Soil/		ICP-AES(35)	4951 (Wet ice < 6 C) (1)	P177-SB-01	11/21/2024 11:40	

Sample(s) to be used for Lab QC: P177-SB-10-Z30-36 Tag 5018 - Special Instructions: Samples MBHL82 and MBHL34 are MS/MSDs. Samples MBHL28, MBHL29, MBHL30, MBHL31, MBHL98 and MBHL70 have limited sample mass.	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	1720 12/02/24		12-3-24 0850	1.9°C IR Gun #1
	MA	12/02/24			custody seals INTACT
					Temp Blk. present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Gorge Vegual		Log-in Date **12/3/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHL28	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770419014696 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.9 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/03/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHL28	N/A	5012	P5063-01	Intact
2	MBHL29	N/A	5013	P5063-02	Intact
3	MBHL30	N/A	5014	P5063-03	Intact
4	MBHL31	N/A	5015	P5063-04	Intact
5	MBHL32	N/A	5016	P5063-05	Intact
6	MBHL33	N/A	5017	P5063-06	Intact
7	MBHL34	N/A	5018	P5063-07	Intact
8	MBHL34D	N/A	5018	P5063-08	Intact
9	MBHL34S	N/A	5018	P5063-09	Intact
10	MBHL77	N/A	4949	P5063-10	Intact
11	MBHL78	N/A	4950	P5063-11	Intact
12	MBHL79	N/A	4951	P5063-12	Intact
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 12/3/24	Logbook Page No. N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51879**	SDG NO.	**MBHL28**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	11	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	12	21	✓	
9. Instrument raw data by instrument in analysis order	22	799	✓	
Other Data				
10. Standard and Reagent Preparation Logs	800	937	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	938	939	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	940	974	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	975	975	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	976	977	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	978	978	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab) _____ (Signature) Nimisha Pandya, Document Control Officer (Print Name & Title) _____ (Date)

Audited by:
(EPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBHL28
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5063

A. Number of Samples and Date of Receipt

10 Soil samples were delivered to the laboratory intact on 12/03/2024.

B. Parameters

Test requested for Metals CLP Full - Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 1.9^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHL28 For Arsenic:

If C = 0.1121510 ppm
Vf = 100 ml
W = 1.44g
S = 0.681 (68.1/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1121510 \times \frac{100}{1.44 \times 0.681} \times 1$$

$$= 11.4365 \text{ mg/kg}$$

$$= 11 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Copper, Selenium, Silver, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt, Lead, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

284 Sheffield Street
Mountainside, NJ 07092

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 Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/5/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:10
In Date: 12/04/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 12/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133730

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5063-01	MBHL28	1	1.15	8.55	9.7	6.97	68.1	
P5063-02	MBHL29	2	1.15	8.61	9.76	8.21	82.0	
P5063-03	MBHL30	3	1.16	8.65	9.81	8.71	87.3	
P5063-04	MBHL31	4	1.14	8.59	9.73	8.81	89.3	
P5063-05	MBHL32	5	1.19	8.70	9.89	8.88	88.4	
P5063-06	MBHL33	6	1.16	8.44	9.6	8.73	89.7	
P5063-07	MBHL34	7	1.17	8.58	9.75	9.17	93.2	
P5063-08	MBHL34D	8	1.17	8.58	9.75	9.17	93.2	
P5063-09	MBHL34S	9	1.17	8.58	9.75	9.17	93.2	
P5063-10	MBHL77	10	1.14	8.81	9.95	7.66	74.0	
P5063-11	MBHL78	11	1.14	8.40	9.54	7.52	76.0	
P5063-12	MBHL79	12	1.15	8.81	9.96	8.34	81.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

M133730

WorkList Name : %1-p5063 **WorkList ID :** 185973 **Department :** Wet-Chemistry **Date :** 12-04-2024 12:36:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5063-01	MBHL28	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-02	MBHL29	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-03	MBHL30	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-04	MBHL31	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-05	MBHL32	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-06	MBHL33	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-07	MBHL34	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-08	MBHL34D	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-09	MBHL34S	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-10	MBHL77	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5063-11	MBHL78	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/21/2024	Chemtech -SO
P5063-12	MBHL79	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/21/2024	Chemtech -SO

11

Date/Time 12/04/24 13:40

Raw Sample Received by: JR (WC)

Raw Sample Relinquished by: JTC(SM)

Date/Time 12/04/24 15:15

Raw Sample Received by: JTC(SM)

Raw Sample Relinquished by: JR (WC)

EPA SAMPLE NO.

MBHL28

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-01

% Solids: 68.1 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5400		12/23/2024	2103
7440-36-0	Antimony	2.9	J*	12/23/2024	2103
7440-38-2	Arsenic	11		12/23/2024	2103
7440-39-3	Barium	95		12/23/2024	2103
7440-41-7	Beryllium	0.61		12/23/2024	2103
7440-43-9	Cadmium	0.86		12/23/2024	2103
7440-70-2	Calcium	62000		12/23/2024	2103
7440-47-3	Chromium	16		12/23/2024	2103
7440-48-4	Cobalt	11	*	12/23/2024	2103
7440-50-8	Copper	29	*	12/23/2024	2103
7439-89-6	Iron	14000		12/23/2024	2103
7439-92-1	Lead	130	*	12/23/2024	2103
7439-95-4	Magnesium	35000		12/23/2024	2103
7439-96-5	Manganese	850		12/23/2024	2103
7440-02-0	Nickel	23		12/23/2024	2103
7440-09-7	Potassium	850		12/23/2024	2103
7782-49-2	Selenium	4.7	*	12/23/2024	2103
7440-22-4	Silver	0.58	J*	12/23/2024	2103
7440-23-5	Sodium	510	U	12/23/2024	2103
7440-28-0	Thallium	2.6	U	12/23/2024	2103
7440-62-2	Vanadium	18		12/23/2024	2103
7440-66-6	Zinc	130	*	12/23/2024	2103

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL29

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-02

% Solids: 82 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6300		12/23/2024	2107
7440-36-0	Antimony	3.2	J*	12/23/2024	2107
7440-38-2	Arsenic	16		12/23/2024	2107
7440-39-3	Barium	100		12/23/2024	2107
7440-41-7	Beryllium	0.73		12/23/2024	2107
7440-43-9	Cadmium	0.95		12/23/2024	2107
7440-70-2	Calcium	9200		12/23/2024	2107
7440-47-3	Chromium	20		12/23/2024	2107
7440-48-4	Cobalt	11	*	12/23/2024	2107
7440-50-8	Copper	39	*	12/23/2024	2107
7439-89-6	Iron	17000		12/23/2024	2107
7439-92-1	Lead	310	*	12/23/2024	2107
7439-95-4	Magnesium	4300		12/23/2024	2107
7439-96-5	Manganese	870		12/23/2024	2107
7440-02-0	Nickel	28		12/23/2024	2107
7440-09-7	Potassium	530		12/23/2024	2107
7782-49-2	Selenium	8.6	*	12/23/2024	2107
7440-22-4	Silver	0.72	J*	12/23/2024	2107
7440-23-5	Sodium	510	U	12/23/2024	2107
7440-28-0	Thallium	2.6	U	12/23/2024	2107
7440-62-2	Vanadium	19		12/23/2024	2107
7440-66-6	Zinc	130	*	12/23/2024	2107

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL30

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-03

% Solids: 87.3 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6800		12/23/2024	2111
7440-36-0	Antimony	4.1	J*	12/23/2024	2111
7440-38-2	Arsenic	17		12/23/2024	2111
7440-39-3	Barium	120		12/23/2024	2111
7440-41-7	Beryllium	0.78		12/23/2024	2111
7440-43-9	Cadmium	0.84		12/23/2024	2111
7440-70-2	Calcium	5800		12/23/2024	2111
7440-47-3	Chromium	16		12/23/2024	2111
7440-48-4	Cobalt	11	*	12/23/2024	2111
7440-50-8	Copper	38	*	12/23/2024	2111
7439-89-6	Iron	19000		12/23/2024	2111
7439-92-1	Lead	160	*	12/23/2024	2111
7439-95-4	Magnesium	3200		12/23/2024	2111
7439-96-5	Manganese	1100		12/23/2024	2111
7440-02-0	Nickel	22		12/23/2024	2111
7440-09-7	Potassium	450	J	12/23/2024	2111
7782-49-2	Selenium	10	*	12/23/2024	2111
7440-22-4	Silver	0.77	J*	12/23/2024	2111
7440-23-5	Sodium	460	U	12/23/2024	2111
7440-28-0	Thallium	2.3	U	12/23/2024	2111
7440-62-2	Vanadium	20		12/23/2024	2111
7440-66-6	Zinc	110	*	12/23/2024	2111

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL31

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-04

% Solids: 89.3 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6600		12/23/2024	2115
7440-36-0	Antimony	3.6	J*	12/23/2024	2115
7440-38-2	Arsenic	15		12/23/2024	2115
7440-39-3	Barium	96		12/23/2024	2115
7440-41-7	Beryllium	0.68		12/23/2024	2115
7440-43-9	Cadmium	0.64		12/23/2024	2115
7440-70-2	Calcium	4600		12/23/2024	2115
7440-47-3	Chromium	11		12/23/2024	2115
7440-48-4	Cobalt	12	*	12/23/2024	2115
7440-50-8	Copper	34	*	12/23/2024	2115
7439-89-6	Iron	18000		12/23/2024	2115
7439-92-1	Lead	110	*	12/23/2024	2115
7439-95-4	Magnesium	2300		12/23/2024	2115
7439-96-5	Manganese	1200		12/23/2024	2115
7440-02-0	Nickel	14		12/23/2024	2115
7440-09-7	Potassium	400	J	12/23/2024	2115
7782-49-2	Selenium	9.7	*	12/23/2024	2115
7440-22-4	Silver	0.76	J*	12/23/2024	2115
7440-23-5	Sodium	480	U	12/23/2024	2115
7440-28-0	Thallium	2.4	U	12/23/2024	2115
7440-62-2	Vanadium	17		12/23/2024	2115
7440-66-6	Zinc	64	*	12/23/2024	2115

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL32

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-05

% Solids: 88.4 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7800		12/23/2024	2119
7440-36-0	Antimony	4.1	J*	12/23/2024	2119
7440-38-2	Arsenic	18		12/23/2024	2119
7440-39-3	Barium	99		12/23/2024	2119
7440-41-7	Beryllium	0.81		12/23/2024	2119
7440-43-9	Cadmium	0.80		12/23/2024	2119
7440-70-2	Calcium	2900		12/23/2024	2119
7440-47-3	Chromium	9.7		12/23/2024	2119
7440-48-4	Cobalt	14	*	12/23/2024	2119
7440-50-8	Copper	21	*	12/23/2024	2119
7439-89-6	Iron	21000		12/23/2024	2119
7439-92-1	Lead	37	*	12/23/2024	2119
7439-95-4	Magnesium	2100		12/23/2024	2119
7439-96-5	Manganese	1500		12/23/2024	2119
7440-02-0	Nickel	15		12/23/2024	2119
7440-09-7	Potassium	290	J	12/23/2024	2119
7782-49-2	Selenium	12	*	12/23/2024	2119
7440-22-4	Silver	0.70	J*	12/23/2024	2119
7440-23-5	Sodium	470	U	12/23/2024	2119
7440-28-0	Thallium	2.3	U	12/23/2024	2119
7440-62-2	Vanadium	18		12/23/2024	2119
7440-66-6	Zinc	43	*	12/23/2024	2119

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL33

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-06

% Solids: 89.7 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6600		12/23/2024	2123
7440-36-0	Antimony	3.5	J*	12/23/2024	2123
7440-38-2	Arsenic	15		12/23/2024	2123
7440-39-3	Barium	94		12/23/2024	2123
7440-41-7	Beryllium	0.66		12/23/2024	2123
7440-43-9	Cadmium	0.60		12/23/2024	2123
7440-70-2	Calcium	4900		12/23/2024	2123
7440-47-3	Chromium	8.8		12/23/2024	2123
7440-48-4	Cobalt	12	*	12/23/2024	2123
7440-50-8	Copper	19	*	12/23/2024	2123
7439-89-6	Iron	18000		12/23/2024	2123
7439-92-1	Lead	26	*	12/23/2024	2123
7439-95-4	Magnesium	2000		12/23/2024	2123
7439-96-5	Manganese	1500		12/23/2024	2123
7440-02-0	Nickel	14		12/23/2024	2123
7440-09-7	Potassium	280	J	12/23/2024	2123
7782-49-2	Selenium	9.4	*	12/23/2024	2123
7440-22-4	Silver	0.61	J*	12/23/2024	2123
7440-23-5	Sodium	450	U	12/23/2024	2123
7440-28-0	Thallium	2.2	U	12/23/2024	2123
7440-62-2	Vanadium	15		12/23/2024	2123
7440-66-6	Zinc	37	*	12/23/2024	2123

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL34

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-07

% Solids: 93.2 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	4000		12/23/2024	2126
7440-36-0	Antimony	2.2	J*	12/23/2024	2126
7440-38-2	Arsenic	4.8		12/23/2024	2126
7440-39-3	Barium	43		12/23/2024	2126
7440-41-7	Beryllium	0.39	J	12/23/2024	2126
7440-43-9	Cadmium	0.29	J	12/23/2024	2126
7440-70-2	Calcium	54000		12/23/2024	2126
7440-47-3	Chromium	6.5		12/23/2024	2126
7440-48-4	Cobalt	9.4	*	12/23/2024	2126
7440-50-8	Copper	17	*	12/23/2024	2126
7439-89-6	Iron	11000		12/23/2024	2126
7439-92-1	Lead	16	*	12/23/2024	2126
7439-95-4	Magnesium	8400		12/23/2024	2126
7439-96-5	Manganese	840		12/23/2024	2126
7440-02-0	Nickel	11		12/23/2024	2126
7440-09-7	Potassium	340	J	12/23/2024	2126
7782-49-2	Selenium	2.6	J*	12/23/2024	2126
7440-22-4	Silver	0.39	J*	12/23/2024	2126
7440-23-5	Sodium	460	U	12/23/2024	2126
7440-28-0	Thallium	2.3	U	12/23/2024	2126
7440-62-2	Vanadium	9.6		12/23/2024	2126
7440-66-6	Zinc	35	*	12/23/2024	2126

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL77

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-10

% Solids: 74 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7400		12/23/2024	2142
7440-36-0	Antimony	3.9	J*	12/23/2024	2142
7440-38-2	Arsenic	17		12/23/2024	2142
7440-39-3	Barium	79		12/23/2024	2142
7440-41-7	Beryllium	0.83		12/23/2024	2142
7440-43-9	Cadmium	0.77		12/23/2024	2142
7440-70-2	Calcium	3600		12/23/2024	2142
7440-47-3	Chromium	12		12/23/2024	2142
7440-48-4	Cobalt	12	*	12/23/2024	2142
7440-50-8	Copper	26	*	12/23/2024	2142
7439-89-6	Iron	19000		12/23/2024	2142
7439-92-1	Lead	58	*	12/23/2024	2142
7439-95-4	Magnesium	2400		12/23/2024	2142
7439-96-5	Manganese	1100		12/23/2024	2142
7440-02-0	Nickel	19		12/23/2024	2142
7440-09-7	Potassium	750		12/23/2024	2142
7782-49-2	Selenium	11	*	12/23/2024	2142
7440-22-4	Silver	0.58	J*	12/23/2024	2142
7440-23-5	Sodium	510	U	12/23/2024	2142
7440-28-0	Thallium	2.5	U	12/23/2024	2142
7440-62-2	Vanadium	21		12/23/2024	2142
7440-66-6	Zinc	70	*	12/23/2024	2142

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL78

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-11

% Solids: 76 Date Received: 12/03/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7000		12/23/2024	2146
7440-36-0	Antimony	3.6	J*	12/23/2024	2146
7440-38-2	Arsenic	16		12/23/2024	2146
7440-39-3	Barium	72		12/23/2024	2146
7440-41-7	Beryllium	0.78		12/23/2024	2146
7440-43-9	Cadmium	0.69		12/23/2024	2146
7440-70-2	Calcium	4800		12/23/2024	2146
7440-47-3	Chromium	11		12/23/2024	2146
7440-48-4	Cobalt	11	*	12/23/2024	2146
7440-50-8	Copper	26	*	12/23/2024	2146
7439-89-6	Iron	18000		12/23/2024	2146
7439-92-1	Lead	56	*	12/23/2024	2146
7439-95-4	Magnesium	2700		12/23/2024	2146
7439-96-5	Manganese	1100		12/23/2024	2146
7440-02-0	Nickel	18		12/23/2024	2146
7440-09-7	Potassium	720		12/23/2024	2146
7782-49-2	Selenium	10	*	12/23/2024	2146
7440-22-4	Silver	0.49	J*	12/23/2024	2146
7440-23-5	Sodium	510	U	12/23/2024	2146
7440-28-0	Thallium	2.5	U	12/23/2024	2146
7440-62-2	Vanadium	19		12/23/2024	2146
7440-66-6	Zinc	70	*	12/23/2024	2146

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHL79

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHL28

Matrix: SOIL Lab Sample ID: P5063-12

% Solids: 81.6 Date Received: 12/03/2024

Analytical Method: ICP_AES

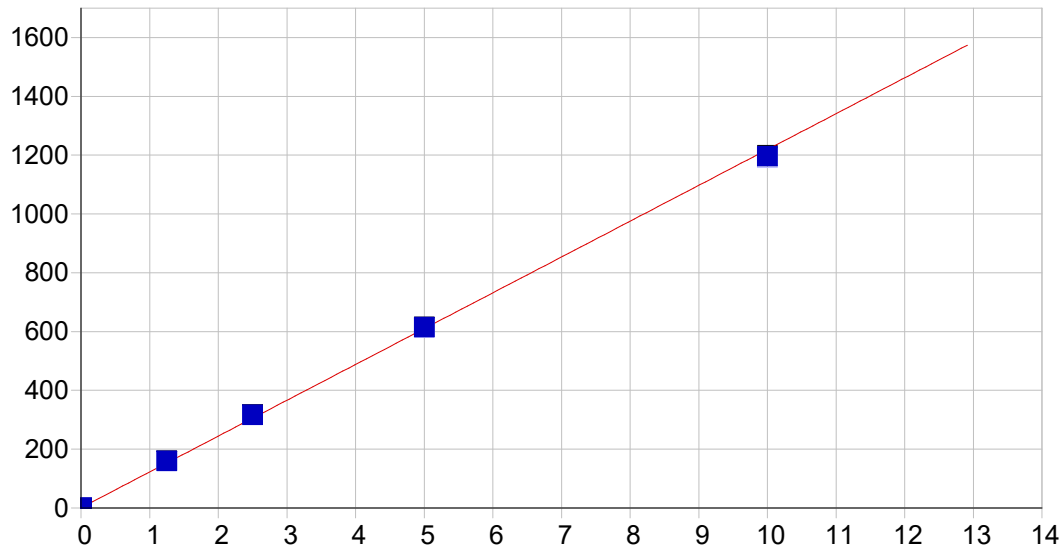
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6500		12/23/2024	2149
7440-36-0	Antimony	3.5	J*	12/23/2024	2149
7440-38-2	Arsenic	15		12/23/2024	2149
7440-39-3	Barium	71		12/23/2024	2149
7440-41-7	Beryllium	0.72		12/23/2024	2149
7440-43-9	Cadmium	0.69		12/23/2024	2149
7440-70-2	Calcium	4300		12/23/2024	2149
7440-47-3	Chromium	9.8		12/23/2024	2149
7440-48-4	Cobalt	11	*	12/23/2024	2149
7440-50-8	Copper	22	*	12/23/2024	2149
7439-89-6	Iron	17000		12/23/2024	2149
7439-92-1	Lead	52	*	12/23/2024	2149
7439-95-4	Magnesium	2800		12/23/2024	2149
7439-96-5	Manganese	1000		12/23/2024	2149
7440-02-0	Nickel	17		12/23/2024	2149
7440-09-7	Potassium	550		12/23/2024	2149
7782-49-2	Selenium	9.4	*	12/23/2024	2149
7440-22-4	Silver	0.44	J*	12/23/2024	2149
7440-23-5	Sodium	440	U	12/23/2024	2149
7440-28-0	Thallium	2.2	U	12/23/2024	2149
7440-62-2	Vanadium	17		12/23/2024	2149
7440-66-6	Zinc	59	*	12/23/2024	2149

NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



As 189.042 {478}

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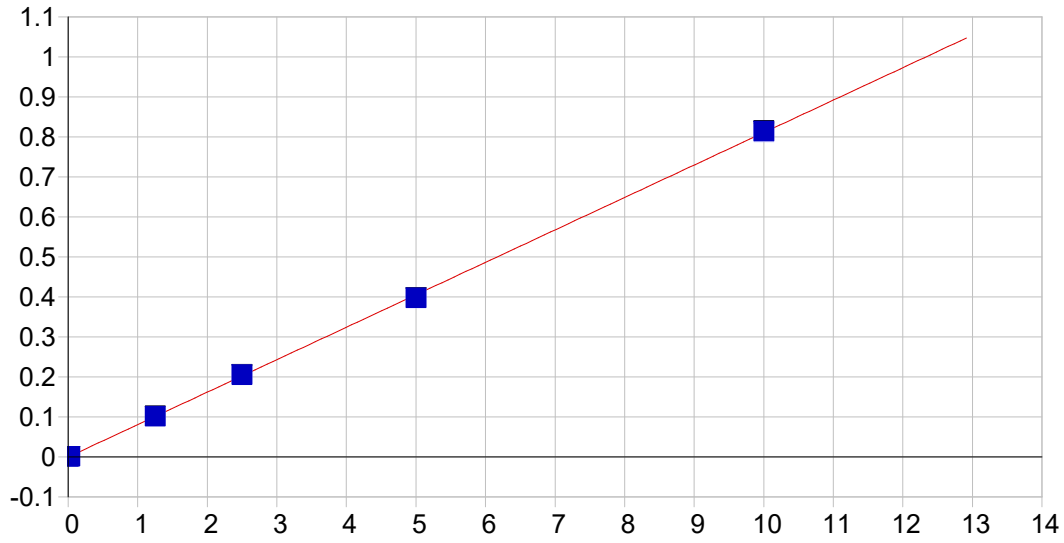
A0 (Offset):	0.707428	Re-Slope:	1.000000
A1 (Gain):	121.845964	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.048899		
Predicted MDL:	0.006339		
Predicted MQL:	0.021131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.70768	.190	1
S1	.01000	.00719	-.003	-28.1	1.5820	.224	1
S2	1.2500	1.3043	.054	4.34	158.99	.366	1
S3	2.5000	2.5966	.097	3.86	315.81	.865	1
S4	5.0000	5.0403	.040	.807	612.29	.382	1
S5	10.000	9.8116	-.188	-1.88	1191.1	2.71	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



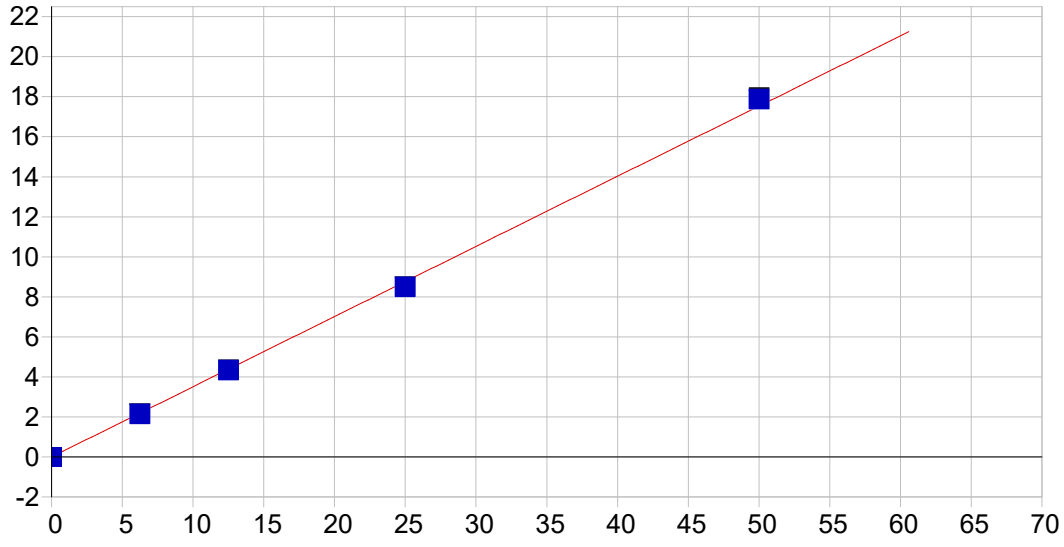
Tl 190.856 {477}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000342	Re-Slope:	1.000000
A1 (Gain):	0.081117	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.003623		
Predicted MQL:	0.012076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.02500	.02736	.002	9.46	.00181	.000	1
S2	1.2500	1.2605	.011	.841	.10164	.000	1
S3	2.5000	2.5389	.039	1.56	.20508	.001	1
S4	5.0000	4.9090	-.091	-1.82	.39682	.001	1
S5	10.000	10.039	.039	.393	.81192	.002	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



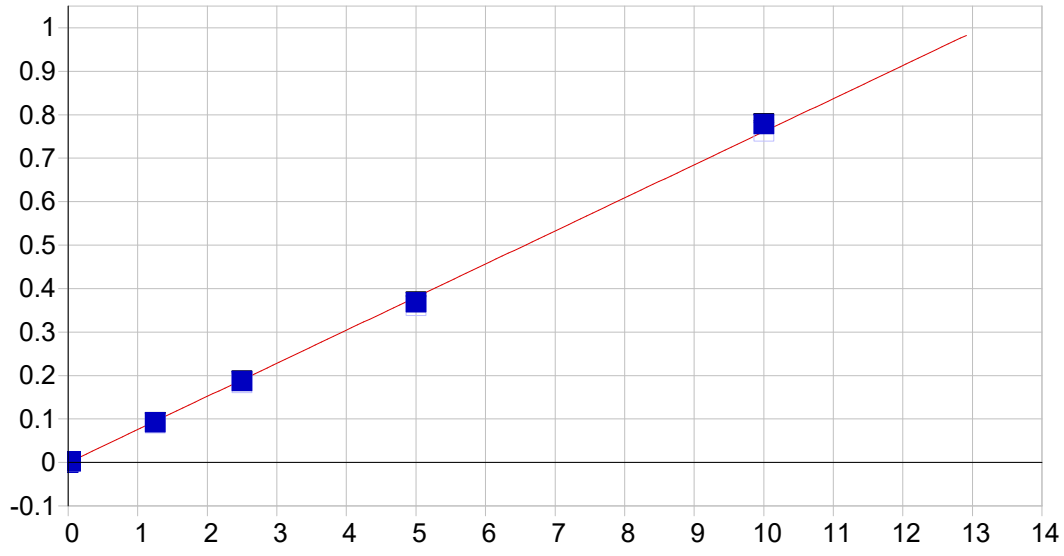
Pb 220.353 {453}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.350619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.000295		
Predicted MDL:	0.002288		
Predicted MQL:	0.007628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00014	.001	1
S1	.01000	.00842	-.002	-15.8	.00307	.001	1
S2	6.2500	6.1312	-.119	-1.90	2.1475	.003	1
S3	12.500	12.375	-.125	-.997	4.3345	.001	1
S4	25.000	24.238	-.762	-3.05	8.4889	.010	1
S5	50.000	51.007	1.01	2.01	17.865	.055	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



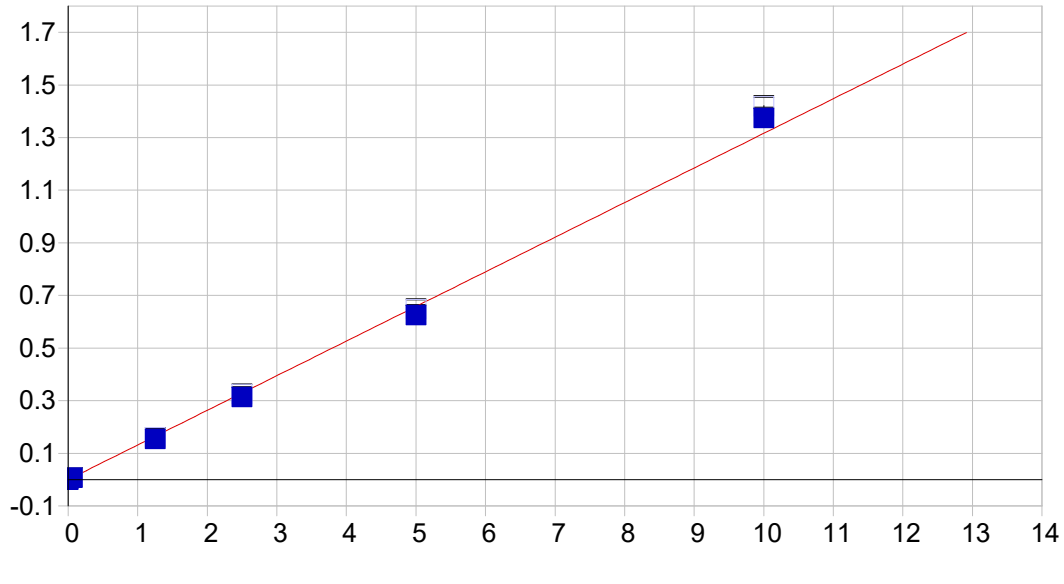
Se 196.090 {472}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000252	Re-Slope:	1.000000
A1 (Gain):	0.076112	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999668	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.004410		
Predicted MQL:	0.014700		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00025	.000	1
S1	.03500	.03245	-.003	-7.28	.00221	.000	1
S2	1.2500	1.2142	-.036	-2.86	.09002	.000	1
S3	2.5000	2.4639	-.036	-1.44	.18300	.001	1
S4	5.0000	4.8440	-.156	-3.12	.35987	.001	1
S5	10.000	10.230	.230	2.30	.76128	.002	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



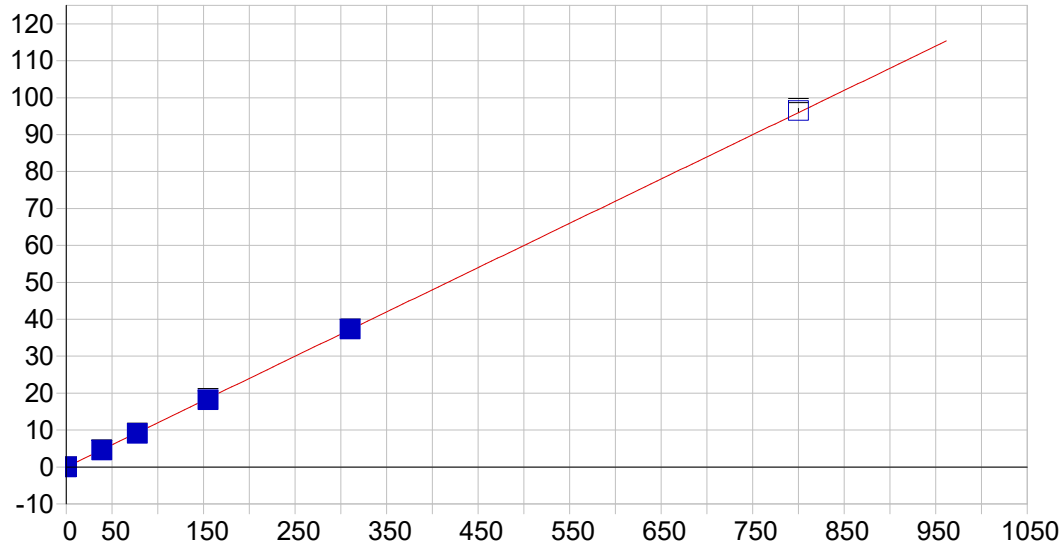
Sb 206.833 {463}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000155	Re-Slope:	1.000000
A1 (Gain):	0.131601	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998944	Status:	OK.
Std Error of Est:	0.000257		
Predicted MDL:	0.003267		
Predicted MQL:	0.010890		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00016	.000	1
S1	.06000	.05665	-.003	-5.58	.00761	.000	1
S2	1.2500	1.1714	-.079	-6.29	.15981	.001	1
S3	2.5000	2.3857	-.114	-4.57	.32512	.001	1
S4	5.0000	4.7515	-.248	-4.97	.64746	.002	1
S5	10.000	10.445	.445	4.45	1.4187	.003	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



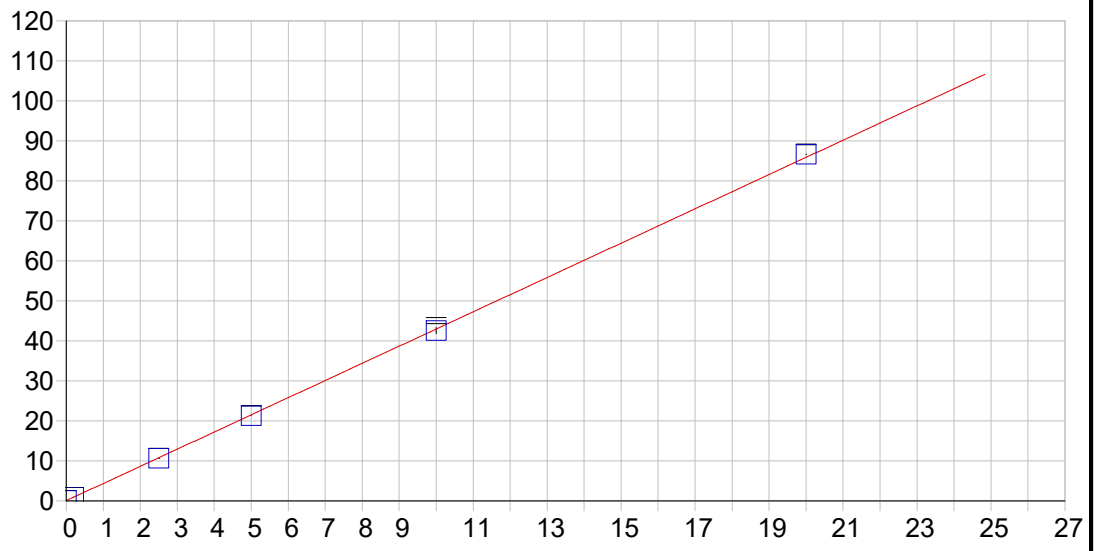
Al 396.152 { 85}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005186	Re-Slope:	1.000000
A1 (Gain):	0.119963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000795		
Predicted MDL:	0.025668		
Predicted MQL:	0.085559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00519	.002	1
S1	.20000	.22162	.022	10.8	.02144	.003	1
S2	38.750	37.875	-.875	-2.26	4.5435	.006	1
S3	77.500	75.880	-1.62	-2.09	9.1077	.034	1
S4	155.00	151.71	-3.29	-2.13	18.214	.292	1
S5	310.00	311.10	1.10	.356	37.356	.034	1
S6	800.00	804.67	4.67	.583	96.525	.559	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



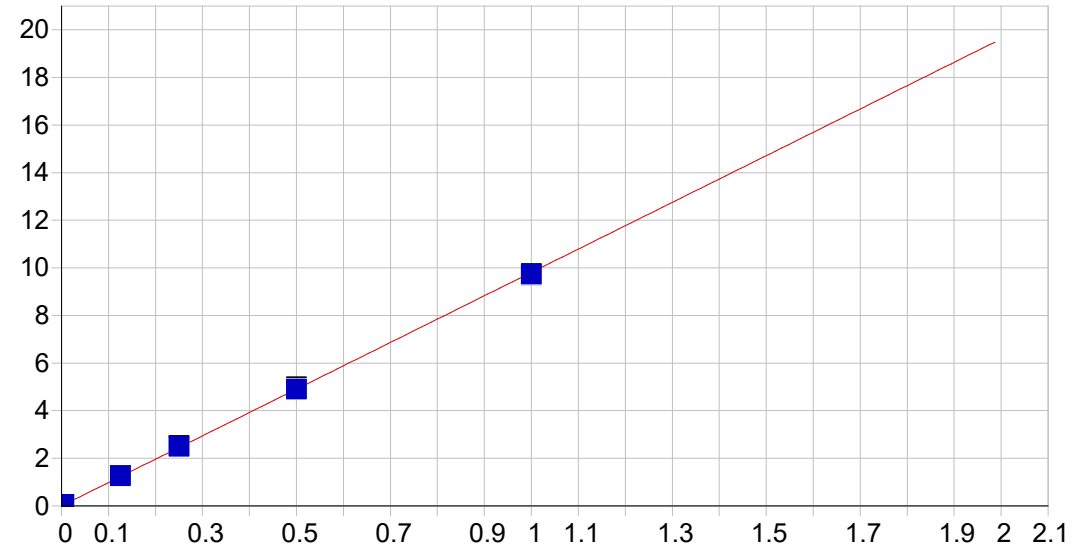
Ba 493.409 { 68}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.059957	Re-Slope:	1.000000
A1 (Gain):	4.291399	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.004244		
Predicted MDL:	0.001517		
Predicted MQL:	0.005057		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.05997	.014	1
S1	.20000	.20102	.001	.512	.92263	.004	1
S2	2.5000	2.4644	-.036	-1.42	10.636	.006	1
S3	5.0000	4.9503	-.050	-.993	21.304	.056	1
S4	10.000	9.9119	-.088	-.881	42.596	.742	1
S5	20.000	20.172	.172	.861	86.627	.094	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



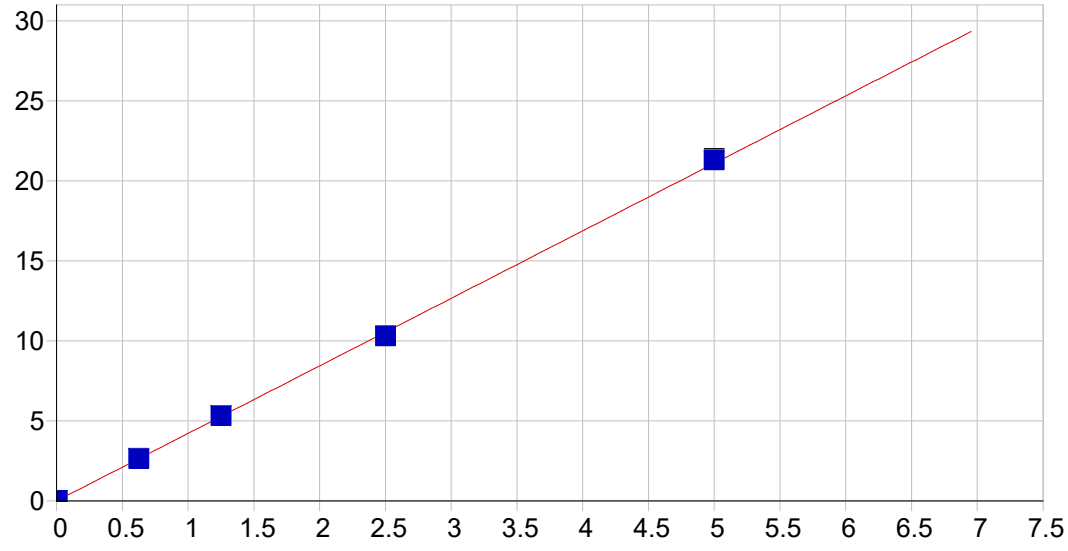
Be 234.861 {144}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001631	Re-Slope:	1.000000
A1 (Gain):	9.807787	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	0.000131		
Predicted MQL:	0.000437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00163	.001	1
S1	.00500	.00525	.000	5.07	.05311	.000	1
S2	.12500	.12852	.004	2.82	1.2565	.009	1
S3	.25000	.25497	.005	1.99	2.4911	.031	1
S4	.50000	.49956	-.000	-.088	4.8787	.099	1
S5	1.0000	.99169	-.008	-.831	9.6829	.038	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



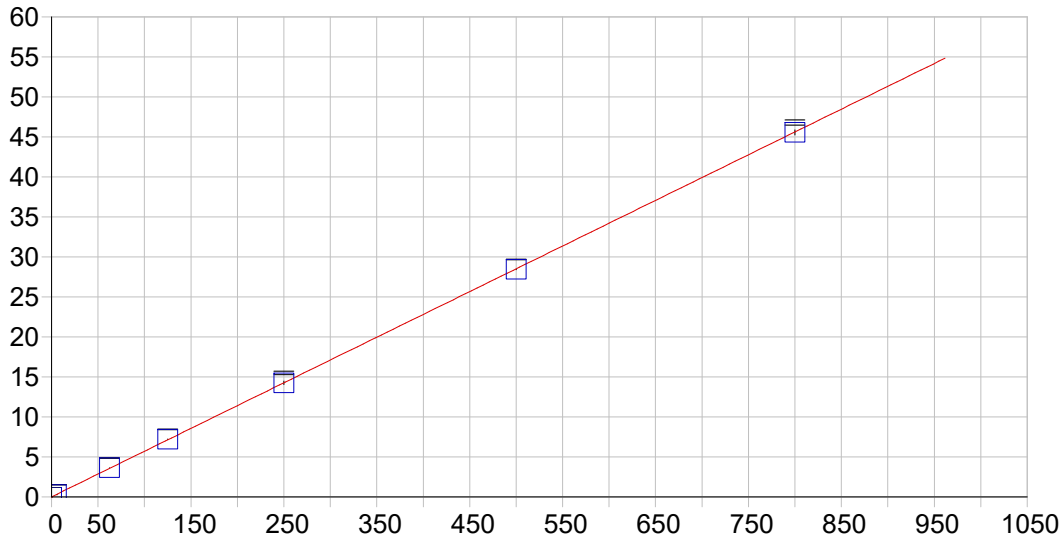
Cd 214.438 {457}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000638	Re-Slope:	1.000000
A1 (Gain):	4.219567	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000509		
Predicted MDL:	0.000118		
Predicted MQL:	0.000394		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00064	.000	1
S1	.00500	.00496	-.000	-.769	.02165	.001	1
S2	.62500	.62670	.002	.272	2.6491	.006	1
S3	1.2500	1.2615	.011	.919	5.3317	.010	1
S4	2.5000	2.4407	-.059	-2.37	10.316	.011	1
S5	5.0000	5.0461	.046	.923	21.326	.065	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



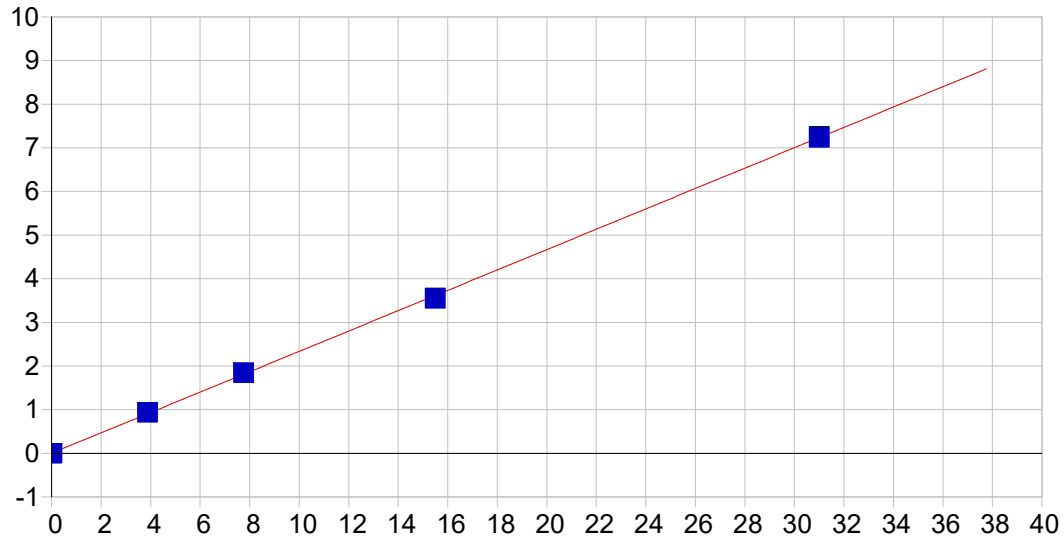
Ca 373.690 { 90}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008027	Re-Slope:	1.000000
A1 (Gain):	0.057013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000759		
Predicted MDL:	0.036050		
Predicted MQL:	0.120167		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00802	.001	1
S1	5.0000	5.0495	.050	.991	.29592	.001	1
S2	62.500	63.377	.877	1.40	3.6213	.010	1
S3	125.00	126.08	1.08	.866	7.1963	.035	1
S4	250.00	249.84	-.159	-.063	14.252	.216	1
S5	500.00	498.92	-1.08	-.216	28.453	.037	1
S6	800.00	799.23	-.769	-.096	45.574	.315	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



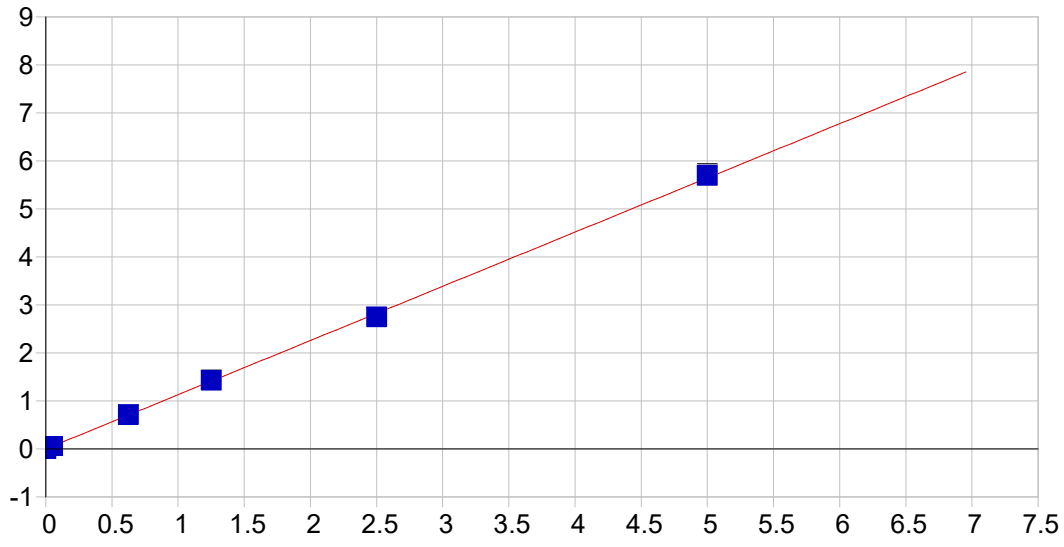
Cr 267.716 {126}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000231	Re-Slope:	1.000000
A1 (Gain):	0.233353	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.000934		
Predicted MQL:	0.003115		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.000	1
S1	.01000	.00956	-.000	-4.40	.00246	.000	1
S2	3.8750	4.0070	.132	3.41	.93598	.002	1
S3	7.7500	7.9207	.171	2.20	1.8499	.002	1
S4	15.500	15.205	-.295	-1.90	3.5511	.005	1
S5	31.000	30.993	-.007	-.023	7.2381	.018	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



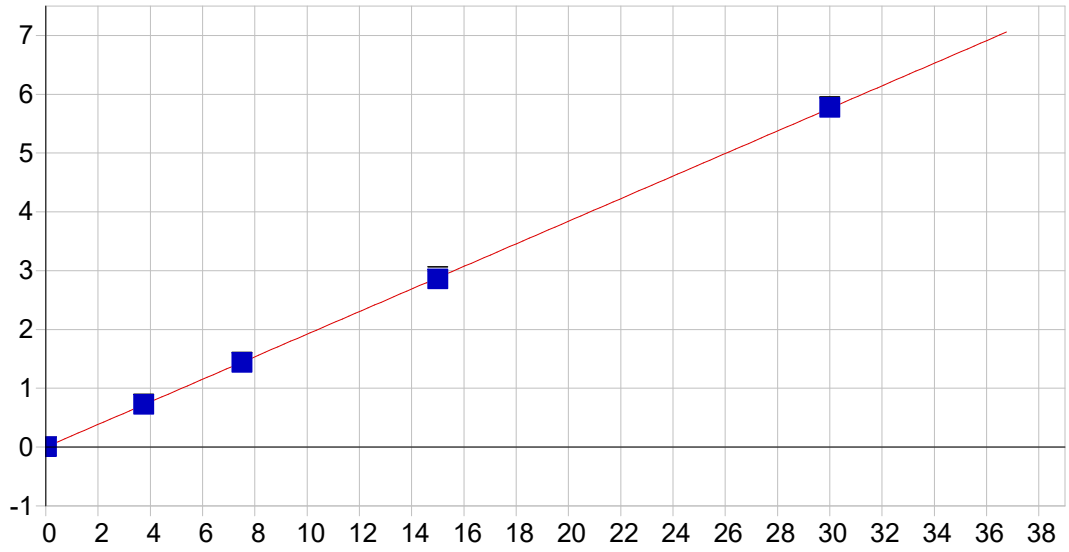
Co 228.616 {448}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000360	Re-Slope:	1.000000
A1 (Gain):	1.129159	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000476		
Predicted MDL:	0.000483		
Predicted MQL:	0.001611		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.05000	.05108	.001	2.15	.05750	.001	1
S2	.62500	.63130	.006	1.01	.71475	.001	1
S3	1.2500	1.2642	.014	1.13	1.4316	.001	1
S4	2.5000	2.4342	-.066	-2.63	2.7573	.005	1
S5	5.0000	5.0443	.044	.886	5.7137	.022	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



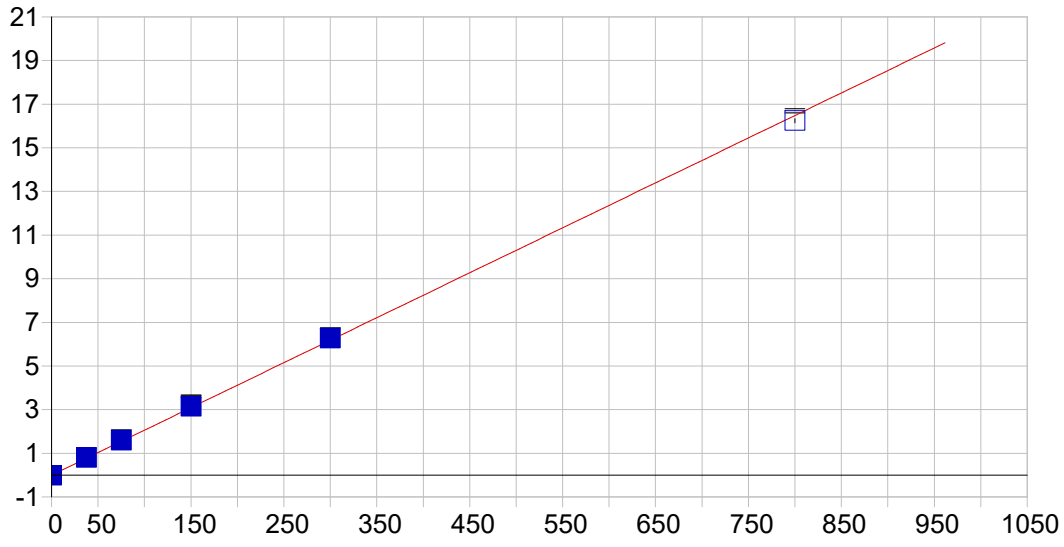
Cu 324.754 {104}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001468	Re-Slope:	1.000000
A1 (Gain):	0.191957	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.008087		
Predicted MQL:	0.026956		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00147	.002	1
S1	.02500	.02886	.004	15.4	.00700	.001	1
S2	3.7500	3.7833	.033	.888	.72761	.004	1
S3	7.5000	7.4874	-.013	-.168	1.4386	.004	1
S4	15.000	14.889	-.111	-.737	2.8593	.036	1
S5	30.000	30.086	.086	.287	5.7760	.012	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



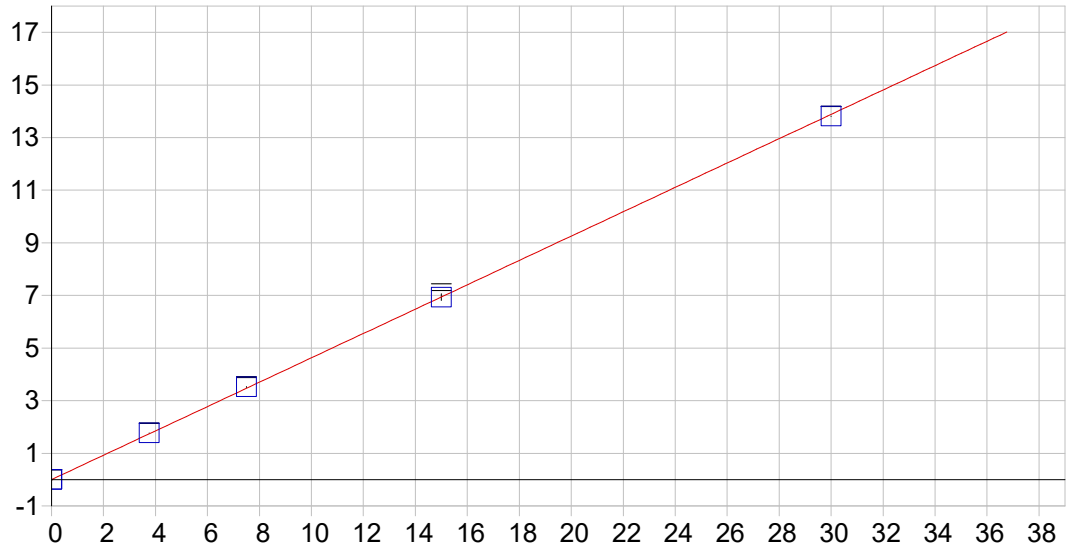
Fe 259.837 {130}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000159	Re-Slope:	1.000000
A1 (Gain):	0.020604	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999837	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.036143		
Predicted MQL:	0.120477		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00016	.001	1
S1	.10000	.12137	.021	21.4	.00234	.000	1
S2	37.500	38.887	1.39	3.70	.80125	.003	1
S3	75.000	77.537	2.54	3.38	1.5977	.006	1
S4	150.00	153.06	3.06	2.04	3.1543	.054	1
S5	300.00	304.63	4.63	1.54	6.2779	.012	1
S6	800.00	788.35	-11.6	-1.46	16.243	.095	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



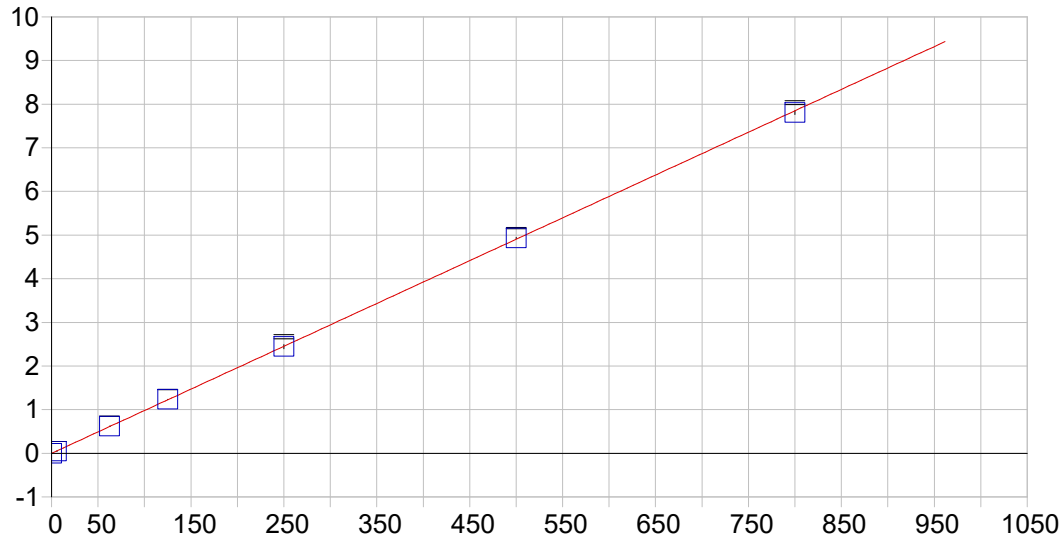
Mn 257.610 {131}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000226	Re-Slope:	1.000000
A1 (Gain):	0.462809	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.001420		
Predicted MQL:	0.004733		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00023	.000	1
S1	.01500	.01673	.002	11.5	.00797	.000	1
S2	3.7500	3.8189	.069	1.84	1.7676	.007	1
S3	7.5000	7.6060	.106	1.41	3.5204	.017	1
S4	15.000	14.980	-.020	-.134	6.9331	.130	1
S5	30.000	29.843	-.157	-.522	13.812	.007	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



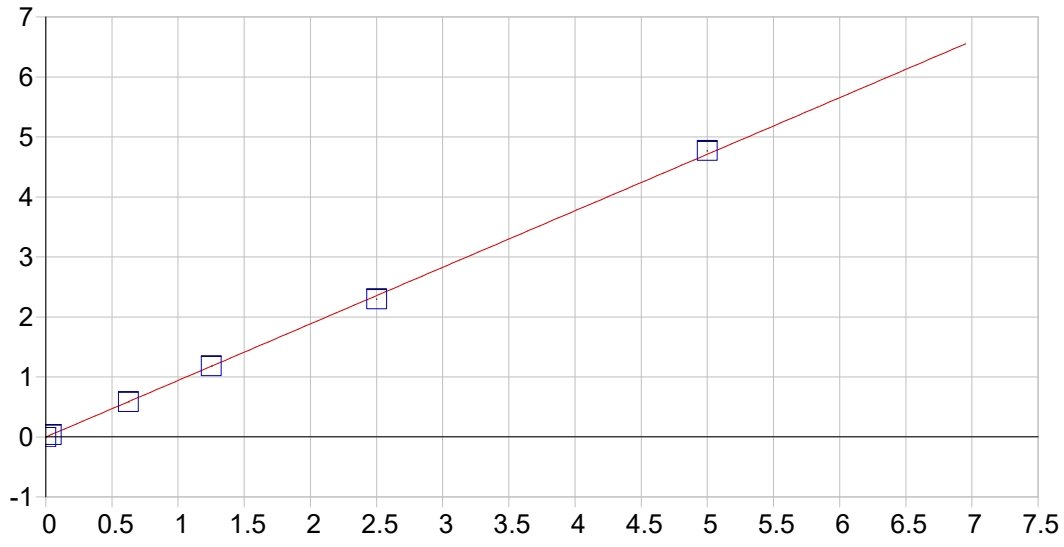
Mg 279.079 {121}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001515	Re-Slope:	1.000000
A1 (Gain):	0.009812	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000210		
Predicted MDL:	0.096315		
Predicted MQL:	0.321051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	-.00152	.000	1
S1	5.0000	5.2308	.231	4.62	.04981	.001	1
S2	62.500	63.176	.676	1.08	.61839	.001	1
S3	125.00	125.91	.906	.725	1.2339	.006	1
S4	250.00	249.38	-.620	-.248	2.4455	.048	1
S5	500.00	502.99	2.99	.598	4.9340	.014	1
S6	800.00	795.82	-4.18	-.523	7.8074	.041	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



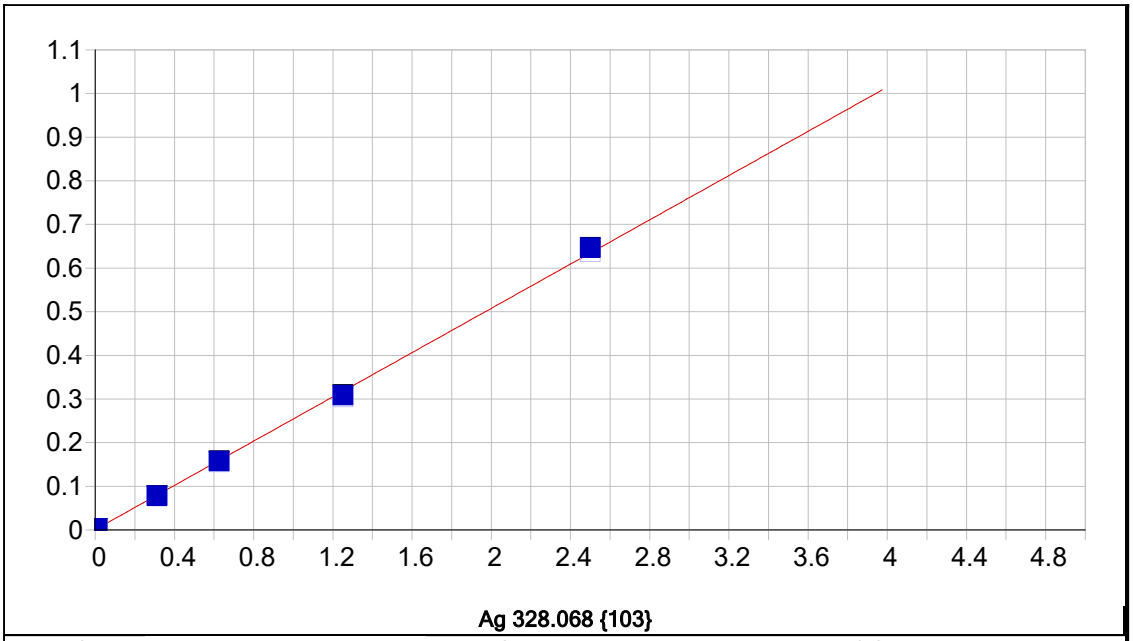
Ni 231.604 {446}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001258	Re-Slope:	1.000000
A1 (Gain):	0.942511	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000356		
Predicted MDL:	0.000650		
Predicted MQL:	0.002168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00126	.001	1
S1	.04000	.04094	.001	2.35	.03733	.000	1
S2	.62500	.62074	-.004	-.682	.58379	.000	1
S3	1.2500	1.2550	.005	.404	1.1816	.001	1
S4	2.5000	2.4374	-.063	-2.50	2.2960	.003	1
S5	5.0000	5.0609	.061	1.22	4.7687	.009	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



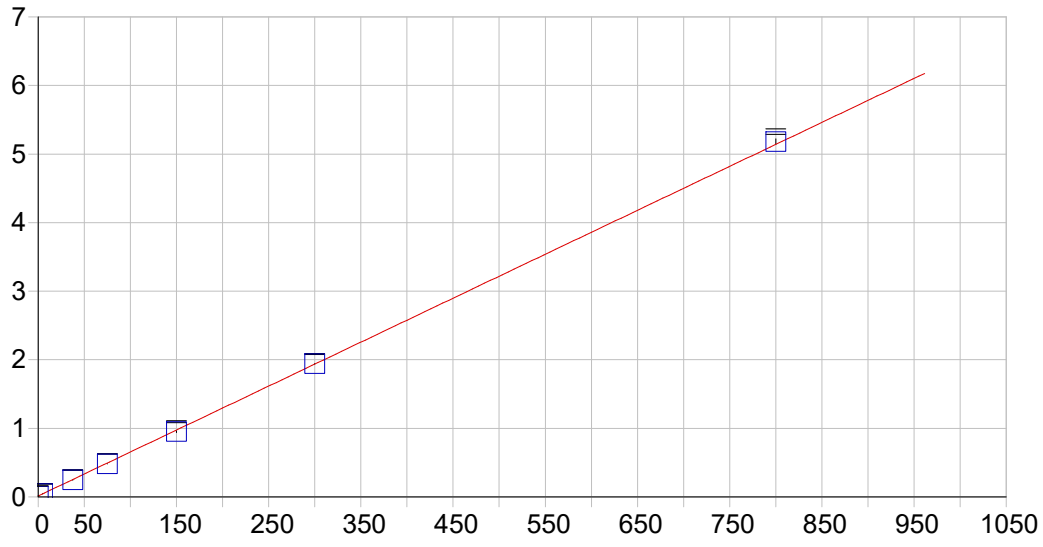
Ag 328.068 {103}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000720	Re-Slope:	1.000000
A1 (Gain):	0.253538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999779	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001501		
Predicted MQL:	0.005003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00072	.000	1
S1	.01000	.00980	-.000	-2.03	.00320	.000	1
S2	.31250	.30606	-.006	-2.06	.07718	.000	1
S3	.62500	.61847	-.007	-1.05	.15524	.001	1
S4	1.2500	1.2160	-.034	-2.72	.30445	.001	1
S5	2.5000	2.5472	.047	1.89	.63740	.001	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

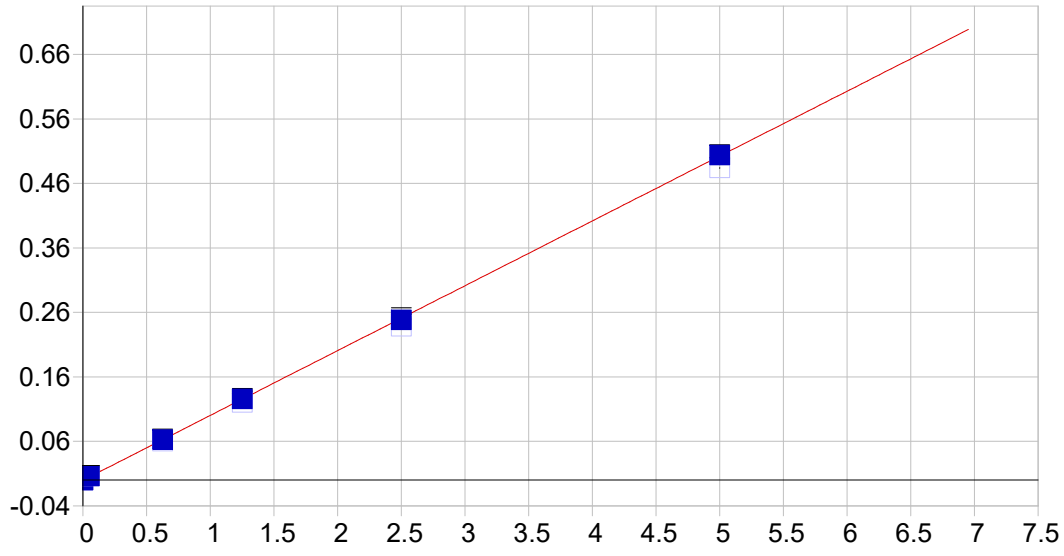


Na 818.326 { 41}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014106	Re-Slope:	1.000000
A1 (Gain):	0.006408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000254		
Predicted MDL:	0.802267		
Predicted MQL:	2.674224		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00037	.000	.000	.01411	.005	1
S1	5.0000	4.9699	-.030	-.602	.04596	.006	1
S2	37.500	36.499	-1.00	-2.67	.24801	.005	1
S3	75.000	73.037	-1.96	-2.62	.48216	.004	1
S4	150.00	146.22	-3.78	-2.52	.95112	.013	1
S5	300.00	300.43	.430	.143	1.9394	.005	1
S6	800.00	806.35	6.35	.793	5.1815	.040	1



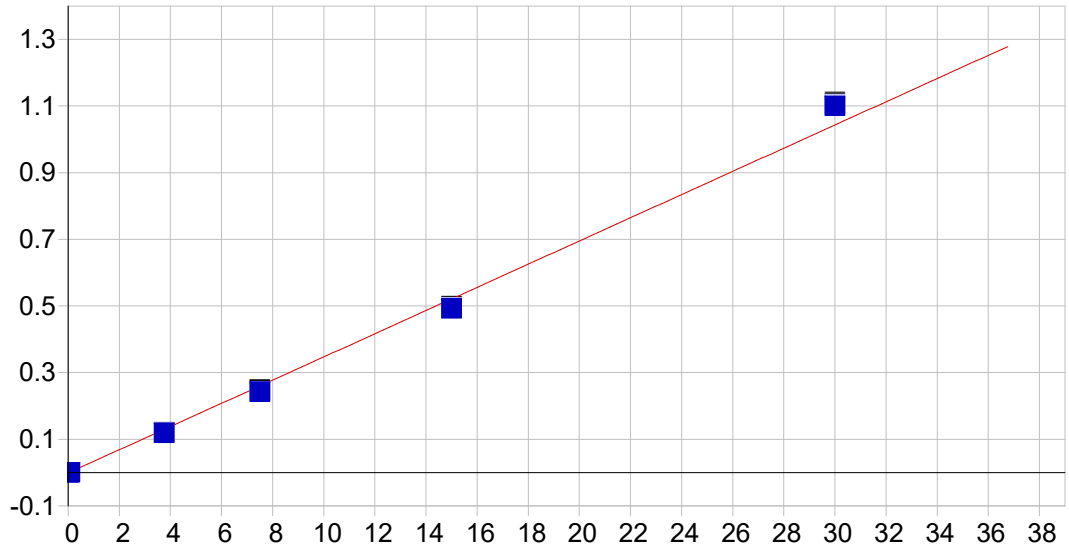
V 292.402 {115}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000210	Re-Slope:	1.000000
A1 (Gain):	0.100527	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999791	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.009268		
Predicted MQL:	0.030895		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00021	.000	1
S1	.05000	.06274	.013	25.5	.00608	.001	1
S2	.62500	.62384	-.001	-.185	.05999	.001	1
S3	1.2500	1.2505	.000	.036	.12046	.001	1
S4	2.5000	2.4716	-.028	-1.14	.23818	.004	1
S5	5.0000	5.0159	.016	.318	.48388	.000	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



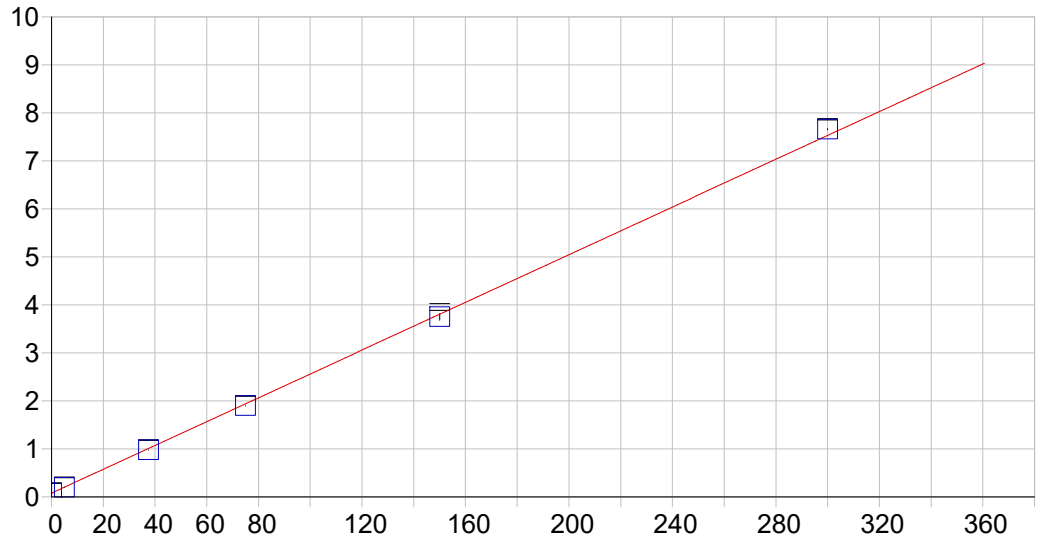
Zn 213.856 {158}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001112	Re-Slope:	1.000000
A1 (Gain):	0.034810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998287	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.012124		
Predicted MQL:	0.040414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	-.00111	.000	1
S1	.06000	.04210	-.018	-29.8	.00036	.001	1
S2	3.7500	3.4468	-.303	-8.08	.11951	.001	1
S3	7.5000	7.0070	-.493	-6.57	.24408	.004	1
S4	15.000	14.184	-.816	-5.44	.49517	.004	1
S5	30.000	31.630	1.63	5.43	1.1050	.007	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



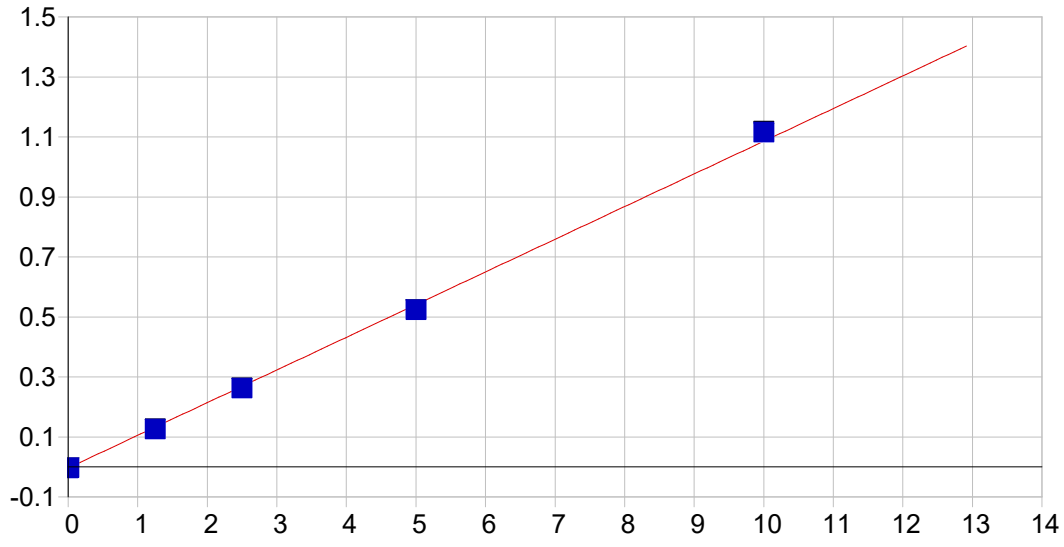
K 769.896 { 44}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.077346	Re-Slope:	1.000000
A1 (Gain):	0.024844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999813	Status:	OK.
Std Error of Est:	0.000991		
Predicted MDL:	0.162277		
Predicted MQL:	0.540923		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00038	.000	.000	.07736	.006	1
S1	5.0000	4.8971	-.103	-2.06	.19901	.006	1
S2	37.500	36.211	-1.29	-3.44	.97697	.003	1
S3	75.000	73.238	-1.76	-2.35	1.8969	.006	1
S4	150.00	147.85	-2.15	-1.43	3.7506	.069	1
S5	300.00	305.30	5.30	1.77	7.6624	.013	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

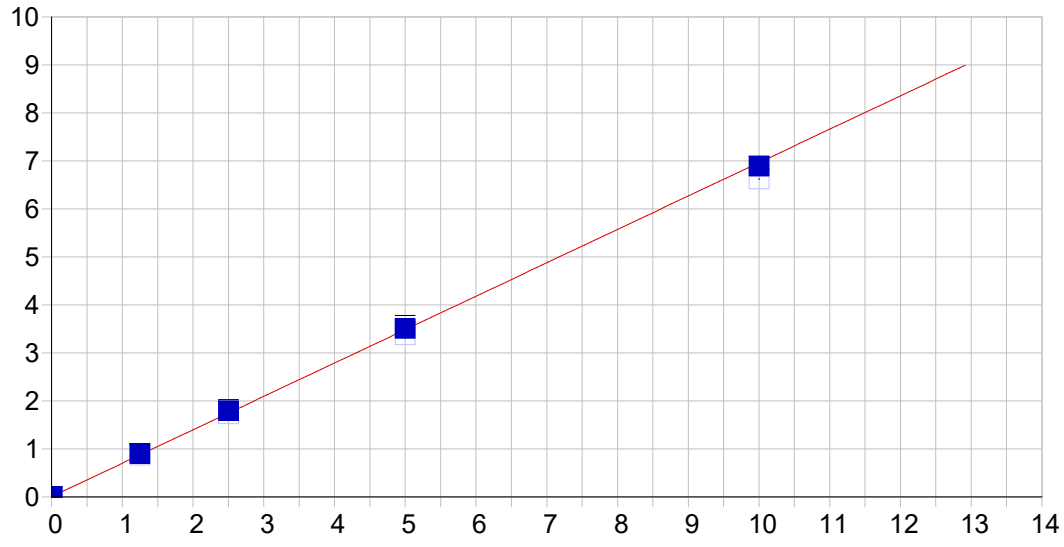


P 177.495 {490}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003606	Re-Slope:	1.000000
A1 (Gain):	0.108914	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999540	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.002310		
Predicted MQL:	0.007699		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00361	.000	1
S1	.01000	.00967	-.000	-3.33	-.00255	.000	1
S2	1.2500	1.1873	-.063	-5.01	.12551	.000	1
S3	2.5000	2.4420	-.058	-2.32	.26197	.001	1
S4	5.0000	4.8424	-.158	-3.15	.52301	.001	1
S5	10.000	10.279	.279	2.79	1.1143	.004	1



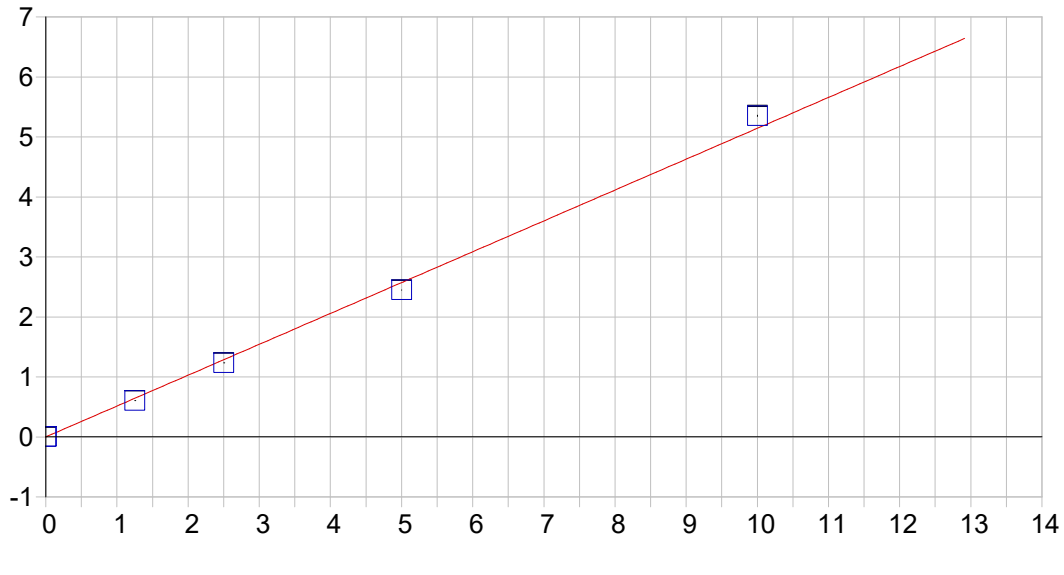
B 249.678 {135}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006362	Re-Slope:	1.000000
A1 (Gain):	0.695827	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999482	Status:	OK.
Std Error of Est:	0.000361		
Predicted MDL:	0.002653		
Predicted MQL:	0.008845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00637	.002	1
S1	.01000	-.00184	-.012	-118.	.00504	.002	1
S2	1.2500	1.2828	.033	2.63	.86591	.007	1
S3	2.5000	2.5651	.065	2.60	1.7251	.026	1
S4	5.0000	5.0263	.026	.527	3.3715	.068	1
S5	10.000	9.8880	-.112	-1.12	6.6221	.008	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

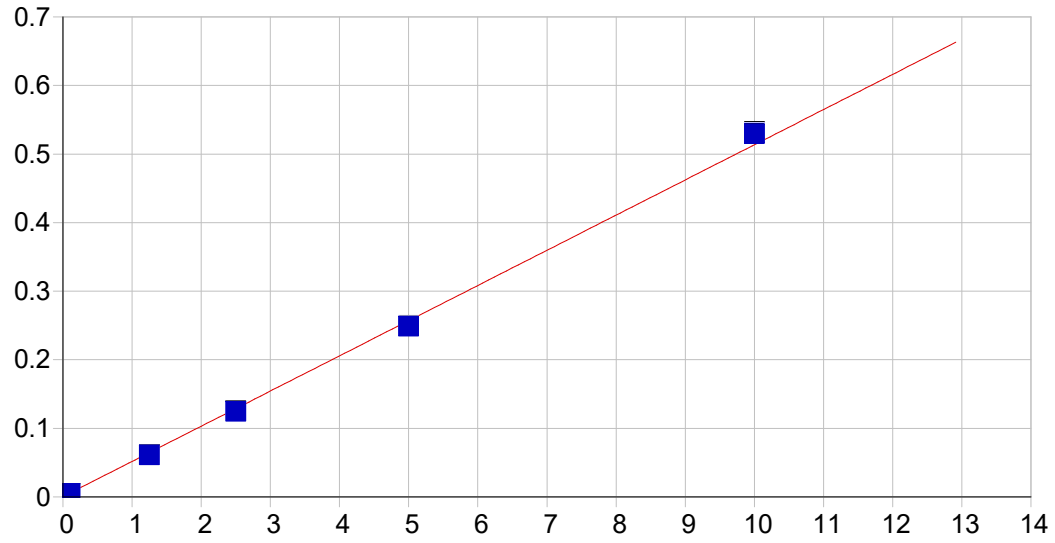


Mo 202.030 {467}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000060	Re-Slope:	1.000000
A1 (Gain):	0.514327	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999031	Status:	OK.
Std Error of Est:	0.000380		
Predicted MDL:	0.000669		
Predicted MQL:	0.002230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.01000	.01089	.001	8.95	.00566	.000	1
S2	1.2500	1.1787	-.071	-5.71	.60628	.000	1
S3	2.5000	2.4008	-.099	-3.97	1.2349	.002	1
S4	5.0000	4.7599	-.240	-4.80	2.4482	.002	1
S5	10.000	10.410	.410	4.10	5.3540	.011	1



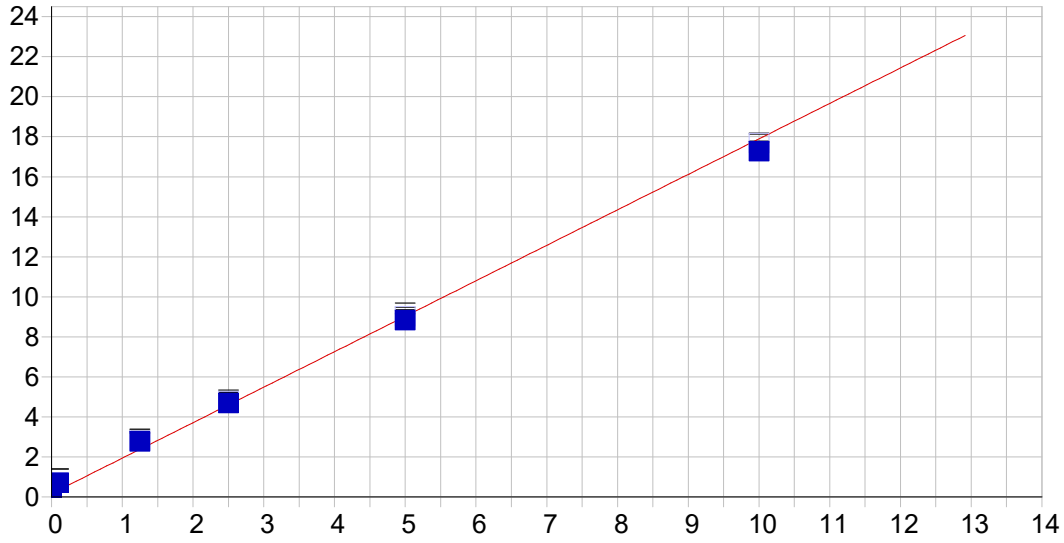
S 182.034 {485}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000493	Re-Slope:	1.000000
A1 (Gain):	0.051305	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999414	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.005236		
Predicted MQL:	0.017452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00049	.000	1
S1	.10000	.09031	-.010	-9.69	.00513	.000	1
S2	1.2500	1.1800	-.070	-5.60	.06124	.000	1
S3	2.5000	2.4215	-.078	-3.14	.12514	.000	1
S4	5.0000	4.8424	-.158	-3.15	.24976	.000	1
S5	10.000	10.316	.316	3.16	.53139	.001	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



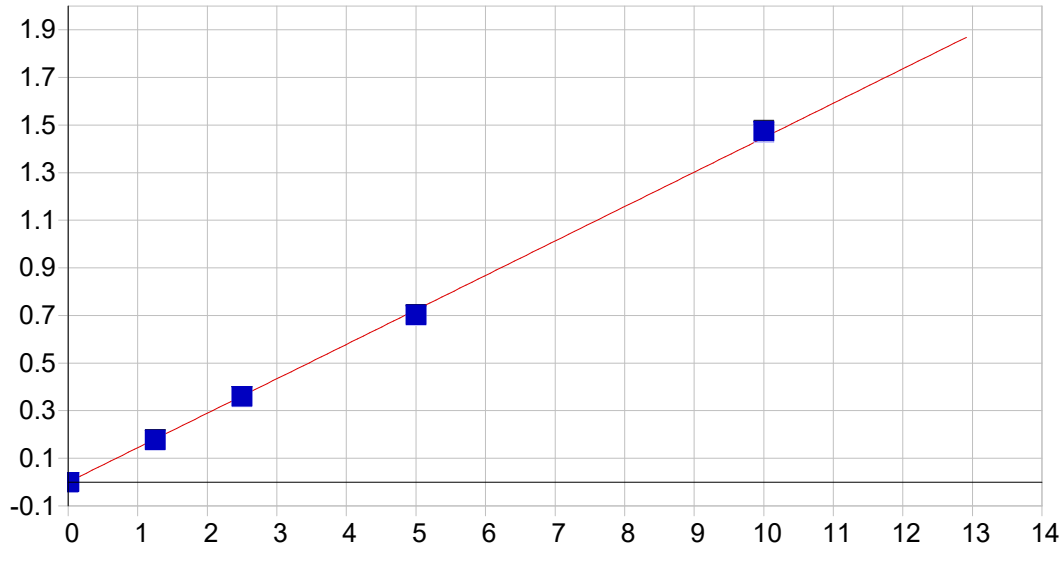
Si 251.611 {134}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.164857	Re-Slope:	1.000000
A1 (Gain):	1.772742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.988066	Status:	OK.
Std Error of Est:	0.015018		
Predicted MDL:	0.000946		
Predicted MQL:	0.003154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.16447	.003	1
S1	.10000	.30592	.206	206.	.70968	.194	1
S2	1.2500	1.4690	.219	17.5	2.8193	.079	1
S3	2.5000	2.5471	.047	1.88	4.7808	.064	1
S4	5.0000	4.8835	-.117	-2.33	9.0232	.167	1
S5	10.000	9.6462	-.354	-3.54	17.668	.027	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



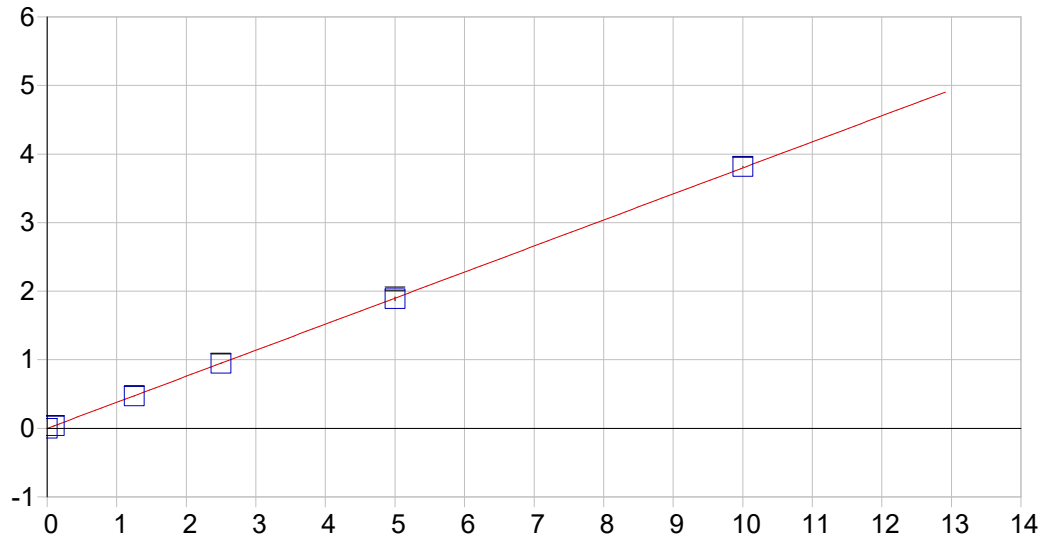
Sn 189.989 {478}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.144693	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.001676		
Predicted MQL:	0.005585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00000	.000	1
S1	.00700	.00724	.000	3.47	.00101	.000	1
S2	1.2500	1.2245	-.025	-2.04	.17628	.001	1
S3	2.5000	2.4849	-.015	-.603	.35774	.000	1
S4	5.0000	4.8517	-.148	-2.97	.69839	.002	1
S5	10.000	10.189	.189	1.89	1.4670	.004	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



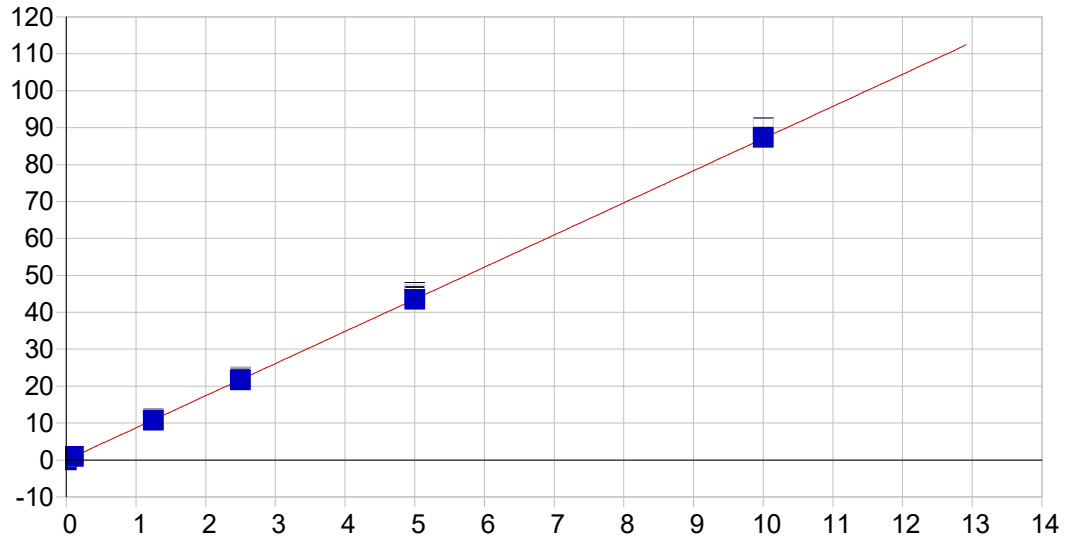
Ti 336.121 {100}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000042	Re-Slope:	1.000000
A1 (Gain):	0.379794	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.003669		
Predicted MQL:	0.012231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.002	1
S1	.10000	.09999	-.000	-.014	.03793	.001	1
S2	1.2500	1.2434	-.007	-.525	.47221	.002	1
S3	2.5000	2.4877	-.012	-.491	.94479	.005	1
S4	5.0000	4.9754	-.025	-.493	1.8896	.027	1
S5	10.000	10.043	.043	.435	3.8144	.005	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



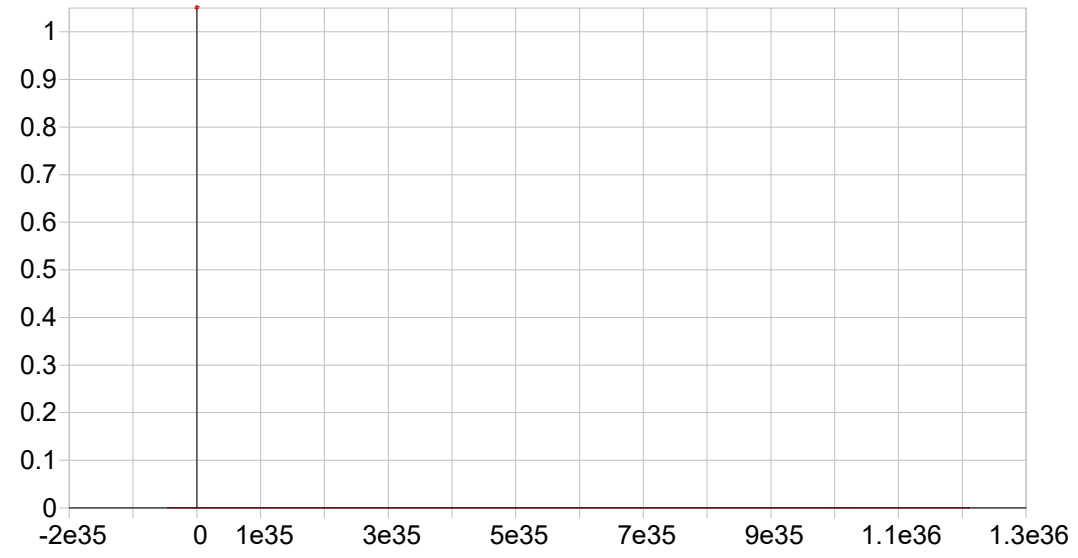
Sr 407.771 { 83}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003722	Re-Slope:	1.000000
A1 (Gain):	8.705836	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.002466		
Predicted MDL:	0.000269		
Predicted MQL:	0.000897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00374	.001	1
S1	.10000	.10403	.004	4.03	.90284	.007	1
S2	1.2500	1.2331	-.017	-1.35	11.058	.041	1
S3	2.5000	2.4871	-.013	-.515	22.302	.084	1
S4	5.0000	4.9982	-.002	-.036	44.815	.548	1
S5	10.000	10.028	.028	.277	89.908	.078	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

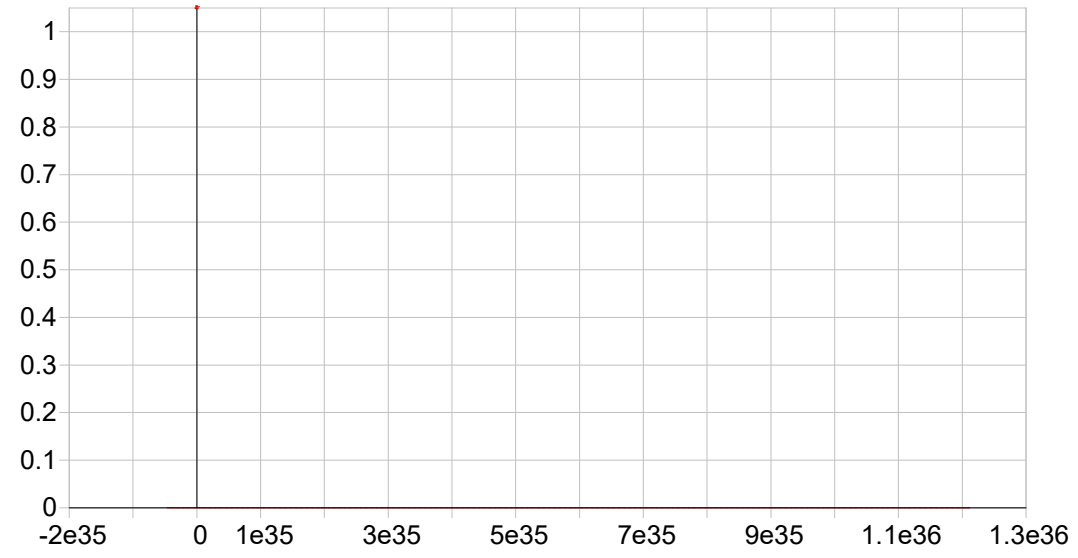


Y 224.306 {450}*

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 360.073 { 94}*

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

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

Reviewed By:kareem
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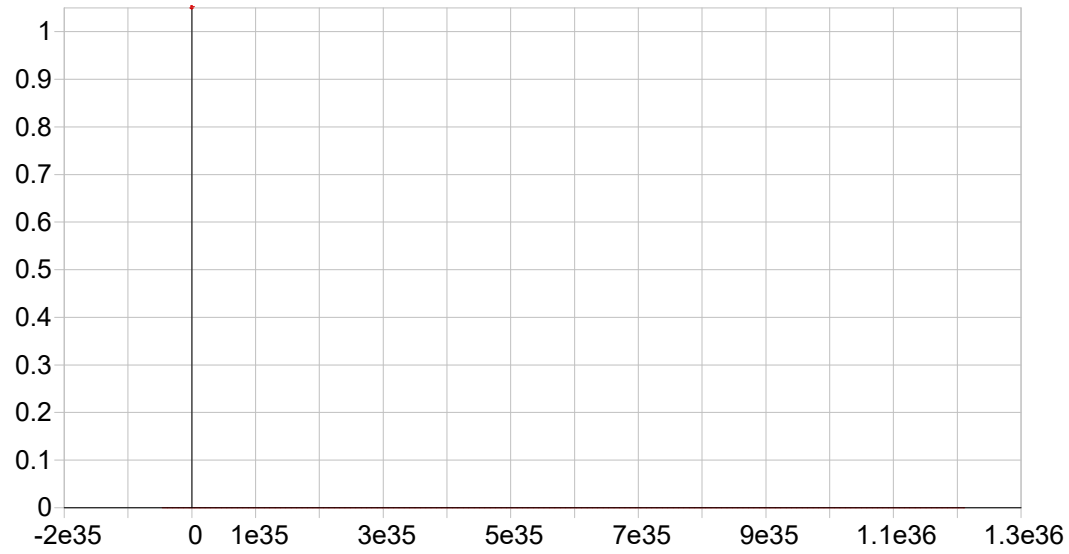
Inst Id :P5

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

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



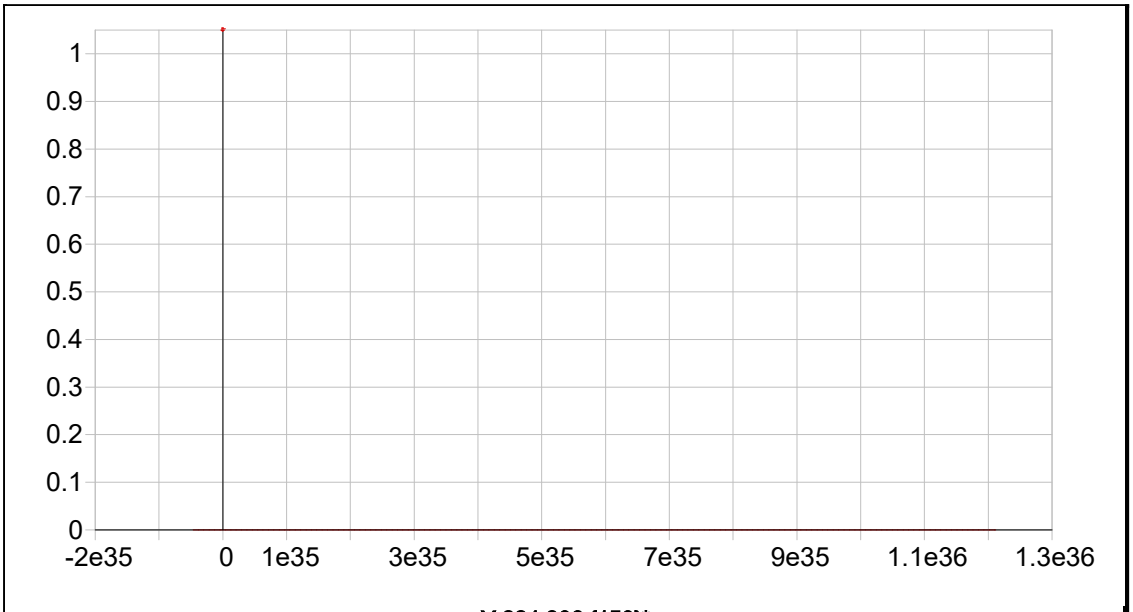
Y 371.030 { 91}*

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

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

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

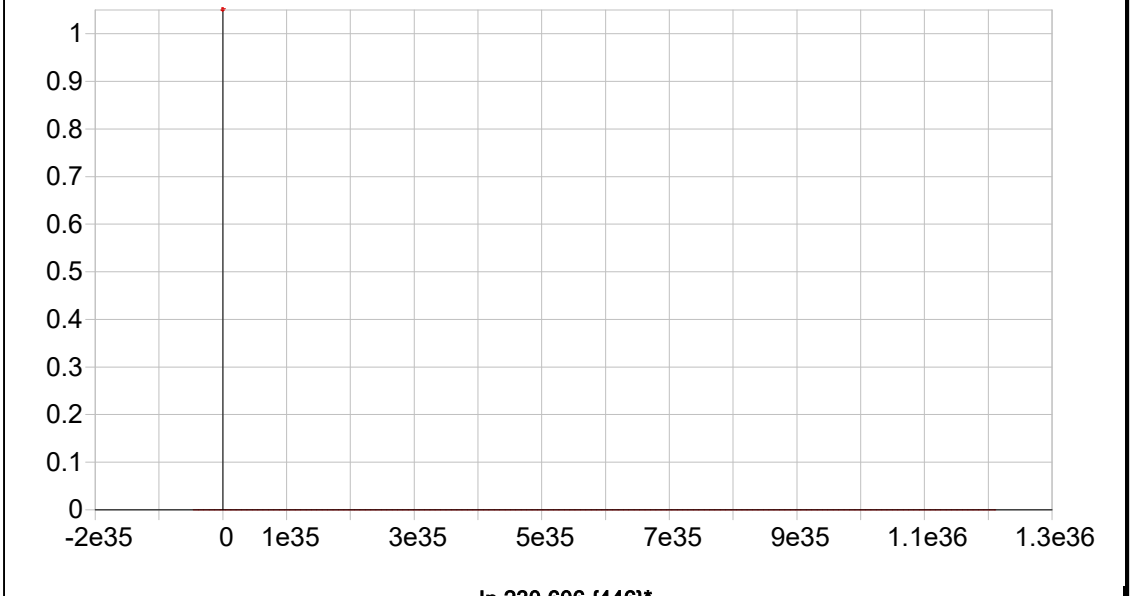
Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5



Y 224.306 {150}*

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

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



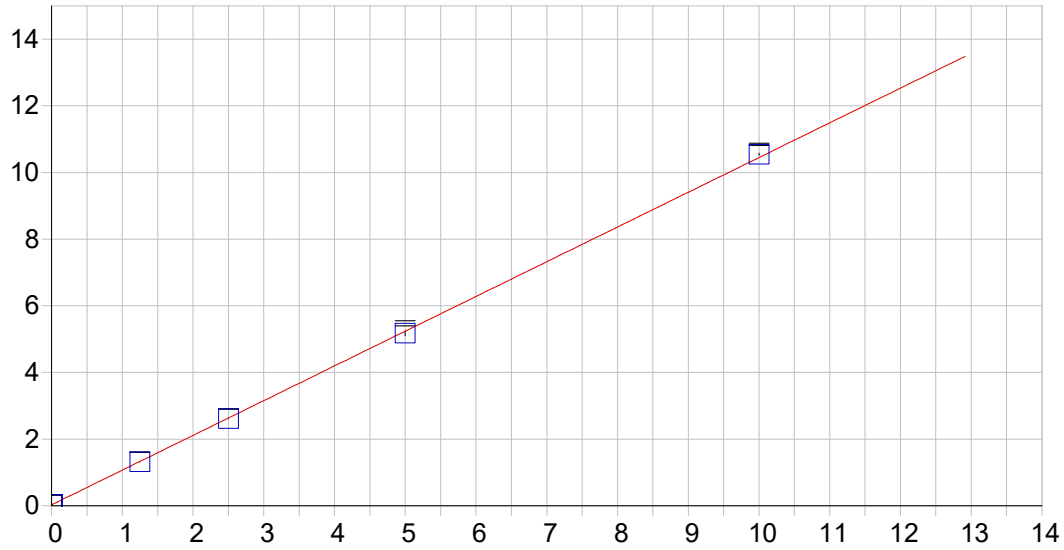
In 230.606 {446}*

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

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

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



Li 670.784 { 50}

Date of Fit:	12/23/2024 13:53:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.027254	Re-Slope:	1.000000
A1 (Gain):	1.042196	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000229		
Predicted MDL:	0.004384		
Predicted MQL:	0.014613		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02725	.004	1
S5	10.000	10.094	.094	.942	10.547	.033	1
S4	5.0000	4.9437	-.056	-1.13	5.1796	.078	1
S3	2.5000	2.4767	-.023	-.933	2.6084	.006	1
S2	1.2500	1.2337	-.016	-1.31	1.3130	.004	1
S1	.01500	.01673	.002	11.5	.04469	.003	1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/23/2024 13:14:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	.70768	-.00034	.00014	-.00025	.00016	-.00519	.05997	.00163
Stddev	.19001	.00029	.00063	.00019	.00032	.00177	.01352	.00112
%RSD	26.850	85.141	461.10	75.935	206.33	34.166	22.540	68.875
#1	.51993	-.00006	.00022	-.00026	-.00005	-.00562	.07097	.00166
#2	.89988	-.00032	.00071	-.00044	-.00001	-.00670	.06407	.00273
#3	.70324	-.00064	-.00053	-.00006	.00053	-.00324	.04488	.00049

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00064	.00802	.00023	-.00036	.00147	-.00016	.00023	-.00152
Stddev	.00024	.00084	.00028	.00028	.00189	.00079	.00028	.00026
%RSD	38.236	10.441	123.12	76.052	128.86	493.88	123.53	17.300
#1	.00090	.00830	.00023	-.00005	.00210	-.00031	.00051	-.00131
#2	.00041	.00868	.00052	-.00058	.00296	.00070	-.00004	-.00181
#3	.00060	.00708	-.00005	-.00046	-.00066	-.00086	.00020	-.00143

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00126	.00072	.01411	-.00021	-.00111	.07736	-.00361	.00637
Stddev	.00050	.00020	.00454	.00007	.00006	.00617	.00015	.00178
%RSD	39.834	27.169	32.194	35.390	5.0425	7.9755	4.0572	27.994
#1	-.00154	.00077	.00963	-.00030	-.00106	.07547	-.00344	.00445
#2	-.00155	.00050	.01871	-.00016	-.00117	.08425	-.00372	.00798
#3	-.00068	.00088	.01398	-.00018	-.00110	.07235	-.00366	.00667

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00006	.00049	.16447	.00000	-.00004	-.00374	.02725
Stddev	.00037	.00023	.00263	.00007	.00161	.00108	.00374
%RSD	615.56	46.421	1.6015	2062.3	3848.8	28.978	13.718
#1	.00018	.00036	.16470	.00003	.00039	-.00392	.02999
#2	-.00035	.00036	.16698	.00005	-.00183	-.00473	.02877
#3	.00035	.00076	.16172	-.00007	.00132	-.00258	.02299

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/23/2024 13:14:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	1973.1	25641.	2057.2	1695.9	1769.4
Stddev	1.7	420.	40.0	24.4	3.3
%RSD	.08470	1.6362	1.9451	1.4406	.18520
#1	1975.0	26075.	2073.7	1722.2	1765.6
#2	1971.9	25238.	2011.6	1673.9	1770.9
#3	1972.4	25610.	2086.4	1691.6	1771.5

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/23/2024 13:18:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1.5820	.00181	.00307	.00221	.00761	.02144	.92263	.05311
Stddev	.2244	.00010	.00075	.00040	.00007	.00265	.00446	.00047
%RSD	14.186	5.7191	24.336	17.979	.89782	12.346	.48377	.88778
#1	1.7598	.00187	.00292	.00242	.00767	.01903	.92440	.05341
#2	1.3298	.00186	.00241	.00175	.00754	.02102	.92593	.05257
#3	1.6564	.00169	.00388	.00247	.00763	.02427	.91755	.05336

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02165	.29592	.00246	.05750	.00700	.00234	.00797	.04981
Stddev	.00054	.00136	.00020	.00103	.00109	.00031	.00021	.00107
%RSD	2.5035	.46022	8.0777	1.7839	15.619	13.229	2.6040	2.1558
#1	.02150	.29526	.00248	.05837	.00814	.00206	.00796	.04947
#2	.02226	.29500	.00226	.05637	.00689	.00267	.00776	.04895
#3	.02120	.29748	.00265	.05775	.00596	.00229	.00818	.05102

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03733	.00320	.04596	.00608	.00036	.19901	-.00255	.00504
Stddev	.00019	.00026	.00557	.00102	.00052	.00569	.00008	.00183
%RSD	.51293	8.1318	12.125	16.756	144.49	2.8571	3.3172	36.217
#1	.03746	.00319	.05238	.00720	.00096	.20551	-.00261	.00655
#2	.03711	.00295	.04250	.00584	.00004	.19658	-.00245	.00301
#3	.03742	.00347	.04298	.00521	.00008	.19494	-.00258	.00557

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00566	.00513	.70968	.00101	.03793	.90284	.04469
Stddev	.00021	.00028	.19423	.00024	.00099	.00737	.00271
%RSD	3.7365	5.3727	27.368	24.063	2.6216	.81599	6.0705
#1	.00560	.00504	.60388	.00128	.03685	.91134	.04759
#2	.00549	.00490	.59133	.00094	.03815	.89870	.04221
#3	.00590	.00543	.93384	.00081	.03880	.89847	.04427

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/23/2024 13:18:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1994.3	25796.	2073.0	1701.0	1804.2
Stddev	2.3	141.	21.0	7.1	2.0
%RSD	.11614	.54656	1.0121	.41528	.11158
#1	1995.1	25948.	2048.8	1708.7	1804.7
#2	1991.7	25670.	2084.1	1699.3	1802.0
#3	1996.2	25769.	2086.1	1694.9	1805.9

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/23/2024 13:23:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	158.99	.10164	2.1475	.09002	.15981	4.5435	10.636	1.2565
Stddev	.37	.00032	.0028	.00028	.00055	.0064	.006	.0086
%RSD	.23046	.31539	.13124	.31178	.34300	.14045	.05518	.68764
#1	159.39	.10128	2.1460	.09034	.15920	4.5442	10.630	1.2579
#2	158.69	.10180	2.1456	.08981	.15996	4.5495	10.641	1.2644
#3	158.87	.10186	2.1507	.08992	.16027	4.5368	10.637	1.2473

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6491	3.6213	.93598	.71475	.72761	.80125	1.7676	.61839
Stddev	.0060	.0103	.00165	.00127	.00378	.00255	.0074	.00058
%RSD	.22472	.28298	.17587	.17787	.51977	.31801	.42008	.09348
#1	2.6492	3.6234	.93787	.71414	.72559	.80337	1.7630	.61772
#2	2.6431	3.6304	.93488	.71389	.73198	.80196	1.7762	.61871
#3	2.6550	3.6102	.93518	.71621	.72528	.79842	1.7638	.61874

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.58379	.07718	.24801	.05999	.11951	.97697	.12551	.86591
Stddev	.00038	.00010	.00538	.00099	.00132	.00265	.00040	.00654
%RSD	.06489	.13203	2.1677	1.6422	1.1022	.27128	.32171	.75540
#1	.58423	.07715	.24468	.05951	.11938	.97990	.12510	.86834
#2	.58359	.07709	.24514	.06112	.11826	.97628	.12552	.87090
#3	.58356	.07729	.25421	.05933	.12089	.97473	.12591	.85851

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.60628	.06124	2.8193	.17628	.47221	11.058	1.3130
Stddev	.00011	.00028	.0787	.00067	.00222	.041	.0042
%RSD	.01876	.45521	2.7902	.38221	.47057	.36902	.32260
#1	.60640	.06154	2.8989	.17665	.47041	11.026	1.3090
#2	.60625	.06100	2.8175	.17550	.47469	11.104	1.3175
#3	.60618	.06118	2.7416	.17669	.47153	11.043	1.3125

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/23/2024 13:23:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	1942.5	25366.	2090.0	1658.5	1702.8
Stddev	.6	94.	8.9	15.3	3.3
%RSD	.03338	.37229	.42678	.92523	.19305
#1	1943.2	25320.	2083.9	1654.1	1704.0
#2	1941.9	25474.	2085.8	1675.5	1705.4
#3	1942.3	25302.	2100.2	1645.8	1699.1

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/23/2024 13:26:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	315.81	.20508	4.3345	.18300	.32512	9.1077	21.304	2.4911
Stddev	.86	.00088	.0013	.00053	.00089	.0345	.056	.0315
%RSD	.27376	.42785	.03034	.29159	.27326	.37839	.26325	1.2643
#1	315.23	.20471	4.3330	.18273	.32492	9.1275	21.345	2.5272
#2	315.40	.20445	4.3348	.18265	.32434	9.0679	21.240	2.4693
#3	316.81	.20609	4.3356	.18361	.32609	9.1278	21.326	2.4768

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3317	7.1963	1.8499	1.4316	1.4386	1.5977	3.5204	1.2339
Stddev	.0104	.0349	.0019	.0014	.0044	.0062	.0166	.0055
%RSD	.19541	.48478	.10272	.09480	.30774	.38553	.47243	.44765
#1	5.3229	7.2193	1.8509	1.4321	1.4435	1.5997	3.5281	1.2368
#2	5.3289	7.1562	1.8512	1.4301	1.4351	1.5909	3.5013	1.2276
#3	5.3432	7.2136	1.8478	1.4327	1.4371	1.6027	3.5317	1.2374

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1816	.15524	.48216	.12046	.24408	1.8969	.26197	1.7251
Stddev	.0013	.00061	.00355	.00127	.00407	.0060	.00065	.0261
%RSD	.11356	.39321	.73629	1.0509	1.6686	.31505	.24916	1.5135
#1	1.1801	.15491	.48506	.12178	.23946	1.8999	.26121	1.7552
#2	1.1820	.15595	.48322	.12033	.24715	1.8900	.26231	1.7099
#3	1.1827	.15487	.47820	.11926	.24562	1.9008	.26238	1.7101

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2349	.12514	4.7808	.35774	.94479	22.302	2.6084
Stddev	.0022	.00018	.0638	.00041	.00514	.084	.0062
%RSD	.17641	.14180	1.3340	.11411	.54430	.37712	.23831
#1	1.2332	.12522	4.8544	.35786	.95057	22.390	2.6122
#2	1.2340	.12494	4.7431	.35729	.94305	22.222	2.6013
#3	1.2373	.12526	4.7449	.35808	.94074	22.293	2.6118

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/23/2024 13:26:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	1892.2	25131.	2092.8	1617.5	1650.8
Stddev	1.4	133.	15.7	10.9	1.0
%RSD	.07322	.53051	.74986	.67645	.05805
#1	1893.8	25257.	2074.7	1630.0	1650.1
#2	1891.1	24991.	2101.3	1610.1	1650.5
#3	1891.9	25146.	2102.4	1612.2	1651.9

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/23/2024 13:30:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	612.29	.39682	8.4889	.35987	.64746	18.214	42.596	4.8787
Stddev	.38	.00066	.0103	.00104	.00151	.292	.742	.0992
%RSD	.06242	.16642	.12111	.28870	.23301	1.6027	1.7413	2.0330
#1	612.51	.39738	8.4947	.36104	.64597	18.417	43.137	4.9660
#2	611.85	.39698	8.4771	.35904	.64741	18.345	42.901	4.8993
#3	612.52	.39609	8.4950	.35955	.64899	17.880	41.751	4.7709

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.316	14.252	3.5511	2.7573	2.8593	3.1543	6.9331	2.4455
Stddev	.011	.216	.0051	.0055	.0360	.0544	.1298	.0475
%RSD	.10672	1.5159	.14407	.19861	1.2607	1.7237	1.8714	1.9425
#1	10.327	14.403	3.5483	2.7636	2.8801	3.1929	7.0322	2.4782
#2	10.305	14.349	3.5480	2.7534	2.8801	3.1779	6.9808	2.4673
#3	10.316	14.005	3.5570	2.7549	2.8176	3.0921	6.7862	2.3910

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.2960	.30445	.95112	.23818	.49517	3.7506	.52301	3.3715
Stddev	.0027	.00130	.01336	.00372	.00399	.0695	.00056	.0684
%RSD	.11915	.42771	1.4044	1.5621	.80573	1.8522	.10730	2.0284
#1	2.2990	.30546	.95979	.24022	.49402	3.8009	.52365	3.4209
#2	2.2936	.30298	.95783	.24043	.49188	3.7796	.52273	3.4002
#3	2.2956	.30492	.93574	.23389	.49961	3.6713	.52264	3.2935

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4482	.24976	9.0232	.69839	1.8896	44.815	5.1796
Stddev	.0016	.00029	.1674	.00177	.0274	.548	.0777
%RSD	.06614	.11809	1.8549	.25346	1.4480	1.2234	1.5000
#1	2.4478	.25007	9.1503	.69980	1.9079	45.173	5.2234
#2	2.4468	.24948	9.0856	.69640	1.9026	45.089	5.2255
#3	2.4500	.24971	8.8336	.69897	1.8581	44.184	5.0899

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/23/2024 13:30:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	1840.7	25059.	2069.3	1564.5	1617.1
Stddev	1.1	19.	41.5	1.4	.4
%RSD	.06219	.07559	2.0037	.09139	.02169
#1	1842.0	25080.	2037.6	1566.1	1616.9
#2	1839.8	25044.	2054.2	1563.6	1617.5
#3	1840.2	25052.	2116.2	1563.8	1617.0

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/23/2024 13:34:24 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1191.1	.81192	17.865	.76128	1.4187	37.356	86.627	9.6829
Stddev	2.7	.00198	.055	.00176	.0027	.034	.094	.0384
%RSD	.22715	.24340	.30602	.23065	.19361	.09097	.10811	.39675
#1	1189.7	.81146	17.832	.76107	1.4183	37.352	86.709	9.6835
#2	1194.2	.81021	17.835	.75964	1.4161	37.325	86.525	9.7210
#3	1189.4	.81408	17.928	.76313	1.4216	37.392	86.648	9.6441

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	21.326	28.453	7.2381	5.7137	5.7760	6.2779	13.812	4.9340
Stddev	.065	.037	.0179	.0220	.0116	.0117	.007	.0143
%RSD	.30403	.13090	.24678	.38437	.20035	.18647	.04965	.28965
#1	21.298	28.447	7.2357	5.7008	5.7646	6.2666	13.809	4.9261
#2	21.279	28.418	7.2216	5.7012	5.7757	6.2771	13.807	4.9255
#3	21.400	28.492	7.2571	5.7390	5.7877	6.2900	13.820	4.9505

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.7687	.63740	1.9394	.48388	1.1050	7.6624	1.1143	6.6221
Stddev	.0094	.00084	.0052	.00044	.0068	.0128	.0037	.0084
%RSD	.19647	.13236	.26806	.09192	.61653	.16680	.33344	.12630
#1	4.7638	.63758	1.9428	.48343	1.1024	7.6560	1.1142	6.6151
#2	4.7627	.63648	1.9334	.48432	1.0999	7.6540	1.1106	6.6197
#3	4.7795	.63814	1.9420	.48388	1.1128	7.6771	1.1180	6.6313

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3540	.53139	17.668	1.4670	3.8144	89.908	10.547
Stddev	.0106	.00141	.027	.0043	.0054	.078	.033
%RSD	.19809	.26491	.15534	.29500	.14160	.08658	.31474
#1	5.3570	.53101	17.681	1.4665	3.8133	89.880	10.561
#2	5.3423	.53022	17.685	1.4629	3.8097	89.847	10.510
#3	5.3629	.53295	17.636	1.4715	3.8203	89.996	10.571

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/23/2024 13:34:24 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1634.7	23577.	2036.8	1373.0	1480.6
Stddev	7.0	32.	6.9	5.4	6.2
%RSD	.42581	.13406	.33647	.39292	.42003
#1	1631.9	23549.	2035.5	1369.6	1480.6
#2	1642.6	23611.	2030.6	1379.2	1486.8
#3	1629.5	23570.	2044.2	1370.2	1474.3

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/23/2024 13:38:17 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	96.525	45.574	16.243	7.8074	5.1815
Stddev	.559	.315	.095	.0410	.0403
%RSD	.57887	.69185	.58431	.52533	.77686
#1	96.948	45.768	16.294	7.8359	5.2229
#2	95.892	45.210	16.134	7.7604	5.1425
#3	96.736	45.744	16.302	7.8259	5.1791

Int. Std.	Y_3710
Units	Cts/S
Avg	1999.3
Stddev	14.5
%RSD	.72647
#1	1983.3
#2	2011.7
#3	2003.0

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICV001 Acquired: 12/23/2024 13:56:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.097705	1.009504	.9904277	.9805424	.9066308	2.443882
Stddev	.002451	.004636	.0032467	.0029034	.0033667	.025575
%RSD	.2233201	.4592311	.3278049	.2960991	.3713419	1.046477
#1	1.099905	1.014729	.9927212	.9798775	.9029474	2.435952
#2	1.098146	1.007902	.9918492	.9780292	.9095491	2.423212
#3	1.095063	1.005881	.9867127	.9837206	.9073958	2.472483

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5206880	.5265912	.5121546	10.21306	.5547057	.5097208
Stddev	.0039120	.0046471	.0002879	.05874	.0013900	.0009832
%RSD	.7513106	.8824801	.0562055	.5751161	.2505833	.1928990
#1	.5192724	.5261751	.5119337	10.17669	.5554431	.5095012
#2	.5176810	.5221661	.5124802	10.18168	.5555716	.5107953
#3	.5251108	.5314323	.5120500	10.28082	.5531023	.5088660

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5028334	10.58304	.5318669	6.327666	.5215067	.2467561
Stddev	.0142278	.03737	.0072838	.218736	.0004380	.0014089
%RSD	2.829521	.3531366	1.369473	3.456821	.0839888	.5709741
#1	.5011987	10.54076	.5237633	6.147006	.5215685	.2454262
#2	.4894936	10.59672	.5339685	6.265134	.5219106	.2482326
#3	.5178079	10.61165	.5378688	6.570858	.5210411	.2466094

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.650437	.5109738	.9069055	8.866641	F .0027338	F .0016169
Stddev	.401675	.0016811	.0077157	.091244	.0008418	.0015939
%RSD	4.162245	.3290068	.8507769	1.029065	30.79337	98.58114
#1	10.08316	.5113681	.9151831	8.782866	.0034030	.0024636
#2	9.57866	.5124228	.9056205	8.963861	.0017886	.0026087
#3	9.28949	.5091306	.8999129	8.853196	.0030097	-.000222

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICV001 Acquired: 12/23/2024 13:56:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0009926	F .0055932	F -.012064	F .0014148	F .0003059	F -.009186
Stddev	.0006746	.0021417	.000981	.0020685	.0012174	.000113
%RSD	67.95988	38.29081	8.130862	146.2025	397.9983	1.227982
#1	.0015541	.0031306	-.011971	.0022120	.0016757	-.009073
#2	.0011794	.0070209	-.013088	.0029662	-.000105	-.009298
#3	.0002443	.0066280	-.011133	-.000934	-.000653	-.009186

Elem	Li6707
Units	ppm
Avg	F .0037256
Stddev	.0059965
%RSD	160.9541
#1	.0058862
#2	.0083423
#3	-.003052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.388	26343.11	2140.188	1740.604	1822.592
Stddev	1.217	67.48	23.552	10.265	1.560
%RSD	.0599480	.2561403	1.100465	.5897588	.0856190
#1	2029.951	26418.49	2140.669	1740.891	1820.855
#2	2030.222	26288.36	2163.496	1750.722	1823.047
#3	2027.992	26322.48	2116.399	1730.198	1823.875

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICB001 Acquired: 12/23/2024 14:00:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003310	-.001601	-.001366	.0048692	.0006039	.0370921	-.001654
Stddev	.005994	.000820	.001181	.0013263	.0021066	.0263886	.001975
%RSD	181.0692	51.24100	86.50156	27.23961	348.8074	71.14333	119.4467
#1	-.009343	-.002537	-.000033	.0047871	-.001803	.0488166	.000296
#2	.002643	-.001258	-.002285	.0035858	.001501	.0555868	-.001604
#3	-.003231	-.001008	-.001779	.0062346	.002113	.0068730	-.003654

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	-.000029	-.016150	-.000513	-.000190	-.003490	-.003411
Stddev	.000016	.000123	.037108	.000715	.000167	.010339	.058460
%RSD	686.6488	432.6773	229.7738	139.5119	87.68182	296.2715	1713.859
#1	-.000017	-.000077	-.019499	-.000879	-.000318	-.014298	-.068760
#2	.000015	.000112	-.051469	-.000971	-.000250	.006304	.014609
#3	-.000005	-.000120	.022519	.000312	-.000002	-.002475	.043917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011009	-.001647	.0008901	-.000408	-.231366	-.004941	-.004143
Stddev	.0007370	.103436	.0003304	.002012	.184844	.003898	.006325
%RSD	66.94802	6279.909	37.11793	493.5170	79.89251	78.89524	152.6425
#1	.0004190	-.102843	.0005669	-.002376	-.426916	-.005804	.003110
#2	.0010008	.103892	.0008761	.001646	-.207669	-.000683	-.008504
#3	.0018828	-.005990	.0012272	-.000493	-.059513	-.008335	-.007036

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.490042	-.002035	-.000443	.0006349	-.006083	-.017388	.0000172
Stddev	.039956	.001447	.002643	.0003115	.006338	.000991	.0010353
%RSD	8.153624	71.07581	596.7517	49.06358	104.2011	5.699089	6022.351
#1	-.448229	-.001815	-.003235	.0009291	-.008127	-.018300	-.000420
#2	-.494059	-.003579	-.000115	.0003086	-.011147	-.016333	.001199
#3	-.527838	-.000711	.002021	.0006671	.001025	-.017530	-.000727

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICB001 Acquired: 12/23/2024 14:00:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0007898	.0002543	.0057534
Stddev	.0028597	.0000156	.0010639
%RSD	362.0821	6.129717	18.49102
#1	.0039038	.0002373	.0069385
#2	-.001719	.0002679	.0054412
#3	.000184	.0002576	.0048806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2021.490	26277.58	2113.547	1737.924	1820.832
Stddev	1.896	91.96	4.502	5.628	2.351
%RSD	.0937862	.3499554	.2130264	.3238464	.1291343
#1	2019.376	26171.50	2109.568	1731.425	1819.942
#2	2022.054	26334.72	2118.434	1741.212	1823.499
#3	2023.040	26326.53	2112.640	1741.134	1819.056

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSA001 Acquired: 12/23/2024 14:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009508	-.010812	.0055747	.0244191	.0238240	236.4366
Stddev	.003015	.004417	.0014368	.0078781	.0011857	.9851
%RSD	31.70506	40.85655	25.77368	32.26220	4.976829	.4166594
#1	-.006624	-.015680	.0051257	.0165621	.0249401	235.4856
#2	-.009262	-.007058	.0044160	.0323182	.0239527	237.4526
#3	-.012638	-.009697	.0071824	.0243770	.0225793	236.3715

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028451	.0020196	.0010455	242.1648	.0521193	.0364007
Stddev	.0026461	.0001208	.0000499	1.2307	.0006230	.0003283
%RSD	93.00402	5.982478	4.769726	.5081931	1.195302	.9018821
#1	.0027269	.0018898	.0010579	241.2717	.0517763	.0362282
#2	.0002602	.0021288	.0010879	243.5686	.0528384	.0361947
#3	.0055484	.0020402	.0009905	241.6541	.0517432	.0367793

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001171	100.7543	.0123397	257.1051	.0038986	.0026556
Stddev	.006184	.1511	.0014035	.8350	.0002715	.0007506
%RSD	528.2150	.1499542	11.37420	.3247538	6.964331	28.26443
#1	-.003578	100.5890	.0139189	256.1442	.0039558	.0028919
#2	.005855	100.8852	.0118654	257.6543	.0036031	.0032595
#3	-.005790	100.7888	.0112348	257.5167	.0041370	.0018153

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.84089	.0089735	-.015816	-.855043	-.001025	F -.011812
Stddev	.65846	.0158117	.004204	.131253	.001462	.003901
%RSD	35.76858	176.2040	26.58355	15.35046	142.7257	33.02341
#1	-2.17277	.0171335	-.019343	-.995124	-.002578	-.010715
#2	-1.08253	.0190383	-.011163	-.835106	-.000821	-.008578
#3	-2.26737	-.009251	-.016941	-.734899	.000325	-.016144

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSA001 Acquired: 12/23/2024 14:04:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035359	.0200226	-.026184	F .0129833	-.004881	.0015312
Stddev	.0008416	.0010926	.000930	.0009306	.002391	.0006983
%RSD	23.80170	5.456612	3.552547	7.167600	48.97955	45.60576
#1	.0038233	.0188216	-.025751	.0130218	-.002560	.0018082
#2	.0025883	.0209575	-.025550	.0120341	-.004747	.0020484
#3	.0041962	.0202887	-.027252	.0138941	-.007336	.0007369

Elem	Li6707
Units	ppm
Avg	.0084396
Stddev	.0016651
%RSD	19.72960
#1	.0103596
#2	.0073926
#3	.0075665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1929.079	24812.76	2093.846	1646.319	1647.136
Stddev	1.737	100.46	2.577	7.764	.803
%RSD	.0900649	.4048901	.1230788	.4716181	.0487221
#1	1931.046	24858.16	2093.584	1644.090	1648.062
#2	1927.754	24882.51	2096.545	1654.954	1646.650
#3	1928.437	24697.61	2091.411	1639.913	1646.694

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 12/23/2024 14:08:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0982024	.0831045	.0572344	.0693546	.5832036	236.9457
Stddev	.0048223	.0101188	.0023294	.0035492	.0044597	2.2810
%RSD	4.910592	12.17602	4.069987	5.117508	.7646963	.9626512
#1	.0930094	.0823399	.0560167	.0671594	.5791173	238.7269
#2	.0990587	.0733897	.0599203	.0734493	.5879608	237.7354
#3	.1025393	.0935840	.0557662	.0674551	.5825328	234.3749

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5258380	.5251327	1.019382	242.5419	.5961679	.5307926
Stddev	.0049631	.0048217	.003271	2.5055	.0018312	.0020734
%RSD	.9438458	.9181903	.3208646	1.033031	.3071629	.3906261
#1	.5285457	.5283708	1.016827	244.2667	.5969659	.5292143
#2	.5288584	.5274360	1.018252	243.6910	.5974646	.5300226
#3	.5201100	.5195913	1.023068	239.6679	.5940731	.5331408

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4788955	101.3140	.5265784	258.1679	1.016280	.1847340
Stddev	.0042526	1.1393	.0073320	2.6874	.004354	.0008688
%RSD	.8879930	1.124525	1.392392	1.040942	.4284452	.4703018
#1	.4806117	102.0543	.5324628	259.7154	1.014028	.1856135
#2	.4820218	101.8857	.5289078	259.7234	1.013512	.1847120
#3	.4740530	100.0021	.5183647	255.0648	1.021298	.1838763

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.944968	.5172710	.9267439	-1.24301	-.002438	F -.011429
Stddev	.925273	.0113762	.0172517	.22769	.002183	.004662
%RSD	97.91576	2.199266	1.861535	18.31793	89.54633	40.79375
#1	-.387888	.5221363	.9327057	-1.17258	-.004937	-.013747
#2	-.433966	.5042713	.9402239	-1.05886	-.000904	-.006062
#3	-2.01305	.5254055	.9073020	-1.49760	-.001473	-.014479

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 12/23/2024 14:08:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042221	.0162405	-.029529	F .0130058	-.006371	.0013206
Stddev	.0015429	.0018697	.000671	.0033935	.001406	.0003761
%RSD	36.54334	11.51262	2.273004	26.09247	22.07108	28.48045
#1	.0024482	.0146393	-.028756	.0166358	-.005125	.0008904
#2	.0052518	.0157868	-.029865	.0124688	-.006092	.0015871
#3	.0049665	.0182952	-.029966	.0099128	-.007895	.0014843

Elem	Li6707
Units	ppm
Avg	.0071303
Stddev	.0013110
%RSD	18.38596
#1	.0080136
#2	.0056240
#3	.0077532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1923.948	24876.11	2110.058	1648.195	1649.141
Stddev	6.458	91.79	12.560	7.017	6.484
%RSD	.3356581	.3690069	.5952391	.4257640	.3931609
#1	1929.337	24923.63	2104.831	1651.352	1655.745
#2	1925.718	24934.41	2100.957	1653.079	1648.893
#3	1916.790	24770.30	2124.388	1640.154	1642.784

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV001 Acquired: 12/23/2024 14:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.005187	4.860599	24.94315	5.001554	4.953275	403.6886	10.16410
Stddev	.022926	.006987	.07643	.029779	.003855	4.5583	.10684
%RSD	.4580396	.1437556	.3064262	.5953896	.0778284	1.129150	1.051169
#1	5.031459	4.858332	24.87374	5.000786	4.957560	404.7458	10.20522
#2	4.989231	4.855026	24.93064	4.972166	4.950089	398.6946	10.04280
#3	4.994872	4.868438	25.02506	5.031709	4.952175	407.6253	10.24426

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5155738	2.503588	410.4360	15.79103	2.526658	15.21268	413.3318
Stddev	.0069292	.006451	4.2911	.04763	.007530	.18976	4.6911
%RSD	1.343973	.2576859	1.045510	.3016516	.2980340	1.247365	1.134956
#1	.5137668	2.499709	411.0921	15.84344	2.520650	15.24028	414.4449
#2	.5097272	2.500018	405.8546	15.75037	2.524218	15.01064	408.1843
#3	.5232275	2.511035	414.3614	15.77927	2.535106	15.38713	417.3663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.06966	408.3939	2.533485	1.305511	404.7655	2.533295	15.08649
Stddev	.15941	4.5774	.004572	.003742	4.2368	.009711	.11288
%RSD	1.057812	1.120819	.1804656	.2866187	1.046718	.3833256	.7481963
#1	15.09623	410.1387	2.532527	1.309499	406.7292	2.542490	15.19944
#2	14.89863	403.2008	2.529468	1.302078	399.9032	2.523140	15.08635
#3	15.21411	411.8423	2.538460	1.304955	407.6641	2.534256	14.97369

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.1964	5.043375	4.994342	4.916126	5.035171	4.936523	5.066555
Stddev	1.5133	.010945	.076278	.012741	.010884	.068101	.017358
%RSD	.9877856	.2170197	1.527284	.2591630	.2161681	1.379534	.3425956
#1	153.4537	5.038795	4.982612	4.920150	5.022996	4.919038	5.054688
#2	151.5711	5.035464	4.924609	4.901859	5.038558	4.878869	5.058500
#3	154.5646	5.055866	5.075806	4.926369	5.043960	5.011662	5.086477

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV001 Acquired: 12/23/2024 14:12:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.055174	4.832406	5.113268
Stddev	.050991	.056893	.057730
%RSD	1.008689	1.177331	1.129021
#1	5.046159	4.825273	5.131326
#2	5.009291	4.779416	5.048668
#3	5.110071	4.892530	5.159810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1757.337	23869.46	2053.477	1497.352	1533.736
Stddev	6.884	122.32	23.871	8.652	8.212
%RSD	.3917553	.5124659	1.162486	.5778446	.5354069
#1	1763.377	23730.69	2052.914	1489.283	1542.133
#2	1758.793	23916.07	2077.625	1496.284	1533.350
#3	1749.841	23961.63	2029.893	1506.488	1525.724

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB001 Acquired: 12/23/2024 14:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028919	.0012033	.0036605	.0022437	-.000066	.0378423	-.000999
Stddev	.0053961	.0027323	.0023915	.0047833	.002072	.0462896	.001053
%RSD	186.5908	227.0678	65.33412	213.1937	3161.328	122.3222	105.3644
#1	.0029740	-.001499	.0047063	.0057142	-.001379	.0020892	-.001494
#2	.0082466	.003965	.0053509	.0042296	.002323	.0901283	.000210
#3	-.002545	.001144	.0009241	-.003213	-.001141	.0213095	-.001713

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	-.000054	.0018350	.0003506	-.000032	.0083635	.0330278
Stddev	.000092	.000051	.0068233	.0002243	.000240	.0097983	.0279130
%RSD	174.7336	93.98517	371.8346	63.97844	746.8645	117.1554	84.51380
#1	-.000076	.000001	.0017088	.0005087	.000216	.0098373	.0335555
#2	-.000131	-.000064	.0087205	.0000939	-.000264	-.002088	.0048546
#3	.000049	-.000099	-.004924	.0004494	-.000048	.017341	.0606732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015270	.1197950	.0009785	.0008518	-.110412	.0081163	-.004226
Stddev	.0012417	.0279895	.0002351	.0010047	.490852	.0045776	.009262
%RSD	81.31457	23.36450	24.02574	117.9483	444.5638	56.39959	219.1728
#1	.0009140	.1062140	.0012217	.0015575	-.040363	.0109801	-.012809
#2	.0007110	.1519839	.0009612	.0012965	-.632526	.0105320	.005591
#3	.0029560	.1011870	.0007525	-.000298	.341652	.0028369	-.005459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.497514	-.001293	.0126564	.0006421	-.001531	-.034101	.0016355
Stddev	.106479	.001161	.0002901	.0004300	.004945	.001152	.0013538
%RSD	21.40219	89.79830	2.292122	66.97069	323.0139	3.377829	82.77380
#1	-.401480	-.000179	.0129475	.0001496	.000647	-.033500	.0022749
#2	-.479040	-.001203	.0126544	.0008337	.001951	-.033374	.0025512
#3	-.612020	-.002495	.0123673	.0009430	-.007190	-.035429	.0000805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB001 Acquired: 12/23/2024 14:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002682	.0003368	.0137388
Stddev	.002457	.0003157	.0049226
%RSD	91.62129	93.72576	35.83009
#1	-.000289	.0003768	.0141281
#2	-.002558	.0006306	.0184552
#3	-.005199	.0000031	.0086330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.177	26411.95	2124.655	1747.132	1835.178
Stddev	6.115	166.23	26.214	6.429	4.564
%RSD	.2998608	.6293683	1.233788	.3680006	.2486739
#1	2036.919	26220.01	2114.761	1739.810	1836.437
#2	2046.100	26508.37	2104.828	1751.857	1838.981
#3	2034.513	26507.48	2154.376	1749.729	1830.117

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-04DLX2 Acquired: 12/23/2024 14:28:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225509	.0015843	.0967704	.0108569	.0157128	27.98752	.4098541
Stddev	.0020264	.0048151	.0039473	.0046679	.0022530	.09991	.0010734
%RSD	8.985976	303.9283	4.079081	42.99461	14.33855	.3569716	.2619049
#1	.0202405	.0031102	.1002274	.0122511	.0145192	28.06200	.4107968
#2	.0233851	-.003809	.0976146	.0146689	.0183115	27.87399	.4086858
#3	.0240271	.005452	.0924693	.0056508	.0143077	28.02658	.4100797

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028621	.0015438	518.5643	.0452803	.0863384	.1030168	75.14285
Stddev	.0000973	.0000555	2.9479	.0008518	.0002785	.0143462	.33207
%RSD	3.399787	3.592972	.5684711	1.881137	.3225240	13.92607	.4419160
#1	.0029082	.0015262	520.8992	.0462589	.0862617	.0916435	75.42370
#2	.0027503	.0014993	515.2518	.0448764	.0861063	.0982728	74.77635
#3	.0029279	.0016060	519.5418	.0447056	.0866472	.1191341	75.22850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.375428	85.12960	.0893618	.0022448	-1.45629	.0619682	.2544435
Stddev	.016630	.46639	.0008427	.0011614	.11314	.0031410	.0115419
%RSD	.4926813	.5478544	.9429967	51.73555	7.769249	5.068746	4.536140
#1	3.389644	84.94112	.0886647	.0009045	-1.58662	.0615064	.2653029
#2	3.357140	84.78695	.0891224	.0029542	-1.39894	.0590836	.2557049
#3	3.379499	85.66073	.0902983	.0028756	-1.38331	.0653145	.2423227

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.072825	2.918575	.0139432	.0045159	.8867764	4.970236	.0157657
Stddev	.173509	.006818	.0029766	.0004357	.0124083	.077247	.0008414
%RSD	5.646575	.2336007	21.34826	9.647462	1.399256	1.554197	5.336884
#1	3.074881	2.920230	.0135529	.0047274	.8898991	5.047162	.0150254
#2	2.898297	2.911081	.0170956	.0048054	.8731051	4.892672	.0166808
#3	3.245297	2.924412	.0111809	.0040148	.8973251	4.970874	.0155911

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-04DLX2 Acquired: 12/23/2024 14:28:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK96 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3927391	.3931578	.0727012
Stddev	.0069193	.0011924	.0019639
%RSD	1.761796	.3032739	2.701282
#1	.3963474	.3935260	.0706844
#2	.3847615	.3918248	.0728117
#3	.3971084	.3941227	.0746075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2067.811	26933.92	2260.024	1771.166	1633.616
Stddev	5.926	207.25	26.236	16.888	4.490
%RSD	.2866022	.7694621	1.160865	.9534794	.2748446
#1	2061.296	26946.58	2232.075	1772.105	1628.439
#2	2072.883	26720.64	2284.121	1753.829	1635.967
#3	2069.254	27134.55	2263.877	1787.565	1636.443

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-12DLX2 Acquired: 12/23/2024 14:32:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0685572	-.007129	.3279795	.0247713	.0228690	40.27653	.5503356
Stddev	.0024173	.003066	.0027664	.0012352	.0015264	.18870	.0026067
%RSD	3.525982	43.00628	.8434687	4.986572	6.674709	.4685138	.4736558
#1	.0695690	-.008162	.3281848	.0246228	.0242659	40.13950	.5476945
#2	.0703042	-.009544	.3306375	.0260740	.0231014	40.49176	.5529065
#3	.0657984	-.003680	.3251161	.0236169	.0212397	40.19834	.5504058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043265	.0034828	485.2011	.0718956	.0922161	4.972718	104.4086
Stddev	.0001382	.0000279	1.8880	.0007118	.0006207	.022594	.5301
%RSD	3.195107	.7998045	.3891209	.9900394	.6731489	.4543660	.5076793
#1	.0041753	.0034519	483.3545	.0710738	.0916216	4.946804	103.9214
#2	.0044464	.0034906	487.1280	.0723170	.0928602	4.988292	104.9730
#3	.0043578	.0035060	485.1209	.0722960	.0921665	4.983058	104.3315

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.632948	80.50361	.1082767	.0044035	-.833074	.0877204	1.614655
Stddev	.030613	.46196	.0013918	.0009811	.449729	.0045909	.026128
%RSD	.4615281	.5738351	1.285386	22.27928	53.98428	5.233588	1.618171
#1	6.613998	80.37664	.1071184	.0050511	-.313827	.0876500	1.643314
#2	6.668266	81.01578	.1078910	.0032747	-1.09928	.0923461	1.608490
#3	6.616582	80.11842	.1098206	.0048845	-1.08611	.0831651	1.592161

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.948969	3.591317	.0289138	.0034962	1.238999	5.290007	.0401240
Stddev	.059543	.014479	.0020456	.0003115	.004655	.019833	.0015784
%RSD	.8568560	.4031616	7.074859	8.909209	.3757200	.3749179	3.933899
#1	6.924454	3.575829	.0265733	.0037229	1.240827	5.278913	.0383538
#2	6.905597	3.604513	.0303599	.0031410	1.242463	5.278204	.0406335
#3	7.016856	3.593609	.0298083	.0036248	1.233708	5.312905	.0413848

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-12DLX2 Acquired: 12/23/2024 14:32:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4297152	.3487660	.0839816
Stddev	.0022779	.0007799	.0042315
%RSD	.5300873	.2236265	5.038620
#1	.4283641	.3481212	.0792208
#2	.4284364	.3485438	.0854097
#3	.4323451	.3496329	.0873143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2175.155	28345.97	2378.325	1855.985	1655.674
Stddev	7.730	165.57	2.001	13.960	4.677
%RSD	.3553836	.5841216	.0841480	.7521438	.2824668
#1	2177.674	28210.65	2376.805	1844.238	1658.041
#2	2181.312	28296.65	2377.578	1852.300	1658.694
#3	2166.480	28530.59	2380.593	1871.418	1650.287

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-13DLX2 Acquired: 12/23/2024 14:36:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170614	.0086901	.1110210	-.004688	.0114631	27.20762	.3449406
Stddev	.0026694	.0019361	.0032133	.001580	.0038816	.15917	.0030894
%RSD	15.64581	22.27964	2.894268	33.69923	33.86215	.5850138	.8956408
#1	.0154059	.0079394	.1106485	-.003979	.0117245	27.38523	.3484385
#2	.0156374	.0108891	.1080103	-.006498	.0074573	27.07789	.3437983
#3	.0201408	.0072417	.1144043	-.003587	.0152074	27.15972	.3425849

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030642	.0014239	593.5666	.0480336	.0741249	.1473819	64.21548
Stddev	.0002328	.0000959	2.3498	.0017720	.0006748	.0021805	.42670
%RSD	7.598406	6.737580	.3958820	3.689107	.9103957	1.479477	.6644747
#1	.0031586	.0013134	596.2646	.0462669	.0744958	.1457198	64.65024
#2	.0027990	.0014722	592.4673	.0498109	.0745328	.1465751	63.79733
#3	.0032350	.0014861	591.9679	.0480230	.0733459	.1498508	64.19889

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.188343	57.18041	.0708181	.0029453	-.609537	.0542027	.2813171
Stddev	.020175	.42621	.0008111	.0003769	.540099	.0064759	.0184335
%RSD	.6327814	.7453856	1.145347	12.79823	88.60807	11.94757	6.552569
#1	3.210695	57.67053	.0715681	.0027844	-1.17807	.0600855	.2873333
#2	3.182853	56.89670	.0709290	.0026755	-.54727	.0552590	.2959908
#3	3.171482	56.97400	.0699573	.0033760	-.10327	.0472636	.2606271

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.737038	1.798972	.0444419	.0030749	1.209467	4.737006	.0152007
Stddev	.111546	.012552	.0004256	.0002749	.006838	.034029	.0003777
%RSD	1.655719	.6977531	.9576425	8.940638	.5654096	.7183560	2.484581
#1	6.614106	1.798860	.0447570	.0032188	1.205273	4.750888	.0149306
#2	6.831798	1.811580	.0439578	.0032481	1.217359	4.698231	.0150392
#3	6.765209	1.786476	.0446110	.0027579	1.205770	4.761900	.0156323

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-13DLX2 Acquired: 12/23/2024 14:36:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1428217	.4526459	.0639584
Stddev	.0026572	.0010219	.0046635
%RSD	1.860523	.2257704	7.291411
#1	.1426804	.4537068	.0586079
#2	.1455468	.4525628	.0671598
#3	.1402379	.4516680	.0661076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2059.757	26897.91	2240.570	1764.765	1624.485
Stddev	7.384	85.02	9.672	11.027	7.548
%RSD	.3584653	.3160739	.4316841	.6248388	.4646519
#1	2053.291	26888.06	2231.324	1759.168	1617.385
#2	2058.177	26818.24	2250.619	1757.659	1623.656
#3	2067.802	26987.42	2239.767	1777.468	1632.413

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03DLX2 Acquired: 12/23/2024 14:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0913763	-.015451	.3342841	.0587225	.0241963	43.46176	1.023358
Stddev	.0044129	.003258	.0014848	.0014166	.0010895	.05516	.002245
%RSD	4.829389	21.08776	.4441741	2.412298	4.502941	.1269146	.2193443
#1	.0951338	-.015517	.3334173	.0573751	.0247594	43.52374	1.024415
#2	.0865168	-.018675	.3334365	.0601993	.0248892	43.41804	1.020780
#3	.0924781	-.012160	.3359986	.0585930	.0229405	43.44351	1.024879

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040685	.0059184	122.8441	.0679909	.0968196	.1552627	122.1707
Stddev	.0001572	.0000784	.0105	.0010387	.0014970	.0045443	.3028
%RSD	3.863679	1.325380	.0085198	1.527731	1.546144	2.926830	.2478104
#1	.0042388	.0059194	122.8333	.0680584	.0951032	.1506666	122.2351
#2	.0040380	.0058395	122.8449	.0689942	.0978549	.1553682	121.8409
#3	.0039289	.0059963	122.8542	.0669201	.0975006	.1597533	122.4361

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.17656	47.68016	.1092877	.0077402	-.815263	.0989152	.4203638
Stddev	.02675	.33326	.0007741	.0010907	.503830	.0058982	.0112897
%RSD	.1471471	.6989541	.7083317	14.09088	61.79970	5.962930	2.685695
#1	18.17552	47.37241	.1097622	.0080656	-.283585	.0923786	.4207347
#2	18.15035	47.63397	.1083944	.0086311	-1.28563	.1005271	.4314635
#3	18.20381	48.03411	.1097064	.0065239	-.87657	.1038400	.4088933

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.321977	3.506004	.0068564	.0058242	1.327975	6.685938	.0247767
Stddev	.091078	.020252	.0030702	.0006007	.012903	.039520	.0030377
%RSD	2.741690	.5776478	44.77896	10.31429	.9716606	.5910847	12.26046
#1	3.401966	3.485904	.0088213	.0062131	1.313717	6.715834	.0271278
#2	3.222851	3.505703	.0084294	.0061272	1.331362	6.641133	.0258556
#3	3.341113	3.526406	.0033184	.0051323	1.338848	6.700848	.0213468

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03DLX2 Acquired: 12/23/2024 14:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2260622	.0028587	.0490084
Stddev	.0036854	.0002350	.0031843
%RSD	1.630257	8.220947	6.497533
#1	.2231597	.0028719	.0526043
#2	.2248183	.0026174	.0478753
#3	.2302086	.0030868	.0465455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2364.691	30717.03	2526.814	2027.673	1759.972
Stddev	10.631	148.15	18.743	13.781	10.524
%RSD	.4495663	.4823135	.7417806	.6796378	.5979589
#1	2375.413	30636.43	2507.484	2020.151	1770.188
#2	2364.505	30626.65	2544.910	2019.290	1760.564
#3	2354.154	30888.01	2528.047	2043.578	1749.165

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-04DLX2 Acquired: 12/23/2024 14:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949371	-.015931	.3331671	.0575795	.0228122	44.14331	1.035129
Stddev	.0089612	.001231	.0001360	.0012995	.0037237	.16217	.001652
%RSD	9.439047	7.728332	.0408068	2.256861	16.32325	.3673652	.1596219
#1	.0979759	-.017185	.3330277	.0590540	.0205683	44.11291	1.033412
#2	.1019837	-.015882	.3332994	.0566013	.0271105	44.31853	1.036709
#3	.0848517	-.014725	.3331741	.0570832	.0207576	43.99849	1.035265

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040808	.0058577	123.6537	.0681909	.0970610	.1516273	123.5096
Stddev	.0000473	.0001092	.5156	.0008108	.0003779	.0024672	.5012
%RSD	1.157931	1.863801	.4169534	1.188999	.3893069	1.627123	.4058359
#1	.0040619	.0059216	123.5345	.0685584	.0974434	.1539265	123.3657
#2	.0041345	.0057316	124.2185	.0672614	.0966879	.1519346	124.0671
#3	.0040459	.0059199	123.2083	.0687528	.0970518	.1490210	123.0961

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.36340	48.11956	.1095808	.0068832	-1.09421	.0980086	.3964953
Stddev	.07764	.19554	.0010852	.0020425	.21900	.0076312	.0056487
%RSD	.4227876	.4063525	.9903154	29.67443	20.01432	7.786296	1.424666
#1	18.33302	48.13184	.1108326	.0061075	-.91241	.1027065	.3901238
#2	18.45163	48.30866	.1089058	.0091999	-1.03288	.0892034	.3984724
#3	18.30554	47.91817	.1090040	.0053421	-1.33733	.1021159	.4008897

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.283067	3.517788	.0123863	.0061984	1.324999	7.042350	.0223670
Stddev	.162526	.006957	.0014244	.0004509	.002103	.036295	.0029960
%RSD	4.950437	.1977727	11.49949	7.274362	.1587127	.5153772	13.39475
#1	3.095449	3.522064	.0140252	.0064955	1.326588	7.058704	.0192264
#2	3.373063	3.509760	.0114476	.0056796	1.322614	7.067589	.0226808
#3	3.380688	3.521540	.0116861	.0064202	1.325794	7.000755	.0251938

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-04DLX2 Acquired: 12/23/2024 14:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2417732	.0026123	.0475375
Stddev	.0057566	.0002234	.0059253
%RSD	2.380992	8.553533	12.46451
#1	.2364273	.0024964	.0541340
#2	.2478673	.0024706	.0458126
#3	.2410249	.0028699	.0426661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2333.127	30203.68	2475.487	2002.694	1738.367
Stddev	1.789	123.54	14.257	14.727	2.591
%RSD	.0766853	.4090364	.5759199	.7353577	.1490663
#1	2332.568	30260.58	2476.851	2000.128	1738.334
#2	2335.129	30061.94	2460.597	1989.419	1740.976
#3	2331.684	30288.52	2489.013	2018.536	1735.793

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03LDLX10 Acquired: 12/23/2024 14:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149961	-.000043	.0676067	.0065681	.0048629	9.893973	.2300490
Stddev	.0032764	.005534	.0025452	.0004418	.0042014	.038846	.0020520
%RSD	21.84816	12738.54	3.764779	6.726772	86.39835	.3926185	.8919670
#1	.0182010	-.004666	.0694798	.0069865	.0042441	9.853286	.2289762
#2	.0116527	-.001552	.0686315	.0061061	.0010051	9.930669	.2287557
#3	.0151346	.006088	.0647088	.0066118	.0093394	9.897963	.2324149

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009116	.0010301	27.97978	.0144381	.0274655	.0372169	27.92818
Stddev	.0001665	.0000545	.15100	.0008136	.0001099	.0017663	.07924
%RSD	18.26792	5.293761	.5396816	5.635136	.4002674	4.746035	.2837120
#1	.0008676	.0009920	27.86609	.0148430	.0273580	.0377095	27.91811
#2	.0010957	.0010057	28.15112	.0135015	.0274608	.0386847	28.01197
#3	.0007715	.0010926	27.92214	.0149697	.0275778	.0352566	27.85446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.172565	11.04984	.0212191	.0013163	-1.78878	.0261593	.0802138
Stddev	.014864	.05356	.0005015	.0010658	.94026	.0049255	.0245343
%RSD	.3562406	.4847085	2.363232	80.96868	52.56435	18.82870	30.58611
#1	4.158574	11.01241	.0210230	.0002057	-2.35016	.0209083	.1083949
#2	4.188171	11.02591	.0217889	.0023308	-2.31290	.0306769	.0686328
#3	4.170951	11.11119	.0208453	.0014125	-.70327	.0268927	.0636136

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1613107	.6891325	.0021971	.0026400	.2565638	1.558592	.0047072
Stddev	.0490577	.0032152	.0032372	.0008581	.0008291	.021355	.0020565
%RSD	30.41196	.4665583	147.3394	32.50401	.3231480	1.370124	43.68955
#1	.1321083	.6855681	.0013025	.0030743	.2562729	1.538846	.0062496
#2	.1338753	.6918140	.0057876	.0031941	.2559194	1.581255	.0023723
#3	.2179486	.6900155	-.000499	.0016516	.2574991	1.555674	.0054996

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03LDLX10 Acquired: 12/23/2024 14:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0523613	.0004488	.0119954
Stddev	.0048933	.0002448	.0043832
%RSD	9.345246	54.54919	36.54057
#1	.0477547	.0003661	.0167945
#2	.0574981	.0002560	.0082033
#3	.0518312	.0007243	.0109885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2105.632	27527.67	2230.203	1819.669	1818.403
Stddev	4.053	150.28	20.751	9.697	.702
%RSD	.1925017	.5459381	.9304671	.5329261	.0386087
#1	2108.944	27356.52	2244.869	1809.965	1819.214
#2	2101.112	27638.06	2206.460	1829.360	1817.999
#3	2106.841	27588.44	2239.281	1819.681	1817.997

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-05DLX2 Acquired: 12/23/2024 14:52:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1372985	.0300452	.3363727	.1308802	.0998256	43.30071	2.654654
Stddev	.0032025	.0032815	.0013230	.0013456	.0022400	.25665	.022931
%RSD	2.332517	10.92189	.3933003	1.028111	2.243900	.5927174	.8637860
#1	.1368991	.0280014	.3357195	.1293432	.0974113	43.03339	2.629715
#2	.1406820	.0338303	.3355034	.1318457	.1002293	43.54516	2.674828
#3	.1343145	.0283039	.3378952	.1314518	.1018363	43.32357	2.659418

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464084	.0535060	117.4575	.2433279	.5617803	.3506155	118.0658
Stddev	.0004114	.0001079	.8207	.0003713	.0002330	.0142779	1.0316
%RSD	.8865114	.2015956	.6986936	.1525860	.0414668	4.072232	.8737130
#1	.0461189	.0534090	116.6026	.2433427	.5617639	.3355293	116.9921
#2	.0468793	.0534869	118.2390	.2436915	.5615560	.3524001	119.0492
#3	.0462270	.0536222	117.5309	.2429494	.5620210	.3639172	118.1562

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.85743	45.75406	.5891337	.0363584	-1.12716	.5190420	.7708917
Stddev	.16308	.41242	.0010258	.0017955	.60620	.0016054	.0168099
%RSD	.9132266	.9013944	.1741265	4.938249	53.78104	.3092986	2.180584
#1	17.68119	45.37819	.5882358	.0343482	-.54645	.5183683	.7749381
#2	18.00300	46.19524	.5902517	.0378028	-1.07905	.5178833	.7524279
#3	17.88808	45.68875	.5889136	.0369242	-1.75598	.5208745	.7853091

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.982016	3.349533	.0073533	.0051312	1.264832	6.439987	.0207771
Stddev	.139254	.012175	.0027534	.0006550	.003278	.059354	.0009292
%RSD	4.669789	.3634822	37.44523	12.76439	.2591323	.9216418	4.472337
#1	2.992003	3.344813	.0064339	.0047394	1.261679	6.393156	.0197048
#2	2.838038	3.340425	.0051771	.0047668	1.264596	6.506739	.0213458
#3	3.116008	3.363361	.0104488	.0058873	1.268221	6.420067	.0212807

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-05DLX2 Acquired: 12/23/2024 14:52:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2204833	.0016975	.0477828
Stddev	.0014149	.0002463	.0042014
%RSD	.6417048	14.51058	8.792742
#1	.2190034	.0016601	.0509711
#2	.2218226	.0014721	.0430219
#3	.2206238	.0019604	.0493552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.635	31295.87	2575.721	2070.106	1804.561
Stddev	5.629	84.39	23.854	4.136	1.954
%RSD	.2337832	.2696383	.9261060	.1997906	.1082876
#1	2414.114	31369.15	2599.520	2066.089	1806.816
#2	2404.848	31314.84	2551.812	2074.352	1803.505
#3	2403.944	31203.61	2575.831	2069.877	1803.362

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-13DLX5 Acquired: 12/23/2024 14:56:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010123	.0132804	.0363928	-.011459	.0060540	11.65384	.0884583
Stddev	.0031095	.0032516	.0005693	.001886	.0014995	.00853	.0013012
%RSD	307.1576	24.48444	1.564309	16.46206	24.76947	.0731920	1.470986
#1	.0044659	.0164240	.0366766	-.010913	.0073166	11.66163	.0889005
#2	.0001361	.0099305	.0367644	-.013559	.0064488	11.65516	.0894808
#3	-.001565	.0134867	.0357374	-.009907	.0043965	11.64473	.0869936

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014162	.0006404	206.5279	.0217319	.0460503	.0439594	35.80746
Stddev	.0001915	.0000756	.1720	.0009236	.0004696	.0033948	.10175
%RSD	13.52399	11.80793	.0832849	4.250079	1.019774	7.722677	.2841627
#1	.0015395	.0006656	206.6803	.0209357	.0462750	.0478104	35.91354
#2	.0011955	.0007001	206.3414	.0227445	.0455105	.0413995	35.71067
#3	.0015135	.0005554	206.5620	.0215154	.0463653	.0426683	35.79816

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.775902	42.89046	.0282005	.0011821	-1.03903	.0349418	.0868453
Stddev	.006662	.25181	.0002734	.0009719	.36711	.0089214	.0095669
%RSD	.3751336	.5871063	.9695299	82.22388	35.33248	25.53206	11.01608
#1	1.781462	43.16593	.0278921	.0018574	-.89959	.0411261	.0954074
#2	1.777728	42.83331	.0284133	.0016206	-1.45543	.0247148	.0886094
#3	1.768518	42.67213	.0282960	.0000681	-.76206	.0389846	.0765190

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.253466	1.042007	.0086369	.0042177	.3128784	1.931247	.0090324
Stddev	.032361	.004644	.0027850	.0003042	.0037205	.018620	.0031861
%RSD	2.581717	.4456312	32.24540	7.212130	1.189112	.9641593	35.27373
#1	1.274355	1.045666	.0069424	.0041903	.3129229	1.927248	.0093279
#2	1.216189	1.036783	.0071171	.0045346	.3091359	1.951542	.0057089
#3	1.269854	1.043571	.0118512	.0039281	.3165764	1.914952	.0120605

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-13DLX5 Acquired: 12/23/2024 14:56:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2888712	.1364957	.0213223
Stddev	.0012916	.0007288	.0029431
%RSD	.4471186	.5338963	13.80275
#1	.2873825	.1359803	.0179666
#2	.2896938	.1361774	.0234648
#3	.2895372	.1373294	.0225355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.446	26731.64	2185.702	1764.496	1703.514
Stddev	5.075	111.36	8.893	4.085	5.682
%RSD	.2502150	.4165784	.4068705	.2314863	.3335386
#1	2022.866	26784.33	2187.923	1765.853	1696.974
#2	2032.788	26603.72	2175.910	1759.906	1707.236
#3	2029.684	26806.89	2193.275	1767.729	1706.331

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-03DLX2 Acquired: 12/23/2024 15:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0351538	-.014196	.0974547	.0227531	.0229033	47.06037	.6103552
Stddev	.0021589	.002497	.0022433	.0051715	.0035355	.07746	.0011042
%RSD	6.141236	17.59002	2.301923	22.72878	15.43660	.1646032	.1809163
#1	.0374440	-.015193	.0965043	.0200758	.0191184	46.98072	.6096537
#2	.0331560	-.016040	.0958430	.0287144	.0261208	47.06497	.6097838
#3	.0348613	-.011354	.1000168	.0194692	.0234706	47.13544	.6116280

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048829	.0023868	415.8688	.0925597	.0866079	.0756606	106.6873
Stddev	.0000716	.0000741	.7694	.0006481	.0005397	.0024746	.1847
%RSD	1.466898	3.102671	.1850142	.7002206	.6232003	3.270655	.1731590
#1	.0049346	.0023496	415.2704	.0921711	.0860804	.0777190	106.5229
#2	.0049129	.0024721	415.5992	.0933079	.0871591	.0763477	106.6518
#3	.0048011	.0023389	416.7367	.0922001	.0865843	.0729150	106.8872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222240	121.6019	.1439966	.0021310	-.853073	.1229990	.3191396
Stddev	.001993	.4314	.0010357	.0018619	.508568	.0014253	.0116131
%RSD	.0896828	.3547626	.7192675	87.37322	59.61601	1.158790	3.638866
#1	2.220658	121.3623	.1430083	.0034829	-.520183	.1232425	.3238618
#2	2.221583	121.3434	.1439075	.0000073	-.600556	.1214677	.3276477
#3	2.224478	122.0999	.1450740	.0029027	-1.43848	.1242869	.3059093

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.240331	2.063535	.0159257	.0138281	2.930084	5.902586	.0175140
Stddev	.144309	.006600	.0025175	.0007041	.024963	.035304	.0005562
%RSD	2.753818	.3198626	15.80782	5.091602	.8519465	.5981177	3.175882
#1	5.400873	2.064475	.0150227	.0131126	2.931244	5.932486	.0169131
#2	5.121398	2.056515	.0187701	.0138516	2.904562	5.863638	.0180109
#3	5.198721	2.069616	.0139841	.0145201	2.954447	5.911633	.0176181

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-03DLX2 Acquired: 12/23/2024 15:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6923031	.7079578	.0893270
Stddev	.0020918	.0016220	.0032964
%RSD	.3021545	.2291157	3.690312
#1	.6901359	.7090778	.0931240
#2	.6924629	.7060977	.0871967
#3	.6943104	.7086978	.0876604

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2088.431	27109.98	2282.484	1781.842	1680.724
Stddev	2.487	176.03	4.246	7.560	3.030
%RSD	.1190735	.6492999	.1860137	.4242556	.1802908
#1	2088.981	27282.24	2282.769	1787.347	1677.414
#2	2085.715	26930.42	2286.579	1773.222	1683.361
#3	2090.597	27117.27	2278.102	1784.956	1681.398

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-04DLX2 Acquired: 12/23/2024 15:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056047	.0195158	.1100900	-.010341	.0089329	43.94582	.4122944
Stddev	.0043340	.0066155	.0010979	.003297	.0023513	.24160	.0017016
%RSD	77.32799	33.89802	.9972562	31.88735	26.32202	.5497646	.4127075
#1	.0065148	.0126569	.1103657	-.006966	.0062305	43.81222	.4114635
#2	.0094115	.0200331	.1088805	-.010502	.0100568	43.80052	.4111680
#3	.0008879	.0258575	.1110237	-.013555	.0105114	44.22471	.4142518

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067967	.0011224	655.4018	.0687353	.0588710	.0515692	45.05707
Stddev	.0001734	.0002160	3.3447	.0004517	.0004727	.0040847	.24932
%RSD	2.550703	19.24230	.5103283	.6572020	.8029381	7.920863	.5533431
#1	.0069344	.0013587	652.7483	.0692100	.0594141	.0476717	44.91770
#2	.0066021	.0010734	654.2983	.0686851	.0586474	.0512173	44.90860
#3	.0068538	.0009351	659.1588	.0683107	.0585517	.0558184	45.34491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.505404	196.6350	.0439795	.0006567	-.365704	.0665073	.2304782
Stddev	.020615	1.6000	.0004704	.0011427	.879041	.0053382	.0074408
%RSD	.5880973	.8136674	1.069475	173.9916	240.3696	8.026429	3.228442
#1	3.484544	195.3089	.0445017	-.000418	-.987938	.0618658	.2234243
#2	3.505902	196.1840	.0438477	.001857	-.749088	.0653155	.2297568
#3	3.525765	198.4120	.0435891	.000530	.639914	.0723406	.2382534

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.373692	1.016693	.1248064	.0076763	11.76877	5.798905	.0195787
Stddev	.099289	.015236	.0021019	.0004406	.10342	.038671	.0021517
%RSD	4.182888	1.498590	1.684134	5.740054	.8787759	.6668732	10.99009
#1	2.380764	1.031808	.1261477	.0081607	11.83138	5.843020	.0194654
#2	2.271056	1.016932	.1223840	.0075689	11.82552	5.770860	.0174858
#3	2.469256	1.001338	.1258875	.0072993	11.64940	5.782834	.0217847

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-04DLX2 Acquired: 12/23/2024 15:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.214214	1.246210	.0581521
Stddev	.001358	.007135	.0037340
%RSD	.1118386	.5725425	6.421159
#1	1.213143	1.242834	.0555629
#2	1.215741	1.241391	.0624325
#3	1.213757	1.254407	.0564610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2043.187	26655.92	2265.617	1745.639	1623.209
Stddev	10.082	132.94	9.300	1.352	10.561
%RSD	.4934668	.4987421	.4104796	.0774701	.6506520
#1	2033.188	26785.27	2267.795	1746.926	1612.571
#2	2043.021	26662.84	2273.635	1745.761	1623.364
#3	2053.351	26519.65	2255.422	1744.229	1633.692

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-06DLX2 Acquired: 12/23/2024 15:08:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401652	-.009007	.2632828	.0186186	.0209520	41.45703	.3964863
Stddev	.0021924	.001530	.0058293	.0039111	.0041236	.24720	.0011839
%RSD	5.458450	16.98786	2.214097	21.00621	19.68098	.5962750	.2985882
#1	.0393786	-.008404	.2687902	.0229487	.0213686	41.74132	.3977813
#2	.0426424	-.010747	.2571776	.0175646	.0166360	41.29270	.3954597
#3	.0384747	-.007870	.2638805	.0153426	.0248515	41.33707	.3962178

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046504	.0022092	547.2288	.0971208	.0827129	.1386178	97.83961
Stddev	.0001275	.0000601	2.3987	.0003451	.0002201	.0090332	.50364
%RSD	2.741855	2.722002	.4383432	.3553404	.2660506	6.516587	.5147629
#1	.0045032	.0022611	549.9700	.0970724	.0829320	.1288387	98.40458
#2	.0047241	.0022231	546.2022	.0974876	.0827147	.1403650	97.43768
#3	.0047240	.0021433	545.5143	.0968024	.0824919	.1466498	97.67659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.709253	165.6885	.1389636	.0113648	.0785736	.1320381	.3385397
Stddev	.012451	.8302	.0008425	.0005961	.3945080	.0029904	.0163770
%RSD	.4595830	.5010335	.6062715	5.244941	502.0875	2.264790	4.837528
#1	2.720426	166.6453	.1398494	.0110395	.5336311	.1354810	.3212085
#2	2.695830	165.2602	.1381723	.0120527	-.130829	.1300886	.3406534
#3	2.711504	165.1599	.1388691	.0110021	-.167082	.1305446	.3537571

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.817348	2.122965	.0297802	.0208368	9.323190	6.898028	.0334333
Stddev	.068126	.003149	.0025937	.0003083	.006563	.043728	.0014513
%RSD	1.414181	.1483254	8.709617	1.479466	.0703977	.6339171	4.340877
#1	4.741978	2.119457	.0316752	.0208507	9.316495	6.930905	.0349841
#2	4.874543	2.123894	.0268242	.0211380	9.323463	6.914778	.0332077
#3	4.835523	2.125546	.0308413	.0205219	9.329613	6.848401	.0321080

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-06DLX2 Acquired: 12/23/2024 15:08:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28S0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8446866	1.594024	.0661601
Stddev	.0081405	.006781	.0020569
%RSD	.9637362	.4253856	3.109027
#1	.8537753	1.601254	.0639605
#2	.8380650	1.593010	.0680359
#3	.8422195	1.587807	.0664839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2058.421	26867.61	2251.442	1763.581	1651.196
Stddev	5.138	91.86	16.578	10.856	3.375
%RSD	.2496226	.3418996	.7363222	.6155586	.2043974
#1	2053.588	26765.27	2235.849	1751.273	1648.040
#2	2063.818	26942.95	2249.624	1767.681	1654.754
#3	2057.857	26894.60	2268.854	1771.790	1650.795

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-17DLX5 Acquired: 12/23/2024 15:11:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567554	-.175448	1.420011	.2329077	.0952291	9.578620	.1548260
Stddev	.0069248	.004915	.002689	.0041844	.0014851	.037760	.0009056
%RSD	12.20118	2.801418	.1893781	1.796584	1.559455	.3942124	.5848874
#1	.0589673	-.169928	1.417301	.2377306	.0939924	9.621468	.1556637
#2	.0623040	-.177067	1.422678	.2302442	.0948187	9.564187	.1538652
#3	.0489948	-.179350	1.420055	.2307483	.0968762	9.550205	.1549491

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080878	.0125558	139.6329	1.252607	.0518852	.0816227	444.3348
Stddev	.0000200	.0001977	1.1053	.002557	.0004777	.0027486	2.9354
%RSD	.2469386	1.574780	.7915996	.2041744	.9207532	3.367459	.6606318
#1	.0080854	.0123993	140.9009	1.255521	.0519855	.0830949	447.6945
#2	.0081089	.0127781	139.1244	1.251564	.0523049	.0784515	443.0435
#3	.0080691	.0124901	138.8733	1.250735	.0513653	.0833215	442.2664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.76173	21.94341	.4654375	.0208030	-.145524	.2126545	4.019313
Stddev	.12542	.12392	.0012792	.0007550	.739531	.0074712	.036713
%RSD	.6346637	.5647324	.2748353	3.629131	508.1856	3.513331	.9134181
#1	19.90414	22.08163	.4650990	.0206001	-.307385	.2189590	4.053290
#2	19.71338	21.84223	.4668519	.0216388	.661532	.2044023	4.024280
#3	19.66769	21.90637	.4643617	.0201703	-.790717	.2146021	3.980369

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.038886	1.897070	-.009492	.0249231	1.213727	2.174855	.0526410
Stddev	.048650	.008894	.002002	.0006229	.004056	.005371	.0008626
%RSD	125.1118	.4688135	21.09308	2.499176	.3342054	.2469571	1.638724
#1	-.093796	1.887949	-.011718	.0242493	1.213801	2.179964	.0535327
#2	-.021701	1.905718	-.008923	.0250424	1.217746	2.175346	.0518107
#3	-.001159	1.897541	-.007837	.0254777	1.209634	2.169256	.0525797

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-17DLX5 Acquired: 12/23/2024 15:11:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9520485	-.297050	.0648387
Stddev	.0091588	.002222	.0072589
%RSD	.9620123	.7480221	11.19525
#1	.9613736	-.299615	.0729723
#2	.9430656	-.295712	.0625254
#3	.9517065	-.295823	.0590185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.270	26399.04	2152.628	1739.994	1813.680
Stddev	6.486	176.47	15.407	14.737	6.646
%RSD	.3199178	.6684631	.7157472	.8469544	.3664451
#1	2034.564	26219.97	2136.513	1728.747	1819.608
#2	2022.153	26404.37	2154.157	1734.558	1806.495
#3	2025.092	26572.79	2167.214	1756.677	1814.936

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-19DLX2 Acquired: 12/23/2024 15:15:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911012	-.212715	1.748930	.2790690	.1236056	38.66287	.5244850
Stddev	.0034162	.005470	.001466	.0077616	.0045475	.05899	.0003947
%RSD	3.749930	2.571625	.0838262	2.781239	3.679061	.1525635	.0752507
#1	.0942118	-.215482	1.747897	.2781405	.1203523	38.72653	.5248208
#2	.0874450	-.216249	1.748286	.2872530	.1216627	38.65201	.5245839
#3	.0916468	-.206414	1.750608	.2718134	.1288019	38.61007	.5240502

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126768	.0197000	340.7263	1.623918	.0818104	.1928078	545.0382
Stddev	.0001039	.0000441	.6920	.006177	.0009151	.0053633	.4695
%RSD	.8194668	.2240231	.2030895	.3804072	1.118531	2.781679	.0861345
#1	.0126663	.0196643	340.5044	1.620557	.0808207	.1917668	545.4922
#2	.0127856	.0196864	341.5020	1.631047	.0819849	.1986152	544.5547
#3	.0125786	.0197493	340.1724	1.620149	.0826257	.1880413	545.0678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.00630	55.39403	.6902394	.0242803	1.070197	.2875560	6.771159
Stddev	.04463	.14280	.0025340	.0020175	.373615	.0049934	.024847
%RSD	.2230696	.2577805	.3671207	8.309299	34.91083	1.736505	.3669584
#1	20.04883	55.45340	.6931223	.0252196	.726698	.2848057	6.798974
#2	20.01025	55.23113	.6883642	.0219644	1.467988	.2845424	6.763347
#3	19.95983	55.49756	.6892319	.0256570	1.015906	.2933199	6.751157

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.127317	3.346313	.0407908	.0370933	5.400600	5.898293	.0848035
Stddev	.096973	.012036	.0052567	.0005395	.009088	.008505	.0034370
%RSD	1.891302	.3596725	12.88695	1.454589	.1682830	.1441869	4.052929
#1	5.069425	3.339463	.0419911	.0366313	5.403878	5.889640	.0868396
#2	5.239270	3.339266	.0453435	.0369622	5.390327	5.898599	.0808353
#3	5.073256	3.360211	.0350377	.0376863	5.407594	5.906641	.0867358

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5233-19DLX2 Acquired: 12/23/2024 15:15:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.431042	.2168574	.0590920
Stddev	.005094	.0030334	.0067101
%RSD	.3559392	1.398780	11.35529
#1	1.429142	.2139412	.0569528
#2	1.436812	.2199957	.0537124
#3	1.427171	.2166351	.0666109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2045.733	26662.05	2244.333	1744.728	1750.976
Stddev	2.716	75.27	6.475	9.032	2.907
%RSD	.1327635	.2823253	.2885037	.5176551	.1660228
#1	2043.073	26632.81	2237.360	1734.328	1747.625
#2	2045.626	26605.78	2250.156	1750.609	1752.815
#3	2048.502	26747.56	2245.481	1749.245	1752.488

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-12DLX2 Acquired: 12/23/2024 15:29:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188634	-.004027	.0621240	.0110028	.0140137	32.96734	.3569716
Stddev	.0045072	.004283	.0029956	.0006734	.0024245	.14936	.0011917
%RSD	23.89380	106.3450	4.822045	6.119964	17.30069	.4530666	.3338253
#1	.0219915	.000731	.0655584	.0116305	.0147708	32.81831	.3559918
#2	.0136972	-.005238	.0600500	.0110863	.0113010	33.11704	.3582981
#3	.0209016	-.007574	.0607635	.0102916	.0159692	32.96667	.3566248

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029983	.0016549	445.7581	.0533893	.0729311	.0574128	79.49569
Stddev	.0000763	.0000442	1.6411	.0008547	.0007677	.0026989	.36547
%RSD	2.544143	2.672831	.3681628	1.600870	1.052569	4.700849	.4597363
#1	.0029269	.0016875	445.3806	.0533571	.0734490	.0551589	79.24077
#2	.0029892	.0016726	447.5550	.0525511	.0720492	.0566759	79.91441
#3	.0030787	.0016045	444.3386	.0542596	.0732952	.0604036	79.33190

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.810866	62.58761	.0856332	.0011348	-1.25217	.0703549	.1990824
Stddev	.015849	.41985	.0002530	.0011219	.65355	.0088637	.0190997
%RSD	.8752423	.6708215	.2954394	98.85935	52.19353	12.59849	9.593880
#1	1.795790	62.44009	.0856709	.0023793	-1.31027	.0715657	.1878157
#2	1.827390	63.06131	.0858651	.0002009	-.57151	.0785509	.2211352
#3	1.809420	62.26142	.0853634	.0008244	-1.87473	.0609481	.1882964

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996817	3.327001	-.001460	.0033984	.8066062	5.270851	.0163056
Stddev	.153326	.003574	.001273	.0005005	.0050569	.012923	.0003137
%RSD	7.678526	.1074213	87.15459	14.72604	.6269329	.2451791	1.923573
#1	1.941195	3.331031	-.002831	.0028619	.8026696	5.285772	.0166669
#2	1.879065	3.324215	-.000316	.0038526	.8048395	5.263555	.0161464
#3	2.170191	3.325757	-.001234	.0034807	.8123094	5.263225	.0161035

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-12DLX2 Acquired: 12/23/2024 15:29:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK75 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5153909	.2768400	.0761942
Stddev	.0064741	.0009085	.0033084
%RSD	1.256154	.3281815	4.342022
#1	.5111499	.2774161	.0746604
#2	.5228429	.2773113	.0739311
#3	.5121800	.2757927	.0799911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.052	26909.98	2260.721	1764.538	1680.224
Stddev	2.252	108.60	5.139	5.933	2.589
%RSD	.1086115	.4035602	.2273342	.3362214	.1540618
#1	2070.456	27032.96	2265.251	1770.445	1677.240
#2	2074.470	26869.69	2255.136	1758.580	1681.861
#3	2074.230	26827.28	2261.776	1764.588	1681.572

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-20DLX2 Acquired: 12/23/2024 15:33:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0267489	.0094735	.1812382	.0017300	.0135034	24.79956	.1427899
Stddev	.0031958	.0009258	.0031869	.0032960	.0017096	.09950	.0005253
%RSD	11.94732	9.772530	1.758408	190.5232	12.66056	.4012008	.3678954
#1	.0304374	.0105322	.1782683	.0037626	.0149520	24.68803	.1422188
#2	.0248093	.0090721	.1808414	.0035002	.0116176	24.87921	.1432524
#3	.0249999	.0088161	.1846049	-.002073	.0139404	24.83143	.1428987

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022970	.0022401	629.2614	.0407779	.0801947	.2152272	68.91455
Stddev	.0000824	.0001476	2.4539	.0010261	.0004647	.0070688	.33670
%RSD	3.587439	6.587456	.3899581	2.516396	.5794489	3.284343	.4885813
#1	.0022589	.0022298	626.8470	.0417944	.0802358	.2233606	68.58337
#2	.0023915	.0023926	631.7529	.0397424	.0806374	.2117553	68.90375
#3	.0022405	.0020980	629.1843	.0407968	.0797108	.2105657	69.25652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.521039	83.19612	.0776823	.0011469	-.853488	.0581245	.2661666
Stddev	.029205	.67269	.0006112	.0010381	.557059	.0071449	.0179917
%RSD	.5289706	.8085555	.7868213	90.51079	65.26850	12.29250	6.759543
#1	5.492620	82.66683	.0769896	.0001421	-1.32790	.0533965	.2839543
#2	5.550970	83.95310	.0781457	.0022153	-.99246	.0663438	.2665678
#3	5.519526	82.96842	.0779116	.0010834	-.24010	.0546331	.2479778

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.939867	5.052917	.0085980	.0040785	.6813906	4.834214	.0160406
Stddev	.197113	.004868	.0012847	.0008735	.0045213	.027897	.0012388
%RSD	5.003048	.0963440	14.94141	21.41649	.6635326	.5770769	7.723049
#1	3.761318	5.049653	.0078467	.0047103	.6846222	4.829907	.0169864
#2	3.906895	5.058513	.0078660	.0044434	.6762238	4.864014	.0146383
#3	4.151387	5.050587	.0100814	.0030817	.6833256	4.808721	.0164972

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-20DLX2 Acquired: 12/23/2024 15:33:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4875103	.4468275	.0552302
Stddev	.0043246	.0027574	.0044499
%RSD	.8870759	.6170986	8.056949
#1	.4898188	.4444417	.0563611
#2	.4825213	.4498463	.0503240
#3	.4901908	.4461944	.0590055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2136.853	27872.23	2348.170	1828.121	1653.077
Stddev	6.381	35.59	14.523	3.807	1.995
%RSD	.2986205	.1276843	.6184620	.2082474	.1206765
#1	2130.102	27893.22	2358.502	1832.273	1651.388
#2	2142.786	27831.13	2331.566	1827.298	1655.278
#3	2137.670	27892.32	2354.443	1824.793	1652.565

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-01DLX2 Acquired: 12/23/2024 15:37:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163755	.0226201	.4181767	-.006794	.0060534	16.36175	.2403742
Stddev	.0030667	.0038375	.0015784	.002093	.0043102	.02843	.0021464
%RSD	18.72738	16.96490	.3774384	30.80842	71.20254	.1737635	.8929566
#1	.0190132	.0268771	.4179704	-.007395	.0093765	16.37380	.2381453
#2	.0130105	.0215569	.4198481	-.008521	.0011832	16.32927	.2405498
#3	.0171027	.0194263	.4167117	-.004466	.0076005	16.38216	.2424274

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018859	.0022983	595.1550	.0353136	.0620658	.0708749	50.60425
Stddev	.0001097	.0000814	.6956	.0015574	.0004708	.0066744	.05483
%RSD	5.817574	3.540576	.1168833	4.410080	.7585565	9.417151	.1083409
#1	.0017652	.0023370	595.5423	.0360766	.0616329	.0672553	50.57857
#2	.0019797	.0023531	594.3519	.0363423	.0625670	.0785772	50.56697
#3	.0019128	.0022048	595.5708	.0335218	.0619976	.0667922	50.66720

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.021823	285.0778	.0436538	.0024640	-.936904	.0501545	.4580016
Stddev	.010651	.3151	.0001932	.0002753	.028913	.0047297	.0038952
%RSD	.2648198	.1105363	.4425496	11.17167	3.086019	9.430159	.8504668
#1	4.015845	285.3390	.0436047	.0027800	-.968545	.0552391	.4538488
#2	4.034120	284.7278	.0438668	.0023355	-.911858	.0458861	.4585820
#3	4.015504	285.1665	.0434898	.0022764	-.930308	.0493383	.4615740

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.058842	3.106323	.0436722	.0039673	11.85081	3.745284	.0188528
Stddev	.047472	.010924	.0011926	.0002920	.01824	.027397	.0017354
%RSD	1.169599	.3516758	2.730847	7.359130	.1539159	.7315040	9.205272
#1	4.031274	3.116022	.0424835	.0042243	11.84078	3.776916	.0182137
#2	4.031595	3.108459	.0448687	.0036499	11.87187	3.729049	.0175276
#3	4.113658	3.094489	.0436642	.0040278	11.83979	3.729887	.0208172

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-01DLX2 Acquired: 12/23/2024 15:37:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK34 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2234811	.2971427	.0277512
Stddev	.0024395	.0017897	.0009298
%RSD	1.091594	.6022985	3.350512
#1	.2241748	.2989757	.0276582
#2	.2207698	.2970526	.0268714
#3	.2254985	.2953997	.0287241

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1996.187	26142.28	2201.655	1700.952	1612.197
Stddev	5.326	254.44	19.497	14.569	6.505
%RSD	.2668310	.9733037	.8855615	.8565311	.4034971
#1	2001.350	25986.82	2180.076	1689.490	1618.961
#2	1990.711	26004.10	2206.883	1696.018	1605.985
#3	1996.499	26435.92	2218.004	1717.347	1611.646

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-02DLX2 Acquired: 12/23/2024 15:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0468603	.0009497	.8856487	-.000983	.0150330	29.26238	.5068133
Stddev	.0008729	.0036231	.0025963	.002847	.0030816	.28448	.0052301
%RSD	1.862684	381.5199	.2931467	289.6401	20.49906	.9721581	1.031953
#1	.0478564	-.002907	.8870849	-.002358	.0122802	28.95443	.5014601
#2	.0464955	.001473	.8872096	.002290	.0144566	29.51536	.5119109
#3	.0462290	.004283	.8826517	-.002881	.0183621	29.31735	.5070690

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031350	.0042886	576.3378	.0556746	.0758277	.1380335	77.07323
Stddev	.0001570	.0000899	4.7398	.0002874	.0003059	.0149074	.87395
%RSD	5.007600	2.096609	.8223995	.5161239	.4034302	10.79988	1.133927
#1	.0029582	.0043710	570.9930	.0560056	.0755475	.1232225	76.19925
#2	.0032581	.0043022	580.0302	.0554893	.0757816	.1530356	77.94716
#3	.0031887	.0041927	577.9902	.0555290	.0761541	.1378423	77.07328

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.110212	244.1238	.0746664	.0039481	-.305440	.0758214	.8351000
Stddev	.065317	2.3215	.0004474	.0006443	.650099	.0074776	.0212498
%RSD	1.068987	.9509685	.5991563	16.31944	212.8406	9.862073	2.544585
#1	6.045155	241.6793	.0743841	.0040254	-.943778	.0813815	.8345621
#2	6.175787	246.2988	.0744329	.0045503	-.328355	.0673205	.8566136
#3	6.109694	244.3932	.0751822	.0032687	.355815	.0787622	.8141242

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.363118	3.430597	.0299642	.0088773	7.825870	4.741508	.0334921
Stddev	.141086	.006014	.0034771	.0001646	.012887	.007060	.0043907
%RSD	3.233604	.1753025	11.60415	1.853813	.1646759	.1489076	13.10964
#1	4.234551	3.435233	.0259553	.0090638	7.828313	4.736328	.0334683
#2	4.340753	3.432757	.0321608	.0087525	7.837361	4.749550	.0291134
#3	4.514051	3.423802	.0317765	.0088157	7.811936	4.738646	.0378947

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-02DLX2 Acquired: 12/23/2024 15:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK35 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3528922	.3129170	.0477139
Stddev	.0058608	.0020658	.0017898
%RSD	1.660789	.6601824	3.751057
#1	.3461768	.3105422	.0494755
#2	.3569759	.3139096	.0458972
#3	.3555238	.3142992	.0477692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2049.530	26903.08	2252.208	1761.060	1619.822
Stddev	4.764	76.72	9.873	.659	3.715
%RSD	.2324620	.2851669	.4383497	.0374128	.2293766
#1	2054.385	26989.81	2262.507	1761.742	1623.909
#2	2049.344	26875.36	2242.826	1760.428	1616.647
#3	2044.862	26844.07	2251.290	1761.009	1618.912

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-21DLX2 Acquired: 12/23/2024 15:45:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJZ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0310893	.0126268	.1105465	-.001562	.0086559	21.36778	.3013883
Stddev	.0023501	.0024541	.0023861	.000658	.0032944	.18578	.0031276
%RSD	7.559181	19.43602	2.158446	42.13528	38.06002	.8694422	1.037745
#1	.0327213	.0104881	.1130234	-.002203	.0121556	21.37010	.3018086
#2	.0283957	.0120859	.1082630	-.000887	.0081972	21.18085	.2980717
#3	.0321509	.0153062	.1103532	-.001597	.0056148	21.55239	.3042845

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023535	.0012433	705.2887	.0366832	.0751149	.1029151	62.69448
Stddev	.0000265	.0001656	6.7271	.0007661	.0005477	.0082124	.57114
%RSD	1.126138	13.31689	.9538131	2.088346	.7291705	7.979751	.9109966
#1	.0023838	.0013846	705.4105	.0369968	.0757319	.0946580	62.96031
#2	.0023424	.0010611	698.5014	.0372427	.0749267	.1030053	62.03887
#3	.0023344	.0012842	711.9541	.0358101	.0746861	.1110820	63.08426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.183012	92.43127	.0532260	.0042685	-1.03467	.0574682	.2689804
Stddev	.067017	1.05816	.0003406	.0005343	.39304	.0052067	.0135159
%RSD	1.083887	1.144808	.6399547	12.51823	37.98642	9.060220	5.024860
#1	6.187272	92.67607	.0536191	.0048106	-.99210	.0604376	.2539500
#2	6.113967	91.27217	.0530198	.0042528	-.66466	.0514561	.2728561
#3	6.247798	93.34558	.0530390	.0037422	-1.44726	.0605108	.2801350

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.395309	3.541662	.0253063	.0039375	2.426365	5.491851	.0163962
Stddev	.026654	.006051	.0010752	.0002398	.012521	.057148	.0018291
%RSD	.6064168	.1708521	4.248641	6.090600	.5160221	1.040600	11.15559
#1	4.366551	3.538583	.0240851	.0036610	2.430326	5.534987	.0180429
#2	4.419183	3.548633	.0257232	.0040893	2.412343	5.427035	.0167182
#3	4.400193	3.537770	.0261106	.0040621	2.436426	5.513530	.0144275

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-21DLX2 Acquired: 12/23/2024 15:45:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJZ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3423601	.5687549	.0446350
Stddev	.0031724	.0043384	.0028208
%RSD	.9266406	.7627919	6.319644
#1	.3428046	.5677076	.0475171
#2	.3389888	.5650360	.0418798
#3	.3452868	.5735211	.0445080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2102.691	27479.27	2293.514	1790.876	1644.412
Stddev	1.176	167.77	22.062	10.262	2.893
%RSD	.0559499	.6105182	.9619311	.5730008	.1759165
#1	2103.208	27286.61	2276.678	1780.986	1646.584
#2	2103.520	27593.08	2318.489	1801.473	1641.128
#3	2101.344	27558.13	2285.374	1790.167	1645.523

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4984-08DLX5 Acquired: 12/23/2024 15:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004934	.0231649	.0946688	-.025313	.0026818	3.392508	.0334925
Stddev	.004728	.0040558	.0007924	.001597	.0016974	.036293	.0004745
%RSD	95.83581	17.50856	.8369832	6.310103	63.29431	1.069789	1.416592
#1	-.007796	.0266570	.0943428	-.023471	.0009908	3.379910	.0329918
#2	.000524	.0241213	.0955722	-.026322	.0043856	3.433422	.0335500
#3	-.007530	.0187163	.0940914	-.026145	.0026688	3.364194	.0339355

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005715	.0017217	351.3308	.0110466	.0415777	.0158378	19.94774
Stddev	.0000794	.0000971	1.0137	.0001583	.0008655	.0029046	.04502
%RSD	13.88542	5.637897	.2885245	1.433396	2.081647	18.33981	.2256688
#1	.0005368	.0017737	350.4365	.0111633	.0410641	.0191918	19.99912
#2	.0006623	.0016097	352.4319	.0111102	.0410920	.0141434	19.92882
#3	.0005154	.0017817	351.1239	.0108663	.0425769	.0141784	19.91527

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.139994	201.9476	.0144007	-.000318	-1.07556	.0170438	.3597119
Stddev	.006967	.8276	.0004961	.001266	.74918	.0070971	.0187595
%RSD	.3255789	.4098286	3.444652	398.4051	69.65513	41.64012	5.215141
#1	2.136269	202.2441	.0141631	-.000461	-.98607	.0208170	.3382365
#2	2.148032	202.5861	.0149709	.001014	-1.86546	.0088572	.3679951
#3	2.135681	201.0125	.0140681	-.001505	-.37514	.0214573	.3729040

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.110425	.5803411	.0170862	.0032693	3.737683	1.639552	.0067370
Stddev	.145241	.0062533	.0006441	.0003656	.032497	.009381	.0017241
%RSD	13.07973	1.077522	3.769684	11.18366	.8694382	.5721584	25.59164
#1	.957261	.5732729	.0169329	.0036190	3.705625	1.630879	.0047546
#2	1.127844	.5851536	.0177931	.0028896	3.736822	1.649509	.0078865
#3	1.246172	.5825967	.0165325	.0032994	3.770602	1.638269	.0075700

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4984-08DLX5 Acquired: 12/23/2024 15:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJT5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0393104	.0940777	.0112296
Stddev	.0019203	.0004765	.0017569
%RSD	4.884967	.5064540	15.64483
#1	.0373880	.0935322	.0114577
#2	.0412286	.0944124	.0093699
#3	.0393147	.0942885	.0128614

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.657	25740.75	2136.820	1682.692	1663.240
Stddev	15.363	87.30	19.484	9.842	12.681
%RSD	.7827578	.3391393	.9118135	.5849181	.7624233
#1	1979.414	25664.88	2149.641	1674.893	1677.624
#2	1949.238	25721.21	2114.399	1679.432	1653.676
#3	1959.317	25836.16	2146.420	1693.751	1658.421

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4983-20DLX5 Acquired: 12/23/2024 15:53:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005135	.0312685	.0422828	-.030817	.0014044	4.067683	.0481763
Stddev	.001956	.0046109	.0007382	.002536	.0042751	.013986	.0023402
%RSD	38.08330	14.74631	1.745814	8.228557	304.4156	.3438391	4.857589
#1	-.004524	.0259926	.0422413	-.030477	.0063251	4.083668	.0490037
#2	-.007323	.0332862	.0430409	-.033506	-.001397	4.061684	.0455347
#3	-.003558	.0345266	.0415663	-.028469	-.000715	4.057698	.0499903

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004490	.0006282	654.1922	.0078547	.0485784	.0321812	15.58177
Stddev	.0001616	.0000550	.9367	.0003466	.0001804	.0025583	.05397
%RSD	35.99084	8.749609	.1431807	4.412664	.3714398	7.949646	.3463869
#1	.0003949	.0006462	655.2725	.0074716	.0487620	.0297716	15.63890
#2	.0006307	.0005665	653.6069	.0079459	.0484013	.0348659	15.53164
#3	.0003214	.0006720	653.6971	.0081465	.0485718	.0319061	15.57475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.952326	43.51719	.0131892	-.000461	-.965114	.0119867	.1031453
Stddev	.007419	.08663	.0002793	.000777	.577729	.0062541	.0013329
%RSD	.2512962	.1990813	2.117350	168.4451	59.86125	52.17527	1.292225
#1	2.949557	43.54618	.0128709	-.001065	-.970746	.0056472	.1036453
#2	2.946690	43.41977	.0133931	-.000733	-1.54001	.0121611	.1041558
#3	2.960731	43.58561	.0133035	.000415	-.38459	.0181518	.1016347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3624774	.6679291	.0076609	.0025518	.8024161	1.898233	.0084816
Stddev	.0244771	.0036219	.0017353	.0003469	.0008384	.012595	.0005433
%RSD	6.752715	.5422535	22.65145	13.59217	.1044900	.6635205	6.405015
#1	.3883974	.6702652	.0067384	.0029081	.8018462	1.912684	.0087176
#2	.3397583	.6697652	.0096626	.0025322	.8033788	1.892429	.0078603
#3	.3592763	.6637569	.0065817	.0022152	.8020232	1.889587	.0088670

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4983-20DLX5 Acquired: 12/23/2024 15:53:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJH0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0495131	.4773864	.0099081
Stddev	.0053356	.0013887	.0042008
%RSD	10.77609	.2908990	42.39708
#1	.0483483	.4786581	.0141706
#2	.0448562	.4759046	.0097820
#3	.0553349	.4775966	.0057719

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1968.607	25749.77	2140.505	1675.822	1658.423
Stddev	3.393	74.80	14.102	9.853	.776
%RSD	.1723413	.2904823	.6588053	.5879222	.0467787
#1	1964.733	25727.50	2124.432	1686.148	1657.541
#2	1970.040	25688.63	2146.287	1666.524	1659.001
#3	1971.048	25833.17	2150.798	1674.794	1658.727

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 12/23/2024 15:57:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.061502	4.899265	24.97157	4.987082	4.940864	405.5304	10.23573
Stddev	.025083	.024881	.17605	.038422	.029250	3.4500	.06766
%RSD	.4955560	.5078509	.7049918	.7704388	.5919927	.8507463	.6610630
#1	5.039703	4.870760	24.76846	4.943029	4.907875	401.5573	10.15768
#2	5.055888	4.910412	25.06577	5.004554	4.951086	407.7693	10.27792
#3	5.088916	4.916624	25.08047	5.013664	4.963630	407.2646	10.27158

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5105178	2.502524	410.2599	15.60108	2.510902	15.25956	416.1910
Stddev	.0041844	.015879	2.5778	.00562	.017865	.10823	3.0072
%RSD	.8196326	.6345308	.6283296	.0360546	.7114905	.7092520	.7225453
#1	.5070475	2.484230	407.2911	15.60163	2.490338	15.13483	412.7187
#2	.5151644	2.510604	411.5580	15.60642	2.522595	15.31529	417.9389
#3	.5093416	2.512738	411.9306	15.59521	2.519773	15.32857	417.9155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19655	411.6973	2.537109	1.305591	412.0913	2.559870	15.31654
Stddev	.12310	3.3915	.014989	.003268	.6536	.033993	.13515
%RSD	.8100589	.8237775	.5907773	.2503405	.1586165	1.327930	.8823784
#1	15.05810	407.9145	2.519810	1.303786	411.3460	2.521181	15.20609
#2	15.29366	414.4661	2.545285	1.309364	412.3602	2.573476	15.27627
#3	15.23789	412.7113	2.546232	1.303623	412.5675	2.584952	15.46724

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.7266	5.046465	4.888562	4.927000	5.010294	4.813658	5.051284
Stddev	1.4771	.041757	.051462	.032940	.041263	.046623	.030427
%RSD	.9608886	.8274552	1.052708	.6685578	.8235653	.9685543	.6023690
#1	152.0270	4.998291	4.836405	4.889950	4.962658	4.775421	5.016192
#2	154.7008	5.068784	4.939300	4.938076	5.033237	4.865597	5.067323
#3	154.4520	5.072320	4.889981	4.952975	5.034987	4.799957	5.070336

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 12/23/2024 15:57:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.019106	4.788957	5.134688
Stddev	.032055	.031375	.034863
%RSD	.6386611	.6551428	.6789654
#1	4.982170	4.752747	5.094432
#2	5.039661	4.808063	5.154604
#3	5.035487	4.806061	5.155026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1764.042	24166.14	2093.303	1511.083	1541.178
Stddev	8.956	100.61	9.815	5.816	8.250
%RSD	.5076974	.4163227	.4688556	.3848831	.5353081
#1	1774.342	24128.66	2103.215	1515.747	1550.538
#2	1759.696	24280.11	2083.589	1512.934	1534.962
#3	1758.088	24089.65	2093.103	1504.566	1538.035

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 12/23/2024 16:10:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005214	-.002804	-.001236	.0060497	-.000822	.0317602
Stddev	.000649	.001197	.001660	.0022278	.002024	.0167543
%RSD	12.44632	42.67198	134.3278	36.82538	246.0323	52.75258
#1	-.005498	-.002068	.000368	.0036139	-.003046	.0399975
#2	-.005672	-.004185	-.002947	.0065510	.000911	.0124818
#3	-.004471	-.002160	-.001128	.0079841	-.000332	.0428013

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001339	.0001989	.0001321	.0178254	-.001020	.0001203
Stddev	.000135	.0001218	.0000411	.0113203	.001149	.0000819
%RSD	10.08905	61.22026	31.11125	63.50642	112.6440	68.06381
#1	-.001352	.0001129	.0000973	.0198928	-.000381	.0002012
#2	-.001467	.0003382	.0001775	.0279695	-.000333	.0000375
#3	-.001198	.0001456	.0001217	.0056139	-.002346	.0001222

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002941	.0262826	.0022393	.0647686	.0006934	.0007293
Stddev	.008780	.0646474	.0011820	.0359613	.0005680	.0005379
%RSD	298.4879	245.9700	52.78194	55.52276	81.92185	73.75392
#1	-.009071	-.008160	.0016978	.1055329	.0012498	.0006121
#2	-.006870	-.013851	.0035950	.0375365	.0001144	.0002597
#3	.007117	.100859	.0014252	.0512364	.0007158	.0013162

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.861025	.0024722	.0035927	-.095416	-.000577	-.003280
Stddev	.870854	.0098272	.0103203	.132710	.002718	.003127
%RSD	101.1416	397.5135	287.2564	139.0853	471.1086	95.35714
#1	-1.18358	-.004513	.0123356	-.016407	-.001425	-.006045
#2	-1.52458	.013709	-.007792	-.248632	.002464	.000114
#3	.12509	-.001780	.006234	-.021210	-.002770	-.003908

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 12/23/2024 16:10:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006665	-.006644	-.075099	.0002908	-.002364	.0002221
Stddev	.0002604	.007360	.000301	.0002049	.000720	.0001038
%RSD	39.07541	110.7791	.4013442	70.45988	30.47799	46.70800
#1	.0009448	-.000775	-.074779	.0003066	-.003074	.0002659
#2	.0006260	-.004255	-.075377	.0004873	-.001633	.0002968
#3	.0004287	-.014902	-.075142	.0000784	-.002384	.0001037

Elem	Li6707
Units	ppm
Avg	F .0150740
Stddev	.0008735
%RSD	5.794380
#1	.0142623
#2	.0159982
#3	.0149616

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.530	26477.48	2132.566	1743.862	1837.385
Stddev	.217	130.99	7.592	9.920	2.984
%RSD	.0106911	.4947061	.3559882	.5688783	.1624095
#1	2028.639	26485.50	2137.420	1748.676	1839.874
#2	2028.670	26604.27	2136.461	1750.456	1834.077
#3	2028.280	26342.66	2123.818	1732.453	1838.203

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07DLX2 Acquired: 12/23/2024 16:14:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0284620	.0042006	.0996210	.0027436	.0136285	21.85918	.3232399
Stddev	.0032811	.0045708	.0009909	.0028909	.0021512	.07911	.0018717
%RSD	11.52788	108.8145	.9946495	105.3656	15.78443	.3619152	.5790460
#1	.0267303	.0012868	.0984968	-.000324	.0125104	21.82864	.3253638
#2	.0322461	.0018463	.1003675	.005417	.0122667	21.94901	.3225247
#3	.0264095	.0094686	.0999987	.003138	.0161085	21.79990	.3218313

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024458	.0016976	483.1678	.0355096	.0699030	.1456843	71.01772
Stddev	.0001159	.0001744	.9245	.0013996	.0001786	.0063226	.26476
%RSD	4.739154	10.27115	.1913429	3.941324	.2554999	4.339944	.3728110
#1	.0025612	.0015150	483.1808	.0338990	.0701004	.1444618	70.71270
#2	.0024468	.0018624	484.0858	.0364301	.0698560	.1525290	71.15237
#3	.0023294	.0017154	482.2369	.0361995	.0697525	.1400623	71.18810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.139241	99.98588	.0585420	.0027369	-.749720	.0623934	.2163983
Stddev	.018898	.67862	.0007635	.0009630	.457078	.0028459	.0048901
%RSD	.4565454	.6787192	1.304238	35.18416	60.96654	4.561162	2.259782
#1	4.120033	99.23654	.0588113	.0016635	-.227953	.0614649	.2111857
#2	4.157812	100.5590	.0576803	.0035248	-.941756	.0601277	.2208848
#3	4.139880	100.1621	.0591343	.0030225	-1.07945	.0655875	.2171242

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.359786	3.831682	.0147508	.0035776	1.002381	5.361440	.0151970
Stddev	.147253	.010958	.0019807	.0001464	.002208	.032980	.0007239
%RSD	4.382805	.2859720	13.42803	4.091326	.2202551	.6151312	4.763717
#1	3.289083	3.825213	.0146076	.0034399	1.004108	5.396509	.0143709
#2	3.261218	3.825500	.0167992	.0035615	1.003143	5.356764	.0157210
#3	3.529056	3.844334	.0128455	.0037313	.999894	5.331048	.0154990

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07DLX2 Acquired: 12/23/2024 16:14:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6829972	.3930667	.0453415
Stddev	.0122013	.0012200	.0012268
%RSD	1.786432	.3103769	2.705622
#1	.6964332	.3939612	.0445812
#2	.6799500	.3935619	.0446866
#3	.6726082	.3916770	.0467568

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2192.107	28755.36	2398.793	1879.894	1708.314
Stddev	5.398	154.95	14.867	13.991	2.768
%RSD	.2462604	.5388610	.6197791	.7442360	.1620279
#1	2185.881	28907.79	2382.080	1885.638	1705.120
#2	2194.965	28598.01	2403.754	1863.946	1709.810
#3	2195.476	28760.27	2410.545	1890.100	1710.012

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-08DLX2 Acquired: 12/23/2024 16:18:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0322509	.0032954	.0987396	.0042298	.0113530	22.16409	.3282991
Stddev	.0039795	.0005150	.0019602	.0011560	.0056097	.07545	.0022535
%RSD	12.33915	15.62672	1.985242	27.32997	49.41141	.3404272	.6864026
#1	.0361771	.0029609	.1008625	.0052661	.0177827	22.24067	.3290748
#2	.0323554	.0030369	.0969981	.0044402	.0074580	22.08982	.3257603
#3	.0282202	.0038884	.0983581	.0029830	.0088182	22.16178	.3300623

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024883	.0016442	489.7892	.0357826	.0719836	.1391883	72.15277
Stddev	.0000878	.0000448	2.6685	.0001703	.0001441	.0012188	.32644
%RSD	3.528450	2.727889	.5448302	.4759151	.2002016	.8756616	.4524299
#1	.0025541	.0015940	492.4362	.0358272	.0718189	.1403478	72.41282
#2	.0025222	.0016585	489.8319	.0355944	.0720865	.1379178	72.25906
#3	.0023886	.0016802	487.0997	.0359261	.0720455	.1392994	71.78643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.209847	101.8578	.0592873	.0023248	-1.00241	.0589461	.2349280
Stddev	.024214	.5308	.0010220	.0000955	.66207	.0047271	.0097593
%RSD	.5751832	.5211129	1.723880	4.107497	66.04764	8.019303	4.154175
#1	4.234407	102.1663	.0581301	.0022278	-.42257	.0595786	.2298732
#2	4.209140	102.1621	.0596652	.0023279	-1.72381	.0539345	.2461779
#3	4.185994	101.2449	.0600666	.0024187	-.86085	.0633250	.2287329

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.477463	3.913771	.0165987	.0030531	1.018662	5.405328	.0138068
Stddev	.076988	.009243	.0051727	.0001513	.001300	.077188	.0009397
%RSD	2.213916	.2361590	31.16307	4.955342	.1276240	1.427992	6.806020
#1	3.564185	3.904536	.0222112	.0031951	1.019942	5.475551	.0127929
#2	3.417172	3.913754	.0120230	.0030702	1.017343	5.417750	.0146485
#3	3.451033	3.923021	.0155618	.0028940	1.018700	5.322683	.0139791

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-08DLX2 Acquired: 12/23/2024 16:18:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6849268	.3979761	.0466362
Stddev	.0050469	.0031962	.0051408
%RSD	.7368470	.8031038	11.02320
#1	.6903775	.4011389	.0437016
#2	.6804159	.3980418	.0525722
#3	.6839868	.3947476	.0436349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2153.610	28312.61	2366.731	1849.690	1673.916
Stddev	2.788	37.12	26.451	7.457	4.996
%RSD	.1294769	.1311100	1.117617	.4031278	.2984446
#1	2156.439	28305.24	2343.241	1845.258	1678.289
#2	2153.528	28352.87	2361.570	1845.512	1674.988
#3	2150.864	28279.74	2395.382	1858.298	1668.472

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07LDLX10 Acquired: 12/23/2024 16:21:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004573	.0179097	.0252990	-.016129	.0039052	4.776188	.0681277
Stddev	.001619	.0025234	.0013827	.008844	.0040828	.026250	.0009337
%RSD	35.39457	14.08935	5.465549	54.83611	104.5483	.5495998	1.370456
#1	-.005110	.0168246	.0252149	-.026313	-.000377	4.793808	.0686612
#2	-.002754	.0207942	.0267219	-.010374	.007754	4.788736	.0686723
#3	-.005855	.0161105	.0239603	-.011700	.004339	4.746019	.0670497

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006242	.0002591	106.6016	.0068141	.0343526	.0281447	15.86352
Stddev	.0000364	.0000425	.1591	.0010690	.0007435	.0062553	.04184
%RSD	5.832975	16.40513	.1492680	15.68763	2.164409	22.22554	.2637357
#1	.0006228	.0002247	106.6146	.0076523	.0347173	.0267725	15.81607
#2	.0005885	.0003066	106.7538	.0071797	.0334971	.0226894	15.87939
#3	.0006613	.0002460	106.4364	.0056103	.0348434	.0349722	15.89509

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9265396	22.46782	.0108530	.0006561	-.688947	.0203117	.0530476
Stddev	.0032421	.10227	.0003861	.0000811	.638038	.0082817	.0103898
%RSD	.3499129	.4551669	3.557661	12.36155	92.61071	40.77319	19.58578
#1	.9300144	22.49289	.0111235	.0006987	-.155771	.0167402	.0413562
#2	.9235958	22.35535	.0104108	.0005626	-1.39586	.0297798	.0565627
#3	.9260085	22.55523	.0110248	.0007070	-.51521	.0144149	.0612238

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4238861	.7438014	.0012507	.0029254	.2082101	1.164588	.0038115
Stddev	.1304924	.0063761	.0025047	.0003506	.0062002	.008381	.0010104
%RSD	30.78478	.8572343	200.2649	11.98416	2.977875	.7196949	26.50891
#1	.5715776	.7495537	-.000349	.0028873	.2153603	1.168807	.0048478
#2	.3241814	.7369455	-.000036	.0032935	.2049499	1.154935	.0037575
#3	.3758992	.7449050	.004137	.0025954	.2043201	1.170022	.0028292

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07LDLX10 Acquired: 12/23/2024 16:21:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1483325	.0853950	.0103239
Stddev	.0023435	.0003033	.0008943
%RSD	1.579894	.3551279	8.662536
#1	.1478736	.0852697	.0106461
#2	.1462523	.0857409	.0093132
#3	.1508714	.0851745	.0110125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.812	27157.06	2215.861	1786.295	1802.150
Stddev	10.540	89.32	19.023	11.650	10.237
%RSD	.5082320	.3289183	.8584879	.6521821	.5680468
#1	2062.012	27054.34	2197.276	1773.059	1790.329
#2	2077.135	27216.48	2235.293	1794.991	1808.001
#3	2082.290	27200.36	2215.014	1790.836	1808.119

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-09DLX2 Acquired: 12/23/2024 16:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0727572	.0452282	.1141201	.0818997	.0931026	24.03185	2.093733
Stddev	.0040285	.0021335	.0011500	.0008133	.0000691	.20683	.014432
%RSD	5.536859	4.717241	1.007690	.9930847	.0742333	.8606459	.6892751
#1	.0771322	.0445936	.1131005	.0828387	.0931304	23.81025	2.078684
#2	.0719382	.0434840	.1138931	.0814456	.0930239	24.21978	2.107455
#3	.0692011	.0476070	.1153666	.0814148	.0931536	24.06552	2.095059

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474865	.0496811	482.3594	.2221336	.5399411	.3560184	71.87935
Stddev	.0002444	.0001172	2.5379	.0006354	.0015479	.0022996	.41629
%RSD	.5146223	.2358532	.5261485	.2860471	.2866761	.6459317	.5791570
#1	.0474711	.0495994	479.4732	.2225004	.5415352	.3533637	71.40685
#2	.0477382	.0496285	484.2421	.2225004	.5384440	.3573980	72.19214
#3	.0472502	.0498153	483.3631	.2213999	.5398442	.3572936	72.03905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.582487	100.3670	.5438631	.0345403	-.739294	.5134417	.6437337
Stddev	.036691	.9641	.0011036	.0002689	.513837	.0173974	.0060992
%RSD	.8006828	.9605324	.2029106	.7786395	69.50378	3.388383	.9474771
#1	4.540522	99.3078	.5444361	.0347565	-.382079	.5000446	.6493063
#2	4.608510	101.1933	.5425909	.0342391	-.507625	.5071766	.6372178
#3	4.598430	100.5998	.5445623	.0346253	-1.32818	.5331039	.6446770

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.483210	3.855071	.0151044	.0028704	1.000903	5.771222	.0138711
Stddev	.107777	.009648	.0024996	.0003366	.005204	.029261	.0014169
%RSD	3.094178	.2502562	16.54889	11.72561	.5199042	.5070157	10.21498
#1	3.551845	3.860322	.0139516	.0025000	1.004349	5.778979	.0130204
#2	3.538796	3.860954	.0133892	.0029539	1.003442	5.795822	.0130862
#3	3.358988	3.843937	.0179724	.0031574	.994917	5.738864	.0155068

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-09DLX2 Acquired: 12/23/2024 16:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7021624	.3907131	.0438329
Stddev	.0063198	.0014870	.0041187
%RSD	.9000449	.3805837	9.396418
#1	.6961035	.3890081	.0467368
#2	.7016695	.3917414	.0456427
#3	.7087142	.3913897	.0391191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2182.621	28657.01	2394.483	1870.379	1694.721
Stddev	5.619	80.31	10.743	.744	2.730
%RSD	.2574534	.2802478	.4486514	.0397674	.1611057
#1	2179.063	28638.78	2392.364	1870.975	1691.726
#2	2189.099	28587.38	2384.958	1869.545	1697.071
#3	2179.702	28744.87	2406.128	1870.616	1695.367

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-16DLX2 Acquired: 12/23/2024 16:29:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0283264	-.000631	.1108515	.0126707	.0169476	23.56466	.2942591
Stddev	.0017278	.003689	.0017858	.0033106	.0056175	.03466	.0009652
%RSD	6.099720	584.2709	1.611011	26.12820	33.14619	.1470842	.3279984
#1	.0264761	.003302	.1121109	.0096060	.0210414	23.58602	.2949029
#2	.0298978	-.001180	.1088077	.0122241	.0192580	23.58330	.2947249
#3	.0286052	-.004016	.1116358	.0161819	.0105433	23.52467	.2931493

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030781	.0013843	526.5025	.0390683	.0709183	.0911562	87.63542
Stddev	.0000889	.0000505	1.6423	.0007268	.0008461	.0021142	.10983
%RSD	2.887070	3.644818	.3119313	1.860366	1.193010	2.319341	.1253278
#1	.0030684	.0014226	528.3204	.0382560	.0718156	.0900675	87.74169
#2	.0029945	.0014032	526.0610	.0396571	.0701351	.0935929	87.64223
#3	.0031715	.0013271	525.1260	.0392917	.0708043	.0898081	87.52235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.697793	238.2402	.0577228	.0035725	-.589211	.0836824	.3433279
Stddev	.007218	.6465	.0009597	.0002206	.630902	.0093237	.0028883
%RSD	.1952072	.2713588	1.662526	6.175934	107.0757	11.14182	.8412714
#1	3.705893	238.9607	.0579875	.0038260	-1.12375	.0809385	.3400202
#2	3.692043	237.7111	.0585222	.0034240	-.75058	.0940702	.3446123
#3	3.695442	238.0487	.0566585	.0034675	.10670	.0760385	.3453513

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.929945	3.606482	.0189812	.0040694	.9178695	5.712012	.0165653
Stddev	.071865	.006626	.0024011	.0004620	.0041557	.012182	.0018779
%RSD	2.452791	.1837298	12.64992	11.35240	.4527573	.2132687	11.33627
#1	2.951065	3.613145	.0167987	.0042222	.9150356	5.725810	.0185404
#2	2.849886	3.599893	.0215532	.0035503	.9159328	5.702746	.0163526
#3	2.988884	3.606407	.0185916	.0044355	.9226400	5.707479	.0148028

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-16DLX2 Acquired: 12/23/2024 16:29:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3363689	.1813580	.0468555
Stddev	.0004485	.0006347	.0034431
%RSD	.1333386	.3499715	7.348430
#1	.3360970	.1820842	.0429857
#2	.3368866	.1810803	.0495803
#3	.3361231	.1809094	.0480004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2158.235	28262.32	2368.034	1845.029	1678.282
Stddev	7.133	87.02	12.035	5.788	5.040
%RSD	.3304952	.3078925	.5082412	.3137182	.3003346
#1	2154.644	28239.64	2354.137	1839.762	1672.848
#2	2153.611	28188.89	2374.984	1844.098	1679.191
#3	2166.450	28358.43	2374.981	1851.226	1682.805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-01DLX4 Acquired: 12/23/2024 16:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2612144	-.133731	.1278111	.1853724	.0626960	54.39113	.8458765
Stddev	.0039434	.003118	.0007845	.0024162	.0035519	.27432	.0060197
%RSD	1.509657	2.331243	.6138101	1.303444	5.665233	.5043386	.7116486
#1	.2583783	-.135208	.1279584	.1863195	.0585984	54.63645	.8520120
#2	.2657176	-.135835	.1269634	.1826261	.0648960	54.44201	.8456377
#3	.2595473	-.130149	.1285115	.1871716	.0645937	54.09494	.8399798

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059447	.0024989	22.52062	.1335551	.1196720	.1832151	319.8103
Stddev	.0000824	.0001314	.07477	.0008170	.0008795	.0033892	1.1317
%RSD	1.386105	5.259915	.3320069	.6117063	.7349168	1.849848	.3538712
#1	.0060358	.0024089	22.59433	.1328456	.1190639	.1793320	320.9031
#2	.0058753	.0024381	22.52270	.1344483	.1192716	.1847346	319.8846
#3	.0059228	.0026498	22.44483	.1333714	.1206804	.1855786	318.6433

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.60374	33.80252	.1202556	.0118167	-.878976	.3559816	.3436356
Stddev	.08162	.14295	.0008965	.0007034	.528021	.0083500	.0054810
%RSD	.4636311	.4228996	.7454727	5.952364	60.07226	2.345639	1.594999
#1	17.69316	33.91086	.1195824	.0124660	-1.20523	.3636090	.3384452
#2	17.58479	33.64050	.1212732	.0110695	-.26978	.3572757	.3430947
#3	17.53326	33.85619	.1199112	.0119146	-1.16192	.3470600	.3493670

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.074464	2.595960	-.052552	-.000069	.2021095	2.538028	.0257577
Stddev	.175401	.005530	.002621	.000161	.0060684	.020082	.0018118
%RSD	2.172299	.2130407	4.988322	232.2024	3.002509	.7912306	7.033988
#1	8.275386	2.590592	-.055256	-.000244	.1951457	2.550899	.0237858
#2	7.996109	2.595649	-.050022	.000073	.2049177	2.548297	.0261386
#3	7.951899	2.601639	-.052376	-.000037	.2062651	2.514888	.0273489

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-01DLX4 Acquired: 12/23/2024 16:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYW9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5620164	-.184522	.0534683
Stddev	.0052233	.000599	.0021718
%RSD	.9293853	.3244110	4.061940
#1	.5680474	-.185169	.0554426
#2	.5589442	-.184410	.0511419
#3	.5590577	-.183988	.0538202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.655	28058.93	2285.119	1854.031	1868.857
Stddev	4.354	152.40	29.200	15.109	2.196
%RSD	.2014081	.5431406	1.277850	.8149426	.1175030
#1	2156.714	27994.12	2270.230	1838.228	1866.711
#2	2163.324	27949.65	2266.363	1855.529	1871.100
#3	2164.928	28233.02	2318.763	1868.335	1868.761

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-03DLX4 Acquired: 12/23/2024 16:37:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3684136	-.130532	.1173124	.1790445	.0618933	71.36608	1.188434
Stddev	.0047431	.000610	.0010879	.0040255	.0021061	.10988	.002089
%RSD	1.287430	.4672985	.9273529	2.248310	3.402762	.1539737	.1757514
#1	.3629446	-.131129	.1176056	.1750247	.0621363	71.34457	1.190389
#2	.3708943	-.130557	.1161079	.1790331	.0638674	71.26854	1.186233
#3	.3714018	-.129910	.1182236	.1830756	.0596763	71.48513	1.188680

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056599	.0027002	20.38726	.2432190	.1502870	.3436109	306.5915
Stddev	.0000575	.0001610	.04295	.0010421	.0007687	.0066431	.2719
%RSD	1.015450	5.964134	.2106804	.4284732	.5115116	1.933331	.0886734
#1	.0056466	.0026274	20.43009	.2436303	.1494598	.3508322	306.5296
#2	.0056102	.0028847	20.38752	.2439927	.1504215	.3377595	306.3559
#3	.0057228	.0025883	20.34418	.2420340	.1509795	.3422410	306.8890

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.62396	48.67022	.1753824	.0100385	-.228645	.5403198	.2929230
Stddev	.04464	.18162	.0003311	.0004807	.258600	.0043518	.0149439
%RSD	.2532750	.3731583	.1888043	4.788089	113.1014	.8054138	5.101646
#1	17.57589	48.60261	.1750090	.0101577	-.442800	.5385234	.2924962
#2	17.63188	48.53211	.1754981	.0104483	.058647	.5371537	.3080757
#3	17.66410	48.87595	.1756403	.0095094	-.301781	.5452822	.2781970

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.301398	2.006593	-.057653	-.000151	.1804981	2.885376	.0248911
Stddev	.039398	.002834	.003515	.000214	.0038117	.020035	.0022271
%RSD	.4235742	.1412127	6.097181	141.9101	2.111744	.6943497	8.947351
#1	9.293670	2.009797	-.054366	-.000224	.1845021	2.890052	.0231984
#2	9.344088	2.005564	-.057234	-.000318	.1800789	2.863418	.0274140
#3	9.266436	2.004418	-.061359	.000090	.1769134	2.902660	.0240607

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-03DLX4 Acquired: 12/23/2024 16:37:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7105369	-.170852	.0609448
Stddev	.0079630	.000413	.0031500
%RSD	1.120705	.2417045	5.168572
#1	.7137693	-.170550	.0576394
#2	.7014659	-.171322	.0612829
#3	.7163754	-.170683	.0639121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2138.273	27681.83	2262.610	1831.689	1832.524
Stddev	1.997	94.78	14.754	6.068	2.374
%RSD	.0933754	.3423765	.6520787	.3312524	.1295531
#1	2137.686	27681.77	2255.862	1825.467	1835.265
#2	2136.635	27587.09	2279.532	1832.011	1831.169
#3	2140.497	27776.64	2252.437	1837.589	1831.137

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-04DLX5 Acquired: 12/23/2024 16:41:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1244900	-.119189	.1971117	.1736406	.0608865	27.48356	1.217853
Stddev	.0062969	.002388	.0011972	.0011248	.0030191	.10816	.005244
%RSD	5.058141	2.003443	.6073880	.6477977	4.958621	.3935620	.4305774
#1	.1175095	-.117820	.1959788	.1726645	.0587829	27.60839	1.223500
#2	.1297425	-.121946	.1969920	.1733866	.0643459	27.42495	1.216921
#3	.1262180	-.117801	.1983642	.1748707	.0595307	27.41736	1.213138

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045475	.0036008	15.46486	.0597382	.0993300	.2382965	293.4298
Stddev	.0002470	.0000547	.07642	.0007572	.0004393	.0018634	1.0742
%RSD	5.430440	1.519992	.4941673	1.267538	.4422837	.7819589	.3660870
#1	.0046783	.0035439	15.55310	.0605962	.0988396	.2362218	294.0715
#2	.0042627	.0036056	15.41979	.0594549	.0996877	.2388401	294.0282
#3	.0047015	.0036530	15.42169	.0591636	.0994626	.2398277	292.1897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.63119	16.94451	.0714074	.0433326	-.376543	.1457444	.4347215
Stddev	.07841	.16125	.0006938	.0015208	.217153	.0018157	.0164692
%RSD	.3624679	.9516441	.9716151	3.509629	57.67003	1.245817	3.788445
#1	21.71495	16.93767	.0721897	.0420406	-.563031	.1478410	.4513907
#2	21.61906	16.78679	.0711659	.0450086	-.428462	.1446840	.4184599
#3	21.55955	17.10908	.0708667	.0429486	-.138137	.1447083	.4343140

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.152403	1.797810	-.061936	-.000750	.2043205	1.577892	.0226679
Stddev	.124578	.006225	.004769	.000354	.0050718	.010416	.0008753
%RSD	1.741765	.3462531	7.699764	47.26282	2.482289	.6600907	3.861510
#1	7.023888	1.803839	-.067435	-.000437	.1985607	1.583004	.0220339
#2	7.272631	1.791406	-.058943	-.000677	.2081178	1.565908	.0236666
#3	7.160689	1.798186	-.059429	-.001135	.2062831	1.584764	.0223033

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-04DLX5 Acquired: 12/23/2024 16:41:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3994755	-.172553	.0348150
Stddev	.0043761	.001446	.0025443
%RSD	1.095462	.8380483	7.308097
#1	.4006122	-.173050	.0324043
#2	.3946433	-.173685	.0374747
#3	.4031712	-.170924	.0345661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2128.047	27536.73	2227.524	1818.539	1883.058
Stddev	4.897	54.36	12.292	5.029	4.614
%RSD	.2301209	.1974209	.5518167	.2765214	.2450008
#1	2133.647	27522.36	2217.222	1821.491	1888.075
#2	2125.922	27491.00	2241.130	1821.394	1882.099
#3	2124.571	27596.84	2224.219	1812.733	1878.999

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-05DLX8 Acquired: 12/23/2024 16:45:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1727602	-.064109	.0908377	.0934835	.0311365	27.56073	.5781977
Stddev	.0017545	.006830	.0008186	.0032748	.0017452	.28713	.0067827
%RSD	1.015553	10.65384	.9011547	3.503032	5.605054	1.041791	1.173080
#1	.1744279	-.070721	.0914036	.0902859	.0331516	27.60324	.5809773
#2	.1729225	-.064525	.0898991	.0968303	.0301202	27.82422	.5831490
#3	.1709302	-.057080	.0912104	.0933342	.0301375	27.25471	.5704667

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025967	.0019653	10.65234	.0816324	.0634173	.1726193	152.3868
Stddev	.0001414	.0000850	.12073	.0006477	.0003848	.0040469	1.7292
%RSD	5.446026	4.323841	1.133334	.7933877	.6067205	2.344389	1.134712
#1	.0027059	.0019480	10.76816	.0821592	.0634567	.1679985	152.9943
#2	.0024370	.0018903	10.66162	.0818288	.0637809	.1755323	153.7302
#3	.0026472	.0020576	10.52724	.0809093	.0630144	.1743272	150.4359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.32144	18.61084	.0719617	.0054263	-.719999	.1943084	.1598083
Stddev	.09723	.23206	.0010056	.0005148	.758926	.0152989	.0165327
%RSD	.9420454	1.246884	1.397358	9.487354	105.4066	7.873506	10.34531
#1	10.35666	18.80943	.0714921	.0049504	-.832899	.2076506	.1788863
#2	10.39616	18.66733	.0712769	.0059728	-1.41615	.1976646	.1508623
#3	10.21151	18.35575	.0731162	.0053559	.08905	.1776101	.1496763

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.435059	.8831737	-.029875	.0012313	.1492220	1.511695	.0121970
Stddev	.050047	.0039190	.002348	.0000715	.0008950	.020893	.0009355
%RSD	2.055258	.4437427	7.858124	5.806133	.5997978	1.382077	7.670076
#1	2.414148	.8787241	-.028684	.0013048	.1490050	1.512574	.0120530
#2	2.398859	.8861123	-.032580	.0012270	.1484554	1.532134	.0113419
#3	2.492170	.8846846	-.028362	.0011620	.1502055	1.490376	.0131962

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-05DLX8 Acquired: 12/23/2024 16:45:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3397215	-.081704	.0263092
Stddev	.0024942	.001227	.0036552
%RSD	.7341967	1.501269	13.89312
#1	.3376484	-.081962	.0221169
#2	.3424895	-.082780	.0279826
#3	.3390264	-.080368	.0288280

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2115.768	27412.43	2248.225	1810.742	1868.404
Stddev	3.450	114.95	30.708	18.153	2.686
%RSD	.1630641	.4193501	1.365876	1.002508	.1437507
#1	2112.942	27317.33	2242.983	1790.054	1865.592
#2	2119.613	27379.77	2220.476	1818.163	1870.942
#3	2114.750	27540.17	2281.217	1824.008	1868.679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-06DLX8 Acquired: 12/23/2024 16:49:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1338164	-.069488	.0795642	.0983636	.0340737	27.34383	.6591959
Stddev	.0070003	.001799	.0009183	.0029191	.0018525	.14453	.0037951
%RSD	5.231312	2.588435	1.154112	2.967667	5.436795	.5285622	.5757165
#1	.1305250	-.069944	.0785640	.0971598	.0323117	27.29023	.6578629
#2	.1290683	-.071014	.0797593	.1016921	.0339043	27.50750	.6634776
#3	.1418558	-.067505	.0803692	.0962389	.0360051	27.23375	.6562471

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029002	.0015044	8.359636	.0713879	.0603482	.1518770	168.2251
Stddev	.0002388	.0000150	.039949	.0005351	.0002782	.0051163	.6889
%RSD	8.234285	.9946625	.4778815	.7496136	.4609070	3.368707	.4095280
#1	.0029672	.0015088	8.397528	.0717970	.0600707	.1558434	167.8995
#2	.0026350	.0015166	8.317906	.0715845	.0606269	.1461021	169.0165
#3	.0030984	.0014877	8.363474	.0707823	.0603469	.1536856	167.7593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.53022	18.95879	.0627185	.0053574	-.467783	.2044779	.1992833
Stddev	.03659	.16073	.0002392	.0008506	.812001	.0044193	.0081915
%RSD	.3173152	.8478084	.3813435	15.87745	173.5847	2.161251	4.110485
#1	11.52923	18.92655	.0625452	.0043911	.000885	.2040409	.1898333
#2	11.56730	19.13321	.0629914	.0056879	.001166	.2090994	.2036547
#3	11.49414	18.81663	.0626190	.0059932	-1.40540	.2002933	.2043618

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.362809	1.043820	-.032875	-.000401	.0522989	1.057526	.0117763
Stddev	.105281	.002612	.002223	.000453	.0019033	.002805	.0005899
%RSD	1.963172	.2502733	6.761804	112.8759	3.639180	.2652083	5.008993
#1	5.484213	1.041447	-.030310	-.000604	.0505792	1.057446	.0124574
#2	5.307585	1.046619	-.034240	.000118	.0543438	1.054762	.0114255
#3	5.296630	1.043394	-.034076	-.000717	.0519737	1.060369	.0114461

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-06DLX8 Acquired: 12/23/2024 16:49:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3293643	-.110852	.0278099
Stddev	.0057244	.000414	.0051803
%RSD	1.738017	.3736351	18.62733
#1	.3308278	-.110799	.0325249
#2	.3342148	-.111291	.0222647
#3	.3230502	-.110467	.0286401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2098.390	27320.37	2208.407	1805.975	1853.427
Stddev	2.692	98.55	2.844	3.848	3.622
%RSD	.1283003	.3607021	.1287806	.2130844	.1954330
#1	2095.570	27425.79	2209.004	1810.109	1851.449
#2	2098.666	27230.57	2205.312	1802.497	1851.225
#3	2100.934	27304.76	2210.906	1805.319	1857.608

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-07DLX8 Acquired: 12/23/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0808820	-.080155	.1149807	.1179792	.0381783	17.32849	.4943321
Stddev	.0016256	.004411	.0023504	.0056538	.0010023	.88167	.0260633
%RSD	2.009848	5.503242	2.044139	4.792223	2.625184	5.087980	5.272422
#1	.0827390	-.084822	.1144704	.1232028	.0393337	18.20871	.5213368
#2	.0801912	-.079588	.1129273	.1119761	.0375433	16.44537	.4693253
#3	.0797160	-.076055	.1175442	.1187588	.0376580	17.33140	.4923340

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031631	.0017696	9.169349	.0303136	.0610327	.1433330	189.8767
Stddev	.0002695	.0001672	.428010	.0003541	.0003952	.0062347	9.0312
%RSD	8.521060	9.446994	4.667838	1.168042	.6475695	4.349816	4.756349
#1	.0034736	.0015927	9.611473	.0299259	.0609653	.1503724	199.2999
#2	.0029897	.0017911	8.757008	.0306198	.0614573	.1385067	181.2967
#3	.0030259	.0019249	9.139567	.0303952	.0606756	.1411199	189.0335

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.86184	9.727909	.0428747	.0078409	-1.81959	.0805264	.2043424
Stddev	.59104	.467250	.0009073	.0005817	.93038	.0146651	.0184524
%RSD	4.982741	4.803187	2.116188	7.419348	51.13120	18.21159	9.030135
#1	12.48547	10.15088	.0433781	.0081961	-.94048	.0924947	.1830357
#2	11.30993	9.22635	.0434187	.0071695	-2.79391	.0641675	.2150909
#3	11.79012	9.80650	.0418273	.0081570	-1.72436	.0849170	.2149006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.653189	1.092703	-.033682	-.000362	.1301649	.9565983	.0147130
Stddev	.316516	.002103	.003919	.000600	.0039938	.0415864	.0022047
%RSD	11.92965	.1924812	11.63473	165.8674	3.068265	4.347325	14.98490
#1	2.970510	1.090360	-.029259	-.000921	.1259266	1.001483	.0168568
#2	2.337484	1.093320	-.036721	.000271	.1338582	.919376	.0148303
#3	2.651572	1.094429	-.035065	-.000435	.1307098	.948936	.0124520

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-07DLX8 Acquired: 12/23/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1460185	-.133099	.0246778
Stddev	.0102487	.005850	.0064275
%RSD	7.018765	4.395180	26.04563
#1	.1571537	-.139070	.0303381
#2	.1369807	-.127378	.0176903
#3	.1439212	-.132850	.0260049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2092.215	27242.88	2179.648	1806.287	1860.934
Stddev	5.625	82.31	81.259	6.322	6.763
%RSD	.2688561	.3021213	3.728059	.3500008	.3634265
#1	2087.512	27259.58	2090.574	1799.036	1855.491
#2	2098.446	27153.50	2249.726	1809.185	1868.505
#3	2090.687	27315.55	2198.643	1810.641	1858.805

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-08DLX8 Acquired: 12/23/2024 16:57:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1214305	-.062212	.0787288	.0948772	.0296667	27.96856	.5096963
Stddev	.0043938	.002473	.0009439	.0049579	.0029277	.09803	.0032500
%RSD	3.618352	3.974871	1.198893	5.225614	9.868720	.3505163	.6376356
#1	.1166113	-.059363	.0795205	.0892379	.0330464	27.85584	.5084820
#2	.1252138	-.063799	.0789818	.0985508	.0280498	28.01594	.5133786
#3	.1224663	-.063475	.0776843	.0968431	.0279041	28.03391	.5072283

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027222	.0012656	10.30301	.0666501	.0617868	.1279810	157.1514
Stddev	.0001342	.0000621	.02291	.0004009	.0004947	.0012020	.4547
%RSD	4.930522	4.909271	.2223756	.6014722	.8006788	.9391834	.2893405
#1	.0026325	.0011954	10.29411	.0662762	.0612202	.1289174	156.6863
#2	.0026576	.0013136	10.32904	.0666009	.0620073	.1284000	157.5949
#3	.0028765	.0012877	10.28589	.0670734	.0621330	.1266256	157.1729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.48573	18.03338	.0616511	.0045555	-.787005	.1706052	.2043660
Stddev	.03450	.08704	.0002442	.0007762	.881106	.0066887	.0042138
%RSD	.3290578	.4826730	.3961214	17.03968	111.9568	3.920585	2.061881
#1	10.44900	17.97678	.0619280	.0042911	-1.40117	.1640261	.2066180
#2	10.51746	17.98975	.0614665	.0054294	.22254	.1703912	.1995047
#3	10.49074	18.13361	.0615587	.0039460	-1.18238	.1773984	.2069753

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.602760	1.127083	-.029900	-.000231	.1402103	1.293490	.0126086
Stddev	.079865	.003813	.006469	.000238	.0087205	.004246	.0020289
%RSD	1.735145	.3382994	21.63462	103.0010	6.219582	.3282759	16.09119
#1	4.622118	1.130143	-.028759	-.000309	.1431092	1.293277	.0129990
#2	4.671165	1.122812	-.024078	-.000420	.1304095	1.289353	.0144138
#3	4.514995	1.128294	-.036864	.000036	.1471120	1.297838	.0104128

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-08DLX8 Acquired: 12/23/2024 16:57:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3604452	-.089599	.0279636
Stddev	.0043570	.000821	.0013883
%RSD	1.208777	.9160866	4.964675
#1	.3644887	-.088679	.0269091
#2	.3610159	-.090257	.0295365
#3	.3558310	-.089862	.0274451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.757	27301.83	2213.829	1806.323	1864.888
Stddev	8.569	81.62	14.059	5.649	6.767
%RSD	.4059773	.2989574	.6350646	.3127417	.3628598
#1	2100.863	27237.83	2211.190	1801.793	1857.099
#2	2115.624	27393.75	2229.020	1812.653	1869.323
#3	2115.785	27273.92	2201.276	1804.524	1868.243

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-09DLX8 Acquired: 12/23/2024 17:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0679677	-.079278	.0903220	.1128582	.0400173	19.09742	.5494827
Stddev	.0027153	.003745	.0008835	.0064350	.0004436	.06832	.0017801
%RSD	3.995002	4.723519	.9781842	5.701805	1.108493	.3577270	.3239530
#1	.0710732	-.077766	.0909215	.1188588	.0400978	19.02103	.5495020
#2	.0667889	-.083542	.0893073	.1060627	.0404151	19.11857	.5476930
#3	.0660409	-.076526	.0907370	.1136530	.0395390	19.15266	.5512530

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032363	.0013669	9.591860	.0319174	.0594046	.0939794	189.3162
Stddev	.0001213	.0001173	.039620	.0010779	.0004906	.0035032	.4859
%RSD	3.747326	8.579208	.4130598	3.377109	.8258274	3.727608	.2566729
#1	.0031023	.0014591	9.605252	.0306773	.0595497	.0899823	189.3012
#2	.0032683	.0014066	9.547280	.0326297	.0588579	.0965162	188.8380
#3	.0033385	.0012349	9.623049	.0324451	.0598063	.0954396	189.8095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.84537	11.45370	.0454767	.0070553	-1.00402	.0797815	.2176015
Stddev	.02587	.09283	.0004033	.0015651	.65543	.0074571	.0036271
%RSD	.2384896	.8104400	.8867159	22.18296	65.28115	9.346921	1.666831
#1	10.81928	11.34680	.0451599	.0076969	-1.21359	.0854905	.2183836
#2	10.84583	11.51382	.0453396	.0081977	-.26943	.0825095	.2207737
#3	10.87100	11.50050	.0459306	.0052714	-1.52904	.0713445	.2136472

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.859870	1.066586	-.039715	-.000313	.0980994	1.042594	.0130365
Stddev	.211577	.002361	.007038	.000349	.0019207	.002586	.0003372
%RSD	4.353559	.2213300	17.72043	111.5754	1.957956	.2480301	2.586840
#1	4.621614	1.063984	-.034522	-.000582	.0991498	1.043513	.0134174
#2	5.025799	1.068591	-.047725	.000082	.0992660	1.044595	.0127761
#3	4.932198	1.067182	-.036897	-.000439	.0958826	1.039674	.0129159

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-09DLX8 Acquired: 12/23/2024 17:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3062632	-.129388	.0255977
Stddev	.0039898	.000645	.0025480
%RSD	1.302732	.4983927	9.953841
#1	.3017159	-.129322	.0235798
#2	.3078965	-.128779	.0284609
#3	.3091771	-.130064	.0247525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2108.682	27373.60	2214.943	1806.069	1874.644
Stddev	6.975	77.83	7.013	15.695	6.219
%RSD	.3307760	.2843358	.3166430	.8690362	.3317429
#1	2103.261	27456.64	2222.949	1806.188	1870.188
#2	2106.234	27361.84	2211.996	1821.705	1871.996
#3	2116.551	27302.31	2209.883	1790.315	1881.749

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-10DLX10 Acquired: 12/23/2024 17:05:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0734615	-.061408	.1146291	.0897823	.0257612	14.40760	.7965419
Stddev	.0028255	.001039	.0005781	.0017497	.0011327	.02295	.0021756
%RSD	3.846261	1.691599	.5043512	1.948852	4.396783	.1592701	.2731301
#1	.0764455	-.060661	.1147779	.0896957	.0270018	14.39253	.7989032
#2	.0731120	-.060969	.1151183	.0915738	.0247823	14.43401	.7961036
#3	.0708270	-.062594	.1139911	.0880775	.0254995	14.39626	.7946188

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021555	.0017530	6.781638	.0331413	.0483335	.1625546	143.5123
Stddev	.0001401	.0000556	.025049	.0002834	.0000567	.0038139	.3684
%RSD	6.502177	3.173383	.3693600	.8552261	.1172099	2.346232	.2566889
#1	.0021125	.0017567	6.807290	.0328843	.0482880	.1667604	143.1179
#2	.0023121	.0016956	6.780384	.0334453	.0483155	.1615828	143.8474
#3	.0020419	.0018067	6.757240	.0330942	.0483970	.1593206	143.5718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.65582	9.702485	.0403853	.0067543	-1.35788	.0858879	.1991685
Stddev	.02175	.034280	.0007222	.0002500	.34073	.0029893	.0103043
%RSD	.2040832	.3533126	1.788182	3.702029	25.09286	3.480488	5.173640
#1	10.63117	9.740960	.0404605	.0065019	-1.07571	.0824713	.1978969
#2	10.67231	9.675193	.0396285	.0070019	-1.26151	.0871705	.2100496
#3	10.66396	9.691301	.0410669	.0067592	-1.73641	.0880219	.1895591

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.768568	.7905719	-.031693	-.000285	.0471137	.6451860	.0090122
Stddev	.055199	.0040664	.003648	.000780	.0041983	.0054542	.0015725
%RSD	1.993766	.5143661	11.51144	273.5009	8.911003	.8453621	17.44841
#1	2.799820	.7862651	-.034672	.000566	.0453110	.6489522	.0079001
#2	2.801050	.7911055	-.027624	-.000966	.0519123	.6389314	.0083252
#3	2.704834	.7943453	-.032782	-.000456	.0441178	.6476743	.0108113

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5180-10DLX10 Acquired: 12/23/2024 17:05:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYX8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1816231	-.093450	.0182110
Stddev	.0019798	.000169	.0040877
%RSD	1.090063	.1803705	22.44619
#1	.1834869	-.093257	.0159201
#2	.1818376	-.093568	.0229304
#3	.1795447	-.093525	.0157826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2087.463	27126.05	2200.538	1793.840	1861.005
Stddev	5.911	93.60	11.609	9.849	4.995
%RSD	.2831568	.3450427	.5275430	.5490480	.2683777
#1	2093.813	27038.56	2188.429	1783.687	1865.364
#2	2086.458	27114.85	2211.572	1794.478	1862.096
#3	2082.120	27224.75	2201.614	1803.354	1855.556

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5181-10DLX4 Acquired: 12/23/2024 17:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0750166	-.085997	.1097178	.1264466	.0422131	34.17853	.6450045
Stddev	.0018881	.001271	.0018304	.0036097	.0021424	.23090	.0025368
%RSD	2.516910	1.477975	1.668254	2.854693	5.075154	.6755780	.3933038
#1	.0759375	-.084568	.1081803	.1257551	.0439071	34.02920	.6429670
#2	.0762676	-.086423	.1092305	.1232328	.0398048	34.06192	.6442007
#3	.0728448	-.087000	.1117425	.1303520	.0429274	34.44449	.6478459

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035129	.0015836	15.13341	.0538030	.0889977	.1405305	210.6339
Stddev	.0000324	.0000218	.09456	.0006966	.0010246	.0062274	.7431
%RSD	.9226171	1.375021	.6248567	1.294660	1.151263	4.431329	.3528107
#1	.0034885	.0015859	15.04764	.0530616	.0878528	.1380005	209.9534
#2	.0035497	.0015607	15.11777	.0544439	.0893121	.1476247	210.5216
#3	.0035006	.0016041	15.23482	.0539034	.0898283	.1359664	211.4269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.09411	20.83357	.0650005	.0099781	-1.45490	.1108992	.3648029
Stddev	.08255	.12914	.0003479	.0016164	.47527	.0020006	.0036436
%RSD	.4829249	.6198639	.5351489	16.19974	32.66654	1.803986	.9987887
#1	17.04269	20.90893	.0647790	.0090349	-1.58261	.1111746	.3643010
#2	17.05030	20.68445	.0648211	.0118446	-1.85327	.1087751	.3686714
#3	17.18933	20.90732	.0654015	.0090549	-.92883	.1127478	.3614362

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.506589	1.714550	-.045575	-.001230	.1323273	2.545351	.0140175
Stddev	.087037	.005214	.006843	.000378	.0076657	.008746	.0004918
%RSD	1.580590	.3041263	15.01497	30.73566	5.792999	.3435986	3.508305
#1	5.449548	1.708533	-.042015	-.000793	.1365534	2.535254	.0145817
#2	5.463449	1.717367	-.053464	-.001446	.1369497	2.550248	.0137907
#3	5.606769	1.717751	-.041245	-.001451	.1234786	2.550552	.0136800

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5181-10DLX4 Acquired: 12/23/2024 17:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCYY8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4562823	-.093644	.0468352
Stddev	.0060293	.000313	.0029136
%RSD	1.321397	.3340141	6.220892
#1	.4513905	-.093996	.0501797
#2	.4544382	-.093398	.0448467
#3	.4630183	-.093538	.0454793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2123.695	27496.56	2216.300	1812.718	1866.032
Stddev	1.506	130.62	6.296	3.073	.853
%RSD	.0709320	.4750524	.2840881	.1695475	.0457338
#1	2122.689	27390.32	2217.803	1809.224	1866.768
#2	2125.427	27642.40	2221.709	1815.003	1866.230
#3	2122.970	27456.95	2209.389	1813.928	1865.096

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20DLX2 Acquired: 12/23/2024 17:13:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6954414	-.196860	.4792039	.2317101	.0941987	199.2449	.4042972
Stddev	.0014519	.002515	.0029620	.0016383	.0014296	.3953	.0019824
%RSD	.2087758	1.277443	.6181107	.7070474	1.517611	.1983838	.4903387
#1	.6969288	-.194270	.4817315	.2306718	.0958417	199.3974	.4059568
#2	.6953677	-.199292	.4799356	.2335987	.0935155	199.5412	.4048328
#3	.6940277	-.197017	.4759446	.2308597	.0932389	198.7961	.4021020

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091432	.0176197	37.39181	.8627625	.2867155	2.105859	421.4394
Stddev	.0001749	.0001354	.09150	.0022348	.0009482	.021018	.7425
%RSD	1.913355	.7684253	.2447186	.2590321	.3306988	.9980680	.1761846
#1	.0092684	.0175624	37.37052	.8627652	.2857758	2.119749	421.9232
#2	.0092180	.0175223	37.49208	.8649960	.2876719	2.116150	421.8105
#3	.0089433	.0177743	37.31282	.8605263	.2866988	2.081679	420.5845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.712818	151.7260	.5239538	.0090086	-.902012	1.145599	1.114674
Stddev	.027132	.3918	.0007208	.0015423	.624398	.012690	.002978
%RSD	.3517747	.2582298	.1375769	17.12040	69.22276	1.107752	.2671212
#1	7.724165	151.2740	.5232796	.0072817	-.635402	1.130996	1.114537
#2	7.732434	151.9683	.5247136	.0094953	-1.61546	1.151854	1.117717
#3	7.681855	151.9357	.5238681	.0102489	-.45518	1.153949	1.111767

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.450128	2.042734	-.085894	-.000519	.3771516	8.257168	.0377393
Stddev	.094076	.002784	.006329	.000851	.0034110	.070375	.0002698
%RSD	3.839625	.1362984	7.368474	164.0211	.9044142	.8522872	.7149501
#1	2.349910	2.045219	-.078619	-.000805	.3755489	8.191958	.0379558
#2	2.463939	2.039725	-.090136	.000438	.3748371	8.331765	.0378250
#3	2.536534	2.043260	-.088926	-.001191	.3810688	8.247780	.0374370

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20DLX2 Acquired: 12/23/2024 17:13:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.991602	-.315423	.0974277
Stddev	.009527	.000629	.0016568
%RSD	.3184476	.1994316	1.700510
#1	2.998492	-.315883	.0955162
#2	2.995584	-.315680	.0984512
#3	2.980730	-.314706	.0983156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2165.605	28040.49	2330.818	1856.019	1793.109
Stddev	4.156	28.04	10.794	3.702	3.471
%RSD	.1918988	.0999895	.4630799	.1994357	.1935778
#1	2164.937	28027.66	2337.948	1851.860	1792.129
#2	2170.054	28021.17	2318.400	1857.246	1796.964
#3	2161.824	28072.65	2336.107	1858.952	1790.233

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-21DLX2 Acquired: 12/23/2024 17:17:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6943300	-.200631	.4792459	.2369211	.0936122	199.3883	.4051442
Stddev	.0060069	.003282	.0024059	.0041462	.0028427	.2608	.0003919
%RSD	.8651425	1.635862	.5020186	1.750049	3.036655	.1307870	.0967216
#1	.6940472	-.198092	.4789807	.2417085	.0968454	199.6775	.4054316
#2	.6884695	-.204337	.4769836	.2344836	.0915051	199.1712	.4046979
#3	.7004734	-.199463	.4817735	.2345713	.0924862	199.3161	.4053032

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092522	.0178849	38.03537	.8570622	.2854444	2.108289	422.1619
Stddev	.0001464	.0000874	.07076	.0020759	.0003189	.001358	.5294
%RSD	1.582606	.4887710	.1860347	.2422050	.1117031	.0644138	.1253987
#1	.0093558	.0179664	38.05605	.8589161	.2850938	2.109828	422.5986
#2	.0093162	.0177926	38.09349	.8548194	.2855223	2.107257	422.3140
#3	.0090847	.0178959	37.95658	.8574512	.2857170	2.107783	421.5731

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.734838	152.1305	.5251936	.0092437	-.853355	1.153548	1.114304
Stddev	.005648	.3621	.0010215	.0011086	.631948	.016141	.008422
%RSD	.0730213	.2380218	.1944915	11.99304	74.05460	1.399239	.7558410
#1	7.737760	152.5280	.5240338	.0094705	-1.36354	1.161611	1.119206
#2	7.738425	152.0440	.5255876	.0080392	-.14644	1.134964	1.104579
#3	7.728327	151.8195	.5259594	.0102214	-1.05009	1.164069	1.119127

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.680641	2.045144	-.092862	-.000961	.3803747	8.228447	.0385543
Stddev	.225435	.010894	.007131	.000996	.0054394	.121312	.0010341
%RSD	8.409725	.5326938	7.679590	103.6375	1.430021	1.474299	2.682198
#1	2.881683	2.039876	-.100029	-.000933	.3780128	8.361457	.0389183
#2	2.436916	2.037884	-.092791	.000021	.3865959	8.199992	.0373874
#3	2.723325	2.057671	-.085766	-.001970	.3765155	8.123892	.0393572

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-21DLX2 Acquired: 12/23/2024 17:17:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.993035	-.316374	.1007593
Stddev	.005889	.000190	.0020427
%RSD	.1967674	.0601098	2.027309
#1	2.999129	-.316166	.0986642
#2	2.987375	-.316539	.1008685
#3	2.992601	-.316415	.1027452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.381	27955.20	2324.495	1858.987	1789.166
Stddev	8.422	29.63	25.122	3.190	5.593
%RSD	.3896638	.1059859	1.080755	.1716173	.3126132
#1	2156.945	27961.49	2295.893	1859.629	1787.778
#2	2171.093	27981.18	2334.603	1855.524	1795.323
#3	2156.103	27922.93	2342.988	1861.807	1784.398

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20LDLX10 Acquired: 12/23/2024 17:21:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1403471	-.042219	.0962286	.0534637	.0192447	41.26289	.0811405
Stddev	.0020237	.002747	.0008372	.0020790	.0028389	.18579	.0015263
%RSD	1.441937	6.506650	.8700493	3.888546	14.75131	.4502670	1.881058
#1	.1424273	-.039368	.0971676	.0558097	.0211424	41.14210	.0828609
#2	.1402290	-.042441	.0959583	.0527316	.0206107	41.16973	.0799490
#3	.1383850	-.044849	.0955599	.0518498	.0159811	41.47683	.0806117

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019141	.0033163	7.867051	.1787464	.0579384	.4480010	89.07893
Stddev	.0000399	.0000432	.036812	.0006607	.0003059	.0089732	.38434
%RSD	2.084889	1.303106	.4679210	.3696559	.5280546	2.002945	.4314580
#1	.0019181	.0033651	7.861573	.1792131	.0582508	.4583617	89.33451
#2	.0018724	.0033007	7.833285	.1779903	.0579251	.4427212	88.63693
#3	.0019519	.0032830	7.906294	.1790358	.0576394	.4429201	89.26534

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630126	31.56182	.1055011	.0023790	-.477682	.2405072	.2322672
Stddev	.009829	.04676	.0008935	.0003545	.619741	.0039473	.0125923
%RSD	.6029671	.1481662	.8468699	14.90042	129.7392	1.641243	5.421458
#1	1.631632	31.55593	.1065323	.0020165	-.820656	.2397536	.2381533
#2	1.619630	31.61125	.1050123	.0023956	-.850121	.2369911	.2178098
#3	1.639115	31.51828	.1049586	.0027249	.237731	.2447770	.2408385

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1880743	.3960599	-.024155	-.000180	.0682980	1.710983	.0067111
Stddev	.0700760	.0019443	.002398	.000206	.0045913	.017387	.0036856
%RSD	37.25973	.4909015	9.928303	114.7251	6.722476	1.016224	54.91845
#1	.1538340	.3938419	-.026881	-.000086	.0711165	1.730830	.0106742
#2	.1417017	.3968677	-.023215	-.000037	.0630000	1.703680	.0033864
#3	.2686874	.3974700	-.022369	-.000416	.0707775	1.698438	.0060725

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-20LDLX10 Acquired: 12/23/2024 17:21:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6214004	-.066833	.0222586
Stddev	.0038022	.000646	.0011012
%RSD	.6118816	.9670119	4.947148
#1	.6176953	-.067476	.0230709
#2	.6252928	-.066184	.0210053
#3	.6212133	-.066839	.0226996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2079.273	27276.30	2214.291	1807.198	1845.263
Stddev	1.078	72.24	24.132	4.696	1.665
%RSD	.0518344	.2648450	1.089828	.2598236	.0902235
#1	2080.168	27231.71	2186.808	1802.425	1846.042
#2	2079.574	27237.54	2224.048	1807.356	1846.396
#3	2078.077	27359.64	2232.017	1811.812	1843.351

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-22DLX2 Acquired: 12/23/2024 17:25:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7826231	-.105078	.5134099	.4101163	.2567519	202.0671	4.172040
Stddev	.0088778	.002601	.0049933	.0078938	.0017993	.4195	.008671
%RSD	1.134362	2.474977	.9725776	1.924770	.7007766	.2076215	.2078413
#1	.7725245	-.102228	.5079007	.4016441	.2579647	201.6094	4.162454
#2	.7861466	-.107322	.5176376	.4172643	.2576065	202.4335	4.179337
#3	.7891982	-.105683	.5146912	.4114404	.2546847	202.1583	4.174331

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1037165	.1124486	37.82483	1.229664	1.204470	2.556892	423.4686
Stddev	.0006697	.0004839	.19766	.001516	.002626	.009820	1.1756
%RSD	.6456589	.4303244	.5225789	.1233008	.2179959	.3840630	.2776021
#1	.1031837	.1119170	37.73537	1.231219	1.202122	2.560223	422.2802
#2	.1044682	.1125652	38.05141	1.228190	1.203984	2.564614	424.6309
#3	.1034975	.1128635	37.68771	1.229582	1.207305	2.545840	423.4947

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.641239	151.8190	1.474048	.0783212	-.545199	2.112856	1.979916
Stddev	.034575	.6333	.001896	.0020547	.314251	.017952	.026904
%RSD	.4001127	.4171419	.1286045	2.623437	57.63970	.8496531	1.358840
#1	8.613975	151.1067	1.471942	.0759675	-.217569	2.108737	1.997926
#2	8.680128	152.0318	1.474583	.0792397	-.573930	2.132509	1.948990
#3	8.629614	152.3185	1.475618	.0797565	-.844099	2.097322	1.992833

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.535564	2.003198	-.103746	-.001009	.3644163	8.455370	.0385475
Stddev	.051639	.002794	.003634	.000408	.0057699	.058200	.0011476
%RSD	2.036596	.1394633	3.503146	40.43049	1.583333	.6883163	2.977171
#1	2.514173	1.999985	-.104837	-.001481	.3634203	8.458971	.0397019
#2	2.498058	2.005048	-.106710	-.000764	.3592093	8.511685	.0374067
#3	2.594462	2.004562	-.099691	-.000784	.3706194	8.395453	.0385340

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5184-22DLX2 Acquired: 12/23/2024 17:25:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZF8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.990251	-.318053	.0984763
Stddev	.003277	.001439	.0056976
%RSD	.1096003	.4524727	5.785774
#1	2.988931	-.316516	.0970863
#2	2.993982	-.319368	.0936024
#3	2.987839	-.318276	.1047404

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2170.296	28449.08	2328.519	1879.598	1805.649
Stddev	2.146	96.73	13.696	2.266	.683
%RSD	.0988579	.3399990	.5881895	.1205788	.0378529
#1	2172.710	28337.46	2325.386	1877.343	1806.429
#2	2169.574	28508.33	2316.660	1881.876	1805.153
#3	2168.605	28501.45	2343.510	1879.573	1805.365

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5154-09DLX5 Acquired: 12/23/2024 17:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28P7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008548	.0260760	.0131877	-.033446	.0001750	1.969984	.0377696
Stddev	.002694	.0055211	.0022567	.002070	.0022788	.028878	.0013360
%RSD	31.51931	21.17306	17.11199	6.188094	1302.558	1.465879	3.537166
#1	-.009346	.0220479	.0120332	-.033834	.0021854	1.939961	.0384687
#2	-.010752	.0323694	.0157880	-.035295	.0006399	1.972432	.0386110
#3	-.005545	.0238107	.0117418	-.031210	-.002300	1.997560	.0362292

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003049	.0000529	344.7415	.0084752	.0387342	.0081387	5.613802
Stddev	.0001055	.0001024	.1701	.0007561	.0008793	.0053020	.029738
%RSD	34.58609	193.6541	.0493528	8.921740	2.270001	65.14528	.5297250
#1	.0001846	-.000058	344.6201	.0088407	.0378772	.0133282	5.641818
#2	.0003813	.000074	344.6686	.0089792	.0386914	.0083569	5.616989
#3	.0003488	.000143	344.9360	.0076058	.0396341	.0027310	5.582599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2012718	196.5844	.0131976	-.000130	-2.03743	.0149904	.0393325
Stddev	.0009585	.4590	.0005080	.000865	.54650	.0040533	.0071826
%RSD	.4762430	.2334973	3.849377	665.2576	26.82284	27.03943	18.26130
#1	.2008880	196.0579	.0126518	-.001126	-2.66393	.0119620	.0467935
#2	.2023628	196.7951	.0132845	.000297	-1.65877	.0134142	.0324651
#3	.2005647	196.9003	.0136566	.000439	-1.78959	.0195951	.0387389

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.564093	.1327785	.0038955	.0048353	2.027742	.7085349	.0073012
Stddev	.086098	.0034277	.0023325	.0003688	.017947	.0059231	.0015420
%RSD	15.26299	2.581527	59.87666	7.627120	.8850676	.8359678	21.11906
#1	-.516118	.1299349	.0041597	.0051574	2.007521	.7056437	.0060351
#2	-.663490	.1318161	.0014421	.0049154	2.033929	.7046126	.0090184
#3	-.512671	.1365846	.0060846	.0044330	2.041777	.7153484	.0068503

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5154-09DLX5 Acquired: 12/23/2024 17:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28P7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0673118	.2690500	.0046572
Stddev	.0046836	.0004047	.0053353
%RSD	6.958075	.1504164	114.5600
#1	.0633571	.2694928	.0016891
#2	.0660944	.2686993	.0108166
#3	.0724839	.2689580	.0014660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.654	26218.78	2150.411	1710.980	1699.295
Stddev	13.363	137.76	5.454	13.203	14.613
%RSD	.6750140	.5254066	.2536352	.7716818	.8599620
#1	1988.115	26181.19	2156.649	1703.245	1707.265
#2	1986.599	26103.73	2146.540	1703.469	1708.190
#3	1964.249	26371.43	2148.044	1726.225	1682.429

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 12/23/2024 17:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.031209	4.876313	24.55670	4.919828	4.836937	402.8975	10.19142
Stddev	.019348	.011818	.03609	.003849	.009578	2.1291	.06572
%RSD	.3845601	.2423632	.1469495	.0782373	.1980152	.5284424	.6448955
#1	5.020219	4.862667	24.51742	4.916864	4.847975	400.6052	10.12058
#2	5.019858	4.883041	24.56431	4.918441	4.830829	404.8130	10.25041
#3	5.053549	4.883230	24.58838	4.924178	4.832006	403.2744	10.20327

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5106427	2.465840	412.6283	15.32674	2.444707	15.21692	418.1073
Stddev	.0003608	.001323	1.2762	.01737	.000731	.06519	2.4364
%RSD	.0706593	.0536581	.3092777	.1133330	.0299176	.4283954	.5827225
#1	.5109487	2.464818	411.3390	15.31628	2.444423	15.17352	415.6169
#2	.5102448	2.465368	413.8909	15.31715	2.445538	15.29188	420.4859
#3	.5107346	2.467335	412.6550	15.34679	2.444161	15.18536	418.2191

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.19965	412.9929	2.493083	1.298929	410.9113	2.579388	15.38914
Stddev	.08150	3.7268	.005915	.004336	3.4489	.007990	.00904
%RSD	.5362181	.9023784	.2372382	.3338218	.8393329	.3097805	.0587587
#1	15.11475	408.7403	2.486414	1.294691	406.9649	2.573967	15.37882
#2	15.27727	415.6896	2.497693	1.303357	412.4213	2.588565	15.39293
#3	15.20692	414.5488	2.495142	1.298740	413.3477	2.575633	15.39566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.1191	4.958277	4.828743	4.886634	4.884942	4.779598	4.992196
Stddev	.8883	.006178	.006100	.008321	.005708	.006835	.003273
%RSD	.5801304	.1246053	.1263314	.1702756	.1168419	.1430059	.0655605
#1	152.3570	4.958688	4.823054	4.891025	4.880448	4.787332	4.988421
#2	154.0947	4.951904	4.827990	4.877037	4.891364	4.774370	4.994233
#3	152.9057	4.964240	4.835184	4.891839	4.883015	4.777092	4.993935

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 12/23/2024 17:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.031683	4.767840	5.139188
Stddev	.003203	.018420	.027029
%RSD	.0636563	.3863465	.5259363
#1	5.035206	4.748403	5.109508
#2	5.030896	4.785039	5.162388
#3	5.028946	4.770079	5.145669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1775.359	24213.95	2078.386	1520.141	1551.678
Stddev	3.076	77.40	.927	.280	2.984
%RSD	.1732782	.3196437	.0446066	.0184348	.1923342
#1	1774.776	24299.75	2079.452	1520.446	1553.243
#2	1772.616	24192.71	2077.772	1520.081	1548.237
#3	1778.685	24149.40	2077.933	1519.896	1553.555

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 12/23/2024 17:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002657	-.000934	.0036794	-.000031	.0008841	.0282710	-.001586
Stddev	.003573	.001695	.0005344	.001457	.0031621	.0199779	.000793
%RSD	134.4859	181.4575	14.52348	4696.976	357.6730	70.66578	50.00289
#1	.000106	-.000190	.0040590	-.001175	.0011279	.0269005	-.000673
#2	-.001385	-.002874	.0039109	.001610	-.002393	.0090136	-.001986
#3	-.006691	.000262	.0030683	-.000529	.003917	.0488989	-.002100

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000024	-.000097	-.017206	-.001129	-.000075	.0010175	.0313354
Stddev	.000161	.000075	.014359	.000161	.000348	.0095611	.0132398
%RSD	681.4487	77.86731	83.45583	14.29846	467.1849	939.6308	42.25184
#1	.000162	-.000154	-.006980	-.001303	.000085	-.008561	.0212438
#2	-.000128	-.000011	-.011016	-.001100	.000165	.010561	.0463266
#3	-.000105	-.000126	-.033622	-.000985	-.000474	.001053	.0264357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009898	.0833795	.0007016	-.000063	-.933045	.0042170	-.003391
Stddev	.0017550	.2035665	.0004961	.001890	.277235	.0091686	.015630
%RSD	177.3015	244.1447	70.70384	3016.991	29.71294	217.4192	460.8938
#1	.0030006	.3175460	.0001436	-.001326	-1.22586	.0101922	-.020859
#2	-.000233	-.015988	.0008687	.002110	-.67459	-.006339	.001413
#3	.000202	-.051419	.0010926	-.000972	-.89868	.008798	.009273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.596801	-.000858	.0088214	.0002806	-.004628	-.079119	-.000431
Stddev	.172052	.000408	.0009502	.0005114	.004581	.000533	.000151
%RSD	28.82902	47.59734	10.77149	182.2624	98.98175	.6730664	34.97596
#1	-.795032	-.001329	.0098633	.0008274	-.008839	-.079614	-.000476
#2	-.486275	-.000619	.0080025	-.000186	-.005293	-.079188	-.000555
#3	-.509096	-.000625	.0085984	.000200	.000249	-.078556	-.000263

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 12/23/2024 17:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0010029	.0000461	.0098546
Stddev	.0038583	.0001172	.0051057
%RSD	384.6973	254.0990	51.81000
#1	.0051450	.0000530	.0039789
#2	.0003527	.0001597	.0123739
#3	-.002489	-.000074	.0132110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.148	26763.73	2144.952	1765.502	1853.001
Stddev	7.810	82.66	8.996	8.447	8.758
%RSD	.3826111	.3088554	.4193992	.4784387	.4726512
#1	2044.618	26697.27	2155.166	1760.693	1860.544
#2	2032.205	26737.62	2138.205	1760.557	1843.395
#3	2046.621	26856.29	2141.487	1775.255	1855.062

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-05DLX5 Acquired: 12/23/2024 17:41:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003821	.0309689	.0861474	-.027126	.0008646	3.371960	.0239011
Stddev	.004219	.0062980	.0015451	.000922	.0008403	.041784	.0011488
%RSD	110.4113	20.33648	1.793513	3.398446	97.18788	1.239158	4.806402
#1	-.007923	.0265122	.0867270	-.026972	.0015525	3.384626	.0250177
#2	-.004047	.0381740	.0873189	-.028115	-.000072	3.325308	.0227226
#3	.000506	.0282204	.0843963	-.026291	.001113	3.405945	.0239629

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004722	.0029437	418.9507	.0106571	.0432386	.0096347	18.82457
Stddev	.0000733	.0000442	3.7380	.0006255	.0010247	.0067898	.14339
%RSD	15.53369	1.501655	.8922379	5.869198	2.369869	70.47304	.7617434
#1	.0004107	.0029791	419.3433	.0100942	.0437150	.0018769	18.73330
#2	.0005534	.0028941	415.0318	.0113305	.0439385	.0144957	18.75055
#3	.0004524	.0029578	422.4768	.0105467	.0420625	.0125314	18.98984

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064912	237.4983	.0134111	.0020067	-1.57852	.0178885	.6033808
Stddev	.021015	2.1437	.0004384	.0010054	.04235	.0087793	.0047402
%RSD	1.017701	.9026064	3.268886	50.10185	2.682617	49.07793	.7855981
#1	2.065828	237.8786	.0138818	.0027603	-1.52963	.0280172	.6038733
#2	2.043454	235.1900	.0130145	.0023946	-1.60393	.0124587	.5984136
#3	2.085453	239.4264	.0133368	.0008651	-1.60198	.0131896	.6078555

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9096959	.2709356	.0238398	.0030010	4.140861	1.734917	.0070800
Stddev	.2049333	.0024197	.0004014	.0008144	.009135	.012821	.0022090
%RSD	22.52767	.8930856	1.683905	27.13889	.2206008	.7390107	31.20017
#1	.8333067	.2688151	.0242176	.0020700	4.130314	1.743880	.0045537
#2	1.141852	.2735714	.0238834	.0035818	4.146024	1.720231	.0080378
#3	.753929	.2704202	.0234183	.0033512	4.146246	1.740641	.0086484

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-05DLX5 Acquired: 12/23/2024 17:41:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ51 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0303081	.1147723	.0176824
Stddev	.0035732	.0016355	.0032300
%RSD	11.78939	1.425032	18.26662
#1	.0273642	.1149297	.0171015
#2	.0292767	.1130637	.0147822
#3	.0342836	.1163234	.0211634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1924.206	25321.03	2128.440	1647.106	1629.145
Stddev	7.349	42.46	16.658	4.400	5.219
%RSD	.3819182	.1676693	.7826360	.2671127	.3203497
#1	1920.534	25355.09	2113.443	1642.482	1627.362
#2	1919.416	25273.47	2146.369	1651.240	1625.051
#3	1932.667	25334.54	2125.508	1647.596	1635.022

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-06DLX5 Acquired: 12/23/2024 17:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002504	.0260888	.0752226	-.024735	.0045171	2.562454	.0277576
Stddev	.005448	.0056078	.0034941	.001979	.0026487	.107310	.0014122
%RSD	217.5739	21.49497	4.645070	8.000291	58.63759	4.187787	5.087718
#1	.002747	.0197602	.0732401	-.027019	.0034345	2.512519	.0262179
#2	-.002129	.0280665	.0792571	-.023528	.0075357	2.685632	.0280624
#3	-.008130	.0304398	.0731707	-.023658	.0025812	2.489212	.0289925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004375	.0018072	407.5088	.0079349	.0407561	.0125088	17.82947
Stddev	.0001438	.0001491	12.7206	.0008382	.0012695	.0064963	.54785
%RSD	32.85354	8.250723	3.121547	10.56295	3.114884	51.93405	3.072741
#1	.0004792	.0018849	402.6409	.0087189	.0410226	.0069120	17.58107
#2	.0005558	.0019015	421.9444	.0070515	.0418713	.0196327	18.45752
#3	.0002776	.0016353	397.9411	.0080343	.0393746	.0109818	17.44982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.408923	229.7196	.0108464	-.000225	-1.48422	.0073251	.3699886
Stddev	.088443	7.1822	.0007922	.001452	.45494	.0026492	.0028772
%RSD	3.671464	3.126497	7.303607	644.8352	30.65192	36.16571	.7776310
#1	2.369333	226.0332	.0116987	-.001662	-1.45413	.0075341	.3685584
#2	2.510245	237.9964	.0107078	-.000256	-1.04507	.0098636	.3681068
#3	2.347191	225.1291	.0101327	.001242	-1.95346	.0045776	.3733006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4521901	.2230720	.0194171	.0016706	3.661340	1.320003	.0076941
Stddev	.1000913	.0072073	.0012732	.0004792	.100662	.036213	.0021187
%RSD	22.13479	3.230912	6.557113	28.68509	2.749320	2.743411	27.53673
#1	.3368615	.2286733	.0200773	.0019164	3.726881	1.310142	.0089218
#2	.5033158	.2256018	.0179494	.0011184	3.711702	1.360126	.0089128
#3	.5163931	.2149409	.0202247	.0019772	3.545436	1.289742	.0052476

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-06DLX5 Acquired: 12/23/2024 17:45:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0135876	.1116848	.0106762
Stddev	.0054173	.0038759	.0024214
%RSD	39.86962	3.470425	22.68021
#1	.0077684	.1099450	.0096893
#2	.0184848	.1161258	.0134352
#3	.0145096	.1089836	.0089042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2022.349	26299.19	2124.211	1709.006	1716.986
Stddev	51.079	81.42	57.270	4.091	46.954
%RSD	2.525733	.3095989	2.696057	.2393984	2.734654
#1	1990.493	26229.07	2137.219	1710.524	1686.270
#2	1995.289	26280.00	2061.556	1704.372	1693.653
#3	2081.265	26388.49	2173.859	1712.121	1771.036

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-07DLX5 Acquired: 12/23/2024 17:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005354	.0278520	.0771317	-.032949	.0017851	2.345101	.0140194
Stddev	.002269	.0030296	.0005159	.004254	.0021761	.041293	.0021234
%RSD	42.38406	10.87742	.6688316	12.91110	121.8989	1.760814	15.14578
#1	-.006009	.0249922	.0765546	-.029044	.0042973	2.360212	.0145593
#2	-.002829	.0275370	.0772924	-.032320	.0005725	2.298381	.0116782
#3	-.007224	.0310268	.0775480	-.037482	.0004856	2.376710	.0158207

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003714	.0009490	400.8446	.0073948	.0415993	.0110587	17.29286
Stddev	.0000746	.0001083	7.2844	.0003023	.0008809	.0037218	.28510
%RSD	20.09122	11.41450	1.817253	4.087734	2.117584	33.65493	1.648670
#1	.0003299	.0008516	404.8368	.0077415	.0416155	.0094582	17.40139
#2	.0003267	.0009297	392.4369	.0072567	.0407104	.0084049	16.96943
#3	.0004575	.0010657	405.2600	.0071862	.0424719	.0153131	17.50776

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965943	227.9986	.0103937	.0014398	-1.08785	.0078807	.1940119
Stddev	.054911	4.0461	.0007578	.0017181	.66629	.0011159	.0171994
%RSD	1.851387	1.774619	7.291362	119.3282	61.24788	14.15937	8.865106
#1	2.993249	230.3145	.0107266	.0026405	-.33779	.0065938	.2027096
#2	2.902732	223.3266	.0109280	-.000528	-1.31457	.0084700	.2051253
#3	3.001849	230.3546	.0095263	.002207	-1.61119	.0085784	.1742008

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5639713	.2217980	.0145611	.0021088	3.460601	1.328545	.0073534
Stddev	.1594761	.0017509	.0019083	.0004043	.004444	.026634	.0003324
%RSD	28.27735	.7893895	13.10514	19.17138	.1284249	2.004739	4.520360
#1	.7202709	.2235068	.0138074	.0016874	3.461640	1.352742	.0071324
#2	.4014980	.2200079	.0131448	.0021455	3.455730	1.300008	.0071921
#3	.5701449	.2218792	.0167311	.0024935	3.464434	1.332886	.0077357

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4978-07DLX5 Acquired: 12/23/2024 17:49:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0082863	.1020759	.0073491
Stddev	.0015418	.0015925	.0011768
%RSD	18.60672	1.560071	16.01267
#1	.0065293	.1028159	.0072049
#2	.0094135	.1002481	.0062510
#3	.0089162	.1031638	.0085913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1956.787	25915.93	2157.506	1685.425	1656.706
Stddev	2.180	54.13	43.054	5.381	2.199
%RSD	.1113876	.2088812	1.995550	.3192462	.1327625
#1	1954.327	25861.37	2122.994	1685.619	1654.413
#2	1958.478	25916.80	2205.752	1690.706	1658.798
#3	1957.557	25969.62	2143.773	1679.949	1656.908

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-14DLX2 Acquired: 12/23/2024 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374797	.0082313	.2322187	.0157902	.0127943	25.46199	.3943019
Stddev	.0011633	.0029273	.0028288	.0009837	.0009640	.15635	.0010786
%RSD	3.103834	35.56268	1.218142	6.229868	7.534535	.6140537	.2735554
#1	.0361837	.0111501	.2307462	.0154860	.0121700	25.28337	.3942361
#2	.0378218	.0082480	.2354800	.0149945	.0139045	25.52863	.3954119
#3	.0384336	.0052957	.2304300	.0168901	.0123083	25.57399	.3932577

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025531	.0025353	527.5334	.0473093	.0737200	.2207117	77.94114
Stddev	.0000433	.0000712	1.6253	.0010182	.0003768	.0040502	.29512
%RSD	1.695915	2.808253	.3080977	2.152126	.5110752	1.835073	.3786411
#1	.0025767	.0024538	525.6711	.0463133	.0739762	.2166506	77.60192
#2	.0025032	.0025665	528.2629	.0483483	.0738965	.2247509	78.13890
#3	.0025795	.0025856	528.6662	.0472664	.0732874	.2207336	78.08259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.51816	19.06584	.0713243	.0044529	-1.03695	.0628346	.3042279
Stddev	.03091	.15878	.0011933	.0017036	.73002	.0053993	.0122325
%RSD	.2683810	.8328102	1.673132	38.25929	70.40124	8.592959	4.020842
#1	11.48472	18.88268	.0711161	.0064096	-1.87991	.0639490	.3102653
#2	11.52405	19.16468	.0702488	.0036508	-.61407	.0675897	.3122679
#3	11.54570	19.15015	.0726081	.0032983	-.61687	.0569650	.2901504

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.877915	4.427597	-.002759	.0090856	.8590088	4.837912	.0200951
Stddev	.171639	.006209	.002782	.0005703	.0084221	.039310	.0021203
%RSD	9.139877	.1402329	100.8379	6.276571	.9804435	.8125385	10.55149
#1	2.021660	4.422621	-.003567	.0093964	.8521025	4.792850	.0178323
#2	1.924207	4.425616	-.005048	.0094329	.8683914	4.865166	.0220362
#3	1.687877	4.434555	.000338	.0084274	.8565325	4.855721	.0204167

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-14DLX2 Acquired: 12/23/2024 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3187857	.3129050	.0318472
Stddev	.0037745	.0009627	.0020612
%RSD	1.184025	.3076598	6.472275
#1	.3146715	.3119197	.0317594
#2	.3195970	.3138433	.0339510
#3	.3220885	.3129520	.0298313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2206.078	28981.97	2420.074	1889.548	1705.760
Stddev	1.156	87.32	22.766	7.405	.929
%RSD	.0524121	.3012932	.9407145	.3918860	.0544843
#1	2204.766	29077.22	2446.251	1897.476	1705.577
#2	2206.518	28963.00	2404.895	1888.356	1704.935
#3	2206.949	28905.70	2409.076	1882.811	1706.766

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-16DLX5 Acquired: 12/23/2024 17:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009327	.0177450	.0528372	-.016856	.0026297	5.702700	.1320265
Stddev	.0006755	.0017242	.0037121	.002135	.0022007	.053151	.0020531
%RSD	72.42323	9.716261	7.025494	12.66747	83.68655	.9320351	1.555046
#1	.0002650	.0163215	.0546134	-.018455	.0018752	5.720586	.1318812
#2	.0016158	.0196621	.0553275	-.014431	.0009055	5.744601	.1341484
#3	.0009174	.0172512	.0485708	-.017681	.0051084	5.642913	.1300500

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006667	.0005538	391.1175	.0103351	.0471602	.0641508	30.42196
Stddev	.0000444	.0000103	3.8141	.0005763	.0006831	.0029734	.30555
%RSD	6.657854	1.854769	.9751825	5.576417	1.448441	4.635022	1.004363
#1	.0006511	.0005547	390.1156	.0097760	.0479443	.0664220	30.15482
#2	.0007168	.0005636	395.3326	.0109272	.0468426	.0607853	30.75512
#3	.0006323	.0005431	387.9043	.0103020	.0466938	.0652450	30.35595

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.093490	6.989529	.0188217	.0033202	-1.14070	.0116487	.0746953
Stddev	.053928	.194578	.0005313	.0010813	.74686	.0039331	.0132093
%RSD	1.058755	2.783843	2.822674	32.56754	65.47364	33.76480	17.68426
#1	5.082765	7.017865	.0193081	.0039629	-.31458	.0071390	.0797692
#2	5.151975	7.168385	.0189022	.0020718	-1.76810	.0143691	.0846155
#3	5.045732	6.782337	.0182547	.0039259	-1.33943	.0134379	.0597014

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.025897	1.263697	-.006095	.0044129	.2535802	2.083267	.0073320
Stddev	.132980	.003655	.002724	.0002320	.0045061	.019112	.0023356
%RSD	513.4862	.2892300	44.69568	5.258004	1.776987	.9174286	31.85536
#1	-.146146	1.264601	-.009173	.0041614	.2566861	2.091219	.0100161
#2	.116924	1.259675	-.003996	.0044585	.2484121	2.097119	.0062179
#3	-.048470	1.266815	-.005116	.0046187	.2556426	2.061462	.0057621

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4979-16DLX5 Acquired: 12/23/2024 17:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJA4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0644568	.1957536	.0028274
Stddev	.0014886	.0017271	.0061235
%RSD	2.309471	.8822750	216.5751
#1	.0642472	.1958648	.0030606
#2	.0660391	.1974224	.0088311
#3	.0630841	.1939736	-.003409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.239	26882.11	2214.338	1761.711	1757.176
Stddev	9.033	88.49	16.213	10.535	4.860
%RSD	.4384374	.3291716	.7321845	.5980063	.2765797
#1	2053.796	26958.34	2217.106	1768.250	1752.804
#2	2070.564	26902.92	2196.918	1767.326	1762.409
#3	2056.357	26785.07	2228.988	1749.558	1756.314

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-03DLX5 Acquired: 12/23/2024 18:01:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057370	.0273425	.1641073	-.021582	.0024640	4.692069	.0442297
Stddev	.0010654	.0018230	.0015959	.006052	.0008477	.064492	.0017201
%RSD	18.57021	6.667179	.9724882	28.04120	34.40270	1.374492	3.889081
#1	.0046292	.0258511	.1650609	-.028487	.0017561	4.757707	.0441225
#2	.0058275	.0293747	.1622648	-.017203	.0034034	4.689713	.0460008
#3	.0067542	.0268017	.1649961	-.019055	.0022325	4.628788	.0425656

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007219	.0026029	387.1262	.0134872	.0426225	.0339332	23.04519
Stddev	.0001195	.0002101	4.8409	.0005856	.0006636	.0051505	.30104
%RSD	16.55369	8.071074	1.250472	4.341902	1.556939	15.17831	1.306307
#1	.0006412	.0028223	390.7082	.0139598	.0433455	.0335852	23.15006
#2	.0008592	.0024036	389.0516	.0128320	.0424811	.0289656	23.27976
#3	.0006653	.0025828	381.6189	.0136697	.0420411	.0392489	22.70573

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.782077	217.7175	.0218890	.0009018	-1.74912	.0150784	.5913069
Stddev	.035281	2.0756	.0005475	.0012701	.70239	.0073192	.0120487
%RSD	1.268154	.9533657	2.501132	140.8356	40.15678	48.54094	2.037639
#1	2.808799	218.7227	.0218923	.0020888	-2.30944	.0234124	.5776510
#2	2.795348	219.0992	.0224349	-.000438	-1.97678	.0096952	.5958311
#3	2.742085	215.3306	.0213400	.001054	-.96114	.0121276	.6004388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8623212	.6205152	.0115607	.0028469	4.888891	1.852058	.0164072
Stddev	.0668927	.0025199	.0011744	.0005251	.007890	.019058	.0008413
%RSD	7.757283	.4060994	10.15820	18.44387	.1613857	1.029019	5.127464
#1	.7883014	.6176063	.0123812	.0023179	4.887477	1.857377	.0164928
#2	.9184475	.6220299	.0120856	.0028550	4.881803	1.867892	.0155264
#3	.8802148	.6219095	.0102155	.0033679	4.897392	1.830906	.0172024

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-03DLX5 Acquired: 12/23/2024 18:01:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ72 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0631361	.1084760	.0104651
Stddev	.0047579	.0020535	.0036918
%RSD	7.535903	1.893083	35.27692
#1	.0590341	.1104928	.0083025
#2	.0683522	.1085477	.0083650
#3	.0620221	.1063876	.0147279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2003.054	26435.72	2153.862	1722.984	1693.400
Stddev	3.755	163.03	24.835	5.561	2.063
%RSD	.1874838	.6167024	1.153037	.3227272	.1218425
#1	2001.878	26268.91	2131.793	1718.716	1692.853
#2	2007.256	26594.68	2149.039	1729.272	1695.682
#3	2000.027	26443.57	2180.755	1720.965	1691.666

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-10DLX5 Acquired: 12/23/2024 18:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ86 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0605850	.0228003	.1700087	-.023223	.0049516	6.103151	.1350925
Stddev	.0035335	.0061664	.0055074	.004359	.0006976	.031139	.0003332
%RSD	5.832281	27.04520	3.239468	18.77012	14.08815	.5102078	.2466549
#1	.0630040	.0219210	.1669661	-.024793	.0055355	6.123395	.1347280
#2	.0622211	.0293592	.1666939	-.026580	.0051403	6.118763	.1353814
#3	.0565300	.0171208	.1763661	-.018297	.0041791	6.067294	.1351682

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008278	.0055968	339.4136	.0145827	.0440914	.0371306	26.49095
Stddev	.0002196	.0002049	.9030	.0006718	.0003974	.0037912	.07979
%RSD	26.52605	3.660715	.2660499	4.606708	.9013330	10.21056	.3011813
#1	.0008093	.0058111	338.5178	.0140318	.0436611	.0327854	26.41786
#2	.0010561	.0055764	340.3236	.0143851	.0441682	.0397645	26.57607
#3	.0006181	.0054028	339.3993	.0153311	.0444447	.0388418	26.47893

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.257891	181.8377	.0233745	.0010669	-.817469	.0232840	1.286003
Stddev	.007942	.6696	.0007933	.0005653	.479359	.0070472	.020421
%RSD	.3517393	.3682195	3.393798	52.98266	58.63938	30.26644	1.587918
#1	2.249948	181.2897	.0224617	.0016440	-.402360	.0214743	1.283503
#2	2.265832	182.5840	.0238976	.0010423	-1.34212	.0310597	1.266948
#3	2.257895	181.6394	.0237642	.0005143	-.70793	.0173181	1.307559

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7307005	.5939440	.0072030	.0039002	4.424863	2.260749	.0093082
Stddev	.0980866	.0034440	.0020497	.0005297	.025745	.015985	.0014886
%RSD	13.42364	.5798470	28.45667	13.58188	.5818235	.7070712	15.99215
#1	.6383791	.5901499	.0054680	.0045095	4.395136	2.279194	.0076302
#2	.7200409	.5968729	.0094646	.0036413	4.439535	2.252122	.0104700
#3	.8336816	.5948092	.0066763	.0035497	4.439918	2.250931	.0098244

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-10DLX5 Acquired: 12/23/2024 18:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ86 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0794060	.1092927	.0107353
Stddev	.0034369	.0002632	.0025799
%RSD	4.328298	.2407930	24.03204
#1	.0825856	.1090344	.0094238
#2	.0798728	.1092833	.0090746
#3	.0757595	.1095604	.0137075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2003.986	26420.89	2179.962	1718.547	1696.632
Stddev	4.296	109.25	14.107	5.232	2.817
%RSD	.2143683	.4134977	.6471170	.3044147	.1660054
#1	2008.892	26521.69	2171.885	1723.220	1699.878
#2	2002.168	26304.80	2171.751	1712.896	1694.832
#3	2000.899	26436.18	2196.251	1719.526	1695.187

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-16DLX5 Acquired: 12/23/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ90 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016155	.0211714	.1555485	-.019017	.0039210	9.235031	.1018236
Stddev	.0019151	.0013817	.0001157	.001919	.0032595	.070679	.0008791
%RSD	118.5441	6.526176	.0743937	10.09296	83.13156	.7653352	.8633669
#1	.0037472	.0195780	.1554206	-.016894	.0065176	9.183153	.1009831
#2	.0000401	.0218984	.1556459	-.020630	.0049822	9.315532	.1027368
#3	.0010592	.0220378	.1555790	-.019528	.0002630	9.206409	.1017508

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013633	.0059101	336.7644	.0162205	.0481439	.0444994	30.29759
Stddev	.0000766	.0001187	1.2856	.0003119	.0002583	.0041049	.03985
%RSD	5.617471	2.008162	.3817440	1.922648	.5365787	9.224553	.1315377
#1	.0012933	.0058616	335.3695	.0163963	.0483783	.0398221	30.25915
#2	.0014451	.0058234	337.9017	.0164047	.0478669	.0475029	30.33872
#3	.0013516	.0060454	337.0220	.0158604	.0481864	.0461732	30.29489

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.498647	154.5052	.0309664	.0018769	-1.58886	.0247675	.7513950
Stddev	.009064	1.0598	.0004783	.0007780	.61519	.0130789	.0064878
%RSD	.6048197	.6859180	1.544644	41.45096	38.71920	52.80643	.8634345
#1	1.488752	153.2946	.0311134	.0013923	-1.98556	.0342968	.7510515
#2	1.506549	155.2651	.0304318	.0014642	-.88018	.0301493	.7580477
#3	1.500640	154.9560	.0313539	.0027743	-1.90083	.0098564	.7450857

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.160694	.7325710	.0135246	.0033142	3.731418	2.387808	.0238188
Stddev	.125238	.0047748	.0018085	.0001006	.002914	.027596	.0023195
%RSD	10.78991	.6517885	13.37213	3.035644	.0780872	1.155700	9.738045
#1	1.061862	.7304731	.0115277	.0032457	3.728057	2.379831	.0264502
#2	1.118684	.7292044	.0139938	.0032673	3.733238	2.418513	.0220709
#3	1.301536	.7380356	.0150523	.0034297	3.732959	2.365078	.0229353

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-16DLX5 Acquired: 12/23/2024 18:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ90 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1201139	.1589147	.0168434
Stddev	.0063104	.0004581	.0041914
%RSD	5.253663	.2882676	24.88435
#1	.1155655	.1585003	.0187751
#2	.1273181	.1588373	.0197206
#3	.1174581	.1594066	.0120345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2005.387	26515.53	2188.316	1729.365	1691.741
Stddev	4.340	81.99	17.618	7.062	1.818
%RSD	.2164014	.3092223	.8051069	.4083861	.1074621
#1	2009.543	26453.39	2188.277	1734.765	1693.680
#2	2000.884	26608.45	2170.718	1731.958	1690.074
#3	2005.732	26484.73	2205.954	1721.373	1691.470

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-17DLX5 Acquired: 12/23/2024 18:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001144	.0218834	.1001292	-.022716	.0022613	4.694074	.0365601
Stddev	.003528	.0023040	.0005341	.005653	.0052613	.037639	.0019672
%RSD	308.2995	10.52848	.5333613	24.88635	232.6688	.8018367	5.380812
#1	-.004009	.0198849	.0995302	-.016826	-.003540	4.710262	.0358332
#2	-.002220	.0213618	.1005555	-.028098	.006725	4.720910	.0387874
#3	.002796	.0244034	.1003020	-.023224	.003598	4.651049	.0350598

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006381	.0011312	453.5277	.0125897	.0456604	.0333369	25.31832
Stddev	.0001096	.0000461	4.8618	.0004144	.0003140	.0021044	.19989
%RSD	17.17987	4.079410	1.071993	3.291473	.6876604	6.312580	.7895250
#1	.0005707	.0011809	458.6917	.0130682	.0458158	.0355571	25.47026
#2	.0005791	.0010896	452.8526	.0123559	.0458665	.0330822	25.39283
#3	.0007646	.0011231	449.0387	.0123452	.0452991	.0313714	25.09187

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.553243	243.9532	.0208744	.0008310	-1.48101	.0059413	.2274061
Stddev	.021844	2.7829	.0003145	.0006356	.78607	.0046389	.0040053
%RSD	.8555356	1.140771	1.506611	76.48530	53.07642	78.07925	1.761307
#1	2.567509	246.5519	.0212014	.0009943	-.64340	.0028093	.2319359
#2	2.564123	244.2911	.0208474	.0001297	-2.20266	.0037440	.2243330
#3	2.528095	241.0168	.0205742	.0013690	-1.59698	.0112706	.2259494

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408243	.4405781	.0181419	.0026596	5.664354	2.327144	.0103617
Stddev	.214565	.0023266	.0024663	.0009996	.014326	.024283	.0004377
%RSD	15.23639	.5280814	13.59417	37.58608	.2529139	1.043457	4.224607
#1	1.652706	.4392965	.0198757	.0031594	5.657618	2.344134	.0099948
#2	1.251126	.4391742	.0153185	.0015086	5.654638	2.337967	.0102440
#3	1.320898	.4432638	.0192316	.0033107	5.680806	2.299332	.0108462

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4980-17DLX5 Acquired: 12/23/2024 18:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0314786	.1514442	.0100129
Stddev	.0035091	.0019775	.0012568
%RSD	11.14772	1.305745	12.55177
#1	.0349694	.1536218	.0095305
#2	.0279514	.1509505	.0114394
#3	.0315152	.1497604	.0090687

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1976.700	26005.64	2169.342	1695.912	1651.054
Stddev	1.664	108.81	27.407	5.694	1.254
%RSD	.0842010	.4183925	1.263372	.3357429	.0759382
#1	1977.364	25888.18	2143.030	1689.547	1651.362
#2	1977.929	26102.99	2167.270	1697.668	1652.125
#3	1974.806	26025.75	2197.726	1700.521	1649.675

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-05DLX5 Acquired: 12/23/2024 18:17:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226031	.0209468	.3716582	-.018030	.0060458	5.897618	.1377004
Stddev	.0086974	.0019438	.0024688	.003669	.0014482	.026967	.0014637
%RSD	38.47890	9.279559	.6642547	20.34997	23.95419	.4572523	1.062948
#1	.0326283	.0188573	.3742495	-.020741	.0047539	5.869512	.1361416
#2	.0170741	.0212820	.3713915	-.019493	.0057722	5.923279	.1379140
#3	.0181069	.0227013	.3693336	-.013855	.0076113	5.900062	.1390455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009900	.0019697	334.3900	.0132414	.0446768	.0478666	25.80582
Stddev	.0001259	.0001366	1.1263	.0012027	.0005665	.0052376	.09185
%RSD	12.71462	6.933928	.3368253	9.082489	1.268061	10.94200	.3559151
#1	.0008487	.0018749	333.1206	.0143392	.0441764	.0536627	25.74587
#2	.0010310	.0021263	335.2699	.0134290	.0445620	.0434733	25.76002
#3	.0010902	.0019080	334.7794	.0119560	.0452919	.0464638	25.91156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.316658	40.63615	.0235315	.0016276	-1.63794	.0188023	.8472718
Stddev	.003623	.03281	.0004348	.0009550	.32030	.0015145	.0160977
%RSD	.1563776	.0807452	1.847572	58.67430	19.55535	8.055100	1.899943
#1	2.317792	40.60807	.0238742	.0023691	-1.29554	.0185101	.8550156
#2	2.319578	40.67222	.0236777	.0019637	-1.93025	.0204416	.8287657
#3	2.312604	40.62817	.0230424	.0005500	-1.68802	.0174551	.8580342

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015824	.6131991	-.002831	.0041346	.7665672	1.609571	.0098603
Stddev	.121805	.0003460	.000828	.0013735	.0066971	.011187	.0010655
%RSD	769.7650	.0564208	29.25961	33.21997	.8736491	.6950179	10.80621
#1	.097826	.6135969	-.002966	.0056981	.7592319	1.600022	.0105108
#2	-.144408	.6130317	-.001944	.0031224	.7723554	1.621879	.0086306
#3	-.000889	.6129685	-.003584	.0035833	.7681144	1.606812	.0104395

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-05DLX5 Acquired: 12/23/2024 18:17:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJ37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1198300	.1746341	.0037550
Stddev	.0057349	.0012565	.0002215
%RSD	4.785838	.7195249	5.898616
#1	.1157418	.1731856	.0040102
#2	.1173626	.1752848	.0036421
#3	.1263856	.1754317	.0036128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2065.326	27221.26	2221.234	1791.741	1766.403
Stddev	2.873	75.84	7.483	6.546	3.689
%RSD	.1390962	.2785986	.3368961	.3653631	.2088619
#1	2068.463	27159.25	2229.593	1784.359	1770.020
#2	2062.823	27305.81	2215.157	1794.026	1762.646
#3	2064.692	27198.72	2218.952	1796.839	1766.543

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-15DLX5 Acquired: 12/23/2024 18:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006336	.0255890	.0239070	-.022070	.0039486	7.279945	.1139026
Stddev	.004903	.0030226	.0012878	.003073	.0039360	.026499	.0013753
%RSD	77.38642	11.81200	5.386596	13.92610	99.68098	.3640032	1.207393
#1	-.006623	.0260230	.0249155	-.019658	.0083670	7.273431	.1142989
#2	-.011090	.0283711	.0243491	-.025530	.0008171	7.309093	.1123727
#3	-.001296	.0223729	.0224564	-.021021	.0026617	7.257310	.1150361

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005279	.0004352	348.0983	.0110267	.0447438	.0323766	24.10949
Stddev	.0000680	.0000965	.4110	.0007535	.0006305	.0040193	.09009
%RSD	12.87663	22.18240	.1180817	6.832937	1.409170	12.41405	.3736502
#1	.0004512	.0003881	347.7725	.0118131	.0448591	.0361934	24.04856
#2	.0005807	.0003712	347.9624	.0109558	.0440636	.0327547	24.06695
#3	.0005518	.0005462	348.5601	.0103112	.0453088	.0281817	24.21297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.183944	15.72498	.0190209	.0020932	-1.13400	.0196697	.0453291
Stddev	.002629	.01052	.0004018	.0008179	.46225	.0071874	.0084383
%RSD	.0825548	.0669187	2.112405	39.07310	40.76246	36.54047	18.61567
#1	3.185233	15.72453	.0193786	.0016900	-.75652	.0250094	.0438379
#2	3.180920	15.73572	.0185862	.0015552	-.99594	.0114976	.0544137
#3	3.185678	15.71469	.0190980	.0030344	-1.64955	.0225019	.0377358

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1618295	.8982922	-.001056	.0018135	.2264604	1.865390	.0047267
Stddev	.0596994	.0037460	.001761	.0005357	.0063049	.009365	.0016946
%RSD	36.89031	.4170129	166.7972	29.53853	2.784099	.5020465	35.85155
#1	.1932370	.8980732	-.001474	.0023549	.2318357	1.854640	.0053545
#2	.0929826	.8946604	-.002571	.0012837	.2280248	1.871778	.0060178
#3	.1992689	.9021428	.000877	.0018020	.2195205	1.869753	.0028078

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-15DLX5 Acquired: 12/23/2024 18:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJE9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1336103	.1877428	.0045604
Stddev	.0025151	.0005535	.0044469
%RSD	1.882434	.2948125	97.51124
#1	.1357562	.1877865	-.000452
#2	.1308426	.1871687	.008030
#3	.1342321	.1882731	.006103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.576	26926.17	2208.888	1768.536	1766.309
Stddev	2.007	211.81	5.146	10.813	1.845
%RSD	.0976608	.7866444	.2329512	.6113850	.1044293
#1	2056.319	26759.54	2205.955	1767.359	1767.012
#2	2055.025	27164.54	2214.829	1779.889	1767.699
#3	2052.382	26854.43	2205.879	1758.360	1764.216

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-16DLX5 Acquired: 12/23/2024 18:24:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011489	.0231043	.0906633	-.022388	.0055530	8.664271	.1426636
Stddev	.0060340	.0009636	.0030849	.000592	.0029060	.048648	.0009306
%RSD	525.2159	4.170529	3.402582	2.643681	52.33179	.5614725	.6522683
#1	.0063828	.0235678	.0873997	-.022932	.0081954	8.677331	.1427698
#2	.0025148	.0219965	.0935314	-.021757	.0024406	8.610427	.1416844
#3	-.005451	.0237485	.0910586	-.022475	.0060231	8.705056	.1435364

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006892	.0006221	545.5678	.0123917	.0521600	.0261224	29.53548
Stddev	.0000434	.0001063	1.5207	.0004670	.0005052	.0041996	.04830
%RSD	6.297997	17.08707	.2787336	3.768783	.9686165	16.07666	.1635249
#1	.0007387	.0005702	546.6087	.0128501	.0522642	.0218745	29.58910
#2	.0006575	.0005517	543.8227	.0124083	.0526050	.0302719	29.49539
#3	.0006715	.0007443	546.2721	.0119166	.0516108	.0262207	29.52195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.814508	24.22157	.0218252	.0011876	-1.76879	.0161265	.0678452
Stddev	.023787	.20716	.0005138	.0004005	.29092	.0070007	.0114030
%RSD	.4940793	.8552577	2.353960	33.72211	16.44763	43.41142	16.80732
#1	4.833459	24.38887	.0219429	.0012519	-1.44355	.0096620	.0731672
#2	4.787813	23.98986	.0222699	.0015520	-1.85860	.0235621	.0547542
#3	4.822252	24.28598	.0212628	.0007589	-2.00423	.0151554	.0756142

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2235889	1.108999	-.004211	.0020056	.3098742	1.871246	.0103254
Stddev	.1269002	.002092	.000564	.0007247	.0027718	.004652	.0008936
%RSD	56.75602	.1886127	13.39276	36.13518	.8945018	.2485946	8.654610
#1	.0798386	1.107164	-.004389	.0017907	.3068597	1.876552	.0113551
#2	.2708562	1.108558	-.004664	.0014126	.3123130	1.867868	.0097530
#3	.3200719	1.111277	-.003579	.0028135	.3104499	1.869319	.0098681

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P4982-16DLX5 Acquired: 12/23/2024 18:24:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJF0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1524840	.2716635	.0062823
Stddev	.0030215	.0007260	.0051675
%RSD	1.981498	.2672346	82.25474
#1	.1527913	.2719379	.0003187
#2	.1493206	.2722122	.0090934
#3	.1553400	.2708403	.0094350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.959	26931.27	2232.617	1769.306	1720.552
Stddev	3.967	95.57	9.154	8.508	1.359
%RSD	.1930634	.3548645	.4099979	.4808794	.0789640
#1	2057.128	26839.62	2222.112	1761.231	1720.827
#2	2050.380	26923.88	2238.880	1768.498	1719.077
#3	2057.369	27030.33	2236.860	1778.190	1721.752

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-02DLX5 Acquired: 12/23/2024 18:28:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006893	.0264219	.1036589	-.022874	.0012420	2.581575	.0292457
Stddev	.004469	.0029227	.0027456	.005176	.0034332	.007291	.0013540
%RSD	64.83191	11.06176	2.648660	22.62966	276.4203	.2824228	4.629769
#1	-.010482	.0288619	.1010295	-.017229	.0001943	2.574070	.0304199
#2	-.001888	.0272211	.1065075	-.023994	.0050770	2.582023	.0277646
#3	-.008310	.0231827	.1034397	-.027398	-.001545	2.588631	.0295526

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004618	.0020878	369.3511	.0088495	.0417532	.0134405	18.00434
Stddev	.0000880	.0001190	1.5519	.0012960	.0006105	.0108501	.06258
%RSD	19.06043	5.700875	.4201697	14.64475	1.462179	80.72706	.3475752
#1	.0003625	.0022230	370.9368	.0097862	.0415588	.0010116	18.05875
#2	.0004926	.0019991	367.8353	.0073705	.0424372	.0210210	17.93596
#3	.0005303	.0020412	369.2813	.0093919	.0412635	.0182888	18.01832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.169048	211.2909	.0126973	.0008239	-1.39631	.0132469	.4506616
Stddev	.010796	1.0545	.0012656	.0009390	1.03705	.0036682	.0101771
%RSD	.4977083	.4990629	9.967737	113.9659	74.27103	27.69120	2.258259
#1	2.181413	212.4012	.0122120	.0019069	-2.50151	.0110788	.4415446
#2	2.164229	210.3030	.0141338	.0002368	-1.24292	.0111798	.4487988
#3	2.161501	211.1684	.0117462	.0003280	-.44449	.0174822	.4616414

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554634	.3325242	.0090548	.0026794	3.399589	1.532068	.0177411
Stddev	.1021573	.0010877	.0015911	.0006932	.002072	.009750	.0010457
%RSD	22.42930	.3271126	17.57141	25.87115	.0609434	.6364031	5.893955
#1	.5554976	.3337761	.0076815	.0029705	3.400306	1.541652	.0187741
#2	.3513078	.3319860	.0107984	.0018881	3.397254	1.522160	.0166832
#3	.4595847	.3318105	.0086845	.0031796	3.401208	1.532391	.0177660

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-02DLX5 Acquired: 12/23/2024 18:28:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0215785	.0982554	.0034053
Stddev	.0068394	.0001775	.0031597
%RSD	31.69549	.1806926	92.78749
#1	.0194054	.0981370	.0001185
#2	.0160896	.0981697	.0036769
#3	.0292404	.0984596	.0064204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1980.491	26243.33	2141.887	1708.454	1682.653
Stddev	7.437	174.24	12.501	13.373	3.027
%RSD	.3755091	.6639214	.5836414	.7827751	.1799154
#1	1983.758	26277.47	2130.056	1709.931	1683.198
#2	1971.980	26054.55	2140.641	1694.403	1679.391
#3	1985.735	26397.97	2154.964	1721.027	1685.372

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-03DLX5 Acquired: 12/23/2024 18:32:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006588	.0239341	.0831343	-.027282	.0048211	2.092789	.0515776
Stddev	.0025659	.0028377	.0020080	.001557	.0020763	.013461	.0010544
%RSD	389.4796	11.85624	2.415333	5.707520	43.06622	.6431880	2.044257
#1	-.000925	.0239403	.0848069	-.029075	.0071875	2.093727	.0526407
#2	-.000717	.0210934	.0809074	-.026265	.0033051	2.078884	.0515600
#3	.003619	.0267688	.0836886	-.026507	.0039706	2.105756	.0505321

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005163	.0011742	406.4793	.0068278	.0427413	.0202370	18.44085
Stddev	.0000813	.0001988	1.3190	.0005156	.0004960	.0047089	.03997
%RSD	15.74160	16.93308	.3244830	7.551236	1.160389	23.26899	.2167640
#1	.0004235	.0009865	404.9678	.0072002	.0433050	.0254309	18.39674
#2	.0005749	.0011535	407.3968	.0062393	.0425467	.0190335	18.45115
#3	.0005505	.0013825	407.0734	.0070439	.0423721	.0162466	18.47467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.333547	230.2255	.0118840	.0008289	-.737505	.0055717	.2468732
Stddev	.008605	.6767	.0003246	.0008820	.747251	.0126021	.0127078
%RSD	.3687699	.2939333	2.731000	106.4024	101.3214	226.1807	5.147499
#1	2.332657	229.4583	.0117803	-.000188	-.971743	.0187854	.2533689
#2	2.325421	230.4808	.0116241	.001285	.098803	.0042434	.2550203
#3	2.342563	230.7375	.0122478	.001389	-1.33958	-.006314	.2322306

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4504427	.2353978	.0082981	.0028320	3.831516	1.329660	.0068418
Stddev	.2572071	.0023870	.0011284	.0003046	.003180	.004212	.0006967
%RSD	57.10095	1.014046	13.59874	10.75670	.0829892	.3168014	10.18359
#1	.1661581	.2334686	.0094793	.0025148	3.834729	1.324892	.0076364
#2	.6670308	.2346576	.0081840	.0031223	3.828371	1.331210	.0065534
#3	.5181392	.2380673	.0072311	.0028588	3.831447	1.332878	.0063356

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-03DLX5 Acquired: 12/23/2024 18:32:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0131964	.1083045	-.001472
Stddev	.0037222	.0003315	.002711
%RSD	28.20582	.3060529	184.1502
#1	.0174416	.1079375	.001302
#2	.0116553	.1083939	-.004116
#3	.0104923	.1085821	-.001603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.389	25827.64	2131.022	1683.279	1664.981
Stddev	2.605	46.39	7.927	2.632	2.711
%RSD	.1327591	.1796185	.3719745	.1563615	.1628178
#1	1959.384	25799.22	2128.625	1681.107	1662.001
#2	1964.016	25802.54	2124.571	1682.524	1667.300
#3	1963.766	25881.18	2139.871	1686.206	1665.642

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-04DLX5 Acquired: 12/23/2024 18:36:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005392	.0284961	.3428788	-.027982	.0019532	1.849447	.0169262
Stddev	.003198	.0099637	.0003997	.003763	.0023027	.044669	.0011402
%RSD	59.30839	34.96516	.1165861	13.44914	117.8941	2.415248	6.736368
#1	-.006055	.0236701	.3426340	-.023933	.0003828	1.832293	.0170806
#2	-.008207	.0218643	.3433401	-.028640	.0008802	1.815898	.0179814
#3	-.001915	.0399538	.3426623	-.031373	.0045966	1.900150	.0157167

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003907	.0021180	400.9978	.0060913	.0415626	.0140085	19.11426
Stddev	.0001774	.0001023	1.6440	.0009120	.0006374	.0059930	.06186
%RSD	45.41367	4.831638	.4099824	14.97232	1.533624	42.78135	.3236367
#1	.0002095	.0020740	399.6815	.0054139	.0410097	.0072886	19.05477
#2	.0005640	.0020451	402.8406	.0071283	.0414183	.0187997	19.17825
#3	.0003985	.0022350	400.4714	.0057316	.0422597	.0159372	19.10976

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.434269	226.7441	.0104844	.0009095	-1.68723	.0157431	.4024766
Stddev	.009964	.7858	.0006136	.0015893	.16661	.0085271	.0025201
%RSD	.4093367	.3465602	5.852137	174.7575	9.874993	54.16403	.6261503
#1	2.425023	226.2362	.0106273	-.000898	-1.49798	.0183129	.4052008
#2	2.444823	227.6492	.0098121	.002089	-1.75188	.0062266	.4020005
#3	2.432962	226.3468	.0110140	.001538	-1.81183	.0226897	.4002285

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4038307	.2047228	.0060053	.0022968	4.996913	1.208607	.0061608
Stddev	.1237583	.0007154	.0025671	.0009255	.004010	.009544	.0015689
%RSD	30.64608	.3494618	42.74638	40.29541	.0802538	.7896987	25.46615
#1	.4391596	.2049742	.0059355	.0024116	4.992363	1.200362	.0045142
#2	.5060829	.2039157	.0086066	.0013193	4.998442	1.219063	.0063298
#3	.2662496	.2052787	.0034739	.0031597	4.999934	1.206396	.0076384

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-04DLX5 Acquired: 12/23/2024 18:36:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0080596	.1036663	-.001116
Stddev	.0037114	.0004663	.004007
%RSD	46.04919	.4498189	358.9712
#1	.0113432	.1031356	-.005108
#2	.0088029	.1040105	-.001148
#3	.0040329	.1038529	.002907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1967.820	25909.71	2144.393	1685.646	1665.735
Stddev	3.498	56.83	16.036	9.275	2.406
%RSD	.1777674	.2193468	.7478331	.5502290	.1444689
#1	1964.583	25895.73	2154.954	1676.623	1664.339
#2	1971.531	25861.18	2125.940	1685.162	1668.514
#3	1967.347	25972.23	2152.285	1695.154	1664.352

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-05DLX5 Acquired: 12/23/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001754	.0292548	.0714621	-.027320	.0052688	1.966409	.0165149
Stddev	.007529	.0015165	.0054422	.006557	.0007328	.025391	.0020055
%RSD	429.2260	5.183803	7.615546	24.00119	13.90860	1.291212	12.14343
#1	.000986	.0302044	.0694556	-.022657	.0056176	1.993899	.0150441
#2	.004021	.0300543	.0776227	-.024486	.0057621	1.943838	.0157012
#3	-.010270	.0275059	.0673080	-.034818	.0044268	1.961490	.0187993

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003757	.0186755	418.7312	.0068313	.0423623	.0194529	18.92598
Stddev	.0000860	.0000826	.7962	.0006851	.0004296	.0108785	.13553
%RSD	22.88863	.4423436	.1901445	10.02908	1.014055	55.92205	.7161005
#1	.0002850	.0186403	419.6488	.0075885	.0421014	.0070307	18.90387
#2	.0003859	.0186164	418.3216	.0066513	.0421274	.0240495	19.07121
#3	.0004561	.0187699	418.2231	.0062542	.0428581	.0272786	18.80287

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.454974	234.9157	.0098374	.0012096	-1.59853	.0028560	3.852280
Stddev	.009342	.9821	.0007622	.0013931	.56441	.0166762	.029183
%RSD	.3805497	.4180559	7.748197	115.1664	35.30825	583.8986	.7575629
#1	2.465439	235.9520	.0106580	-.000121	-2.24376	-.000013	3.833072
#2	2.452010	234.7963	.0097026	.001092	-1.19643	.020781	3.885862
#3	2.447473	233.9988	.0091515	.002658	-1.35539	-.012200	3.837906

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3193399	.2093327	.0089925	.0036428	5.622400	1.260976	.0100429
Stddev	.0758014	.0022090	.0007031	.0006370	.021818	.003038	.0021429
%RSD	23.73690	1.055261	7.818540	17.48653	.3880619	.2408983	21.33741
#1	.4059523	.2089887	.0086966	.0039530	5.599235	1.264182	.0087107
#2	.2869681	.2073159	.0097952	.0029101	5.642560	1.258141	.0089031
#3	.2650992	.2116936	.0084857	.0040652	5.625406	1.260604	.0125148

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-05DLX5 Acquired: 12/23/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0138904	.1115539	-.002674
Stddev	.0026093	.0004794	.002096
%RSD	18.78460	.4297054	78.35603
#1	.0117930	.1119952	-.001472
#2	.0130658	.1110439	-.001457
#3	.0168123	.1116226	-.005094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1932.187	25410.79	2099.174	1655.376	1631.970
Stddev	4.890	15.80	11.434	7.251	4.875
%RSD	.2530689	.0621869	.5447029	.4380303	.2987094
#1	1936.924	25405.59	2086.600	1655.929	1636.259
#2	1927.157	25398.24	2108.949	1647.864	1626.668
#3	1932.481	25428.54	2101.973	1662.334	1632.983

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-06DLX5 Acquired: 12/23/2024 18:44:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008676	.0226404	.0944708	-.032731	.0021269	4.451889	.0811229
Stddev	.004714	.0059048	.0018119	.005391	.0019453	.041038	.0016150
%RSD	54.33664	26.08070	1.917927	16.47145	91.45956	.9218180	1.990773
#1	-.010056	.0203426	.0962458	-.038853	.0043041	4.405148	.0793247
#2	-.003426	.0293487	.0926242	-.028692	.0005597	4.482014	.0815942
#3	-.012547	.0182300	.0945425	-.030648	.0015170	4.468503	.0824498

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005323	.0014468	399.9398	.0089355	.0415246	.0185599	17.95015
Stddev	.0000474	.0002024	2.1771	.0011417	.0003250	.0068211	.14571
%RSD	8.907792	13.98858	.5443664	12.77704	.7825879	36.75210	.8117479
#1	.0005868	.0012689	397.4531	.0084091	.0416618	.0133035	17.78353
#2	.0005003	.0016670	401.5027	.0081520	.0411535	.0262680	18.01316
#3	.0005098	.0014046	400.8637	.0102455	.0417584	.0161082	18.05374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.460626	191.5481	.0117640	.0007527	-1.25869	.0102571	.3186947
Stddev	.023361	1.0303	.0003556	.0011149	.54851	.0009830	.0106128
%RSD	.9494059	.5378594	3.022784	148.1298	43.57795	9.583704	3.330077
#1	2.435356	190.3601	.0120467	.0017663	-1.36521	.0113863	.3115157
#2	2.465088	192.1959	.0118805	-.000441	-1.74612	.0095923	.3308852
#3	2.481435	192.0883	.0113648	.000933	-.66473	.0097928	.3136831

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1885476	.3389806	.0069871	.0030204	3.309096	2.238938	.0063669
Stddev	.0725911	.0008056	.0005738	.0007197	.014024	.010114	.0024087
%RSD	38.50017	.2376667	8.212196	23.82799	.4237999	.4517257	37.83221
#1	.2536585	.3389422	.0074085	.0024546	3.323988	2.234036	.0083473
#2	.1102767	.3398047	.0063336	.0038304	3.296141	2.250569	.0036854
#3	.2017075	.3381948	.0072192	.0027762	3.307161	2.232210	.0070679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5008-06DLX5 Acquired: 12/23/2024 18:44:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJJ6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1147140	.2399615	-.000647
Stddev	.0000620	.0014461	.004746
%RSD	.0540509	.6026351	733.7122
#1	.1146845	.2382998	-.004653
#2	.1146722	.2409346	.004595
#3	.1147852	.2406502	-.001883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1961.832	25979.67	2144.821	1689.362	1665.091
Stddev	5.606	76.02	10.513	6.033	3.010
%RSD	.2857545	.2926277	.4901435	.3571164	.1807778
#1	1957.912	26062.96	2146.123	1696.135	1662.100
#2	1968.253	25962.05	2133.717	1684.564	1668.120
#3	1959.331	25914.01	2154.621	1687.387	1665.053

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5183-20ADLX2 Acquired: 12/23/2024 18:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZD8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4622246	-.125572	.3200555	.2386648	.1061540	183.9073	.3382911
Stddev	.0028728	.003315	.0008298	.0033250	.0012954	.3021	.0016271
%RSD	.6215253	2.640221	.2592740	1.393178	1.220323	.1642690	.4809657
#1	.4597157	-.121746	.3191407	.2414436	.1047973	184.2495	.3376592
#2	.4653585	-.127583	.3207597	.2349810	.1062868	183.6778	.3370749
#3	.4615997	-.127389	.3202662	.2395700	.1073780	183.7945	.3401394

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091249	.0107177	45.45790	2.233864	.3046100	5.353763	420.1484
Stddev	.0000772	.0001011	.15928	.006527	.0008565	.032041	1.0481
%RSD	.8458250	.9432726	.3503807	.2921972	.2811899	.5984833	.2494526
#1	.0090454	.0106028	45.64096	2.240609	.3041272	5.388692	421.2781
#2	.0091299	.0107933	45.38176	2.227579	.3041038	5.325733	419.2077
#3	.0091995	.0107569	45.35099	2.233404	.3055989	5.346864	419.9594

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.456250	139.1851	.5066699	.0087880	-.829030	1.012571	.7079383
Stddev	.019180	1.0326	.0005655	.0007269	.561301	.016202	.0106370
%RSD	.2572323	.7418801	.1116098	8.271586	67.70575	1.600115	1.502535
#1	7.477531	140.3548	.5072918	.0079991	-.861620	1.017054	.7085648
#2	7.440299	138.8008	.5065313	.0094306	-.252144	.994599	.6970019
#3	7.450920	138.3998	.5061867	.0089344	-1.37333	1.026060	.7182483

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6703665	2.177076	-.079826	-.000822	.3330764	7.326280	.0462852
Stddev	.1277364	.005174	.004894	.001054	.0056440	.028637	.0010134
%RSD	19.05471	.2376515	6.130385	128.2659	1.694518	.3908864	2.189557
#1	.5427411	2.178425	-.076121	-.000012	.3324964	7.355264	.0455108
#2	.6701450	2.171362	-.085373	-.000439	.3389881	7.325573	.0474322
#3	.7982136	2.181442	-.077984	-.002013	.3277448	7.298002	.0459127

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5183-20ADLX2 Acquired: 12/23/2024 18:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYCZD8A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	6.569096	-.277067	.0696705
Stddev	.022876	.000249	.0020130
%RSD	.3482440	.0897404	2.889298
#1	6.594770	-.277314	.0676762
#2	6.561643	-.276816	.0696337
#3	6.550876	-.277072	.0717016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2209.135	28921.21	2385.876	1901.142	1844.768
Stddev	3.491	149.41	16.091	5.571	2.815
%RSD	.1580306	.5165957	.6744416	.2930466	.1526060
#1	2207.209	28754.55	2368.431	1896.206	1844.178
#2	2213.165	29043.14	2389.059	1900.036	1847.832
#3	2207.031	28965.93	2400.138	1907.183	1842.295

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-04A Acquired: 12/23/2024 18:52:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJQ3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0692813	.0130976	.1886873	.1476454	.0299546	66.99090
Stddev	.0019867	.0049091	.0029220	.0068575	.0038345	.21676
%RSD	2.867542	37.48095	1.548608	4.644593	12.80086	.3235722
#1	.0673447	.0148292	.1867491	.1479207	.0343770	66.76110
#2	.0713145	.0169063	.1872645	.1543611	.0275565	67.01988
#3	.0691848	.0075574	.1920482	.1406543	.0279304	67.19171

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7823254	.0053926	.0069907	231.7730	.1135590	.1302838
Stddev	.0017531	.0000602	.0001570	.7668	.0013025	.0006049
%RSD	.2240886	1.116881	2.245248	.3308621	1.146976	.4643172
#1	.7805054	.0054534	.0068154	231.3378	.1150009	.1304758
#2	.7824681	.0053914	.0071180	231.3227	.1124677	.1307695
#3	.7840029	.0053329	.0070388	232.6584	.1132085	.1296062

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4081013	154.2592	12.07134	94.91377	.2084822	.0054240
Stddev	.0114847	.3507	.02191	.10022	.0009122	.0010219
%RSD	2.814171	.2273565	.1815161	.1055856	.4375493	18.84041
#1	.4119879	153.9318	12.07703	94.99411	.2090392	.0045911
#2	.3951776	154.2165	12.04714	94.80147	.2089778	.0065643
#3	.4171384	154.6294	12.08984	94.94572	.2074294	.0051166

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.368396	.1677963	1.805927	7.607620	F 11.58929	.0045136
Stddev	.321640	.0052534	.030858	.049560	.00932	.0021253
%RSD	87.30817	3.130800	1.708716	.6514494	.0804156	47.08652
#1	-.714905	.1626056	1.808810	7.564221	11.59081	.0037846
#2	-.079379	.1731101	1.773728	7.661624	11.57930	.0028487
#3	-.310905	.1676731	1.835242	7.597015	11.59775	.0069074

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5009-04A Acquired: 12/23/2024 18:52:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHJQ3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049444	1.939975	8.477367	.0280806	1.359144	.0862852
Stddev	.0001221	.006495	.059182	.0035640	.004462	.0005818
%RSD	2.469035	.3348099	.6981203	12.69205	.3282989	.6742190
#1	.0049874	1.939115	8.512747	.0246943	1.361166	.0856329
#2	.0048067	1.946857	8.510312	.0277486	1.354029	.0867504
#3	.0050392	1.933952	8.409044	.0317991	1.362237	.0864723

Elem	Li6707
Units	ppm
Avg	.1147043
Stddev	.0033077
%RSD	2.883636
#1	.1159101
#2	.1172399
#3	.1109629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.371	32462.53	2690.801	2115.998	1719.197
Stddev	7.232	162.59	20.131	9.359	2.746
%RSD	.2921628	.5008653	.7481368	.4423203	.1597477
#1	2469.697	32363.45	2683.509	2108.460	1716.606
#2	2472.902	32373.96	2675.333	2113.059	1718.907
#3	2483.515	32650.18	2713.562	2126.474	1722.076

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-07A Acquired: 12/23/2024 18:56:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1795409	-.078437	1.137132	.1788945	.0467682	103.0509	.7920809
Stddev	.0037665	.006947	.005839	.0024412	.0012444	.8388	.0056524
%RSD	2.097865	8.856630	.5134479	1.364599	2.660851	.8139732	.7136081
#1	.1804175	-.070839	1.136677	.1816549	.0473657	102.2228	.7857364
#2	.1754134	-.080009	1.143185	.1770197	.0453377	103.0300	.7939268
#3	.1827919	-.084464	1.131534	.1780089	.0476012	103.9000	.7965796

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096993	.0081117	85.44023	.1526382	.1595219	.2967148	236.1313
Stddev	.0000646	.0000954	.56159	.0003751	.0005814	.0069019	1.7849
%RSD	.6657112	1.176535	.6572862	.2457245	.3644430	2.326108	.7558931
#1	.0096308	.0081481	84.85558	.1530625	.1601307	.2984551	234.1641
#2	.0097080	.0080034	85.48962	.1523507	.1594623	.3025800	236.5825
#3	.0097591	.0081836	85.97549	.1525015	.1589726	.2891093	237.6473

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.34341	33.54203	.2030754	.0087099	-.735231	.2286230	1.104654
Stddev	.11722	.15741	.0009069	.0005016	1.162032	.0046776	.021903
%RSD	.7172089	.4692783	.4466020	5.759194	158.0499	2.045973	1.982799
#1	16.22376	33.36147	.2030452	.0089176	-1.99239	.2324092	1.120067
#2	16.34844	33.61427	.2039971	.0081378	-.51284	.2233940	1.079582
#3	16.45803	33.65034	.2021840	.0090743	.29953	.2300657	1.114315

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.136192	3.651235	-.012288	.0062380	1.535114	11.85546	.0436749
Stddev	.126574	.012801	.002448	.0003201	.010950	.11726	.0011499
%RSD	2.464359	.3505830	19.92379	5.131180	.7133196	.9890806	2.632744
#1	5.076262	3.639415	-.013500	.0065953	1.530566	11.72914	.0445724
#2	5.281601	3.664831	-.013894	.0061413	1.547605	11.96083	.0423788
#3	5.050713	3.649459	-.009470	.0059774	1.527170	11.87643	.0440735

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5028-07A Acquired: 12/23/2024 18:56:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK40A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7919357	-.014884	.0877152
Stddev	.0033345	.000544	.0024420
%RSD	.4210625	3.656071	2.784039
#1	.7933823	-.014288	.0905091
#2	.7881222	-.015010	.0859879
#3	.7943027	-.015355	.0866486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2740.530	35584.75	2872.882	2359.523	1859.512
Stddev	7.988	107.57	12.351	15.059	9.372
%RSD	.2914716	.3022998	.4299292	.6382343	.5039976
#1	2739.606	35463.14	2886.790	2342.958	1860.714
#2	2733.045	35667.47	2863.194	2372.387	1849.597
#3	2748.940	35623.63	2868.661	2363.222	1868.225

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 12/23/2024 19:00:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.019509	4.821603	24.42597	4.875769	4.851593	399.7338	10.08989
Stddev	.023783	.005401	.06830	.006974	.009453	1.7724	.03393
%RSD	.4738149	.1120076	.2796274	.1430278	.1948371	.4433912	.3362843
#1	4.993833	4.815518	24.34717	4.868180	4.843200	398.2401	10.06685
#2	5.023908	4.823466	24.46265	4.881895	4.849748	399.2690	10.07397
#3	5.040785	4.825825	24.46810	4.877232	4.861833	401.6923	10.12885

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5057061	2.454921	407.7454	15.31886	2.452838	15.08147	411.9755
Stddev	.0074066	.006038	1.7317	.02561	.005936	.05396	2.5316
%RSD	1.464598	.2459713	.4247025	.1671833	.2419997	.3578049	.6145055
#1	.4972752	2.448134	406.2024	15.34740	2.446440	15.05890	409.8047
#2	.5086780	2.459699	407.4154	15.31126	2.458166	15.04246	411.3653
#3	.5111651	2.456929	409.6183	15.29790	2.453908	15.14306	414.7564

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.00170	407.0850	2.479428	1.281834	404.3539	2.534611	15.47284
Stddev	.03900	1.8423	.003329	.002162	3.2269	.006036	.13283
%RSD	.2599990	.4525540	.1342604	.1686488	.7980417	.2381519	.8584841
#1	14.97020	405.4680	2.475659	1.284135	402.2385	2.535253	15.61449
#2	14.98956	406.6964	2.481969	1.279846	402.7551	2.528280	15.45297
#3	15.04533	409.0906	2.480655	1.281520	408.0680	2.540301	15.35106

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.8999	4.926005	4.829114	4.868374	4.889106	4.762549	4.962740
Stddev	.4358	.011972	.054141	.011856	.012509	.056815	.014097
%RSD	.2888269	.2430299	1.121136	.2435240	.2558560	1.192963	.2840483
#1	150.5456	4.915963	4.772093	4.863841	4.875045	4.697926	4.951286
#2	150.7676	4.939253	4.835426	4.859454	4.898998	4.785071	4.978483
#3	151.3866	4.922798	4.879822	4.881828	4.893275	4.804651	4.958451

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 12/23/2024 19:00:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.999172	4.743997	5.064694
Stddev	.024382	.015818	.024304
%RSD	.4877159	.3334417	.4798645
#1	4.986671	4.728339	5.043354
#2	4.983577	4.743682	5.059579
#3	5.027269	4.759971	5.091148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.292	24327.61	2090.581	1520.345	1562.435
Stddev	4.359	114.93	19.237	8.998	3.347
%RSD	.2440284	.4724192	.9201594	.5918565	.2142006
#1	1781.259	24210.58	2112.768	1514.151	1561.257
#2	1788.881	24331.92	2078.555	1516.218	1559.837
#3	1788.736	24440.31	2080.422	1530.667	1566.212

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 12/23/2024 19:03:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003056	.0010860	.0031785	.0048141	-.000613	.0611703	-.003997
Stddev	.003019	.0010582	.0006492	.0022029	.001990	.0118890	.002086
%RSD	98.79424	97.43986	20.42649	45.75841	324.6471	19.43588	52.18499
#1	-.002564	.0020620	.0031994	.0023437	-.001589	.0611508	-.003033
#2	-.000313	.0012347	.0025190	.0055246	-.001927	.0730691	-.006390
#3	-.006291	-.000039	.0038170	.0065740	.001677	.0492911	-.002567

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000885	-.000005	-.007757	-.000276	-.000150	.0089116	.0442300
Stddev	.0001850	.000023	.004700	.000610	.000194	.0139967	.0400063
%RSD	208.9664	486.3816	60.58704	220.9081	129.4071	157.0615	90.45069
#1	.0002824	.000022	-.013180	-.000285	-.000362	.0024689	.0214768
#2	-.000086	-.000022	-.004854	.000338	.000021	-.000704	.0207895
#3	.000069	-.000014	-.005238	-.000881	-.000110	.024970	.0904236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019632	.0218244	.0007121	.0000137	-1.81516	.0003220	-.005952
Stddev	.0014355	.0230076	.0005021	.0007024	.23617	.0034703	.014331
%RSD	73.11929	105.4216	70.50619	5140.920	13.01087	1077.631	240.7758
#1	.0005056	.0161650	.0011655	-.000274	-2.08690	.0043286	-.010350
#2	.0020084	.0471335	.0007984	-.000499	-1.65949	-.001740	-.017568
#3	.0033755	.0021745	.0001725	.000814	-1.69908	-.001623	.010062

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.618107	.0003385	.0035311	.0010287	-.006932	-.080831	.0003060
Stddev	.210034	.0008145	.0025715	.0002541	.003160	.001023	.0010054
%RSD	33.98020	240.6078	72.82475	24.69505	45.58359	1.265557	328.5235
#1	-.722772	.0011327	.0031289	.0012449	-.010551	-.081843	.0004107
#2	-.376306	-.000495	.0011844	.0010925	-.004717	-.079797	.0012550
#3	-.755243	.000378	.0062801	.0007489	-.005529	-.080854	-.000748

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 12/23/2024 19:03:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0034276	.0001392	.0052659
Stddev	.0033304	.0003006	.0022124
%RSD	97.16518	215.9678	42.01407
#1	.0009325	.0003213	.0036034
#2	.0021409	.0003040	.0044174
#3	.0072094	-.000208	.0077770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2021.713	26570.15	2133.116	1751.389	1832.215
Stddev	5.537	98.23	12.034	12.238	3.680
%RSD	.2738572	.3696827	.5641562	.6987471	.2008499
#1	2019.378	26457.34	2119.485	1737.274	1828.230
#2	2017.726	26636.78	2137.591	1759.025	1832.932
#3	2028.034	26616.32	2142.271	1757.868	1835.485

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-05A Acquired: 12/23/2024 19:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0895516	-.028352	3.079321	.1060495	.0307467	60.95800	1.504281
Stddev	.0053409	.005313	.006260	.0043019	.0024214	.83729	.016520
%RSD	5.964053	18.73935	.2032931	4.056541	7.875237	1.373553	1.098227
#1	.0839286	-.034400	3.078769	.1025294	.0335300	61.07491	1.503954
#2	.0945567	-.026219	3.073355	.1108448	.0295853	60.06840	1.487927
#3	.0901694	-.024437	3.085838	.1047742	.0291247	61.73069	1.520963

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061985	.0086854	251.9745	.1258857	.1018306	.2968220	134.2558
Stddev	.0001544	.0001050	2.3108	.0008408	.0007723	.0074194	1.2818
%RSD	2.490104	1.209191	.9170580	.6679300	.7584093	2.499614	.9547158
#1	.0062445	.0087992	251.7522	.1258777	.1011653	.2910020	134.2387
#2	.0060263	.0085922	249.7830	.1250490	.1016491	.2942874	132.9826
#3	.0063245	.0086647	254.3884	.1267306	.1026775	.3051765	135.5460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.407109	52.17221	.1796557	.0061953	-1.02146	.1464662	5.119983
Stddev	.067614	.55118	.0005724	.0002984	.28295	.0017759	.030509
%RSD	.8042506	1.056471	.3185991	4.816704	27.70006	1.212487	.5958872
#1	8.413126	52.28793	.1794967	.0058760	-1.21130	.1453483	5.086927
#2	8.336688	51.57236	.1802907	.0062426	-.69626	.1455364	5.125961
#3	8.471514	52.65635	.1791796	.0064672	-1.15683	.1485139	5.147061

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.484868	9.974494	.0361069	.0087592	5.078736	12.02594	.1054463
Stddev	.232588	.023658	.0051643	.0004610	.006902	.14358	.0008803
%RSD	2.741204	.2371885	14.30280	5.262533	.1359036	1.193960	.8348615
#1	8.350385	9.991460	.0351803	.0082341	5.076145	12.10541	.1055418
#2	8.350782	9.947468	.0314686	.0089462	5.073504	11.86019	.1045221
#3	8.753436	9.984554	.0416717	.0090973	5.086559	12.11221	.1062750

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5033-05A Acquired: 12/23/2024 19:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK97A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9618752	.1750105	.0868977
Stddev	.0268661	.0020659	.0058600
%RSD	2.793095	1.180439	6.743562
#1	.9567947	.1747968	.0926419
#2	.9379121	.1730598	.0809284
#3	.9909188	.1771750	.0871227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2308.894	30103.05	2509.856	1980.811	1757.731
Stddev	5.743	103.22	25.323	7.782	5.316
%RSD	.2487434	.3428822	1.008953	.3928733	.3024293
#1	2311.752	30118.53	2496.758	1972.762	1759.149
#2	2312.648	30197.65	2539.046	1988.296	1762.195
#3	2302.283	29992.96	2493.765	1981.375	1751.850

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03A Acquired: 12/23/2024 19:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1838558	-.032666	.6060495	.1540490	.0406267	74.14206	1.704705
Stddev	.0012436	.003468	.0019441	.0011131	.0037216	.30705	.010286
%RSD	.6764103	10.61704	.3207814	.7225730	9.160592	.4141382	.6033977
#1	.1825638	-.034840	.6040830	.1531999	.0387583	74.23768	1.708703
#2	.1850446	-.034491	.6079704	.1553092	.0382094	74.38993	1.712391
#3	.1839591	-.028666	.6060950	.1536381	.0449123	73.79858	1.693020

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066429	.0115538	204.1658	.1109638	.1564067	.6593535	202.0175
Stddev	.0002392	.0000492	.5845	.0007841	.0011276	.0065484	.5731
%RSD	3.601280	.4262699	.2863095	.7065972	.7209506	.9931564	.2836934
#1	.0066810	.0115685	204.5520	.1104142	.1572614	.6663113	202.2023
#2	.0068608	.0115940	204.4520	.1106155	.1551287	.6584385	202.4754
#3	.0063869	.0114989	203.4933	.1118617	.1568300	.6533108	201.3748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.92919	78.94244	.2030820	.0135347	-1.91960	.1618923	1.627571
Stddev	.11952	.15529	.0013346	.0011112	.29304	.0061667	.017763
%RSD	.3993442	.1967133	.6571611	8.210061	15.26589	3.809148	1.091379
#1	29.96398	78.81661	.2045341	.0137614	-1.90685	.1622191	1.627590
#2	30.02745	79.11599	.2019091	.0145151	-1.63314	.1555687	1.645325
#3	29.79613	78.89472	.2028029	.0123277	-2.21881	.1678891	1.609799

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.277154	6.513537	.0099884	.0076622	2.432752	12.25286	.0401213
Stddev	.076410	.012747	.0031553	.0004838	.007812	.06873	.0015387
%RSD	1.217265	.1957002	31.58994	6.313941	.3211311	.5609112	3.835153
#1	6.270524	6.527097	.0071105	.0082165	2.441427	12.19383	.0384695
#2	6.356663	6.501798	.0094922	.0074452	2.430558	12.32831	.0403803
#3	6.204276	6.511717	.0133624	.0073249	2.426271	12.23644	.0415140

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5034-03A Acquired: 12/23/2024 19:11:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB6A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4549454	.0074127	.0772608
Stddev	.0029873	.0005324	.0014608
%RSD	.6566244	7.182479	1.890688
#1	.4534589	.0080010	.0757909
#2	.4529931	.0072733	.0772791
#3	.4583844	.0069639	.0787123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2749.992	35758.17	2948.892	2357.128	1808.717
Stddev	7.279	188.94	22.657	7.069	8.853
%RSD	.2646864	.5283752	.7683130	.2998948	.4894617
#1	2750.969	35654.72	2923.268	2349.009	1809.329
#2	2756.733	35976.24	2957.135	2360.456	1817.248
#3	2742.274	35643.54	2966.273	2361.919	1799.574

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-06A Acquired: 12/23/2024 19:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252823	-.020386	4.418269	.1020320	.0295335	55.45297	2.095251
Stddev	.0084094	.003597	.009990	.0027026	.0025746	1.41237	.060228
%RSD	6.712392	17.64551	.2261121	2.648754	8.717683	2.546975	2.874479
#1	.1273158	-.017412	4.407847	.1002705	.0270333	55.34872	2.094686
#2	.1160426	-.024384	4.419196	.1006818	.0293907	54.09561	2.035308
#3	.1324886	-.019361	4.427763	.1051436	.0321766	56.91458	2.155759

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056242	.0142737	374.2223	.1118203	.1130004	.2950655	129.0334
Stddev	.0001979	.0002469	9.6624	.0010529	.0005615	.0100832	3.2509
%RSD	3.518216	1.729621	2.582004	.9415708	.4969021	3.417285	2.519408
#1	.0056150	.0141107	374.0631	.1127394	.1128135	.3022836	128.7952
#2	.0054311	.0145578	364.6404	.1106716	.1125562	.2835447	125.9082
#3	.0058265	.0141527	383.9633	.1120500	.1136315	.2993683	132.3969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.20659	38.53603	.1391310	.0071720	-1.40235	.1527004	1.903602
Stddev	.27430	1.08309	.0010347	.0003673	.39734	.0050885	.027609
%RSD	2.687527	2.810586	.7437178	5.121879	28.33369	3.332359	1.450333
#1	10.21545	38.51667	.1380778	.0073154	-1.14056	.1480442	1.912513
#2	9.92796	37.46275	.1401463	.0067545	-1.20694	.1581322	1.872639
#3	10.47636	39.62866	.1391688	.0074459	-1.85956	.1519248	1.925655

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.364597	9.813293	.0084765	.0067388	2.518190	8.746439	.1844302
Stddev	.134409	.021918	.0011758	.0008230	.007390	.211963	.0029389
%RSD	3.079523	.2233538	13.87134	12.21307	.2934677	2.423418	1.593513
#1	4.263148	9.793942	.0071624	.0072639	2.510948	8.743355	.1855168
#2	4.313602	9.808840	.0094290	.0071621	2.517902	8.536035	.1811027
#3	4.517041	9.837095	.0088382	.0057903	2.525720	8.959927	.1866711

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5037-06A Acquired: 12/23/2024 19:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC0A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8859397	.4542531	.0840731
Stddev	.0279075	.0126782	.0071449
%RSD	3.150041	2.791002	8.498493
#1	.8839879	.4545320	.0818349
#2	.8590594	.4414377	.0783152
#3	.9147719	.4667896	.0920692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.219	29658.51	2532.568	1949.206	1700.323
Stddev	5.252	53.61	60.723	5.435	2.995
%RSD	.2310263	.1807515	2.397702	.2788382	.1761328
#1	2269.835	29692.83	2535.467	1943.481	1697.843
#2	2270.552	29596.73	2591.791	1949.841	1699.477
#3	2279.269	29685.96	2470.448	1954.295	1703.650

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07A Acquired: 12/23/2024 19:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622393	-.019953	.1773905	.0863554	.0220181	43.27141
Stddev	.0015841	.005277	.0029881	.0013766	.0044501	.26655
%RSD	2.545148	26.44683	1.684471	1.594129	20.21098	.6159966
#1	.0628530	-.021859	.1773963	.0857876	.0184615	43.49174
#2	.0634247	-.024012	.1803756	.0879251	.0205845	43.34736
#3	.0604402	-.013988	.1743995	.0853534	.0270082	42.97513

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6019376	.0045223	.0035789	F 876.2210	.0651266	.1080883
Stddev	.0036415	.0000768	.0001334	3.8437	.0009797	.0008233
%RSD	.6049689	1.698938	3.726408	.4386707	1.504276	.7616777
#1	.6052547	.0045952	.0034760	879.7493	.0659803	.1072348
#2	.6025170	.0045298	.0035311	876.7888	.0640569	.1088776
#3	.5980411	.0044421	.0037295	872.1250	.0653425	.1081526

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2560611	128.4156	7.423799	181.5877	.1148427	.0044392
Stddev	.0010083	.8552	.052851	.8980	.0011613	.0008549
%RSD	.3937760	.6659901	.7119114	.4945052	1.011203	19.25752
#1	.2571035	129.0564	7.463898	182.2305	.1145484	.0050317
#2	.2559888	128.7460	7.443590	181.9708	.1161228	.0048268
#3	.2550908	127.4445	7.363909	180.5617	.1138569	.0034592

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.987113	.1191154	.4434657	7.806863	7.690899	.0393707
Stddev	.495727	.0041885	.0187912	.110167	.012941	.0021507
%RSD	50.21986	3.516345	4.237351	1.411153	.1682575	5.462809
#1	-1.33982	.1144159	.4598961	7.927377	7.691336	.0387036
#2	-.42032	.1204754	.4229769	7.781878	7.677746	.0417760
#3	-1.20120	.1224549	.4475241	7.711335	7.703616	.0376326

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5039-07A Acquired: 12/23/2024 19:19:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ7A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031023	2.009900	12.71023	.0276434	1.433235	.7211283
Stddev	.0001479	.009733	.01322	.0017040	.023124	.0019898
%RSD	4.766122	.4842671	.1039942	6.164223	1.613389	.2759239
#1	.0029952	2.017789	12.72517	.0274053	1.459933	.7233110
#2	.0030408	1.999023	12.70544	.0294540	1.419602	.7206583
#3	.0032710	2.012888	12.70007	.0260710	1.420168	.7194156

Elem	Li6707
Units	ppm
Avg	.0801764
Stddev	.0020770
%RSD	2.590579
#1	.0801315
#2	.0822755
#3	.0781222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.376	30730.04	2581.427	2007.936	1635.929
Stddev	2.998	56.28	20.098	7.836	2.514
%RSD	.1286376	.1831412	.7785613	.3902560	.1536818
#1	2327.061	30694.38	2560.098	2011.276	1634.952
#2	2332.895	30700.82	2584.171	1998.983	1638.785
#3	2331.173	30794.92	2600.013	2013.548	1634.049

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/23/2024 19:23:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1237090	-.039323	1.860006	.1213649	.0306554	58.06873	1.296948
Stddev	.0057471	.003564	.006099	.0018551	.0041260	.08422	.001216
%RSD	4.645684	9.063444	.3278884	1.528546	13.45919	.1450290	.0937610
#1	.1300419	-.037917	1.865234	.1220845	.0344231	58.06936	1.298352
#2	.1222603	-.043376	1.853306	.1227524	.0262463	58.15263	1.296265
#3	.1188249	-.036677	1.861478	.1192578	.0312968	57.98420	1.296227

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064697	.0077133	112.7685	.0956309	.1090573	.4310138	147.5337
Stddev	.0001140	.0001252	.2618	.0006338	.0006626	.0073699	.4593
%RSD	1.762030	1.622708	.2321412	.6627895	.6075513	1.709897	.3113305
#1	.0065648	.0078578	112.6996	.0961370	.1095182	.4388540	147.7706
#2	.0063434	.0076428	113.0578	.0949200	.1082980	.4299596	147.8263
#3	.0065011	.0076394	112.5480	.0958358	.1093556	.4242277	147.0043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.29344	29.64629	.1457972	.0097201	-.930578	.1510662	1.386141
Stddev	.05694	.07885	.0003400	.0002755	.583941	.0025562	.018196
%RSD	.5042174	.2659563	.2331979	2.834250	62.75030	1.692087	1.312729
#1	11.33094	29.69771	.1454313	.0099148	-.256303	.1540119	1.370233
#2	11.32147	29.68564	.1461034	.0098406	-1.26895	.1494326	1.405982
#3	11.22792	29.55551	.1458568	.0094049	-1.26648	.1497539	1.382209

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.255800	6.762122	.0087733	.0079743	2.016102	10.82792	.0999692
Stddev	.046265	.006857	.0011613	.0004565	.003632	.02450	.0010440
%RSD	.6376310	.1014005	13.23650	5.724540	.1801570	.2262428	1.044306
#1	7.303980	6.769104	.0074470	.0074639	2.017297	10.85416	.1003505
#2	7.211723	6.761864	.0096077	.0083437	2.018986	10.80566	.1007689
#3	7.251697	6.755398	.0092651	.0081151	2.012023	10.82395	.0987882

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5042-01A Acquired: 12/23/2024 19:23:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6830946	.8118526	.0670102
Stddev	.0013460	.0033605	.0022921
%RSD	.1970443	.4139258	3.420461
#1	.6822351	.8082681	.0646137
#2	.6824029	.8123580	.0691811
#3	.6846458	.8149318	.0672357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2450.339	32044.32	2597.224	2110.470	1826.655
Stddev	1.426	2.36	8.620	7.453	.752
%RSD	.0582085	.0073603	.3318814	.3531524	.0411446
#1	2450.738	32042.88	2587.272	2102.583	1826.427
#2	2448.756	32043.03	2602.103	2117.396	1827.494
#3	2451.524	32047.04	2602.298	2111.432	1826.044

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-01 Acquired: 12/23/2024 19:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM14 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1187166	-.031187	.2868859	.0604723	.0292297	56.89192
Stddev	.0048245	.002683	.0003106	.0025406	.0045540	.08509
%RSD	4.063834	8.602371	.1082537	4.201293	15.58022	.1495651
#1	.1223617	-.030012	.2867592	.0576959	.0255855	56.96118
#2	.1205424	-.029292	.2866587	.0610400	.0343350	56.91763
#3	.1132457	-.034257	.2872398	.0626811	.0277685	56.79693

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5945447	.0062381	.0049253	720.9335	.0879267	.1367082
Stddev	.0015282	.0001270	.0000473	1.2956	.0008250	.0002817
%RSD	.2570401	2.036481	.9599167	.1797080	.9382721	.2060339
#1	.5958391	.0063810	.0048709	721.7701	.0872978	.1369282
#2	.5949362	.0061379	.0049565	721.5892	.0888608	.1363908
#3	.5928589	.0061953	.0049485	719.4411	.0876215	.1368057

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5069373	164.6179	10.67744	132.9904	.1856282	.0063547
Stddev	.0045546	.2846	.02574	.3947	.0010979	.0005882
%RSD	.8984580	.1728921	.2411002	.2967516	.5914547	9.255977
#1	.5103749	164.6599	10.70486	133.4245	.1843721	.0069128
#2	.5017715	164.8792	10.67366	132.8934	.1864046	.0064108
#3	.5086656	164.3147	10.65380	132.6533	.1861080	.0057404

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.705134	.1380297	.4805664	8.979762	F 11.35886	.0247774
Stddev	.560184	.0014034	.0115206	.071890	.03675	.0019946
%RSD	79.44353	1.016726	2.397292	.8005773	.3235102	8.049940
#1	-1.35198	.1391654	.4840194	8.912860	11.32442	.0227201
#2	-.38127	.1364608	.4677142	8.970655	11.35461	.0267026
#3	-.38215	.1384629	.4899656	9.055772	11.39754	.0249095

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-01 Acquired: 12/23/2024 19:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM14 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034810	1.762356	4.556958	.0294942	.6518835	.5066223
Stddev	.0003507	.009711	.027936	.0011397	.0075282	.0010994
%RSD	10.07578	.5510335	.6130465	3.864008	1.154839	.2169999
#1	.0033370	1.751851	4.567964	.0282105	.6529687	.5071273
#2	.0032252	1.764210	4.577714	.0303870	.6588101	.5073784
#3	.0038809	1.771006	4.525194	.0298850	.6438715	.5053611

Elem	Li6707
Units	ppm
Avg	.1084141
Stddev	.0014626
%RSD	1.349051
#1	.1083091
#2	.1070069
#3	.1099264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2503.256	32791.90	2758.664	2149.588	1663.336
Stddev	2.260	31.27	10.047	1.370	2.587
%RSD	.0902770	.0953677	.3642118	.0637262	.1555433
#1	2500.941	32782.95	2749.696	2151.136	1663.064
#2	2505.456	32766.09	2756.774	2149.095	1666.048
#3	2503.370	32826.68	2769.522	2148.532	1660.895

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-02 Acquired: 12/23/2024 19:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1013409	-.043997	2.083816	.0744636	.0329566	64.03967
Stddev	.0051796	.001466	.015170	.0029477	.0055137	.22563
%RSD	5.111091	3.332037	.7279732	3.958614	16.73031	.3523298
#1	.0954942	-.043167	2.066304	.0771951	.0272267	63.84568
#2	.1031733	-.045690	2.092243	.0748565	.0382252	64.28728
#3	.1053552	-.043135	2.092902	.0713391	.0334178	63.98605

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.039386	.0061273	.0074620	125.0461	.2927634	.1112299
Stddev	.002926	.0001572	.0000974	.2652	.0008100	.0011976
%RSD	.2814924	2.565015	1.305125	.2121102	.2766851	1.076657
#1	1.039646	.0063055	.0074474	124.9932	.2936637	.1098485
#2	1.042172	.0060086	.0073727	125.3338	.2920935	.1118663
#3	1.036338	.0060678	.0075659	124.8113	.2925330	.1119749

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4087683	148.9661	8.868040	34.62251	.2489860	.0080421
Stddev	.0060751	.6634	.031961	.06039	.0019574	.0002329
%RSD	1.486186	.4453394	.3604021	.1744287	.7861497	2.895980
#1	.4078443	148.6051	8.863455	34.62642	.2471387	.0080142
#2	.4032082	149.7317	8.902046	34.56026	.2487819	.0078244
#3	.4152524	148.5616	8.838620	34.68086	.2510375	.0082877

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.12196	.1620632	1.839903	7.231924	F 13.65551	.0226659
Stddev	.77151	.0003194	.013429	.102632	.12128	.0015942
%RSD	68.76475	.1971172	.7298609	1.419157	.8881735	7.033492
#1	-.72188	.1617073	1.831120	7.243415	13.51874	.0243592
#2	-.63266	.1621573	1.855361	7.328328	13.69781	.0224446
#3	-2.01133	.1623250	1.833228	7.124030	13.74997	.0211940

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-02 Acquired: 12/23/2024 19:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM15 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136467	5.669478	4.063768	.0915150	.8222798	.0827174
Stddev	.0001629	.039196	.022312	.0014871	.0028007	.0004423
%RSD	1.193640	.6913537	.5490474	1.625018	.3406079	.5346880
#1	.0137834	5.624333	4.045115	.0899385	.8240999	.0827183
#2	.0134665	5.689256	4.088485	.0928927	.8190546	.0822747
#3	.0136902	5.694845	4.057705	.0917139	.8236848	.0831592

Elem	Li6707
Units	ppm
Avg	.0879730
Stddev	.0049078
%RSD	5.578766
#1	.0889071
#2	.0826652
#3	.0923466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.841	32545.20	2642.359	2132.212	1846.097
Stddev	19.674	47.85	10.336	4.979	15.577
%RSD	.7927070	.1470213	.3911741	.2335046	.8437558
#1	2504.545	32506.76	2647.297	2133.691	1863.566
#2	2469.809	32598.79	2630.480	2136.284	1833.654
#3	2471.170	32530.04	2649.300	2126.661	1841.070

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-03 Acquired: 12/23/2024 19:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM16 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1123266	-.047954	2.310999	.0750970	.0344215	62.16879
Stddev	.0027289	.000581	.003170	.0035551	.0011898	1.57935
%RSD	2.429394	1.210872	.1371852	4.733955	3.456596	2.540428
#1	.1139324	-.048619	2.310171	.0710042	.0348754	60.35313
#2	.1091758	-.047552	2.308325	.0768691	.0353175	62.92872
#3	.1138716	-.047690	2.314502	.0774177	.0330715	63.22453

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9396039	.0060861	.0071737	74.35208	.1905902	.1002285
Stddev	.0249474	.0000449	.0001325	1.86551	.0005188	.0004897
%RSD	2.655094	.7379376	1.846402	2.509024	.2722167	.4885464
#1	.9109675	.0060424	.0073016	72.20061	.1911829	.1000848
#2	.9512128	.0060837	.0071824	75.33541	.1903694	.0998268
#3	.9566313	.0061321	.0070371	75.52021	.1902182	.1007739

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2966614	143.2558	7.864141	30.18935	.2051535	.0061205
Stddev	.0132943	3.5110	.194807	.76870	.0003003	.0003111
%RSD	4.481288	2.450827	2.477159	2.546262	.1463937	5.082526
#1	.2890467	139.2029	7.639197	29.30711	.2049112	.0063849
#2	.2889253	145.1958	7.976436	30.54599	.2054895	.0061989
#3	.3120121	145.3687	7.976789	30.71495	.2050597	.0057777

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.965513	.1645243	1.402517	5.250367	F 11.75500	.0187571
Stddev	.599441	.0051271	.034726	.280348	.01548	.0026034
%RSD	62.08529	3.116330	2.475988	5.339594	.1316752	13.87951
#1	-.430323	.1684428	1.377836	4.929740	11.74068	.0170985
#2	-1.61325	.1587217	1.387489	5.449331	11.75291	.0174152
#3	-.85296	.1664085	1.442226	5.372029	11.77142	.0217577

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-03 Acquired: 12/23/2024 19:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM16 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101208	3.581614	3.929294	.0742985	.9045762	.0161415
Stddev	.0002382	.010671	.062766	.0016133	.0223964	.0005475
%RSD	2.353897	.2979270	1.597377	2.171317	2.475896	3.391753
#1	.0103956	3.570601	3.857538	.0729229	.8787371	.0155101
#2	.0099936	3.591906	3.956351	.0760741	.9184197	.0164289
#3	.0099731	3.582334	3.973993	.0738986	.9165718	.0164853

Elem	Li6707
Units	ppm
Avg	.0823227
Stddev	.0040639
%RSD	4.936530
#1	.0782105
#2	.0863365
#3	.0824210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.488	32829.88	2677.875	2168.815	1864.846
Stddev	2.932	197.19	48.497	8.131	3.752
%RSD	.1169452	.6006312	1.811022	.3749044	.2011779
#1	2510.459	33049.93	2733.772	2178.014	1869.044
#2	2507.409	32770.49	2652.855	2165.844	1861.821
#3	2504.596	32669.21	2646.997	2162.587	1863.674

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-04 Acquired: 12/23/2024 19:38:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575959	-.049369	2.367253	.0844578	.0398493	73.85069
Stddev	.0023837	.002591	.002585	.0033567	.0006972	.12687
%RSD	1.512554	5.248254	.1092041	3.974357	1.749642	.1717903
#1	.1566137	-.050499	2.370185	.0825533	.0406509	73.97038
#2	.1558602	-.046405	2.366276	.0824866	.0395130	73.71769
#3	.1603138	-.051203	2.365299	.0883336	.0393840	73.86400

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.162355	.0073404	.0086412	247.4225	.1399014	.1414685
Stddev	.005936	.0002973	.0000885	.8003	.0010188	.0005280
%RSD	.5107141	4.049829	1.023863	.3234650	.7282294	.3732375
#1	1.168688	.0075787	.0085498	248.3129	.1404464	.1420119
#2	1.156918	.0074353	.0086473	246.7631	.1405319	.1409574
#3	1.161458	.0070073	.0087264	247.1915	.1387260	.1414363

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4203225	182.4023	12.28544	59.15284	.2133999	.0084264
Stddev	.0071303	.6381	.04336	.49588	.0014440	.0011773
%RSD	1.696389	.3498473	.3529499	.8383078	.6766620	13.97208
#1	.4122895	183.1388	12.33430	59.64724	.2146560	.0075398
#2	.4259025	182.0533	12.25154	59.15581	.2137214	.0097622
#3	.4227755	182.0148	12.27047	58.65548	.2118222	.0079772

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.39306	.1875861	1.721195	7.372362	F 11.24994	.0066694
Stddev	.34351	.0064892	.008878	.117607	.00956	.0013245
%RSD	24.65885	3.459331	.5158162	1.595246	.0849673	19.85993
#1	-1.70515	.1937435	1.721793	7.468621	11.26020	.0080785
#2	-1.44903	.1808094	1.729758	7.407190	11.24834	.0054498
#3	-1.02500	.1882055	1.712032	7.241274	11.24129	.0064798

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-04 Acquired: 12/23/2024 19:38:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM17 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085918	2.739953	4.337008	.0825996	.9366015	.0716909
Stddev	.0003827	.003768	.017934	.0017774	.0087330	.0003450
%RSD	4.454477	.1375319	.4135146	2.151823	.9324176	.4812450
#1	.0090092	2.740696	4.356650	.0844695	.9265323	.0714758
#2	.0082573	2.735868	4.321505	.0823972	.9421100	.0720888
#3	.0085089	2.743294	4.332870	.0809320	.9411621	.0715081

Elem	Li6707
Units	ppm
Avg	.1004701
Stddev	.0027112
%RSD	2.698511
#1	.0988802
#2	.0989295
#3	.1036006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2558.404	33199.32	2740.137	2189.487	1767.830
Stddev	1.125	171.08	19.939	20.141	.244
%RSD	.0439802	.5153146	.7276675	.9199045	.0138058
#1	2559.479	33030.15	2718.738	2175.855	1767.875
#2	2557.234	33195.56	2743.479	2179.985	1767.566
#3	2558.498	33372.25	2758.194	2212.621	1768.048

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-05 Acquired: 12/23/2024 19:42:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1435189	-.059840	5.476937	.0942742	.0396500	69.29366
Stddev	.0043617	.003101	.005403	.0013843	.0030746	.33029
%RSD	3.039093	5.181448	.0986409	1.468414	7.754444	.4766459
#1	.1423201	-.056866	5.477522	.0958689	.0361035	68.91449
#2	.1398819	-.063053	5.471265	.0933824	.0412812	69.51877
#3	.1483546	-.059602	5.482023	.0935712	.0415654	69.44771

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.547300	.0072033	.0103378	92.28652	.1400667	.1263741
Stddev	.010651	.0000860	.0001046	.38059	.0008855	.0007103
%RSD	.4181372	1.193972	1.012177	.4124044	.6322094	.5620746
#1	2.535024	.0072673	.0103755	91.89558	.1391727	.1265948
#2	2.554082	.0072372	.0102195	92.65585	.1400840	.1255797
#3	2.552794	.0071055	.0104183	92.30812	.1409435	.1269479

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5716014	179.8817	11.55312	26.21185	.1866913	.0097051
Stddev	.0075656	.4506	.03667	.09634	.0009532	.0005988
%RSD	1.323585	.2504926	.3173767	.3675503	.5105594	6.169769
#1	.5633048	179.3769	11.51089	26.10525	.1876748	.0090860
#2	.5781190	180.2433	11.57690	26.29271	.1857717	.0102813
#3	.5733804	180.0249	11.57157	26.23758	.1866275	.0097479

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.32131	.1855647	2.618007	7.732454	F 14.39280	.0146318
Stddev	.36760	.0147818	.023874	.047830	.03986	.0004986
%RSD	27.82065	7.965870	.9119102	.6185625	.2769324	3.407760
#1	-1.67333	.1696141	2.604663	7.733763	14.35117	.0141924
#2	-.93990	.1882781	2.645570	7.683983	14.39662	.0145293
#3	-1.35071	.1988018	2.603788	7.779616	14.43062	.0151737

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-05 Acquired: 12/23/2024 19:42:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM18 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089042	3.361219	4.420208	.1410216	.9001725	.0832608
Stddev	.0005248	.004265	.036069	.0007733	.0030719	.0009153
%RSD	5.894213	.1268829	.8160006	.5483690	.3412561	1.099361
#1	.0088142	3.358259	4.399813	.1412473	.8972075	.0830773
#2	.0084302	3.366107	4.398957	.1401605	.8999689	.0842541
#3	.0094682	3.359290	4.461853	.1416569	.9033412	.0824512

Elem	Li6707
Units	ppm
Avg	.0989337
Stddev	.0042833
%RSD	4.329465
#1	.0942043
#2	.1025519
#3	.1000448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2590.713	33752.90	2763.642	2230.673	1848.732
Stddev	7.756	150.67	14.668	14.303	5.737
%RSD	.2993586	.4463899	.5307464	.6411764	.3103150
#1	2593.289	33920.45	2779.094	2242.666	1848.895
#2	2596.853	33628.55	2761.920	2214.844	1854.386
#3	2581.997	33709.69	2749.910	2234.510	1842.916

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-06 Acquired: 12/23/2024 19:46:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1402854	-.041293	1.266073	.0995985	.0394027	81.44420
Stddev	.0008763	.003712	.005236	.0024397	.0046748	.09054
%RSD	.6246291	8.988904	.4135444	2.449519	11.86402	.1111721
#1	.1402363	-.038633	1.267366	.0990421	.0437803	81.38347
#2	.1411853	-.039713	1.260312	.0974850	.0399491	81.54827
#3	.1394348	-.045534	1.270541	.1022683	.0344788	81.40088

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.329947	.0076168	.0086056	91.11246	.1437193	.1407518
Stddev	.002473	.0003619	.0001688	.02216	.0011996	.0003613
%RSD	.1859235	4.751733	1.961648	.0243218	.8346888	.2567039
#1	1.329782	.0072545	.0084513	91.09028	.1431457	.1410218
#2	1.327560	.0076175	.0085795	91.13460	.1450980	.1408922
#3	1.332497	.0079784	.0087859	91.11252	.1429140	.1403414

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3922624	190.1049	14.09901	30.25701	.2130339	.0092645
Stddev	.0025255	.1473	.01532	.09105	.0003819	.0012441
%RSD	.6438400	.0774661	.1086955	.3009174	.1792891	13.42843
#1	.3893905	190.2747	14.11517	30.32310	.2126240	.0090402
#2	.3941374	190.0264	14.08469	30.15315	.2130978	.0106055
#3	.3932591	190.0134	14.09718	30.29477	.2133798	.0081478

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.44070	.1889259	1.241457	7.200578	F 13.42049	.0085051
Stddev	.13489	.0086143	.006637	.066376	.03553	.0012576
%RSD	9.363007	4.559615	.5346448	.9218103	.2647411	14.78635
#1	-1.57343	.1966736	1.239728	7.269506	13.40843	.0099049
#2	-1.30375	.1904545	1.235855	7.195139	13.39256	.0081398
#3	-1.44493	.1796497	1.248787	7.137089	13.46048	.0074706

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-06 Acquired: 12/23/2024 19:46:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM19 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093495	3.009026	5.385096	.0636575	.9551844	.0327203
Stddev	.0006042	.003330	.026925	.0010718	.0035307	.0007380
%RSD	6.462250	.1106642	.4999992	1.683673	.3696372	2.255444
#1	.0086564	3.010646	5.413268	.0637017	.9560990	.0326286
#2	.0096273	3.005196	5.382398	.0625643	.9581678	.0334998
#3	.0097649	3.011236	5.359620	.0647065	.9512864	.0320324

Elem	Li6707
Units	ppm
Avg	.1268124
Stddev	.0039351
%RSD	3.103090
#1	.1228492
#2	.1268691
#3	.1307188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.202	35046.82	2836.746	2317.749	1844.592
Stddev	5.778	244.53	8.397	20.853	3.479
%RSD	.2155718	.6977180	.2960147	.8997282	.1886281
#1	2680.704	34774.49	2827.545	2294.744	1846.940
#2	2685.712	35247.57	2838.699	2335.410	1846.241
#3	2674.190	35118.40	2843.995	2323.093	1840.595

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-07 Acquired: 12/23/2024 19:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0778295	-.038719	.3335027	.0668320	.0352842	60.23274	.6489582
Stddev	.0039935	.002050	.0028352	.0021435	.0015162	.29218	.0025995
%RSD	5.131037	5.295518	.8501278	3.207297	4.297190	.4850796	.4005635
#1	.0766072	-.037882	.3346013	.0683018	.0341265	60.02681	.6481959
#2	.0822913	-.041056	.3302826	.0643725	.0370004	60.10428	.6468251
#3	.0745901	-.037220	.3356242	.0678217	.0347256	60.56714	.6518536

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054712	.0044923	308.2603	.0937609	.1186668	.1904115	162.8763
Stddev	.0000997	.0000582	1.2481	.0006281	.0006070	.0067715	.6692
%RSD	1.822560	1.295466	.4048910	.6698603	.5115079	3.556218	.4108943
#1	.0054040	.0044514	307.6870	.0943149	.1179909	.1833789	162.4667
#2	.0055858	.0045590	307.4019	.0938891	.1191654	.1968874	162.5137
#3	.0054238	.0044667	309.6921	.0930786	.1188441	.1909682	163.6486

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.01426	57.83524	.1715075	.0055929	-1.17630	.1651764	.5239852
Stddev	.04629	.15562	.0004168	.0004421	.66916	.0076857	.0254792
%RSD	.4622454	.2690700	.2430264	7.904057	56.88660	4.653035	4.862573
#1	9.99282	57.86653	.1716212	.0055314	-1.81504	.1645799	.4946163
#2	9.98256	57.66635	.1718557	.0060625	-1.23345	.1731430	.5401830
#3	10.06738	57.97283	.1710457	.0051848	-.48040	.1578064	.5371563

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.628740	8.149578	-.003681	.0079553	.8735110	4.695047	.0317883
Stddev	.157295	.015246	.002858	.0002314	.0072724	.010242	.0001862
%RSD	3.398227	.1870776	77.64507	2.908764	.8325523	.2181482	.5856938
#1	4.609180	8.158316	-.005061	.0081859	.8653142	4.691922	.0318465
#2	4.482140	8.131974	-.005586	.0079568	.8791897	4.686731	.0315799
#3	4.794901	8.158444	-.000395	.0077231	.8760291	4.706487	.0319384

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-07 Acquired: 12/23/2024 19:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9869674	.2129705	.0981133
Stddev	.0052317	.0020811	.0017545
%RSD	.5300738	.9771979	1.788252
#1	.9829602	.2108580	.0997360
#2	.9928860	.2130349	.0962515
#3	.9850560	.2150188	.0983523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.204	31716.07	2621.541	2079.101	1800.353
Stddev	7.509	152.36	10.014	16.900	5.241
%RSD	.3086075	.4803854	.3820053	.8128490	.2910984
#1	2441.144	31641.06	2612.329	2078.345	1803.773
#2	2432.253	31891.39	2632.200	2096.366	1802.967
#3	2426.216	31615.76	2620.093	2062.592	1794.319

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-08 Acquired: 12/23/2024 19:54:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM21 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0669002	-.029795	.4000644	.0514632	.0310500	49.57013	.5232404
Stddev	.0044748	.006265	.0037921	.0026723	.0003306	.12347	.0005519
%RSD	6.688839	21.02613	.9478665	5.192633	1.064720	.2490874	.1054852
#1	.0703973	-.031636	.3998898	.0512720	.0309122	49.68039	.5229491
#2	.0684459	-.034932	.4039408	.0488917	.0314272	49.43672	.5228951
#3	.0618574	-.022816	.3963626	.0542260	.0308106	49.59328	.5238770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052275	.0041402	539.9597	.0849910	.1101595	.2532437	149.5567
Stddev	.0000592	.0000483	1.5913	.0006321	.0002691	.0038730	.0778
%RSD	1.132029	1.165888	.2947012	.7437252	.2442707	1.529362	.0520262
#1	.0052618	.0040845	541.7791	.0852299	.1102320	.2577151	149.4856
#2	.0051592	.0041654	538.8278	.0842743	.1098616	.2510831	149.6398
#3	.0052615	.0041706	539.2721	.0854689	.1103849	.2509330	149.5447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.743953	88.21216	.1490813	.0057247	-1.65659	.1514307	.5381470
Stddev	.007100	.07132	.0002706	.0006106	.39588	.0087735	.0153435
%RSD	.0916801	.0808533	.1815258	10.66564	23.89733	5.793720	2.851181
#1	7.751131	88.13597	.1488458	.0064177	-1.32594	.1613544	.5549161
#2	7.743794	88.22317	.1493769	.0052658	-2.09527	.1482334	.5347143
#3	7.736934	88.27733	.1490212	.0054906	-1.54855	.1447043	.5248105

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.493744	8.003295	.0113532	.0050525	.9008943	3.146957	.0279458
Stddev	.148654	.010509	.0025036	.0003868	.0083662	.016006	.0014173
%RSD	2.705886	.1313120	22.05213	7.656129	.9286537	.5086225	5.071613
#1	5.494580	8.007948	.0101210	.0051800	.9070524	3.165103	.0277800
#2	5.344673	8.010675	.0097045	.0046180	.8913692	3.134846	.0266187
#3	5.641978	7.991263	.0142341	.0053594	.9042612	3.140921	.0294387

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-08 Acquired: 12/23/2024 19:54:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM21 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7139518	.3920811	.0891769
Stddev	.0061025	.0014011	.0041413
%RSD	.8547528	.3573583	4.643916
#1	.7207732	.3936175	.0936607
#2	.7090106	.3908739	.0883742
#3	.7120716	.3917519	.0854956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2387.325	31259.99	2613.600	2044.049	1715.959
Stddev	8.965	168.51	13.171	9.528	5.106
%RSD	.3755066	.5390576	.5039416	.4661237	.2975362
#1	2397.059	31277.89	2601.762	2044.970	1718.439
#2	2379.408	31418.84	2627.788	2053.083	1710.087
#3	2385.508	31083.25	2611.250	2034.094	1719.351

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-09 Acquired: 12/23/2024 19:58:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM22 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824605	-.051796	2.490988	.0816015	.0369453	64.98475
Stddev	.0015598	.007525	.004684	.0036660	.0023227	.13469
%RSD	.8548859	14.52779	.1880563	4.492594	6.286821	.2072573
#1	.1824113	-.055695	2.489639	.0785676	.0342674	65.03408
#2	.1840443	-.043122	2.487125	.0805618	.0381554	64.83235
#3	.1809258	-.056571	2.496198	.0856751	.0384131	65.08781

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.638637	.0068990	.0103320	163.6202	.1848807	.1202882
Stddev	.003754	.0000782	.0000096	.5948	.0008498	.0000976
%RSD	.2290906	1.133641	.0932760	.3635349	.4596340	.0811092
#1	1.639386	.0068926	.0103354	163.5345	.1846464	.1202356
#2	1.634565	.0068242	.0103395	163.0729	.1858230	.1202282
#3	1.641960	.0069802	.0103211	164.2532	.1841726	.1204008

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3790831	170.9787	7.781434	55.95545	.2954767	.0069814
Stddev	.0125489	.2017	.009682	.14617	.0010719	.0003174
%RSD	3.310333	.1179712	.1244303	.2612279	.3627804	4.546632
#1	.3761433	171.0625	7.784609	55.94602	.2953107	.0072532
#2	.3682650	170.7485	7.770563	56.10612	.2944974	.0066326
#3	.3928409	171.1249	7.789131	55.81423	.2966219	.0070583

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.679136	.1768828	2.461482	8.575013	F 15.13471	.0369422
Stddev	.176201	.0020625	.040348	.133004	.04166	.0012294
%RSD	25.94486	1.166051	1.639180	1.551067	.2752728	3.327797
#1	-.517301	.1782659	2.449286	8.452363	15.13207	.0367815
#2	-.653265	.1745121	2.428639	8.716387	15.09443	.0358010
#3	-.866842	.1778703	2.506521	8.556289	15.17763	.0382439

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-09 Acquired: 12/23/2024 19:58:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM22 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134149	5.688309	3.426039	.1201900	.9188533	.0641522
Stddev	.0005164	.015614	.018175	.0005475	.0011708	.0011370
%RSD	3.849713	.2744905	.5304859	.4555510	.1274174	1.772413
#1	.0133895	5.670280	3.405174	.1196094	.9192248	.0644514
#2	.0139436	5.697405	3.434523	.1206970	.9175418	.0628955
#3	.0129117	5.697241	3.438421	.1202638	.9197933	.0651098

Elem	Li6707
Units	ppm
Avg	.0928382
Stddev	.0027016
%RSD	2.910054
#1	.0913025
#2	.0959577
#3	.0912545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.432	32431.33	2665.313	2145.129	1802.882
Stddev	5.150	46.97	3.285	4.673	7.198
%RSD	.2069745	.1448291	.1232454	.2178304	.3992416
#1	2493.503	32383.34	2666.730	2139.823	1809.555
#2	2488.587	32477.20	2661.557	2146.936	1803.837
#3	2483.205	32433.46	2667.651	2148.629	1795.254

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-10 Acquired: 12/23/2024 20:01:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM23 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3148312	-.089319	2.185079	.1193108	.0535377	63.76070
Stddev	.0033671	.004975	.004680	.0011711	.0014175	.09345
%RSD	1.069486	5.569421	.2141780	.9815438	2.647718	.1465639
#1	.3167949	-.092617	2.183809	.1206629	.0519014	63.85541
#2	.3109433	-.091744	2.181165	.1186182	.0543910	63.75812
#3	.3167555	-.083597	2.190263	.1186512	.0543208	63.66856

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.199761	.0087262	.0105114	180.4676	.1610887	.1191594
Stddev	.001951	.0002406	.0000355	.2884	.0006483	.0006112
%RSD	.1626199	2.757804	.3380272	.1597977	.4024270	.5129585
#1	1.201002	.0087946	.0104988	180.6754	.1604778	.1197796
#2	1.200768	.0089252	.0104839	180.5891	.1617688	.1185575
#3	1.197512	.0084587	.0105515	180.1384	.1610194	.1191411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3176053	245.7791	7.973342	57.23358	.2766070	.0095305
Stddev	.0069682	.3134	.014403	.16041	.0008929	.0003467
%RSD	2.193985	.1274980	.1806411	.2802810	.3228061	3.637801
#1	.3102213	246.1244	7.988199	57.21829	.2756614	.0093809
#2	.3240656	245.6998	7.959441	57.40110	.2767237	.0092837
#3	.3185291	245.5129	7.972385	57.08136	.2774357	.0099268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.30637	.2177344	1.814622	6.519849	F 14.00999	.0075628
Stddev	.91909	.0051287	.018528	.140883	.02151	.0038289
%RSD	70.35494	2.355496	1.021030	2.160830	.1535561	50.62832
#1	-.68178	.2120512	1.798619	6.580290	13.99699	.0115724
#2	-2.36173	.2191339	1.810328	6.358831	13.99816	.0039447
#3	-.87559	.2220181	1.834921	6.620427	14.03482	.0071712

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-10 Acquired: 12/23/2024 20:01:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM23 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121085	3.786406	3.560373	.0980340	.9070800	-.006142
Stddev	.0005469	.008955	.032549	.0009215	.0061829	.000499
%RSD	4.516597	.2365126	.9142086	.9399590	.6816241	8.124159
#1	.0121360	3.787317	3.552567	.0975981	.9095514	-.006326
#2	.0115485	3.777029	3.596115	.0974114	.9116449	-.005577
#3	.0126412	3.794870	3.532436	.0990926	.9000437	-.006522

Elem	Li6707
Units	ppm
Avg	.0865496
Stddev	.0026090
%RSD	3.014477
#1	.0845887
#2	.0895107
#3	.0855494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.776	32301.55	2656.513	2134.898	1800.325
Stddev	2.123	44.75	24.589	9.413	3.879
%RSD	.0857392	.1385355	.9255940	.4409264	.2154431
#1	2475.836	32273.98	2645.275	2128.370	1804.097
#2	2477.867	32353.18	2639.551	2145.689	1800.531
#3	2473.623	32277.49	2684.712	2130.636	1796.347

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-11 Acquired: 12/23/2024 20:05:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM24 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1949189	-.032761	1.408387	.0598040	.0298386	58.08730
Stddev	.0081413	.002565	.007142	.0051367	.0006426	.05476
%RSD	4.176782	7.830393	.5071274	8.589194	2.153681	.0942705
#1	.2042655	-.030609	1.404567	.0644976	.0305704	58.06306
#2	.1911184	-.035600	1.403967	.0605977	.0295790	58.04883
#3	.1893727	-.032075	1.416627	.0543166	.0293663	58.14999

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023901	.0056738	.0072337	280.9454	.1177344	.1116416
Stddev	.003249	.0001161	.0000228	.4212	.0012419	.0007824
%RSD	.3173395	2.046589	.3152738	.1499229	1.054852	.7007963
#1	1.026948	.0057352	.0072416	281.0385	.1174575	.1124929
#2	1.024273	.0057464	.0072080	280.4855	.1166542	.1109540
#3	1.020482	.0055399	.0072516	281.3123	.1190914	.1114780

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2701267	142.9715	8.935746	63.03490	.2028670	.0052175
Stddev	.0059540	.2986	.024611	.15047	.0000598	.0008101
%RSD	2.204141	.2088280	.2754174	.2387170	.0294812	15.52585
#1	.2633190	143.1496	8.959456	62.99207	.2029359	.0045376
#2	.2726989	142.6268	8.910324	63.20215	.2028283	.0050011
#3	.2743621	143.1382	8.937458	62.91049	.2028368	.0061138

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.84005	.1675457	1.257114	5.774582	F 12.18627	.0222944
Stddev	.60689	.0042580	.010906	.106658	.02522	.0015154
%RSD	32.98206	2.541395	.8675106	1.847026	.2069834	6.797240
#1	-1.24680	.1708162	1.245055	5.652275	12.16905	.0218981
#2	-1.81365	.1627311	1.266284	5.848255	12.17454	.0239686
#3	-2.45971	.1690899	1.260004	5.823215	12.21523	.0210166

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-11 Acquired: 12/23/2024 20:05:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM24 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077402	2.226879	3.640729	.0571434	.8009584	.1526464
Stddev	.0000332	.005079	.016548	.0012694	.0014067	.0004893
%RSD	.4291164	.2280709	.4545296	2.221453	.1756312	.3205630
#1	.0077138	2.221193	3.645314	.0569721	.8001585	.1525627
#2	.0077292	2.228480	3.622372	.0559684	.8001341	.1522043
#3	.0077775	2.230965	3.654501	.0584898	.8025827	.1531722

Elem	Li6707
Units	ppm
Avg	.0821919
Stddev	.0023575
%RSD	2.868258
#1	.0838980
#2	.0831760
#3	.0795018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.685	31672.16	2639.742	2081.629	1782.717
Stddev	12.111	66.59	11.890	7.500	6.927
%RSD	.4976270	.2102518	.4504358	.3602779	.3885772
#1	2441.725	31668.65	2633.128	2086.739	1787.091
#2	2439.574	31740.44	2653.469	2085.129	1786.330
#3	2419.756	31607.40	2632.630	2073.019	1774.730

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12 Acquired: 12/23/2024 20:09:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2438699	-.138792	2.134735	.1770303	.0752307	61.97240
Stddev	.0018764	.003226	.006756	.0027215	.0025772	.13384
%RSD	.7694314	2.324516	.3164590	1.537300	3.425776	.2159650
#1	.2426584	-.138820	2.138311	.1738891	.0745743	61.85508
#2	.2429199	-.142004	2.138950	.1786794	.0730451	62.11818
#3	.2460313	-.135552	2.126943	.1785224	.0780726	61.94394

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.459469	.0106693	.0107250	253.4911	.1204812	.1588242
Stddev	.002750	.0001037	.0002599	.1599	.0007843	.0003871
%RSD	.1884242	.9717892	2.423457	.0630641	.6510108	.2437372
#1	1.459389	.0105668	.0110224	253.3622	.1197335	.1592066
#2	1.462258	.0107741	.0105413	253.4412	.1212977	.1584325
#3	1.456759	.0106671	.0106113	253.6700	.1204122	.1588335

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4272444	364.1875	8.958600	42.79135	.2604701	.0144679
Stddev	.0045297	.4443	.003627	.23805	.0005559	.0007276
%RSD	1.060205	.1219857	.0404914	.5563101	.2134196	5.029151
#1	.4324529	363.7222	8.954420	42.53009	.2609647	.0136720
#2	.4242263	364.6071	8.960922	42.84799	.2605771	.0150990
#3	.4250540	364.2333	8.960458	42.99598	.2598685	.0146328

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.778041	.1878052	1.503856	8.560935	F 15.91465	-.002702
Stddev	.611239	.0071848	.012068	.154183	.01964	.008217
%RSD	78.56129	3.825695	.8024797	1.801004	.1233954	304.1493
#1	-.855673	.1960848	1.515944	8.674194	15.92429	-.000203
#2	-.131695	.1841208	1.503816	8.623267	15.92761	-.011878
#3	-1.34676	.1832099	1.491808	8.385345	15.89206	.003976

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12 Acquired: 12/23/2024 20:09:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074481	2.735181	3.804057	.1540318	.8959209	-.025843
Stddev	.0007238	.004264	.030683	.0008356	.0027582	.000949
%RSD	9.717528	.1558968	.8065985	.5424863	.3078673	3.672395
#1	.0071331	2.740011	3.791440	.1539475	.8928240	-.024842
#2	.0082760	2.731938	3.839038	.1532415	.8981135	-.025957
#3	.0069352	2.733594	3.781694	.1549063	.8968251	-.026730

Elem	Li6707
Units	ppm
Avg	.0952139
Stddev	.0014240
%RSD	1.495576
#1	.0952556
#2	.0937695
#3	.0966166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.314	32800.96	2728.873	2157.661	1817.759
Stddev	7.279	105.52	7.391	14.022	4.748
%RSD	.2899779	.3217124	.2708624	.6498675	.2611903
#1	2502.324	32682.16	2721.698	2142.019	1812.285
#2	2516.569	32836.87	2728.457	2169.103	1820.743
#3	2512.049	32883.84	2736.464	2161.861	1820.251

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-13 Acquired: 12/23/2024 20:13:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2391468	-.142135	2.139417	.1785172	.0778098	62.12920
Stddev	.0001431	.004247	.003602	.0048403	.0017369	.14954
%RSD	.0598453	2.987666	.1683590	2.711407	2.232307	.2406892
#1	.2389871	-.144522	2.142175	.1739121	.0758207	62.28784
#2	.2391901	-.137232	2.135342	.1780768	.0790272	61.99084
#3	.2392633	-.144651	2.140734	.1835627	.0785814	62.10893

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.464246	.0108045	.0105825	254.4614	.1197563	.1594454
Stddev	.005144	.0002496	.0002378	.6359	.0006265	.0008569
%RSD	.3513290	2.310313	2.247294	.2499027	.5231423	.5374563
#1	1.469646	.0110695	.0103124	255.1623	.1191526	.1596587
#2	1.459402	.0105739	.0106747	253.9213	.1204034	.1585020
#3	1.463691	.0107701	.0107605	254.3007	.1197130	.1601756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4309124	365.6136	8.994116	42.87307	.2610668	.0139522
Stddev	.0081316	.9230	.024552	.15365	.0013581	.0007769
%RSD	1.887058	.2524527	.2729741	.3583786	.5202235	5.568053
#1	.4395100	366.4715	9.021116	43.04875	.2603013	.0135568
#2	.4298822	364.6370	8.973130	42.76378	.2602642	.0134526
#3	.4233450	365.7322	8.988101	42.80668	.2626349	.0148472

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.584013	.1852818	1.513822	8.658205	F 15.92833	-.000566
Stddev	.404344	.0095468	.022821	.112261	.02568	.004655
%RSD	69.23548	5.152596	1.507537	1.296584	.1612272	821.9821
#1	-.652363	.1786870	1.487623	8.773658	15.90581	-.005013
#2	-.149850	.1809291	1.529376	8.651523	15.92290	-.000957
#3	-.949826	.1962292	1.524466	8.549435	15.95630	.004272

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-13 Acquired: 12/23/2024 20:13:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074251	2.733947	3.840677	.1545902	.9021153	-.025591
Stddev	.0005710	.011168	.044617	.0014512	.0015233	.000656
%RSD	7.690347	.4084972	1.161692	.9387523	.1688561	2.561829
#1	.0070009	2.725257	3.891193	.1562659	.9012997	-.025756
#2	.0072000	2.730039	3.824179	.1537464	.9011736	-.024869
#3	.0080743	2.746543	3.806658	.1537582	.9038728	-.026149

Elem	Li6707
Units	ppm
Avg	.0939060
Stddev	.0010699
%RSD	1.139276
#1	.0944374
#2	.0926745
#3	.0946061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.661	32794.34	2709.344	2146.462	1817.679
Stddev	7.202	169.69	27.610	5.022	5.167
%RSD	.2868503	.5174383	1.019059	.2339663	.2842432
#1	2513.168	32914.49	2680.921	2146.401	1819.159
#2	2516.274	32868.30	2736.061	2151.514	1821.944
#3	2502.541	32600.22	2711.051	2141.471	1811.934

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12LX5 Acquired: 12/23/2024 20:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496448	-.026337	.4511922	.0356067	.0195510	15.12315	.3512328
Stddev	.0043030	.003920	.0018985	.0021216	.0010790	.01418	.0001098
%RSD	8.667655	14.88411	.4207688	5.958302	5.518719	.0937778	.0312540
#1	.0534454	-.029564	.4515969	.0375156	.0189159	15.12412	.3512884
#2	.0449727	-.021974	.4491240	.0359819	.0207968	15.13683	.3513036
#3	.0505162	-.027472	.4528557	.0333226	.0189403	15.10851	.3511063

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027761	.0017951	61.88720	.0291479	.0476817	.1048205	89.74267
Stddev	.0001498	.0001740	.08026	.0007807	.0008792	.0064263	.09229
%RSD	5.394419	9.693509	.1296889	2.678586	1.843831	6.130734	.1028349
#1	.0029479	.0018588	61.85020	.0284263	.0484583	.1067122	89.84632
#2	.0026729	.0015983	61.83211	.0299767	.0467272	.0976608	89.66942
#3	.0027076	.0019284	61.97929	.0290409	.0478595	.1100886	89.71226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.197447	10.55330	.0539108	.0024408	-1.91457	.0510399	.3756109
Stddev	.003332	.12561	.0004638	.0013105	.18149	.0107664	.0132496
%RSD	.1516502	1.190258	.8603315	53.68933	9.479387	21.09407	3.527481
#1	2.193689	10.50282	.0542176	.0036530	-2.11148	.0424822	.3663023
#2	2.200041	10.46079	.0533772	.0026192	-1.87823	.0631283	.3907801
#3	2.198612	10.69630	.0541376	.0010503	-1.75400	.0475091	.3697501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.297155	3.321859	-.001877	.0029684	.5763271	1.101386	.0331605
Stddev	.205273	.008173	.002140	.0012441	.0055043	.008153	.0008714
%RSD	15.82485	.2460249	114.0640	41.90993	.9550582	.7402260	2.627666
#1	1.061561	3.325706	.000581	.0018463	.5824525	1.102659	.0322705
#2	1.392404	3.312473	-.002874	.0043062	.5717958	1.108828	.0331990
#3	1.437500	3.327398	-.003337	.0027528	.5747331	1.092672	.0340119

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-12LX5 Acquired: 12/23/2024 20:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2297916	-.007850	.0185809
Stddev	.0036755	.000176	.0029317
%RSD	1.599493	2.236031	15.77785
#1	.2332974	-.007915	.0196200
#2	.2259672	-.007651	.0208515
#3	.2301103	-.007984	.0152712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2164.621	28203.38	2285.292	1856.793	1856.260
Stddev	2.380	51.52	11.124	10.402	6.113
%RSD	.1099578	.1826561	.4867718	.5602397	.3293061
#1	2163.294	28145.69	2277.712	1849.908	1850.972
#2	2167.369	28244.79	2280.101	1868.759	1862.953
#3	2163.200	28219.66	2298.063	1851.711	1854.854

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-14 Acquired: 12/23/2024 20:21:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3269615	-.057947	2.149611	.3158464	.2165847	64.81089
Stddev	.0023886	.004390	.002057	.0040958	.0021715	.15825
%RSD	.7305383	7.576643	.0956934	1.296768	1.002630	.2441776
#1	.3295797	-.053213	2.147504	.3148917	.2141599	64.88008
#2	.3249013	-.058744	2.151614	.3123122	.2172438	64.62983
#3	.3264034	-.061884	2.149714	.3203352	.2183503	64.92277

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.588662	.0885109	.1011164	251.8740	.4514550	1.064684
Stddev	.012097	.0008055	.0002114	.5956	.0022060	.003163
%RSD	.2636284	.9100541	.2090604	.2364770	.4886412	.2970876
#1	4.593383	.0893644	.1013470	252.4681	.4524966	1.063637
#2	4.574916	.0877641	.1009317	251.2769	.4529473	1.062178
#3	4.597686	.0884040	.1010706	251.8770	.4489210	1.068238

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8077551	364.0907	9.695644	42.63968	1.188220	.0711366
Stddev	.0012791	1.2357	.039981	.19106	.001009	.0009699
%RSD	.1583547	.3393946	.4123574	.4480866	.0849156	1.363415
#1	.8070940	364.7537	9.716193	42.67816	1.187860	.0703181
#2	.8092295	362.6650	9.649568	42.43231	1.187441	.0708839
#3	.8069418	364.8535	9.721172	42.80858	1.189360	.0722079

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.469368	.9888225	2.223937	8.654754	F 15.73303	.0025582
Stddev	.446713	.0131410	.007478	.209334	.04450	.0025584
%RSD	95.17348	1.328956	.3362669	2.418719	.2828686	100.0080
#1	-.506355	1.002896	2.228284	8.893338	15.73662	-.000126
#2	-.005310	.976873	2.228225	8.501860	15.68683	.002832
#3	-.896437	.986698	2.215302	8.569065	15.77562	.004969

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-14 Acquired: 12/23/2024 20:21:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086761	2.718448	3.969410	.1516837	.8972862	-.029356
Stddev	.0001229	.004985	.043991	.0014065	.0049292	.001456
%RSD	1.416165	.1833903	1.108248	.9272880	.5493488	4.958584
#1	.0088094	2.715070	4.017035	.1522625	.9029691	-.029258
#2	.0085675	2.716099	3.930298	.1500800	.8941699	-.027952
#3	.0086514	2.724174	3.960895	.1527084	.8947196	-.030858

Elem	Li6707
Units	ppm
Avg	.0915415
Stddev	.0019358
%RSD	2.114667
#1	.0907912
#2	.0937401
#3	.0900931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2517.800	32732.71	2721.678	2151.076	1831.035
Stddev	4.233	95.38	23.898	7.680	1.898
%RSD	.1681280	.2914014	.8780495	.3570366	.1036562
#1	2516.485	32665.93	2695.209	2149.463	1830.826
#2	2522.535	32690.25	2741.668	2144.331	1833.029
#3	2514.381	32841.95	2728.159	2159.435	1829.250

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 12/23/2024 20:28:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.159780	4.910362	25.02693	5.045739	5.022901	408.9924	10.33560
Stddev	.006851	.038895	.21554	.036827	.041304	.5135	.01496
%RSD	.1327839	.7920980	.8612131	.7298545	.8223172	.1255641	.1447449
#1	5.167584	4.880242	24.91082	5.027707	4.999603	408.4201	10.34026
#2	5.154751	4.896572	24.89434	5.021403	4.998510	409.1439	10.31886
#3	5.157006	4.954274	25.27563	5.088106	5.070591	409.4131	10.34768

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5070947	2.511321	415.8605	15.65008	2.520521	15.39919	420.0130
Stddev	.0018793	.020183	1.2943	.03685	.017490	.05002	.7516
%RSD	.3705958	.8036916	.3112284	.2354588	.6938881	.3248275	.1789490
#1	.5073233	2.500588	414.8023	15.64952	2.510491	15.35041	419.8605
#2	.5088492	2.498771	415.4757	15.68721	2.510356	15.39678	419.3494
#3	.5051116	2.534603	417.3036	15.61352	2.540716	15.45037	420.8292

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.37363	414.1956	2.536188	1.306160	409.7135	2.586720	15.73834
Stddev	.02595	.5349	.017556	.002124	.1348	.014676	.12865
%RSD	.1688052	.1291460	.6922389	.1626516	.0329078	.5673455	.8174142
#1	15.34418	414.0206	2.527619	1.304072	409.7236	2.571536	15.59311
#2	15.38356	413.7700	2.524561	1.308319	409.8430	2.600828	15.78394
#3	15.39315	414.7961	2.556383	1.306088	409.5739	2.587794	15.83798

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.4859	5.049762	4.884149	5.001478	5.039088	4.767681	5.071718
Stddev	.3297	.048227	.029373	.040881	.031216	.037282	.039475
%RSD	.2147975	.9550326	.6014006	.8173726	.6194728	.7819753	.7783456
#1	153.2418	5.027753	4.891187	4.981844	5.024343	4.775210	5.049826
#2	153.3549	5.016466	4.909363	4.974118	5.017977	4.800623	5.048040
#3	153.8609	5.105067	4.851896	5.048471	5.074945	4.727209	5.117289

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 12/23/2024 20:28:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.097511	4.847694	5.198050
Stddev	.023556	.019809	.010306
%RSD	.4621034	.4086212	.1982600
#1	5.071032	4.827988	5.188019
#2	5.105365	4.847488	5.197522
#3	5.116137	4.867604	5.208610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1777.644	24356.86	2123.607	1523.036	1557.102
Stddev	13.594	45.05	10.943	9.696	12.096
%RSD	.7647111	.1849723	.5153069	.6366335	.7768461
#1	1788.089	24407.45	2124.945	1531.189	1565.990
#2	1782.569	24321.07	2112.057	1512.314	1561.991
#3	1762.274	24342.07	2133.820	1525.604	1543.327

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 12/23/2024 20:32:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039497	-.003589	.0082335	.0047486	-.002280	.0330186	-.002340
Stddev	.0027806	.003269	.0027479	.0025285	.001004	.0165502	.001890
%RSD	70.39965	91.08840	33.37485	53.24735	44.02396	50.12398	80.77258
#1	.0065812	-.003853	.0085231	.0026821	-.002281	.0172784	-.002474
#2	.0010408	-.000196	.0108251	.0039956	-.001276	.0502746	-.000387
#3	.0042272	-.006718	.0053522	.0075681	-.003284	.0315029	-.004160

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000094	.0000936	.0302547	.0009346	-.000186	-.001487	.0670910
Stddev	.000098	.0000827	.0230463	.0005485	.000271	.004799	.0257161
%RSD	103.8601	88.28202	76.17425	58.68507	145.5486	322.6731	38.33013
#1	-.000158	.0000572	.0421500	.0015250	-.000162	-.000739	.0391180
#2	.000018	.0000355	.0449227	.0008379	-.000469	-.006616	.0897058
#3	-.000143	.0001882	.0036913	.0004409	.000072	.002894	.0724492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036694	.0821107	.0010255	-.000026	-1.96757	-.001392	.0039100
Stddev	.0008552	.0800158	.0005849	.001179	.48332	.010180	.0109061
%RSD	23.30597	97.44873	57.03128	4463.192	24.56407	731.1427	278.9282
#1	.0045716	.0920240	.0011259	-.000678	-1.42101	.010260	.0147754
#2	.0035661	-.002400	.0015537	.001334	-2.33855	-.005876	.0039911
#3	.0028706	.156708	.0003970	-.000735	-2.14316	-.008560	-.007036

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.669626	.0012740	.0122110	.0005538	-.001584	-.081457	.0003149
Stddev	.148945	.0012896	.0015007	.0006461	.002455	.000568	.0017873
%RSD	22.24304	101.2270	12.28982	116.6573	154.9553	.6974268	567.6218
#1	-.541627	.0012477	.0129863	.0010675	-.003998	-.082064	.0017216
#2	-.634142	-.000002	.0131656	-.000172	-.001665	-.081366	.0009192
#3	-.833108	.002577	.0104812	.000766	.000910	-.080939	-.001696

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 12/23/2024 20:32:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0012721	.0001879	.0137859
Stddev	.0047590	.0002614	.0059651
%RSD	374.1044	139.1386	43.26938
#1	-.004174	.0004428	.0084456
#2	.004630	-.000080	.0126887
#3	.003361	.000200	.0202234

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2073.909	27014.97	2179.339	1778.862	1878.629
Stddev	5.920	123.70	28.636	3.987	3.458
%RSD	.2854391	.4579109	1.313975	.2241121	.1840700
#1	2074.517	26912.82	2164.663	1775.370	1879.054
#2	2067.708	26979.58	2161.017	1778.011	1874.979
#3	2079.501	27152.51	2212.338	1783.206	1881.855

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-15 Acquired: 12/23/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM26 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048883	-.062324	2.460097	.0997317	.0393547	71.30043
Stddev	.0032648	.005527	.006287	.0031965	.0007440	.12335
%RSD	1.593443	8.868113	.2555521	3.205069	1.890443	.1729984
#1	.2086081	-.062038	2.453031	.1006231	.0400422	71.43977
#2	.2024985	-.067988	2.462188	.0961841	.0385648	71.25635
#3	.2035583	-.056945	2.465072	.1023878	.0394570	71.20519

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.502669	.0079389	.0086873	72.00514	.1423512	.1220816
Stddev	.002811	.0001384	.0001071	.18038	.0004333	.0007760
%RSD	.1870657	1.743348	1.232344	.2505044	.3044239	.6356589
#1	1.505364	.0078295	.0086032	72.12587	.1427683	.1212215
#2	1.502887	.0078928	.0086509	72.09176	.1419033	.1227292
#3	1.499755	.0080945	.0088078	71.79780	.1423819	.1222941

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4926339	185.1098	10.02280	24.20713	.1733809	.0090855
Stddev	.0102359	.0164	.01166	.12265	.0001266	.0001703
%RSD	2.077797	.0088839	.1163021	.5066614	.0730492	1.874613
#1	.5041826	185.0949	10.03158	24.19713	.1733746	.0092673
#2	.4890380	185.1275	10.02724	24.33448	.1732575	.0090597
#3	.4846811	185.1071	10.00957	24.08980	.1735106	.0089296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.760879	.1957813	1.462413	8.259980	F 13.43411	.0313554
Stddev	.363635	.0013509	.023882	.100543	.05579	.0022009
%RSD	47.79147	.6900131	1.633077	1.217225	.4152687	7.019307
#1	-.416164	.1947040	1.452268	8.374259	13.37197	.0288398
#2	-.725609	.1972969	1.489693	8.185121	13.45048	.0329262
#3	-1.14086	.1953429	1.445278	8.220559	13.47989	.0323002

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-15 Acquired: 12/23/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM26 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092220	3.604262	4.231801	.1522254	.7330315	.0410236
Stddev	.0005982	.021434	.042487	.0027713	.0049882	.0007062
%RSD	6.486438	.5946765	1.003992	1.820547	.6804833	1.721456
#1	.0096393	3.579842	4.280846	.1494239	.7281528	.0409917
#2	.0085367	3.619957	4.208311	.1549655	.7381223	.0417452
#3	.0094899	3.612986	4.206245	.1522867	.7328194	.0403338

Elem	Li6707
Units	ppm
Avg	.1113775
Stddev	.0023341
%RSD	2.095661
#1	.1127593
#2	.1086826
#3	.1126906

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.554	34520.52	2809.192	2283.169	1859.976
Stddev	3.146	180.69	4.406	24.592	3.248
%RSD	.1187832	.5234182	.1568463	1.077120	.1746363
#1	2648.176	34729.01	2812.737	2311.396	1863.710
#2	2651.873	34423.03	2810.579	2266.369	1858.418
#3	2645.615	34409.52	2804.259	2271.743	1857.801

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-16 Acquired: 12/23/2024 20:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864000	-.052392	1.039742	.0998620	.0392354	71.84897
Stddev	.0055181	.005266	.005734	.0023636	.0021053	.16133
%RSD	2.960334	10.05172	.5515215	2.366851	5.365804	.2245429
#1	.1924716	-.058333	1.043220	.1010564	.0413660	71.82073
#2	.1816908	-.048299	1.033123	.0971395	.0391839	71.70363
#3	.1850375	-.050543	1.042882	.1013899	.0371564	72.02256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.347285	.0073658	.0080522	101.3551	.1168182	.1438141
Stddev	.003896	.0000930	.0000424	.1204	.0004247	.0014066
%RSD	.2891686	1.263288	.5266797	.1187930	.3635371	.9780582
#1	1.349914	.0074446	.0081010	101.2287	.1172450	.1434266
#2	1.342809	.0073897	.0080243	101.3681	.1168141	.1426419
#3	1.349132	.0072632	.0080313	101.4684	.1163956	.1453739

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3495492	192.5552	13.58552	24.85739	.1803699	.0079021
Stddev	.0018397	.6448	.03511	.15469	.0009563	.0007201
%RSD	.5263033	.3348395	.2584554	.6223062	.5302064	9.112809
#1	.3493848	192.8842	13.60129	24.94635	.1793753	.0071530
#2	.3514656	191.8124	13.54529	24.67877	.1812827	.0079639
#3	.3477973	192.9691	13.60999	24.94704	.1804516	.0085892

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.769520	.1819055	.9309358	5.986904	F 14.45043	.0156371
Stddev	.529741	.0062128	.0209728	.102458	.04217	.0034491
%RSD	68.84042	3.415424	2.252876	1.711362	.2918512	22.05706
#1	-1.35770	.1855225	.9108334	5.925109	14.42550	.0177586
#2	-.32996	.1854623	.9292917	5.930432	14.42668	.0116574
#3	-.62090	.1747316	.9526823	6.105172	14.49913	.0174954

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-16 Acquired: 12/23/2024 20:40:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM27 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115131	2.705687	3.468590	.0888089	.5564339	.0092633
Stddev	.0002334	.015458	.010464	.0017124	.0022280	.0011951
%RSD	2.026990	.5713211	.3016823	1.928218	.4004036	12.90100
#1	.0112634	2.700896	3.480449	.0884469	.5552203	.0083300
#2	.0117256	2.693191	3.464665	.0906734	.5550763	.0106102
#3	.0115503	2.722973	3.460656	.0873064	.5590053	.0088497

Elem	Li6707
Units	ppm
Avg	.1013985
Stddev	.0046476
%RSD	4.583512
#1	.1050200
#2	.1030176
#3	.0961579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2707.410	35308.43	2896.814	2338.215	1858.681
Stddev	9.062	139.85	6.817	13.825	7.303
%RSD	.3347060	.3960731	.2353403	.5912583	.3928968
#1	2705.229	35447.82	2893.019	2346.110	1859.920
#2	2717.363	35309.35	2892.737	2346.284	1865.284
#3	2699.638	35168.14	2904.684	2322.252	1850.837

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-17 Acquired: 12/23/2024 20:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1542921	-.058984	.5335587	.0962515	.0372682	65.25316	1.029088
Stddev	.0093834	.008827	.0021636	.0043768	.0023503	.36617	.006023
%RSD	6.081607	14.96488	.4054944	4.547261	6.306327	.5611545	.5852422
#1	.1486850	-.052745	.5314257	.0946418	.0382191	64.85635	1.022139
#2	.1490665	-.055123	.5357515	.0929074	.0389940	65.32514	1.032342
#3	.1651250	-.069083	.5334988	.1012052	.0345915	65.57800	1.032784

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064110	.0067423	62.49883	.1037587	.1399069	.3056256	180.8123
Stddev	.0001142	.0000701	.17544	.0007375	.0008057	.0034462	.8521
%RSD	1.781856	1.039128	.2807033	.7107881	.5758786	1.127603	.4712857
#1	.0064943	.0066775	62.29719	.1043607	.1391450	.3028418	179.8937
#2	.0062807	.0067326	62.61651	.1039793	.1398255	.3094801	180.9662
#3	.0064579	.0068167	62.58278	.1029361	.1407502	.3045550	181.5770

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.66430	31.24566	.1964614	.0081997	-1.24779	.1581334	.7381201
Stddev	.10280	.22209	.0009407	.0006303	.16386	.0074455	.0199211
%RSD	.7010159	.7107859	.4788247	7.687312	13.13207	4.708371	2.698900
#1	14.54732	30.98967	.1964212	.0084535	-1.06397	.1631579	.7369278
#2	14.70537	31.38686	.1974216	.0074821	-1.37854	.1495795	.7586105
#3	14.74022	31.36046	.1955415	.0086637	-1.30086	.1616628	.7188218

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.948636	9.011160	.0195006	.0065641	1.473390	2.152415	.0363332
Stddev	.095430	.012424	.0019097	.0004670	.006360	.017554	.0011014
%RSD	1.373365	.1378763	9.792953	7.114500	.4316314	.8155342	3.031296
#1	6.891275	9.017656	.0198010	.0066205	1.469222	2.134008	.0365320
#2	6.895834	8.996834	.0212423	.0060715	1.470237	2.154269	.0351460
#3	7.058797	9.018989	.0174586	.0070004	1.480710	2.168968	.0373216

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-17 Acquired: 12/23/2024 20:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM28 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5542776	-.041229	.0980232
Stddev	.0008108	.001115	.0020044
%RSD	.1462823	2.704992	2.044821
#1	.5549994	-.039942	.0996874
#2	.5544329	-.041888	.0985840
#3	.5534003	-.041858	.0957981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2775.834	36118.67	2954.631	2379.928	1882.307
Stddev	9.069	72.34	27.429	5.392	5.829
%RSD	.3267263	.2002742	.9283296	.2265419	.3096619
#1	2768.170	36176.76	2978.927	2383.886	1876.303
#2	2785.847	36141.59	2960.081	2382.112	1887.943
#3	2773.486	36037.65	2924.887	2373.787	1882.675

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-18 Acquired: 12/23/2024 20:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1383129	-.036495	3.510645	.0663527	.0323310	52.03709
Stddev	.0045387	.005386	.010518	.0038942	.0029899	.19502
%RSD	3.281461	14.75817	.2995983	5.868968	9.247607	.3747743
#1	.1435199	-.040965	3.502630	.0619477	.0307239	51.92761
#2	.1362238	-.030515	3.506751	.0677728	.0357807	51.92140
#3	.1351949	-.038005	3.522555	.0693375	.0304885	52.26225

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.609350	.0058969	.0094204	224.0358	.1554634	.1174513
Stddev	.006142	.0000689	.0001268	.9082	.0004231	.0007517
%RSD	.3816195	1.168116	1.345802	.4053732	.2721593	.6400039
#1	1.608823	.0059160	.0093785	223.4352	.1553133	.1179323
#2	1.603488	.0059542	.0093199	223.5917	.1559411	.1178365
#3	1.615738	.0058204	.0095628	225.0806	.1551358	.1165851

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5172281	154.3739	11.12129	52.35611	.1724526	.0089972
Stddev	.0049101	.7588	.03785	.30415	.0008062	.0008617
%RSD	.9493189	.4915251	.3403263	.5809325	.4675056	9.577819
#1	.5137366	154.0853	11.09706	52.35044	.1719683	.0083288
#2	.5151051	153.8019	11.10189	52.05483	.1733833	.0086931
#3	.5228425	155.2347	11.16490	52.66306	.1720063	.0099698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.25333	.1484270	4.174698	6.483472	F 14.51619	.0279352
Stddev	.15242	.0038304	.038714	.087841	.01087	.0025275
%RSD	12.16114	2.580668	.9273444	1.354848	.0749049	9.047875
#1	-1.20124	.1451781	4.195527	6.579312	14.51036	.0305714
#2	-1.13378	.1474522	4.198539	6.406792	14.50948	.0277019
#3	-1.42496	.1526506	4.130030	6.464314	14.52874	.0255325

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-18 Acquired: 12/23/2024 20:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM36 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112500	3.706399	3.539988	.2562771	.7423775	.1984418
Stddev	.0004538	.007881	.015798	.0009348	.0021905	.0013371
%RSD	4.033779	.2126429	.4462788	.3647628	.2950636	.6738061
#1	.0117099	3.703093	3.544207	.2572613	.7398508	.1978598
#2	.0112375	3.700710	3.522509	.2554011	.7435418	.1999712
#3	.0108026	3.715395	3.553249	.2561690	.7437400	.1974943

Elem	Li6707
Units	ppm
Avg	.0697644
Stddev	.0024825
%RSD	3.558358
#1	.0707878
#2	.0669338
#3	.0715716

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.171	32003.52	2654.407	2101.054	1799.007
Stddev	3.579	99.86	2.381	8.612	2.740
%RSD	.1461244	.3120314	.0896954	.4099119	.1523188
#1	2445.205	31972.86	2651.673	2099.796	1795.910
#2	2450.145	31922.59	2656.018	2093.140	1801.117
#3	2452.161	32115.12	2655.531	2110.227	1799.995

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-19 Acquired: 12/23/2024 20:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0729141	-.029607	.3975476	.0580530	.0297061	58.98646	.7023043
Stddev	.0010626	.006880	.0021756	.0006587	.0022453	.29472	.0029055
%RSD	1.457284	23.23944	.5472556	1.134657	7.558411	.4996350	.4137121
#1	.0731999	-.023223	.3970841	.0587079	.0316631	58.66564	.6998783
#2	.0717378	-.036894	.3956411	.0580607	.0272549	59.04857	.7015104
#3	.0738045	-.028703	.3999176	.0573905	.0302003	59.24518	.7055242

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054433	.0043266	289.8036	.0910991	.1157392	.1999298	147.3483
Stddev	.0000920	.0001098	.9223	.0004997	.0002372	.0058638	.4876
%RSD	1.690127	2.538199	.3182558	.5485123	.2049720	2.932914	.3309043
#1	.0055272	.0043805	288.9581	.0912521	.1155384	.2041332	146.7860
#2	.0054578	.0042002	289.6655	.0905407	.1156783	.2024250	147.6041
#3	.0053449	.0043990	290.7872	.0915043	.1160010	.1932311	147.6548

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.855468	58.19552	.1671924	.0047929	-.915800	.1356714	.6141055
Stddev	.017550	.22424	.0003556	.0005616	.585289	.0030809	.0036463
%RSD	.1780695	.3853169	.2126807	11.71728	63.91008	2.270847	.5937628
#1	9.839876	57.97787	.1670401	.0050114	-.700544	.1391171	.6181419
#2	9.852056	58.18289	.1675987	.0041548	-.468621	.1331823	.6131246
#3	9.874474	58.42581	.1669383	.0052123	-1.57824	.1347147	.6110499

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.043586	8.721177	-.004476	.0069666	1.078071	3.153762	.0208404
Stddev	.211837	.009623	.002436	.0008987	.005204	.016148	.0019353
%RSD	6.960106	.1103395	54.41172	12.90003	.4827063	.5120320	9.286256
#1	2.903361	8.729188	-.002018	.0059302	1.082116	3.137836	.0228709
#2	3.287272	8.710503	-.006889	.0074384	1.079897	3.153327	.0190170
#3	2.940126	8.723839	-.004522	.0075310	1.072200	3.170123	.0206332

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5090-19 Acquired: 12/23/2024 20:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5011712	.2072247	.0929600
Stddev	.0013497	.0013959	.0038742
%RSD	.2693046	.6736277	4.167587
#1	.4999256	.2056427	.0933738
#2	.5026051	.2082833	.0966107
#3	.5009828	.2077481	.0888956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2436.084	31856.16	2630.135	2095.627	1814.032
Stddev	4.549	18.70	11.166	5.435	3.355
%RSD	.1867299	.0587147	.4245416	.2593635	.1849265
#1	2440.673	31853.10	2640.627	2090.035	1817.885
#2	2436.001	31839.17	2631.380	2095.956	1812.449
#3	2431.577	31876.20	2618.399	2100.891	1811.761

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BL Acquired: 12/23/2024 20:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS739 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002557	-.001576	-.000326	.0045462	.0002331	.0431321	-.002698
Stddev	.003570	.001162	.000179	.0031391	.0017762	.0181948	.000694
%RSD	139.5998	73.69160	55.01721	69.04900	762.0680	42.18389	25.71647
#1	.000434	-.000919	-.000445	.0036638	-.001782	.0248211	-.002294
#2	-.001596	-.002917	-.000120	.0080321	.001570	.0612084	-.003499
#3	-.006510	-.000892	-.000413	.0019427	.000912	.0433669	-.002300

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000067	-.000194	.0800225	-.000857	-.000172	-.000401	.0350763
Stddev	.0000873	.000022	.0284752	.000361	.000305	.003101	.0029877
%RSD	1303.086	11.54769	35.58401	42.08867	176.9937	773.9451	8.517618
#1	-.000094	-.000180	.0867199	-.001273	-.000442	.002980	.0316286
#2	.000064	-.000182	.1045521	-.000626	-.000233	-.003112	.0369050
#3	.000049	-.000220	.0487956	-.000673	.000158	-.001069	.0366954

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050832	.0774863	.0008641	-.000885	-1.15865	-.001077	.0089670
Stddev	.0016408	.0204256	.0003850	.000324	.32254	.004003	.0037326
%RSD	32.27849	26.36025	44.54944	36.57353	27.83750	371.5988	41.62626
#1	.0069582	.0540113	.0011661	-.000720	-1.17374	-.005500	.0053086
#2	.0043809	.0872499	.0009955	-.001258	-1.47337	.002299	.0088227
#3	.0039104	.0911978	.0004306	-.000677	-.82883	-.000032	.0127697

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.851404	.0004055	-.007795	.0005029	.0008046	-.082424	-.001221
Stddev	.204673	.0020702	.001863	.0002623	.0031906	.000513	.000531
%RSD	24.03951	510.5792	23.90359	52.15456	396.5244	.6220689	43.49303
#1	-.661333	-.001826	-.005644	.0005931	.0044852	-.082255	-.001514
#2	-.824799	.002263	-.008843	.0007083	-.000896	-.083000	-.000608
#3	-1.06808	.000780	-.008899	.0002075	-.001175	-.082017	-.001542

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BL Acquired: 12/23/2024 20:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS739 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0015622	.0001640	-.004457
Stddev	.0019018	.0000406	.002827
%RSD	121.7356	24.74752	63.43212
#1	.0035186	.0001559	-.007719
#2	.0014478	.0001281	-.002934
#3	-.000280	.0002080	-.002718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2047.438	26791.74	2160.473	1766.198	1859.699
Stddev	4.517	176.81	23.145	11.685	6.444
%RSD	.2206272	.6599520	1.071295	.6615773	.3465063
#1	2042.323	26640.41	2182.520	1765.023	1852.370
#2	2050.882	26748.71	2162.533	1755.145	1864.475
#3	2049.109	26986.10	2136.367	1778.426	1862.253

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BS Acquired: 12/23/2024 20:59:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS739 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202038	.0489614	.0200847	.0627576	.1013653	.4375325
Stddev	.0027686	.0013957	.0012913	.0007325	.0038790	.0244860
%RSD	13.70339	2.850643	6.429500	1.167196	3.826798	5.596393
#1	.0232053	.0474323	.0187446	.0634945	.0973825	.4578466
#2	.0196564	.0492849	.0201883	.0627488	.1051315	.4444069
#3	.0177499	.0501669	.0213211	.0620296	.1015817	.4103440

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3919492	.0101304	.0094376	9.700581	.0200846	.0972922
Stddev	.0021746	.0000523	.0000510	.042828	.0004092	.0007043
%RSD	.5548221	.5160524	.5405929	.4415035	2.037211	.7238787
#1	.3917513	.0100731	.0093796	9.690431	.0205567	.0965709
#2	.3898803	.0101427	.0094576	9.663739	.0198336	.0979781
#3	.3942160	.0101755	.0094755	9.747572	.0198634	.0973277

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527144	.2413658	.0326147	10.23012	.0770102	.0184562
Stddev	.0046978	.0107010	.0020844	.06022	.0004547	.0007953
%RSD	8.911760	4.433505	6.391036	.5886972	.5904220	4.309331
#1	.0528505	.2465009	.0350216	10.17063	.0768070	.0178207
#2	.0479500	.2485315	.0314046	10.22869	.0766925	.0181999
#3	.0573426	.2290652	.0314180	10.29106	.0775311	.0193481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.405712	.1049919	.1158227	8.595147	.0158491	F -.005050
Stddev	.573794	.0067591	.0090858	.098273	.0007885	.001359
%RSD	6.826235	6.437684	7.844597	1.143356	4.974932	26.90909
#1	7.751355	.1124104	.1053325	8.686929	.0164710	-.003486
#2	8.822904	.1033827	.1209285	8.607044	.0149623	-.005945
#3	8.642876	.0991827	.1212070	8.491466	.0161140	-.005720

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165739BS Acquired: 12/23/2024 20:59:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS739 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194637	.1732839	F .3764080	.0136311	.1949572	.1970129
Stddev	.0005677	.0009685	.0025846	.0012631	.0055027	.0005125
%RSD	2.916519	.5588791	.6866594	9.266231	2.822509	.2601570
#1	.0189644	.1722606	.3792670	.0124051	.1886159	.1966570
#2	.0200811	.1734050	.3742369	.0135598	.1984756	.1967813
#3	.0193457	.1741861	.3757201	.0149283	.1977800	.1976004

Elem	Li6707
Units	ppm
Avg	.0327911
Stddev	.0021184
%RSD	6.460259
#1	.0309201
#2	.0350912
#3	.0323621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.175	27140.10	2177.389	1788.697	1880.480
Stddev	7.592	129.70	8.789	11.939	6.976
%RSD	.3660263	.4779012	.4036585	.6674476	.3709550
#1	2082.314	27059.47	2169.244	1776.777	1887.644
#2	2072.925	27071.11	2176.217	1788.660	1880.086
#3	2067.285	27289.71	2186.705	1800.654	1873.709

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-01 Acquired: 12/23/2024 21:03:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL28 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1121510	-.017407	1.312513	.0456874	.0288221	53.37227	.9297932
Stddev	.0041399	.001514	.004858	.0026528	.0022715	.03758	.0021423
%RSD	3.691327	8.698364	.3701665	5.806340	7.881105	.0704202	.2304023
#1	.1162170	-.018481	1.306969	.0486706	.0299165	53.41015	.9286359
#2	.1122950	-.015675	1.314540	.0435936	.0303392	53.33498	.9322652
#3	.1079411	-.018064	1.316030	.0447979	.0262106	53.37168	.9284784

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059704	.0084235	607.4345	.1555312	.1084146	.2817473	135.0243
Stddev	.0001523	.0001667	.8437	.0004665	.0012217	.0036463	.0715
%RSD	2.551222	1.978406	.1388968	.2999426	1.126847	1.294164	.0529175
#1	.0057945	.0086144	607.6569	.1550369	.1092428	.2784420	135.0863
#2	.0060564	.0083068	606.5019	.1559637	.1089894	.2811414	134.9461
#3	.0060602	.0083493	608.1448	.1555930	.1070116	.2856586	135.0406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.321260	342.2526	.2230381	.0057196	-1.43660	.1798836	1.313536
Stddev	.008399	.0858	.0006885	.0007940	.45049	.0044728	.010080
%RSD	.1009367	.0250724	.3086882	13.88132	31.35813	2.486484	.7674301
#1	8.330949	342.2695	.2229270	.0048347	-1.14081	.1820770	1.311436
#2	8.316788	342.3287	.2224120	.0063697	-1.21392	.1828363	1.324501
#3	8.316044	342.1596	.2237755	.0059544	-1.95506	.1747375	1.304671

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.288241	8.941011	.0446239	.0099665	8.556889	8.137782	.1054191
Stddev	.072887	.033885	.0017042	.0004711	.041778	.048350	.0020497
%RSD	.8794048	.3789791	3.818981	4.727368	.4882382	.5941386	1.944363
#1	8.279224	8.903032	.0427355	.0094524	8.512510	8.173597	.1030540
#2	8.365217	8.951853	.0460474	.0100695	8.562701	8.082784	.1066789
#3	8.220281	8.968148	.0450887	.0103776	8.595457	8.156963	.1065245

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-01 Acquired: 12/23/2024 21:03:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL28 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7481940	.1851970	.0677657
Stddev	.0049446	.0015943	.0012876
%RSD	.6608707	.8608760	1.900100
#1	.7533738	.1857174	.0668950
#2	.7435242	.1834075	.0671574
#3	.7476839	.1864661	.0692448

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2246.133	29509.15	2497.060	1918.351	1630.477
Stddev	8.402	111.73	4.982	7.277	6.563
%RSD	.3740507	.3786166	.1995086	.3793564	.4024918
#1	2243.512	29525.97	2491.524	1919.226	1633.483
#2	2239.354	29389.97	2501.183	1910.675	1622.950
#3	2255.533	29611.52	2498.473	1925.151	1634.998

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-02 Acquired: 12/23/2024 21:07:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL29 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1602228	-.054730	3.034135	.0835079	.0310522	61.06972	1.015049
Stddev	.0037686	.001492	.005443	.0029393	.0019845	.20020	.001228
%RSD	2.352119	2.726406	.1794039	3.519800	6.390818	.3278268	.1209667
#1	.1579834	-.054254	3.035807	.0802307	.0329479	60.85209	1.014737
#2	.1645738	-.053533	3.028052	.0859112	.0289895	61.11100	1.014007
#3	.1581112	-.056402	3.038546	.0843818	.0312193	61.24607	1.016403

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071399	.0093062	89.82771	.1919393	.1056366	.3764708	167.3416
Stddev	.0000972	.0000940	.13526	.0011359	.0005724	.0037910	.3359
%RSD	1.361112	1.009986	.1505798	.5918223	.5418078	1.006988	.2007147
#1	.0070346	.0092203	89.79557	.1932320	.1062695	.3806945	166.9762
#2	.0072261	.0092917	89.71142	.1914853	.1054850	.3753546	167.4117
#3	.0071589	.0094066	89.97615	.1911004	.1051553	.3733631	167.6369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.442184	41.77128	.2680833	.0069752	-.892746	.1814100	1.281259
Stddev	.006466	.20120	.0010423	.0009857	.071545	.0065302	.026495
%RSD	.0765958	.4816649	.3888054	14.13168	8.013995	3.599717	2.067892
#1	8.437522	41.58824	.2678936	.0059549	-.969426	.1879870	1.250971
#2	8.449567	41.98671	.2671489	.0070484	-.827784	.1813153	1.300140
#3	8.439465	41.73890	.2692075	.0079223	-.881026	.1749276	1.292665

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.180606	7.441182	.0129602	.0116168	3.980122	6.697753	1.430090
Stddev	.101123	.023411	.0016217	.0002809	.003335	.048878	.005269
%RSD	1.951961	.3146120	12.51302	2.417746	.0837820	.7297612	.3684118
#1	5.063840	7.449977	.0114301	.0116364	3.976293	6.734411	1.428227
#2	5.238554	7.414648	.0146601	.0118874	3.982390	6.642260	1.426005
#3	5.239424	7.458922	.0127904	.0113267	3.981682	6.716589	1.436036

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-02 Acquired: 12/23/2024 21:07:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL29 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8347755	.0095017	.0691765
Stddev	.0033621	.0002580	.0027566
%RSD	.4027566	2.715626	3.984920
#1	.8386571	.0097437	.0660414
#2	.8328940	.0095311	.0712210
#3	.8327754	.0092302	.0702670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.670	31892.93	2621.519	2114.313	1860.274
Stddev	.265	171.98	8.209	10.261	2.991
%RSD	.0107525	.5392336	.3131311	.4853229	.1607996
#1	2463.365	31993.99	2612.042	2122.268	1858.578
#2	2463.844	31694.36	2626.069	2102.731	1863.728
#3	2463.800	31990.45	2626.444	2117.941	1858.517

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-03 Acquired: 12/23/2024 21:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL30 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915747	-.074685	1.800088	.1131706	.0454091	74.46856	1.334585
Stddev	.0037633	.002480	.000551	.0024157	.0022868	.27932	.006481
%RSD	1.964404	3.320699	.0306067	2.134581	5.036072	.3750868	.4856161
#1	.1956454	-.073991	1.800723	.1110006	.0457760	74.17986	1.327717
#2	.1882224	-.077439	1.799805	.1157735	.0474903	74.48839	1.335442
#3	.1908562	-.072627	1.799736	.1127378	.0429610	74.73745	1.340594

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086210	.0091922	63.32443	.1736292	.1255534	.4188760	203.5485
Stddev	.0001250	.0001186	.18884	.0008863	.0010192	.0030306	.9051
%RSD	1.449492	1.290271	.2982050	.5104624	.8117601	.7235115	.4446408
#1	.0084782	.0093239	63.10728	.1735703	.1253351	.4153872	202.6415
#2	.0087105	.0091588	63.41581	.1727738	.1246611	.4203838	203.5526
#3	.0086743	.0090939	63.45019	.1745435	.1266641	.4208569	204.4516

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.67707	35.48434	.2455027	.0084783	-.167968	.2152520	1.203603
Stddev	.05039	.27910	.0009086	.0005613	.261680	.0068594	.017734
%RSD	.4315477	.7865441	.3701089	6.620970	155.7917	3.186661	1.473414
#1	11.63217	35.16793	.2454662	.0082165	.082407	.2228176	1.205135
#2	11.66746	35.69555	.2446129	.0080957	-.439650	.2134993	1.220521
#3	11.73157	35.58954	.2464290	.0091227	-.146661	.2094390	1.185152

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.907094	6.923474	.0056816	.0116279	3.540623	8.730694	.1860367
Stddev	.053750	.016930	.0016931	.0000380	.009813	.071010	.0029888
%RSD	1.095350	.2445322	29.80005	.3267280	.2771661	.8133406	1.606546
#1	4.868638	6.914065	.0038073	.0116712	3.538070	8.745894	.1836848
#2	4.968511	6.913337	.0071002	.0116003	3.532337	8.653315	.1850253
#3	4.884132	6.943018	.0061372	.0116120	3.551460	8.792874	.1893999

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-03 Acquired: 12/23/2024 21:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL30 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8444768	-.025408	.0894105
Stddev	.0060723	.000567	.0007452
%RSD	.7190572	2.231826	.8334845
#1	.8394774	-.024915	.0891621
#2	.8427189	-.025280	.0888211
#3	.8512340	-.026028	.0902481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2529.571	32897.54	2682.002	2180.208	1848.023
Stddev	2.246	94.91	6.361	11.119	1.254
%RSD	.0888073	.2885071	.2371644	.5100151	.0678777
#1	2531.865	32893.64	2677.932	2173.345	1848.813
#2	2529.473	32804.65	2689.332	2174.243	1846.576
#3	2527.375	32994.35	2678.742	2193.037	1848.679

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-04 Acquired: 12/23/2024 21:15:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL31 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1565397	-.066578	1.172172	.1009085	.0372307	68.90610	1.006068
Stddev	.0029920	.003301	.003644	.0015616	.0007090	.16577	.002056
%RSD	1.911326	4.958488	.3108533	1.547526	1.904376	.2405789	.2043979
#1	.1597250	-.069191	1.171692	.0992308	.0372461	68.71830	1.003799
#2	.1561057	-.067675	1.168792	.1023196	.0379319	68.96793	1.006596
#3	.1537884	-.062867	1.176032	.1011752	.0365141	69.03208	1.007809

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071456	.0066676	48.03287	.1151653	.1203089	.3504844	183.2546
Stddev	.0001872	.0000435	.17647	.0011453	.0003864	.0035122	.4524
%RSD	2.619537	.6522755	.3673949	.9944663	.3211962	1.002087	.2468772
#1	.0069589	.0066632	47.84212	.1156080	.1199927	.3469278	182.7833
#2	.0071447	.0066265	48.06618	.1160231	.1201944	.3539504	183.6855
#3	.0073333	.0067131	48.19031	.1138647	.1207397	.3505751	183.2949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.57611	24.43095	.1474166	.0079675	-.776308	.1784868	.6667696
Stddev	.04019	.14412	.0003939	.0002365	.835633	.0061599	.0122382
%RSD	.3196073	.5899200	.2671833	2.968410	107.6419	3.451205	1.835449
#1	12.53876	24.26925	.1473726	.0080198	-1.71457	.1803995	.6779179
#2	12.61865	24.54587	.1470465	.0077093	-.11216	.1715974	.6687161
#3	12.57093	24.47773	.1478306	.0081736	-.50219	.1834635	.6536748

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.122048	5.901242	.0038259	.0102550	2.477313	8.573184	.6203000
Stddev	.162019	.008143	.0014623	.0005718	.004765	.038193	.0030542
%RSD	3.930542	.1379876	38.22017	5.575637	.1923532	.4454885	.4923717
#1	4.113511	5.893231	.0055049	.0107414	2.482814	8.542007	.6237794
#2	4.288167	5.900985	.0028321	.0103985	2.474664	8.615785	.6180622
#3	3.964467	5.909511	.0031405	.0096252	2.474461	8.561760	.6190583

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-04 Acquired: 12/23/2024 21:15:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL31 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7022606	-.040887	.0629789
Stddev	.0027439	.000310	.0029146
%RSD	.3907175	.7581752	4.627825
#1	.6996195	-.040951	.0650186
#2	.7050968	-.041160	.0596408
#3	.7020655	-.040550	.0642774

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2591.421	33571.39	2745.206	2221.348	1875.683
Stddev	5.479	60.83	7.412	2.961	4.379
%RSD	.2114269	.1811985	.2700057	.1332968	.2334444
#1	2588.024	33542.66	2750.477	2218.637	1872.399
#2	2597.742	33530.25	2736.731	2220.901	1880.654
#3	2588.497	33641.27	2748.410	2224.508	1873.996

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-05 Acquired: 12/23/2024 21:19:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL32 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1945960	-.078685	.3932220	.1276665	.0437769	83.00866	1.057895
Stddev	.0091971	.000142	.0019520	.0042165	.0017846	.13424	.003418
%RSD	4.726244	.1798594	.4964189	3.302756	4.076490	.1617125	.3230876
#1	.2051986	-.078609	.3954690	.1321823	.0444723	83.12943	1.060853
#2	.1898191	-.078849	.3922531	.1238323	.0417493	82.86413	1.054154
#3	.1887703	-.078599	.3919440	.1269850	.0451091	83.03241	1.058679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086988	.0085728	31.44098	.1039930	.1488893	.2268362	220.2076
Stddev	.0000607	.0001295	.07924	.0009370	.0004339	.0042978	.5133
%RSD	.6978970	1.510198	.2520138	.9010382	.2914350	1.894661	.2330907
#1	.0087659	.0084364	31.53229	.1044899	.1493551	.2241723	220.5358
#2	.0086477	.0085881	31.40038	.1045770	.1488163	.2317943	219.6161
#3	.0086827	.0086939	31.39027	.1029122	.1484965	.2245421	220.4710

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.03608	22.13110	.1621867	.0074528	-.406297	.1964153	.4591094
Stddev	.06233	.14512	.0007335	.0003548	.664154	.0042566	.0058083
%RSD	.3887124	.6557439	.4522732	4.760159	163.4651	2.167162	1.265128
#1	16.08525	22.25791	.1626953	.0078531	.188724	.1934500	.4653849
#2	15.96597	21.97283	.1613459	.0071773	-.284805	.1945032	.4580212
#3	16.05701	22.16255	.1625190	.0073280	-1.12281	.2012926	.4539222

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.071415	3.430519	-.015703	.0055711	1.308968	9.084405	.0380408
Stddev	.128573	.008901	.004339	.0004039	.007430	.006937	.0005206
%RSD	4.186129	.2594777	27.63173	7.250766	.5675844	.0763664	1.368639
#1	3.161390	3.428022	-.013841	.0051067	1.305665	9.076696	.0382267
#2	2.924156	3.423133	-.020663	.0057659	1.303761	9.086375	.0384429
#3	3.128700	3.440403	-.012606	.0058408	1.317476	9.090145	.0374527

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-05 Acquired: 12/23/2024 21:19:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL32 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5694865	-.124431	.0750321
Stddev	.0019961	.000844	.0022699
%RSD	.3505088	.6786939	3.025268
#1	.5675413	-.124497	.0776528
#2	.5715299	-.123555	.0736867
#3	.5693885	-.125240	.0737567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.628	38676.26	3142.903	2544.281	1854.162
Stddev	10.946	212.01	18.518	6.283	7.662
%RSD	.3682194	.5481664	.5892134	.2469466	.4132534
#1	2982.770	38493.71	3122.760	2537.251	1860.994
#2	2974.090	38908.80	3159.189	2549.348	1855.616
#3	2961.025	38626.27	3146.760	2546.244	1845.877

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-06 Acquired: 12/23/2024 21:23:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL33 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1647216	-.062564	.2953788	.1056985	.0396418	74.16846	1.057871
Stddev	.0023281	.001282	.0024249	.0024315	.0003673	.16003	.002505
%RSD	1.413373	2.048725	.8209639	2.300439	.9264303	.2157660	.2367555
#1	.1633114	-.062916	.2936603	.1077083	.0400592	73.98407	1.054994
#2	.1634446	-.063633	.2943234	.1029957	.0393682	74.25021	1.059559
#3	.1674088	-.061143	.2981526	.1063916	.0394980	74.27111	1.059062

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073844	.0067123	55.14569	.0990820	.1317982	.2146381	196.6848
Stddev	.0001337	.0001988	.19022	.0004607	.0002843	.0047122	.4198
%RSD	1.810430	2.962155	.3449471	.4649890	.2156835	2.195431	.2134167
#1	.0072308	.0066981	54.97577	.0986360	.1321166	.2100564	196.2078
#2	.0074745	.0069179	55.35119	.0995562	.1315698	.2143871	196.9980
#3	.0074479	.0065210	55.11012	.0990538	.1317083	.2194708	196.8485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.34130	22.82321	.1581516	.0068870	-.434400	.1730539	.4155264
Stddev	.02153	.07327	.0001358	.0005613	.010338	.0057552	.0083808
%RSD	.1317255	.3210410	.0858534	8.150092	2.379946	3.325667	2.016909
#1	16.32166	22.89346	.1580279	.0062762	-.428608	.1694721	.4095842
#2	16.33792	22.74725	.1581301	.0073800	-.428255	.1699972	.4251123
#3	16.36431	22.82892	.1582969	.0070049	-.446336	.1796926	.4118828

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.103287	4.462255	-.004748	.0052136	1.151794	8.008872	.0314606
Stddev	.068725	.007998	.001716	.0002658	.003854	.010712	.0023699
%RSD	2.214598	.1792475	36.14527	5.098336	.3345649	.1337486	7.532905
#1	3.024527	4.453875	-.004558	.0054541	1.147451	8.000126	.0287462
#2	3.151085	4.463083	-.006552	.0049283	1.153128	8.005670	.0325169
#3	3.134248	4.469807	-.003135	.0052585	1.154804	8.020819	.0331186

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-06 Acquired: 12/23/2024 21:23:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL33 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5698017	-.092766	.1063207
Stddev	.0042229	.000252	.0025243
%RSD	.7411154	.2717436	2.374226
#1	.5698070	-.092875	.1050448
#2	.5655762	-.092478	.1046891
#3	.5740220	-.092946	.1092283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.343	38794.34	3167.111	2560.460	1883.612
Stddev	8.456	180.67	13.784	22.219	5.904
%RSD	.2836148	.4657046	.4352326	.8677721	.3134667
#1	2987.908	38585.72	3151.744	2536.304	1890.389
#2	2971.802	38898.53	3178.387	2565.050	1879.572
#3	2984.320	38898.77	3171.200	2580.025	1880.877

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07 Acquired: 12/23/2024 21:26:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513041	-.008376	.1704528	.0280409	.0235388	42.93649	.4668431
Stddev	.0078972	.004571	.0014969	.0035319	.0020273	.30592	.0028456
%RSD	15.39301	54.57045	.8781952	12.59537	8.612384	.7124833	.6095393
#1	.0584633	-.010922	.1697657	.0320110	.0211980	42.95569	.4652768
#2	.0428331	-.011107	.1694229	.0268638	.0246974	43.23236	.4701278
#3	.0526160	-.003099	.1721699	.0252479	.0247211	42.62143	.4651248

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041668	.0031811	586.2557	.0702171	.1017701	.1799890	115.9337
Stddev	.0002142	.0001372	4.6156	.0003216	.0003891	.0046294	1.2353
%RSD	5.139512	4.311601	.7873082	.4580336	.3823321	2.572063	1.065507
#1	.0043473	.0032631	584.8617	.0705110	.1021059	.1853074	115.6759
#2	.0042229	.0030228	591.4076	.0702668	.1013437	.1777960	117.2776
#3	.0039302	.0032575	582.4976	.0698736	.1018607	.1768635	114.8477

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.039618	91.15473	.1138209	.0041635	-1.58828	.1038772	.3816393
Stddev	.059584	.83678	.0007259	.0008199	.82977	.0053617	.0072206
%RSD	.6591401	.9179772	.6377935	19.69195	52.24296	5.161579	1.891992
#1	9.026114	90.77780	.1135707	.0049318	-1.37508	.1081048	.3735793
#2	9.104795	92.11368	.1132531	.0042585	-2.50384	.1056804	.3838213
#3	8.987946	90.57271	.1146389	.0033003	-.88592	.0978463	.3875171

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.682888	4.901178	.0179889	.0025652	1.216291	6.328568	.0323111
Stddev	.117868	.013996	.0006524	.0006026	.007189	.065812	.0016355
%RSD	3.200410	.2855732	3.626641	23.49107	.5911004	1.039921	5.061623
#1	3.571163	4.908710	.0185053	.0032607	1.224213	6.350923	.0341845
#2	3.806062	4.885029	.0172557	.0022005	1.210182	6.380290	.0311680
#3	3.671438	4.909797	.0182056	.0022343	1.214478	6.254490	.0315809

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07 Acquired: 12/23/2024 21:26:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4895648	.3225267	.0732535
Stddev	.0049725	.0027525	.0009666
%RSD	1.015695	.8534239	1.319539
#1	.4943296	.3225448	.0723710
#2	.4899569	.3252700	.0731030
#3	.4844078	.3197651	.0742866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2393.517	31189.23	2611.935	2042.626	1709.547
Stddev	2.539	65.67	25.524	10.290	2.985
%RSD	.1060945	.2105609	.9772131	.5037618	.1746359
#1	2394.707	31263.02	2604.686	2052.540	1710.480
#2	2395.242	31167.51	2590.820	2043.340	1711.956
#3	2390.601	31137.18	2640.300	2031.997	1706.207

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-08 Acquired: 12/23/2024 21:30:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567285	-.011365	.1687958	.0351363	.0188258	42.70046	.4650919
Stddev	.0044916	.000642	.0038198	.0037047	.0008916	.08128	.0025624
%RSD	7.917777	5.646796	2.262992	10.54379	4.735887	.1903395	.5509480
#1	.0582427	-.011847	.1684148	.0394134	.0190917	42.69739	.4642347
#2	.0516755	-.010637	.1651807	.0330672	.0195541	42.78323	.4679730
#3	.0602674	-.011611	.1727918	.0329284	.0178315	42.62077	.4630679

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040927	.0031303	582.0228	.0701014	.1007043	.1762956	115.6978
Stddev	.0000703	.0000640	.6934	.0006576	.0008451	.0014303	.2866
%RSD	1.718497	2.045192	.1191367	.9379926	.8391576	.8113196	.2476736
#1	.0040201	.0032020	582.6019	.0696012	.1016799	.1747111	116.0115
#2	.0041605	.0031101	582.2121	.0708462	.1002309	.1766842	115.4498
#3	.0040975	.0030789	581.2544	.0698569	.1002020	.1774915	115.6321

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.002221	91.12488	.1122986	.0027111	-1.15862	.0993506	.3686747
Stddev	.005568	.21109	.0005734	.0009069	.28619	.0064755	.0151528
%RSD	.0618494	.2316450	.5106122	33.45183	24.70079	6.517796	4.110076
#1	8.996163	90.97726	.1129458	.0017558	-.86913	.1038707	.3558501
#2	9.007115	91.36666	.1118540	.0028170	-1.16536	.0919322	.3647790
#3	9.003383	91.03071	.1120961	.0035603	-1.44139	.1022487	.3853951

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.591741	4.862740	.0178060	.0034157	1.206044	6.288194	.0293829
Stddev	.086170	.014561	.0018239	.0006329	.007083	.056000	.0007239
%RSD	2.399125	.2994464	10.24303	18.52770	.5873130	.8905572	2.463718
#1	3.511459	4.857132	.0199095	.0027869	1.205132	6.351798	.0287151
#2	3.580976	4.851817	.0168420	.0040526	1.199460	6.266489	.0301522
#3	3.682788	4.879272	.0166663	.0034076	1.213539	6.246295	.0292814

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-08 Acquired: 12/23/2024 21:30:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4838817	.3177825	.0686361
Stddev	.0022327	.0015262	.0013453
%RSD	.4614252	.4802639	1.960017
#1	.4863832	.3191990	.0672078
#2	.4820905	.3161662	.0688213
#3	.4831715	.3179822	.0698791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2397.579	31288.60	2615.402	2052.367	1714.372
Stddev	2.956	69.83	19.452	3.333	5.221
%RSD	.1232789	.2231707	.7437444	.1624196	.3045720
#1	2398.907	31321.40	2593.280	2052.423	1715.484
#2	2399.638	31336.00	2629.832	2049.005	1718.948
#3	2394.193	31208.42	2623.093	2055.671	1708.684

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07LX5 Acquired: 12/23/2024 21:34:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054347	.0110535	.0424366	-.011443	.0073431	10.04971	.1070331
Stddev	.0018193	.0050110	.0016144	.002214	.0017362	.04263	.0018896
%RSD	33.47649	45.33399	3.804272	19.35186	23.64392	.4242258	1.765469
#1	.0038785	.0114986	.0418650	-.010751	.0090454	10.03954	.1056092
#2	.0074350	.0158270	.0411857	-.009657	.0055749	10.01308	.1091769
#3	.0049905	.0058347	.0442590	-.013921	.0074090	10.09651	.1063134

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010173	.0004600	137.0341	.0163019	.0416115	.0434020	27.60142
Stddev	.0000843	.0000833	.5129	.0004371	.0004227	.0036767	.09934
%RSD	8.282659	18.10659	.3742956	2.681483	1.015894	8.471303	.3599054
#1	.0010185	.0005172	136.5123	.0168062	.0416632	.0465174	27.48704
#2	.0011009	.0003645	137.0524	.0160310	.0411653	.0393465	27.66611
#3	.0009324	.0004984	137.5377	.0160685	.0420060	.0443421	27.65110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.159385	21.79711	.0213235	.0014059	-1.45180	.0229312	.0934111
Stddev	.004191	.14620	.0003422	.0005217	.74469	.0015454	.0156746
%RSD	.1940945	.6707241	1.604763	37.10448	51.29417	6.739397	16.78029
#1	2.155231	21.71987	.0217185	.0008688	-1.38320	.0218798	.1106164
#2	2.159311	21.70573	.0211351	.0014383	-.74379	.0222081	.0799424
#3	2.163613	21.96572	.0211170	.0019107	-2.22842	.0247056	.0896745

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0882757	.9541557	.0005640	.0028004	.2544089	1.659497	.0079192
Stddev	.0410548	.0034158	.0028711	.0007512	.0043888	.004078	.0024814
%RSD	46.50755	.3579957	509.0750	26.82472	1.725105	.2457531	31.33385
#1	.0472475	.9547720	.0031316	.0021915	.2522400	1.662309	.0102379
#2	.1293572	.9504737	.0010965	.0036399	.2594599	1.661363	.0053021
#3	.0882223	.9572214	-.002536	.0025700	.2515268	1.654820	.0082176

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-07LX5 Acquired: 12/23/2024 21:34:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1230419	.0738315	.0111077
Stddev	.0008982	.0003104	.0007482
%RSD	.7300215	.4203900	6.735588
#1	.1221033	.0738666	.0110439
#2	.1238934	.0735051	.0118857
#3	.1231290	.0741229	.0103934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2134.304	27792.37	2275.915	1826.672	1815.786
Stddev	2.270	81.95	13.842	12.231	2.849
%RSD	.1063522	.2948586	.6081791	.6695706	.1569072
#1	2132.294	27697.79	2291.608	1814.947	1815.506
#2	2136.766	27842.25	2270.692	1825.718	1818.765
#3	2133.851	27837.08	2265.445	1839.353	1813.087

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-09 Acquired: 12/23/2024 21:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1400788	.0751691	.2085314	.1786946	.1699872	46.27471	3.700109
Stddev	.0053246	.0051686	.0029739	.0049985	.0012673	.05313	.005681
%RSD	3.801158	6.876024	1.426090	2.797249	.7455059	.1148101	.1535380
#1	.1461744	.0746252	.2112675	.1839319	.1687690	46.32528	3.704569
#2	.1363354	.0702939	.2089603	.1739751	.1698941	46.21935	3.702046
#3	.1377265	.0805881	.2053664	.1781767	.1712983	46.27950	3.693713

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0853802	.0971474	579.4429	.4074893	1.032020	.5586823	117.1180
Stddev	.0003624	.0001183	1.6287	.0007688	.004020	.0088246	.2634
%RSD	.4244155	.1217261	.2810722	.1886699	.3895588	1.579536	.2248596
#1	.0853194	.0970466	581.0149	.4081119	1.032984	.5648958	117.4221
#2	.0857692	.0971181	579.5508	.4066300	1.027605	.5625696	116.9598
#3	.0850522	.0972776	577.7630	.4077262	1.035470	.5485814	116.9723

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.759703	90.40423	1.063782	.0615004	-.949249	.9354396	1.160228
Stddev	.023763	.37461	.002137	.0005307	1.178061	.0062109	.000567
%RSD	.2434809	.4143678	.2008408	.8628855	124.1045	.6639601	.0488904
#1	9.786827	90.56093	1.065259	.0620631	-2.29608	.9416167	1.159604
#2	9.742551	90.67504	1.061332	.0614294	-.44122	.9355067	1.160711
#3	9.749730	89.97672	1.064755	.0610089	-.11045	.9291954	1.160370

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.913005	4.857090	.0206096	.0035147	1.215034	6.887420	.0306108
Stddev	.027277	.017432	.0017141	.0005684	.012908	.037975	.0018477
%RSD	.6970925	.3588926	8.317079	16.17216	1.062344	.5513671	6.035981
#1	3.943714	4.861336	.0225724	.0041607	1.225894	6.919777	.0285693
#2	3.903716	4.837927	.0198494	.0032925	1.200763	6.896870	.0321682
#3	3.891585	4.872006	.0194071	.0030910	1.218444	6.845612	.0310950

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-09 Acquired: 12/23/2024 21:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5254373	.3158500	.0751743
Stddev	.0090653	.0007125	.0055603
%RSD	1.725284	.2255697	7.396533
#1	.5320951	.3159963	.0688253
#2	.5151130	.3164779	.0791761
#3	.5291037	.3150757	.0775215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.441	31148.98	2613.459	2038.309	1705.498
Stddev	3.784	56.94	12.922	2.567	.876
%RSD	.1588768	.1828015	.4944520	.1259592	.0513815
#1	2385.005	31085.29	2602.404	2040.757	1706.385
#2	2377.470	31166.71	2610.307	2035.636	1705.475
#3	2381.848	31194.95	2627.666	2038.532	1704.633

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-10 Acquired: 12/23/2024 21:42:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL77 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1639003	-.072716	.5708849	.1053102	.0382164	72.44815	.7763787
Stddev	.0023124	.002199	.0013142	.0018149	.0035850	.29645	.0006473
%RSD	1.410842	3.023996	.2302000	1.723360	9.380765	.4091855	.0833709
#1	.1627513	-.070272	.5693688	.1067853	.0346340	72.10606	.7757833
#2	.1665621	-.073343	.5716998	.1032835	.0418039	72.60850	.7762853
#3	.1623875	-.074534	.5715860	.1058618	.0382112	72.62989	.7770677

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081376	.0076024	35.62867	.1173491	.1158397	.2536661	186.4924
Stddev	.0000414	.0001292	.08800	.0004782	.0008431	.0045311	.6630
%RSD	.5081780	1.699779	.2469913	.4074687	.7277771	1.786245	.3555271
#1	.0080922	.0076003	35.53703	.1175786	.1165741	.2485204	185.7667
#2	.0081732	.0074743	35.63648	.1176693	.1160258	.2570587	187.0664
#3	.0081474	.0077327	35.71251	.1167995	.1149191	.2554192	186.6441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.23032	23.16931	.1820111	.0056685	-1.07028	.2050250	.6900206
Stddev	.02573	.13270	.0005909	.0011216	.36510	.0033801	.0140448
%RSD	.2290779	.5727537	.3246580	19.78654	34.11205	1.648644	2.035420
#1	11.20331	23.03528	.1826604	.0059757	-.88166	.2081092	.6861415
#2	11.25453	23.30065	.1818681	.0044253	-.83808	.2014114	.6783230
#3	11.23312	23.17200	.1815048	.0066045	-1.49111	.2055545	.7055972

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.411720	6.034455	.0138254	.0079196	3.439818	9.898730	.0426938
Stddev	.083522	.011853	.0014521	.0005582	.003280	.019584	.0004215
%RSD	1.126885	.1964245	10.50275	7.048087	.0953401	.1978419	.9872862
#1	7.315291	6.030012	.0124907	.0082257	3.437796	9.891359	.0422078
#2	7.458531	6.025464	.0136139	.0082578	3.443602	9.883902	.0429598
#3	7.461337	6.047887	.0153716	.0072754	3.438057	9.920930	.0429138

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-10 Acquired: 12/23/2024 21:42:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL77 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8589104	-.107034	.0682382
Stddev	.0021170	.000271	.0020808
%RSD	.2464771	.2534661	3.049348
#1	.8610414	-.106815	.0658365
#2	.8588822	-.107337	.0693795
#3	.8568076	-.106949	.0694986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.787	35731.49	2892.337	2365.032	1907.489
Stddev	9.344	54.01	11.486	10.739	9.336
%RSD	.3404241	.1511543	.3971052	.4540914	.4894201
#1	2754.174	35746.25	2902.357	2376.726	1914.788
#2	2744.701	35776.58	2894.853	2362.756	1910.710
#3	2735.487	35671.63	2879.802	2355.612	1896.970

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-11 Acquired: 12/23/2024 21:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL78 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1571554	-.066205	.5572358	.0989933	.0354637	68.70497	.7081660
Stddev	.0046307	.001831	.0010378	.0034026	.0018376	.22930	.0013240
%RSD	2.946542	2.766140	.1862478	3.437225	5.181686	.3337387	.1869671
#1	.1624403	-.064143	.5561644	.1021544	.0374324	68.50787	.7092711
#2	.1552165	-.066831	.5573066	.0994336	.0351650	68.95662	.7085284
#3	.1538093	-.067641	.5582365	.0953920	.0337938	68.65042	.7066985

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076992	.0068146	47.39715	.1075849	.1104602	.2515758	176.7645
Stddev	.0001019	.0000706	.05418	.0004255	.0006733	.0016983	.7709
%RSD	1.323156	1.036098	.1143075	.3954797	.6095147	.6750740	.4361420
#1	.0076554	.0068826	47.37284	.1071043	.1098849	.2512012	176.1410
#2	.0076265	.0068197	47.45923	.1079134	.1102950	.2534302	177.6265
#3	.0078156	.0067416	47.35939	.1077370	.1112007	.2500961	176.5258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.39922	26.78748	.1739919	.0048382	-1.34546	.1897211	.6930357
Stddev	.02697	.09440	.0010079	.0006650	.34514	.0027369	.0144786
%RSD	.2593818	.3523863	.5792745	13.74477	25.65202	1.442581	2.089159
#1	10.38420	26.73493	.1745696	.0055616	-1.33324	.1927723	.6839777
#2	10.43036	26.73105	.1728281	.0046994	-1.00660	.1874828	.6853952
#3	10.38310	26.89645	.1745780	.0042535	-1.69655	.1889081	.7097341

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.111581	7.519640	.0148009	.0068374	3.473338	9.848853	.0392533
Stddev	.106203	.019599	.0022640	.0003089	.013490	.024757	.0019959
%RSD	1.493378	.2606415	15.29633	4.518074	.3883834	.2513733	5.084640
#1	6.988971	7.540831	.0172504	.0071710	3.458869	9.829591	.0406496
#2	7.170830	7.502164	.0143671	.0065612	3.475574	9.840190	.0369673
#3	7.174942	7.515925	.0127852	.0067801	3.485570	9.876778	.0401430

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-11 Acquired: 12/23/2024 21:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL78 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7859585	-.087065	.0671325
Stddev	.0010367	.000886	.0046535
%RSD	.1319044	1.017292	6.931841
#1	.7862545	-.086354	.0620602
#2	.7868150	-.088057	.0712045
#3	.7848060	-.086784	.0681327

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2729.335	35523.12	2857.955	2359.771	1900.565
Stddev	2.281	73.86	6.066	3.585	2.564
%RSD	.0835554	.2079245	.2122553	.1519102	.1349335
#1	2730.536	35465.03	2858.999	2355.825	1899.427
#2	2730.764	35606.25	2863.431	2362.825	1903.501
#3	2726.705	35498.10	2851.434	2360.664	1898.766

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-12 Acquired: 12/23/2024 21:49:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL79 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1708488	-.069143	.5935236	.1081687	.0407601	74.69730	.8145861
Stddev	.0034004	.007750	.0018681	.0021150	.0018477	.19076	.0013737
%RSD	1.990277	11.20904	.3147394	1.955249	4.533128	.2553815	.1686346
#1	.1721855	-.067706	.5913751	.1085058	.0414328	74.52280	.8136203
#2	.1669832	-.062211	.5944327	.1100948	.0386703	74.90097	.8161586
#3	.1733778	-.077511	.5947632	.1059054	.0421772	74.66812	.8139793

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083216	.0079063	49.74961	.1121825	.1239963	.2577625	196.5887
Stddev	.0001057	.0000814	.20939	.0006422	.0011360	.0076964	.5763
%RSD	1.270076	1.029056	.4208824	.5724899	.9161409	2.985856	.2931405
#1	.0082783	.0078145	49.67346	.1124028	.1231035	.2547948	195.9403
#2	.0082444	.0079349	49.98642	.1114591	.1236104	.2665010	197.0424
#3	.0084421	.0079695	49.58896	.1126855	.1252750	.2519917	196.7832

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.88335	31.90966	.1902789	.0051027	-1.46339	.1997507	.6766318
Stddev	.01979	.06640	.0003575	.0008577	.21384	.0051489	.0062724
%RSD	.1665049	.2081010	.1878679	16.80939	14.61267	2.577640	.9270046
#1	11.87647	31.90155	.1904552	.0042114	-1.64178	.2050683	.6739267
#2	11.90566	31.97975	.1898675	.0059224	-1.22634	.1947890	.6838029
#3	11.86793	31.84769	.1905139	.0051744	-1.52203	.1993947	.6721659

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.291607	5.550870	.0089931	.0057502	2.743703	8.235288	.0402948
Stddev	.195526	.016637	.0031956	.0001241	.015957	.057360	.0005756
%RSD	3.107733	.2997125	35.53370	2.158623	.5815807	.6965207	1.428473
#1	6.278030	5.537910	.0053082	.0056953	2.740418	8.231911	.0396427
#2	6.493569	5.545069	.0110016	.0056629	2.729644	8.179691	.0407322
#3	6.103224	5.569630	.0106696	.0058923	2.761046	8.294263	.0405096

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5063-12 Acquired: 12/23/2024 21:49:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL79 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7069434	-.110514	.0736502
Stddev	.0024003	.000449	.0011534
%RSD	.3395316	.4059498	1.566107
#1	.7047476	-.110220	.0731518
#2	.7095060	-.110290	.0749690
#3	.7065766	-.111030	.0728298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.139	36767.13	3002.518	2440.923	1880.459
Stddev	9.125	149.83	13.347	9.564	7.039
%RSD	.3234366	.4075003	.4445265	.3918075	.3743469
#1	2831.580	36755.91	3012.771	2449.385	1886.718
#2	2817.139	36623.23	3007.356	2430.547	1881.820
#3	2814.697	36922.25	2987.427	2442.838	1872.838

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 12/23/2024 21:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.986639	4.714978	23.96071	4.811410	4.801980	392.5702	9.919332
Stddev	.012084	.013116	.03690	.018768	.011547	.8412	.028306
%RSD	.2423309	.2781843	.1540153	.3900732	.2404538	.2142803	.2853583
#1	4.980700	4.716845	23.95899	4.811899	4.796935	392.6782	9.942240
#2	4.978675	4.701028	23.92470	4.792402	4.793814	393.3521	9.928068
#3	5.000544	4.727061	23.99845	4.829928	4.815190	391.6802	9.887688

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4896515	2.411255	399.1338	15.06764	2.425948	14.75167	402.3591
Stddev	.0023846	.004137	.6880	.02416	.002740	.07998	1.2551
%RSD	.4869889	.1715776	.1723633	.1603747	.1129389	.5421449	.3119476
#1	.4910772	2.411929	398.7864	15.09471	2.425595	14.66932	402.7672
#2	.4868987	2.406822	399.9262	15.04825	2.423402	14.82904	403.3595
#3	.4909788	2.415014	398.6889	15.05997	2.428848	14.75664	400.9507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.71092	396.7161	2.429184	1.251552	392.9182	2.475265	14.91834
Stddev	.05266	1.2469	.002044	.002542	1.5219	.014247	.15684
%RSD	.3579514	.3143001	.0841571	.2031229	.3873388	.5755940	1.051295
#1	14.69936	396.0623	2.429535	1.254480	393.4107	2.474607	14.74343
#2	14.76840	398.1539	2.426987	1.249900	394.1329	2.489831	14.96516
#3	14.66501	395.9320	2.431030	1.250276	391.2110	2.461359	15.04643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	146.1504	4.836513	4.730234	4.780662	4.828685	4.624987	4.862971
Stddev	.8525	.005548	.020722	.017971	.015703	.018883	.011667
%RSD	.5832752	.1147110	.4380673	.3759062	.3251937	.4082884	.2399176
#1	145.9868	4.841983	4.750621	4.772721	4.823946	4.643486	4.859672
#2	147.0729	4.830890	4.709193	4.768029	4.815899	4.605741	4.853309
#3	145.3917	4.836666	4.730889	4.801235	4.846212	4.625735	4.875933

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 12/23/2024 21:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.898648	4.663305	4.924516
Stddev	.016261	.011779	.008639
%RSD	.3319412	.2525794	.1754306
#1	4.884945	4.650090	4.925590
#2	4.894384	4.672697	4.932568
#3	4.916616	4.667129	4.915390

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1811.917	24611.68	2132.801	1541.944	1582.189
Stddev	4.171	42.12	8.823	8.543	.978
%RSD	.2301730	.1711268	.4136969	.5540352	.0618058
#1	1811.849	24567.88	2124.822	1544.019	1581.207
#2	1816.122	24651.89	2142.277	1549.258	1583.162
#3	1807.781	24615.27	2131.304	1532.554	1582.198

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 12/23/2024 21:57:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004902	-.001488	.0050765	.0043473	.0001835	.0405252	-.002226
Stddev	.0035607	.004899	.0014644	.0042841	.0006145	.0338900	.000557
%RSD	726.4180	329.3451	28.84604	98.54860	334.8743	83.62696	25.00630
#1	.0043590	-.006029	.0065616	.0023268	-.000094	.0761137	-.002866
#2	-.002650	-.002138	.0036337	.0014469	.000888	.0368244	-.001848
#3	-.000239	.003704	.0050342	.0092680	-.000243	.0086375	-.001965

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000384	.0000136	-.015477	-.000126	-.000128	.0057395	.0326924
Stddev	.0000969	.0001024	.028309	.000171	.000044	.0015477	.0378230
%RSD	252.0580	755.3984	182.9084	135.8034	34.24447	26.96660	115.6932
#1	-.000047	-.000084	.002756	.000047	-.000101	.0075241	.0195584
#2	.000018	.000005	-.048090	-.000131	-.000104	.0047643	.0753316
#3	.000144	.000120	-.001098	-.000294	-.000178	.0049300	.0031874

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028592	.0143843	.0009074	.0004157	-1.14798	.0001972	-.001337
Stddev	.0018174	.0739891	.0004978	.0007819	.91063	.0056600	.007341
%RSD	63.56418	514.3744	54.85509	188.0823	79.32396	2869.680	549.1115
#1	.0013464	.0385519	.0012418	.0010918	-1.17798	-.006173	.004233
#2	.0048752	-.068667	.0003354	-.000441	-.22273	.004647	.001412
#3	.0023560	.073268	.0011451	.000596	-2.04324	.002118	-.009656

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.898485	.0004903	.0051895	.0003092	-.005433	-.082672	-.000836
Stddev	.088315	.0005126	.0004639	.0004559	.001698	.000801	.001859
%RSD	9.829309	104.5609	8.938371	147.4625	31.26018	.9682977	222.3505
#1	-.999558	.0010708	.0051842	.0001971	-.007080	-.082645	-.001283
#2	-.836217	.0000998	.0056560	-.000080	-.005531	-.083486	.001206
#3	-.859679	.0003002	.0047284	.000811	-.003688	-.081886	-.002430

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 12/23/2024 21:57:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0000420	.0001857	.0013333
Stddev	.0025925	.0001824	.0010820
%RSD	6178.864	98.21362	81.15081
#1	-.000608	.0003930	.0025762
#2	.002898	.0001138	.0006018
#3	-.002164	.0000502	.0008220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2009.783	26313.39	2142.092	1742.036	1820.190
Stddev	7.680	101.50	11.343	13.435	7.133
%RSD	.3821138	.3857531	.5295313	.7712432	.3918870
#1	2017.420	26233.10	2155.186	1728.531	1826.477
#2	2009.868	26427.48	2135.813	1755.400	1821.654
#3	2002.061	26279.58	2135.277	1742.178	1812.438

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01 Acquired: 12/23/2024 22:01:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703631	-.028155	.3826370	.0401822	.0239615	53.24332
Stddev	.0043954	.002870	.0019111	.0030388	.0015001	.10273
%RSD	6.246785	10.19205	.4994639	7.562630	6.260495	.1929485
#1	.0735025	-.028999	.3824389	.0410960	.0256704	53.16377
#2	.0653398	-.030509	.3808326	.0367914	.0233519	53.20690
#3	.0722472	-.024959	.3846394	.0426593	.0228622	53.35930

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6952261	.0055085	.0037268	231.0478	.0887510	.0795028
Stddev	.0009937	.0001807	.0000662	.3427	.0003927	.0006028
%RSD	.1429374	3.279662	1.775478	.1483202	.4424814	.7581717
#1	.6959519	.0056336	.0036504	231.1246	.0892044	.0797931
#2	.6940935	.0053014	.0037668	230.6733	.0885282	.0788098
#3	.6956329	.0055905	.0037631	231.3456	.0885203	.0799055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0869335	116.0938	2.708690	92.37181	.0971205	.0027612
Stddev	.0031883	.2729	.004809	.10116	.0006796	.0014737
%RSD	3.667505	.2350944	.1775331	.1095151	.6997852	53.37026
#1	.0851219	115.9951	2.707756	92.39362	.0978106	.0027825
#2	.0906149	115.8840	2.704416	92.26152	.0964518	.0042241
#3	.0850637	116.4024	2.713897	92.46029	.0970992	.0012770

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.973596	.1408360	.5655888	3.840009	F 12.49066	.0188718
Stddev	.629687	.0027213	.0066511	.027587	.05097	.0015515
%RSD	64.67645	1.932214	1.175968	.7184119	.4080471	8.221283
#1	-1.20581	.1380549	.5624402	3.808811	12.49640	.0187189
#2	-.26078	.1434932	.5732296	3.861183	12.43706	.0204942
#3	-1.45420	.1409598	.5610966	3.850033	12.53851	.0174025

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01 Acquired: 12/23/2024 22:01:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052710	1.770068	7.083483	.0344183	.8415743	.1230710
Stddev	.0003134	.005024	.074821	.0011002	.0012501	.0008162
%RSD	5.946572	.2838510	1.056273	3.196596	.1485484	.6632185
#1	.0049100	1.768073	7.090932	.0356232	.8418813	.1232287
#2	.0054738	1.766348	7.005217	.0341647	.8401993	.1221874
#3	.0054292	1.775784	7.154301	.0334670	.8426424	.1237968

Elem	Li6707
Units	ppm
Avg	.0977170
Stddev	.0030384
%RSD	3.109421
#1	.0972428
#2	.1009646
#3	.0949435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.458	33007.32	2723.751	2163.539	1774.269
Stddev	9.496	71.66	17.025	10.595	9.372
%RSD	.3760301	.2170952	.6250418	.4897255	.5282055
#1	2528.176	32925.50	2724.048	2152.288	1773.794
#2	2533.300	33037.54	2740.625	2165.002	1783.869
#3	2514.899	33058.92	2706.579	2173.327	1765.144

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-02 Acquired: 12/23/2024 22:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0598523	-.026266	.3830238	.0383362	.0248959	52.29370
Stddev	.0022686	.004068	.0034897	.0050783	.0052209	.15147
%RSD	3.790338	15.48572	.9110999	13.24685	20.97081	.2896431
#1	.0585378	-.021924	.3851495	.0422297	.0268006	52.12040
#2	.0585472	-.026888	.3849257	.0401868	.0189901	52.35997
#3	.0624718	-.029988	.3789963	.0325921	.0288969	52.40075

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6848771	.0053894	.0037892	227.6094	.0876550	.0801279
Stddev	.0018326	.0001941	.0001100	.7123	.0002601	.0010620
%RSD	.2675855	3.602243	2.901667	.3129336	.2966788	1.325336
#1	.6830323	.0055412	.0038773	226.7933	.0875741	.0805494
#2	.6866973	.0051707	.0038244	227.9290	.0874450	.0789199
#3	.6849018	.0054564	.0036660	228.1058	.0879459	.0809144

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0869953	114.1100	2.657668	90.52022	.0976035	.0019580
Stddev	.0047482	.3017	.008630	.33378	.0004121	.0009555
%RSD	5.458004	.2644370	.3247211	.3687385	.4222100	48.79825
#1	.0816918	113.8885	2.652397	90.61918	.0971473	.0026880
#2	.0908513	113.9877	2.652979	90.14815	.0977145	.0023094
#3	.0884429	114.4536	2.667627	90.79334	.0979487	.0008766

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64841	.1410920	.5809434	3.759178	F 12.47309	.0171684
Stddev	.25759	.0091115	.0079388	.093043	.01023	.0024456
%RSD	15.62654	6.457857	1.366532	2.475082	.0820005	14.24490
#1	-1.92185	.1512973	.5737515	3.803578	12.48004	.0187787
#2	-1.61303	.1382049	.5796167	3.652253	12.46135	.0183724
#3	-1.41033	.1337738	.5894619	3.821704	12.47789	.0143542

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-02 Acquired: 12/23/2024 22:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048748	1.774511	7.084397	.0359072	.8449052	.1219775
Stddev	.0006328	.003897	.094783	.0013384	.0048147	.0012334
%RSD	12.98173	.2196060	1.337913	3.727374	.5698454	1.011188
#1	.0043334	1.778128	7.104858	.0364789	.8440996	.1206980
#2	.0055705	1.770384	6.981054	.0368649	.8405441	.1231590
#3	.0047205	1.775022	7.167278	.0343779	.8500718	.1220754

Elem	Li6707
Units	ppm
Avg	.0937619
Stddev	.0050279
%RSD	5.362366
#1	.0883981
#2	.0945199
#3	.0983678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2529.157	33443.61	2751.127	2199.363	1774.289
Stddev	2.385	131.10	30.497	15.913	2.728
%RSD	.0943073	.3920022	1.108525	.7235396	.1537347
#1	2529.283	33389.38	2744.334	2192.950	1776.664
#2	2531.477	33348.34	2784.448	2187.657	1774.892
#3	2526.711	33593.13	2724.599	2217.482	1771.310

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01LX5 Acquired: 12/23/2024 22:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050548	.0035223	.0840348	-.001359	.0088921	12.53415	.1628558
Stddev	.0049635	.0005282	.0022781	.002664	.0011667	.03599	.0019561
%RSD	98.19291	14.99531	2.710852	196.0763	13.12053	.2871644	1.201135
#1	.0076273	.0037280	.0866144	-.004414	.0098981	12.50551	.1611789
#2	.0082040	.0029222	.0822989	.000482	.0091653	12.57456	.1650048
#3	-.000667	.0039166	.0831911	-.000144	.0076131	12.52239	.1623836

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013819	.0006409	55.60749	.0215260	.0307906	.0250757	28.02358
Stddev	.0001408	.0001256	.10164	.0004605	.0005055	.0080295	.05097
%RSD	10.18936	19.59612	.1827809	2.139371	1.641737	32.02104	.1818868
#1	.0013268	.0007846	55.66089	.0217697	.0313306	.0159828	27.99810
#2	.0012770	.0005522	55.67131	.0209948	.0303287	.0280529	28.08227
#3	.0015420	.0005859	55.49028	.0218135	.0307126	.0311914	27.99037

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6573115	22.42800	.0183286	.0004518	-1.45632	.0326506	.1499989
Stddev	.0032288	.04809	.0003666	.0006939	.68207	.0050832	.0114279
%RSD	.4912184	.2144041	2.000001	153.5814	46.83536	15.56848	7.618677
#1	.6566116	22.40319	.0186915	.0012425	-1.39073	.0327039	.1430689
#2	.6608328	22.39739	.0179585	-.000056	-2.16881	.0275409	.1631891
#3	.6544899	22.48343	.0183358	.000169	-.80941	.0377069	.1437388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1846344	2.503676	.0001732	.0029949	.3571559	1.684222	.0090262
Stddev	.1297286	.005274	.0025181	.0003497	.0052596	.007135	.0012438
%RSD	70.26240	.2106688	1454.014	11.67693	1.472621	.4236327	13.77986
#1	.1668430	2.508978	.0029144	.0033948	.3632000	1.681655	.0079930
#2	.0647198	2.498430	-.002037	.0027462	.3536199	1.692285	.0086789
#3	.3223405	2.503620	-.000358	.0028438	.3546477	1.678725	.0104067

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-01LX5 Acquired: 12/23/2024 22:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2023755	.0294995	.0158532
Stddev	.0007007	.0004578	.0033571
%RSD	.3462125	1.551925	21.17597
#1	.2023032	.0293923	.0164620
#2	.2031096	.0300014	.0122335
#3	.2017139	.0291048	.0188643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.112	28197.08	2299.863	1863.519	1839.834
Stddev	1.424	171.98	14.594	10.138	2.426
%RSD	.0657394	.6099224	.6345486	.5440479	.1318667
#1	2167.434	28026.73	2291.198	1852.794	1841.442
#2	2164.604	28370.65	2291.679	1872.945	1837.043
#3	2166.296	28193.86	2316.713	1864.820	1841.018

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-03 Acquired: 12/23/2024 22:13:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1428578	.0553519	.4143581	.1832370	.1679505	55.34411
Stddev	.0050869	.0046903	.0033042	.0030135	.0016649	.73252
%RSD	3.560781	8.473532	.7974201	1.644570	.9913139	1.323575
#1	.1465743	.0499468	.4142624	.1838350	.1698698	55.85865
#2	.1449387	.0583492	.4111028	.1799693	.1670880	54.50544
#3	.1370604	.0577597	.4177091	.1859066	.1668939	55.66824

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.849473	.0847443	.0988768	227.3017	.4221406	1.019297
Stddev	.053426	.0005563	.0002188	3.1272	.0016598	.003478
%RSD	1.387867	.6564523	.2212636	1.375804	.3931877	.3412647
#1	3.884981	.0853394	.0987531	229.8716	.4220361	1.016001
#2	3.788031	.0846561	.0987480	223.8198	.4205355	1.018957
#3	3.875408	.0842373	.0991294	228.2136	.4238502	1.022933

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4569498	115.8177	3.462931	90.92261	1.054273	.0595713
Stddev	.0101839	1.6099	.056817	1.40172	.002951	.0003951
%RSD	2.228664	1.390035	1.640727	1.541661	.2799157	.6633147
#1	.4662027	117.1661	3.509378	91.82864	1.051711	.0591151
#2	.4460385	114.0353	3.399580	89.30807	1.053609	.0597899
#3	.4586082	116.2517	3.479835	91.63113	1.057500	.0598088

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.14954	.9474573	1.285005	3.810899	F 12.35840	.0165097
Stddev	.49473	.0192107	.022294	.169843	.04264	.0023376
%RSD	43.03742	2.027610	1.734914	4.456780	.3450624	14.15906
#1	-.57830	.9559658	1.281781	3.946895	12.32776	.0191583
#2	-1.43022	.9254616	1.264499	3.620526	12.34033	.0156361
#3	-1.44010	.9609443	1.308735	3.865274	12.40710	.0147347

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5071-03 Acquired: 12/23/2024 22:13:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046343	1.760575	7.043156	.0359711	.8412412	.1210393
Stddev	.0003470	.011367	.037781	.0014821	.0172585	.0022857
%RSD	7.488581	.6456256	.5364226	4.120138	2.051551	1.888415
#1	.0043222	1.747650	7.086655	.0368843	.8488779	.1233093
#2	.0050080	1.765064	7.024288	.0342611	.8214819	.1187381
#3	.0045727	1.769012	7.018525	.0367680	.8533639	.1210704

Elem	Li6707
Units	ppm
Avg	.0951593
Stddev	.0032702
%RSD	3.436592
#1	.0952986
#2	.0918216
#3	.0983577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2527.981	32920.99	2724.207	2159.370	1779.852
Stddev	4.759	257.47	29.089	24.830	4.554
%RSD	.1882610	.7820808	1.067783	1.149877	.2558676
#1	2532.456	32717.70	2691.994	2133.816	1785.004
#2	2522.981	33210.50	2748.553	2183.406	1776.363
#3	2528.507	32834.75	2732.074	2160.887	1778.190

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BL Acquired: 12/23/2024 22:16:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS507 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018953	-.000870	-.001124	.0023130	.0012984	.0366520	-.000344
Stddev	.0053429	.002453	.002104	.0053631	.0013777	.0112424	.001338
%RSD	281.9017	282.0044	187.1375	231.8637	106.1071	30.67323	388.5481
#1	.0032988	.001819	-.003353	.0028715	-.000133	.0489649	-.001841
#2	-.004009	-.002987	-.000848	-.003307	.002615	.0340573	.000070
#3	.006396	-.001442	.000828	.007375	.001413	.0269339	.000737

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	-.000036	-.018598	-.001101	-.000113	.0029094	.0093647
Stddev	.000101	.000096	.004110	.000681	.000315	.0033623	.0217929
%RSD	103.8330	266.8901	22.09721	61.88179	278.4136	115.5666	232.7133
#1	-.000020	-.000083	-.023322	-.000971	-.000476	.0051584	.0278445
#2	-.000211	.000075	-.015851	-.001837	.000063	-.000956	-.014667
#3	-.000059	-.000099	-.016620	-.000493	.000074	.004526	.014917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012121	.1083328	.0003694	-.000238	-2.07540	-.001251	.0048528
Stddev	.0009422	.0972520	.0005941	.001285	.33126	.010633	.0194531
%RSD	77.72826	89.77151	160.8499	540.4358	15.96115	850.1150	400.8656
#1	.0006439	.0957637	.0010415	.000429	-1.73281	.001110	.0196769
#2	.0006928	.0179764	-.000086	-.001719	-2.09936	-.012866	-.017175
#3	.0022997	.2112582	.000153	.000577	-2.39403	.008004	.012056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.07365	.0012655	-.005457	.0005244	-.005896	-.083302	.0005108
Stddev	.14914	.0016492	.000707	.0005531	.008323	.001012	.0010649
%RSD	13.89107	130.3159	12.95380	105.4726	141.1656	1.214433	208.4782
#1	-.99821	.0028530	-.006254	.0010294	-.014093	-.083389	-.000295
#2	-1.24545	.0013826	-.004907	-.000067	.002547	-.084268	.000110
#3	-.97731	-.000439	-.005211	.000611	-.006142	-.082250	.001718

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BL Acquired: 12/23/2024 22:16:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS507 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001662	.0002216	-.009862
Stddev	.005314	.0000861	.004909
%RSD	319.7013	38.87254	49.77695
#1	-.000051	.0001394	-.015495
#2	.002660	.0002143	-.007592
#3	-.007596	.0003112	-.006499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.544	26407.48	2178.177	1743.698	1842.638
Stddev	.715	147.48	15.614	9.714	1.668
%RSD	.0351155	.5584661	.7168423	.5570895	.0905104
#1	2037.186	26286.95	2172.367	1734.759	1840.969
#2	2036.672	26363.55	2166.301	1742.301	1842.640
#3	2035.773	26571.93	2195.863	1754.035	1844.304

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BS Acquired: 12/23/2024 22:20:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS507 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237884	.0495025	.0205659	.0646048	.1075513	.4293103
Stddev	.0023950	.0045310	.0023315	.0030916	.0026568	.0187948
%RSD	10.06786	9.152989	11.33689	4.785463	2.470274	4.377917
#1	.0264691	.0534840	.0215122	.0671196	.1102018	.4117428
#2	.0230367	.0504514	.0179100	.0655417	.1048882	.4270584
#3	.0218595	.0445723	.0222755	.0611531	.1075640	.4491296

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3948774	.0099549	.0095630	9.750266	.0198910	.0985489
Stddev	.0017516	.0001497	.0000792	.062650	.0007476	.0012156
%RSD	.4435890	1.503718	.8279763	.6425499	3.758552	1.233473
#1	.3961422	.0100437	.0096428	9.813496	.0204763	.0988696
#2	.3956119	.0100389	.0094845	9.749091	.0190488	.0972051
#3	.3928781	.0097821	.0095617	9.688212	.0201480	.0995720

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0599677	.1955541	.0329945	10.17303	.0768423	.0188064
Stddev	.0082412	.0391766	.0007482	.16249	.0003002	.0007899
%RSD	13.74276	20.03366	2.267668	1.597242	.3906454	4.200121
#1	.0528822	.2055792	.0334492	10.34315	.0771431	.0179723
#2	.0690118	.2287440	.0321310	10.15648	.0765427	.0189036
#3	.0580092	.1523390	.0334034	10.01945	.0768411	.0195431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.680130	.1124339	.1193152	8.312156	.0183148	F -.007309
Stddev	.463225	.0074058	.0067244	.231145	.0005236	.002568
%RSD	5.336613	6.586815	5.635800	2.780810	2.858941	35.13911
#1	9.049893	.1092377	.1123747	8.562564	.0178263	-.004344
#2	8.160534	.1209010	.1258003	8.266953	.0188676	-.008849
#3	8.829963	.1071628	.1197706	8.106952	.0182505	-.008735

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: PB165507BS Acquired: 12/23/2024 22:20:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS507 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201737	.1727626	F .3705651	.0112469	.1916281	.1985199
Stddev	.0007217	.0008325	.0032145	.0001455	.0022230	.0009577
%RSD	3.577564	.4818954	.8674542	1.294012	1.160054	.4824132
#1	.0193473	.1721989	.3742755	.0110878	.1937904	.1995175
#2	.0206800	.1723700	.3686251	.0113734	.1893490	.1976079
#3	.0204939	.1737188	.3687946	.0112794	.1917449	.1984343

Elem	Li6707
Units	ppm
Avg	F .0199685
Stddev	.0024945
%RSD	12.49235
#1	.0198127
#2	.0175555
#3	.0225373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2076.445	26915.20	2199.159	1780.823	1880.402
Stddev	14.625	37.81	15.860	3.652	11.247
%RSD	.7043060	.1404842	.7211863	.2050600	.5980962
#1	2066.184	26872.36	2182.525	1784.245	1872.231
#2	2093.191	26929.33	2200.843	1776.978	1893.229
#3	2069.961	26943.91	2214.111	1781.247	1875.747

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-01 Acquired: 12/23/2024 22:24:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1991573	-.092151	.3351148	.1142794	.0491053	68.69758
Stddev	.0061374	.002577	.0020614	.0030391	.0014617	.03702
%RSD	3.081685	2.796569	.6151303	2.659343	2.976554	.0538935
#1	.2036965	-.091728	.3342318	.1118831	.0486035	68.66134
#2	.1921745	-.094913	.3336419	.1176978	.0507517	68.73534
#3	.2016010	-.089811	.3374706	.1132574	.0479606	68.69605

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7074925	.0087287	.0042533	123.9754	.1085335	.1798538
Stddev	.0015018	.0000868	.0001274	.0586	.0007828	.0011328
%RSD	.2122703	.9944286	2.995283	.0472664	.7212718	.6298213
#1	.7064573	.0087839	.0044003	124.0252	.1076296	.1797076
#2	.7092149	.0087735	.0041755	123.9902	.1089797	.1788012
#3	.7068053	.0086286	.0041840	123.9109	.1089911	.1810525

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2429292	242.0467	6.255063	46.39509	.2096344	.0064281
Stddev	.0025018	.5422	.013638	.21750	.0016524	.0007143
%RSD	1.029859	.2240074	.2180340	.4688058	.7882316	11.11276
#1	.2400872	241.9373	6.246773	46.15393	.2111827	.0071948
#2	.2439015	242.6353	6.270804	46.57640	.2078946	.0063085
#3	.2447990	241.5676	6.247613	46.45495	.2098259	.0057812

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.999395	.1990357	.5199901	5.148399	F 10.45514	.0102345
Stddev	.475148	.0085940	.0110802	.048840	.03883	.0054884
%RSD	47.54357	4.317839	2.130849	.9486453	.3713563	53.62711
#1	-.911099	.2036757	.5184420	5.126920	10.44351	.0060356
#2	-1.51250	.2043124	.5317630	5.113980	10.42345	.0164449
#3	-.57459	.1891190	.5097654	5.204298	10.49845	.0082230

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-01 Acquired: 12/23/2024 22:24:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041380	.6846290	4.743947	.0282056	.6187576	-.098345
Stddev	.0004295	.0059145	.037125	.0011492	.0023786	.000385
%RSD	10.37810	.8639001	.7825663	4.074247	.3844161	.3914067
#1	.0040383	.6778087	4.786626	.0286754	.6207888	-.097946
#2	.0037673	.6877336	4.726091	.0268959	.6161409	-.098714
#3	.0046086	.6883448	4.719125	.0290454	.6193431	-.098375

Elem	Li6707
Units	ppm
Avg	.0982951
Stddev	.0011156
%RSD	1.134966
#1	.0988350
#2	.0990381
#3	.0970123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2755.488	35942.00	2966.175	2367.393	1833.952
Stddev	6.820	81.78	19.822	10.067	6.795
%RSD	.2475023	.2275413	.6682580	.4252291	.3705334
#1	2763.075	35969.91	2943.487	2367.895	1839.802
#2	2753.524	35849.91	2974.908	2357.085	1835.555
#3	2749.866	36006.17	2980.132	2377.200	1826.498

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-02 Acquired: 12/23/2024 22:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046288	-.052309	10.80099	.0718409	.0329838	65.33065
Stddev	.0048170	.002283	.01068	.0042065	.0008384	.21435
%RSD	4.603879	4.363712	.0988910	5.855236	2.541890	.3281033
#1	.1020416	-.053037	10.78950	.0714160	.0322253	65.53296
#2	.1101866	-.049751	10.80283	.0678630	.0328420	65.35298
#3	.1016583	-.054138	10.81063	.0762437	.0338840	65.10601

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9707263	.0076108	.0062404	85.50200	.1188507	.0977174
Stddev	.0007456	.0002138	.0002081	.13968	.0005292	.0002997
%RSD	.0768077	2.808843	3.334603	.1633614	.4452913	.3067418
#1	.9702936	.0078494	.0060054	85.58757	.1192759	.0973739
#2	.9702980	.0075460	.0063146	85.57763	.1182580	.0979260
#3	.9715872	.0074369	.0064013	85.34082	.1190182	.0978523

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3373776	147.0831	4.936566	27.48176	.1895110	.0036242
Stddev	.0032613	.2303	.011175	.04564	.0005286	.0000796
%RSD	.9666530	.1565745	.2263652	.1660871	.2789078	2.196496
#1	.3397935	147.2612	4.949345	27.50689	.1901133	.0035691
#2	.3386712	147.1651	4.928630	27.50932	.1891247	.0037154
#3	.3336679	146.8230	4.931722	27.42908	.1892948	.0035880

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.15776	.1899026	.9587636	8.203483	F 14.93010	.0275719
Stddev	.36136	.0060282	.0116711	.026204	.01835	.0014525
%RSD	31.21223	3.174346	1.217308	.3194242	.1228929	5.268092
#1	-1.42378	.1858521	.9453903	8.185633	14.91782	.0284959
#2	-.74635	.1870254	.9668927	8.233567	14.92128	.0258977
#3	-1.30315	.1968303	.9640079	8.191250	14.95119	.0283222

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-02 Acquired: 12/23/2024 22:28:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075694	4.395722	5.741074	.1681193	.7557296	.0612854
Stddev	.0006146	.012267	.083095	.0007587	.0031085	.0008083
%RSD	8.119486	.2790662	1.447370	.4512858	.4113309	1.318964
#1	.0082698	4.391548	5.829865	.1676579	.7552399	.0612123
#2	.0071204	4.386087	5.728174	.1689950	.7590539	.0621277
#3	.0073179	4.409532	5.665185	.1677052	.7528950	.0605160

Elem	Li6707
Units	ppm
Avg	.0846726
Stddev	.0032232
%RSD	3.806662
#1	.0883129
#2	.0821813
#3	.0835237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2636.837	34571.04	2810.418	2267.299	1886.660
Stddev	1.791	183.52	21.061	10.197	2.024
%RSD	.0679077	.5308393	.7493981	.4497299	.1073039
#1	2636.120	34781.55	2793.106	2278.557	1887.663
#2	2638.876	34444.74	2804.284	2264.656	1887.987
#3	2635.517	34486.83	2833.866	2258.684	1884.330

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-03 Acquired: 12/23/2024 22:32:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1103508	-.047659	1.199448	.0712493	.0279247	67.27983
Stddev	.0022572	.000586	.004017	.0030254	.0021057	.24549
%RSD	2.045464	1.229497	.3348730	4.246226	7.540776	.3648854
#1	.1117884	-.047831	1.197931	.0696466	.0270506	67.02680
#2	.1077492	-.048140	1.196411	.0747389	.0263968	67.51702
#3	.1115149	-.047007	1.204002	.0693624	.0303267	67.29568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033535	.0078470	.0065237	74.65471	.1195705	.0982290
Stddev	.003592	.0001446	.0001440	.25503	.0001338	.0006723
%RSD	.3475004	1.842361	2.207342	.3416171	.1119355	.6843859
#1	1.031259	.0079755	.0066181	74.40957	.1194740	.0988904
#2	1.037675	.0078749	.0063580	74.91860	.1195142	.0975464
#3	1.031672	.0076905	.0065952	74.63597	.1197233	.0982503

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2912880	143.5281	5.043594	26.40968	.1886684	.0036146
Stddev	.0055887	.5248	.009969	.02353	.0001531	.0005347
%RSD	1.918629	.3656697	.1976500	.0890801	.0811511	14.79379
#1	.2938259	143.0304	5.035110	26.38930	.1887453	.0037210
#2	.2951574	144.0764	5.054573	26.43542	.1887678	.0040881
#3	.2848806	143.4774	5.041098	26.40431	.1884921	.0030346

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.56398	.1912313	.9572665	5.753728	F 14.85223	.0159350
Stddev	.54107	.0033866	.0204943	.133063	.01075	.0011891
%RSD	34.59576	1.770927	2.140924	2.312644	.0723841	7.462143
#1	-2.11522	.1892409	.9582974	5.613398	14.85618	.0157876
#2	-1.54305	.1951416	.9362762	5.878081	14.84006	.0148265
#3	-1.03368	.1893115	.9772260	5.769706	14.86045	.0171909

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-03 Acquired: 12/23/2024 22:32:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071495	3.412164	5.798655	.0827374	.7263435	.0715701
Stddev	.0001937	.010265	.036907	.0008120	.0018234	.0010213
%RSD	2.708853	.3008444	.6364826	.9814262	.2510339	1.426983
#1	.0069678	3.415819	5.831669	.0832086	.7242438	.0704962
#2	.0073532	3.420101	5.805487	.0832037	.7275280	.0716853
#3	.0071275	3.400571	5.758808	.0817997	.7272588	.0725290

Elem	Li6707
Units	ppm
Avg	.0892974
Stddev	.0030006
%RSD	3.360196
#1	.0873084
#2	.0878350
#3	.0927488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.632	34302.98	2790.288	2268.205	1853.740
Stddev	11.175	112.73	19.994	7.455	3.440
%RSD	.4252964	.3286411	.7165398	.3286554	.1855703
#1	2640.038	34310.53	2779.761	2270.961	1857.712
#2	2618.354	34186.65	2777.759	2273.890	1851.707
#3	2624.503	34411.74	2813.346	2259.765	1851.802

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-04 Acquired: 12/23/2024 22:36:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1427876	-.073868	9.653890	.1028361	.0376128	63.73978
Stddev	.0058447	.003991	.021081	.0017979	.0030961	.14695
%RSD	4.093288	5.403183	.2183669	1.748326	8.231433	.2305406
#1	.1424416	-.078060	9.642274	.1037515	.0370669	63.88967
#2	.1487976	-.070114	9.641173	.1007647	.0348261	63.73369
#3	.1371235	-.073430	9.678224	.1039921	.0409456	63.59597

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062252	.0086302	.0071100	345.7738	.0983754	.1185590
Stddev	.004632	.0000609	.0000469	1.3136	.0006015	.0001184
%RSD	.4360853	.7055158	.6592086	.3798979	.6114192	.0998763
#1	1.063746	.0085890	.0071575	346.5189	.0990582	.1184346
#2	1.065953	.0087001	.0071089	346.5454	.0979240	.1185722
#3	1.057057	.0086014	.0070638	344.2571	.0981439	.1186703

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2788841	229.2055	7.478671	91.19792	.1669571	.0048800
Stddev	.0055808	.4900	.033545	.04047	.0006140	.0010505
%RSD	2.001108	.2137770	.4485413	.0443746	.3677753	21.52752
#1	.2832965	229.5932	7.495966	91.20636	.1674432	.0060159
#2	.2807451	229.3685	7.500038	91.23350	.1662670	.0039434
#3	.2726106	228.6548	7.440008	91.15390	.1671609	.0046806

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.13755	.2199551	.6909282	4.849765	F 14.98746	.0120350
Stddev	.57880	.0069843	.0116173	.140796	.03538	.0018389
%RSD	27.07778	3.175323	1.681400	2.903160	.2360430	15.27967
#1	-1.77638	.2223335	.6779350	4.773720	14.96949	.0135870
#2	-2.80514	.2254396	.6945364	5.012232	14.96467	.0125141
#3	-1.83113	.2120923	.7003132	4.763343	15.02821	.0100040

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-04 Acquired: 12/23/2024 22:36:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085419	2.843080	5.055193	2.487083	.6216371	.2137630
Stddev	.0001672	.005357	.022757	.011794	.0043106	.0016630
%RSD	1.957570	.1884206	.4501620	.4742288	.6934334	.7779825
#1	.0085285	2.839171	5.058179	2.482730	.6243572	.2145300
#2	.0087154	2.840882	5.076309	2.478084	.6238872	.2149042
#3	.0083818	2.849186	5.031091	2.500435	.6166670	.2118549

Elem	Li6707
Units	ppm
Avg	.0920543
Stddev	.0041760
%RSD	4.536439
#1	.0962811
#2	.0879310
#3	.0919506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.973	33364.11	2800.420	2191.437	1769.107
Stddev	5.880	184.00	22.929	18.896	6.342
%RSD	.2299468	.5514874	.8187807	.8622435	.3584884
#1	2557.351	33350.48	2800.837	2188.512	1772.314
#2	2562.654	33187.31	2777.285	2174.174	1773.204
#3	2550.913	33554.55	2823.137	2211.624	1761.802

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-05 Acquired: 12/23/2024 22:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547842	-.019091	.2674832	.0373978	.0260775	47.74921
Stddev	.0043628	.005914	.0055358	.0027529	.0021887	.29077
%RSD	7.963539	30.97653	2.069583	7.361243	8.392903	.6089516
#1	.0598219	-.014651	.2738732	.0386355	.0269320	47.47532
#2	.0522601	-.025804	.2644334	.0393146	.0235905	47.71797
#3	.0522706	-.016819	.2641430	.0342432	.0277100	48.05434

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6002432	.0050685	.0049021	F 834.7147	.0765877	.1197575
Stddev	.0029964	.0000960	.0000389	4.4547	.0008850	.0017220
%RSD	.4991901	1.894205	.7941181	.5336815	1.155586	1.437937
#1	.5988848	.0049837	.0048571	831.8732	.0769589	.1216417
#2	.5981667	.0051728	.0049239	832.4220	.0772267	.1182652
#3	.6036782	.0050491	.0049252	839.8488	.0755775	.1193657

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2919408	136.6027	8.406909	153.0011	.1536510	.0021935
Stddev	.0119777	1.3196	.055797	.9276	.0013526	.0011351
%RSD	4.102771	.9660174	.6637010	.6062471	.8802984	51.74891
#1	.2978595	135.1679	8.369630	152.1746	.1552123	.0024314
#2	.2781560	136.8760	8.380040	152.8243	.1528343	.0009583
#3	.2998070	137.7643	8.471056	154.0043	.1529064	.0031908

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.64606	.1384090	.5560528	6.232363	7.707822	.0340993
Stddev	.71031	.0059200	.0135482	.246209	.059775	.0021095
%RSD	43.15225	4.277140	2.436487	3.950500	.7755080	6.186282
#1	-2.34318	.1387018	.5712872	6.055732	7.776678	.0348666
#2	-.92325	.1323481	.5515160	6.127752	7.677545	.0357178
#3	-1.67176	.1441771	.5453553	6.513604	7.669245	.0317136

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-05 Acquired: 12/23/2024 22:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLW9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039333	1.390153	4.878501	.0322288	.6347381	.6263464
Stddev	.0004858	.008669	.015941	.0013609	.0062376	.0031212
%RSD	12.35211	.6235991	.3267512	4.222548	.9826997	.4983117
#1	.0037382	1.397901	4.863123	.0313009	.6317688	.6260218
#2	.0044863	1.380790	4.894950	.0315945	.6419056	.6234003
#3	.0035753	1.391767	4.877430	.0337910	.6305398	.6296172

Elem	Li6707
Units	ppm
Avg	.0982341
Stddev	.0026536
%RSD	2.701343
#1	.0961668
#2	.0973091
#3	.1012265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.754	30430.43	2587.219	1988.205	1644.626
Stddev	16.437	42.65	5.058	7.450	11.594
%RSD	.7100899	.1401424	.1955104	.3746951	.7049818
#1	2295.776	30437.08	2588.996	1985.576	1631.277
#2	2324.425	30384.84	2581.512	1982.427	1650.425
#3	2324.062	30469.35	2591.150	1996.613	1652.178

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-06 Acquired: 12/23/2024 22:43:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771051	-.027045	.2481221	.0501872	.0318950	52.16426
Stddev	.0049754	.003235	.0022216	.0062616	.0005963	.10603
%RSD	6.452740	11.96112	.8953723	12.47646	1.869599	.2032557
#1	.0728428	-.028646	.2480653	.0450067	.0317030	52.19491
#2	.0759002	-.023322	.2503715	.0484093	.0325636	52.25159
#3	.0825723	-.029168	.2459294	.0571454	.0314183	52.04629

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6524105	.0058730	.0059738	F 1021.850	.0932470	.1405423
Stddev	.0027829	.0001656	.0001999	2.263	.0006246	.0008379
%RSD	.4265551	2.819640	3.345519	.2214686	.6698467	.5961816
#1	.6542146	.0058440	.0062044	1022.987	.0938329	.1395993
#2	.6538114	.0057238	.0058673	1023.319	.0925898	.1412011
#3	.6492055	.0060511	.0058498	1019.244	.0933184	.1408265

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3031377	163.8641	10.37709	124.0750	.1980021	.0028085
Stddev	.0053292	.2015	.01005	.0671	.0005728	.0005232
%RSD	1.758007	.1229586	.0968294	.0540553	.2893002	18.62824
#1	.3091176	163.6989	10.38234	123.9975	.1973436	.0022081
#2	.2988904	164.0885	10.38342	124.1140	.1983849	.0030501
#3	.3014052	163.8048	10.36550	124.1133	.1982779	.0031672

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.46431	.1333465	.5163537	8.879077	8.305110	.0477767
Stddev	.21539	.0009995	.0101748	.113469	.006441	.0034204
%RSD	14.70933	.7495771	1.970500	1.277932	.0775575	7.159206
#1	-1.62377	.1340491	.5052498	8.752371	8.299754	.0447045
#2	-1.21929	.1322022	.5185811	8.971314	8.303319	.0514623
#3	-1.54988	.1337881	.5252302	8.913546	8.312257	.0471633

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-06 Acquired: 12/23/2024 22:43:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041405	1.346977	4.961373	.0335858	.7201781	.7283751
Stddev	.0000513	.002014	.056455	.0007355	.0041951	.0019342
%RSD	1.238850	.1495557	1.137882	2.190039	.5825054	.2655518
#1	.0041894	1.345051	5.019375	.0331180	.7176537	.7286568
#2	.0040871	1.346810	4.906605	.0332058	.7178598	.7301530
#3	.0041452	1.349070	4.958139	.0344336	.7250207	.7263154

Elem	Li6707
Units	ppm
Avg	.1118062
Stddev	.0015624
%RSD	1.397406
#1	.1125127
#2	.1128906
#3	.1100154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2362.702	30775.65	2646.940	2014.000	1635.840
Stddev	4.843	181.92	20.648	11.451	1.143
%RSD	.2049919	.5911194	.7800658	.5685453	.0698464
#1	2363.736	30747.32	2623.424	2006.938	1635.334
#2	2357.425	30609.56	2662.101	2007.851	1635.038
#3	2366.945	30970.07	2655.296	2027.212	1637.148

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-07 Acquired: 12/23/2024 22:47:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0353452	-.041245	.0965248	.0663590	.0352646	61.70433
Stddev	.0015282	.003652	.0014280	.0028664	.0023426	.17656
%RSD	4.323553	8.855171	1.479362	4.319489	6.643031	.2861359
#1	.0371079	-.043864	.0948759	.0689669	.0378264	61.51592
#2	.0343936	-.037073	.0973573	.0632900	.0347360	61.73110
#3	.0345342	-.042798	.0973411	.0668199	.0332315	61.86597

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5763190	.0071286	.0062714	F 1053.153	.1251488	.1451551
Stddev	.0028093	.0000935	.0000629	2.284	.0003249	.0002925
%RSD	.4874503	1.312122	1.002931	.2168604	.2595971	.2015380
#1	.5741707	.0072067	.0061988	1050.643	.1251323	.1451017
#2	.5752883	.0070250	.0063059	1053.707	.1254816	.1448929
#3	.5794980	.0071542	.0063096	1055.108	.1248325	.1454707

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1716083	183.6615	10.84027	114.2197	.2374864	.0026205
Stddev	.0018069	.5588	.03526	.8070	.0017237	.0001907
%RSD	1.052891	.3042451	.3253007	.7065264	.7258252	7.278132
#1	.1729311	183.0165	10.80472	113.3346	.2357135	.0025057
#2	.1695496	183.9701	10.84085	114.4098	.2391564	.0025152
#3	.1723440	183.9980	10.87524	114.9146	.2375893	.0028407

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.39982	.1221693	.4085333	11.71959	7.284650	.0595368
Stddev	.48465	.0119542	.0114707	.12260	.010976	.0012981
%RSD	20.19544	9.784922	2.807773	1.046117	.1506722	2.180372
#1	-2.80950	.1085714	.4196866	11.64404	7.297324	.0593308
#2	-1.86481	.1310236	.3967696	11.65369	7.278195	.0609256
#3	-2.52515	.1269129	.4091437	11.86105	7.278433	.0583540

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-07 Acquired: 12/23/2024 22:47:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034409	.9288047	5.184219	.0316070	1.135414	.6966598
Stddev	.0008782	.0077495	.029967	.0007623	.007849	.0014265
%RSD	25.52303	.8343538	.5780402	2.411639	.6912887	.2047575
#1	.0030549	.9285808	5.192077	.0312997	1.141061	.6951788
#2	.0028219	.9211696	5.209473	.0324749	1.126451	.6967762
#3	.0044461	.9366638	5.151105	.0310464	1.138731	.6980245

Elem	Li6707
Units	ppm
Avg	.1500149
Stddev	.0042860
%RSD	2.857053
#1	.1500421
#2	.1457154
#3	.1542873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2422.785	31652.12	2718.393	2073.322	1636.104
Stddev	7.939	123.73	14.701	11.484	3.327
%RSD	.3276684	.3909026	.5407997	.5538743	.2033471
#1	2424.698	31793.76	2734.333	2086.569	1634.687
#2	2414.065	31597.50	2705.367	2067.215	1633.720
#3	2429.593	31565.10	2715.480	2066.182	1639.905

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-08 Acquired: 12/23/2024 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0533443	-.031201	.1113599	.0527721	.0319111	54.14490
Stddev	.0018074	.004322	.0020460	.0015237	.0021489	.21920
%RSD	3.388236	13.85086	1.837262	2.887370	6.734104	.4048417
#1	.0522281	-.030065	.1125817	.0532282	.0329205	53.98968
#2	.0523751	-.027561	.1089978	.0540156	.0333694	54.04936
#3	.0554296	-.035977	.1125000	.0510724	.0294433	54.39565

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4064739	.0059809	.0046688	F 895.2444	.1017234	.1284044
Stddev	.0008339	.0000843	.0000994	1.7447	.0005558	.0011319
%RSD	.2051430	1.409905	2.128159	.1948888	.5464071	.8815089
#1	.4055424	.0060439	.0046601	895.5358	.1019931	.1296814
#2	.4067287	.0060138	.0045741	893.3723	.1010842	.1280071
#3	.4071506	.0058851	.0047722	896.8250	.1020929	.1275248

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3003221	161.8912	7.858746	118.1809	.1765127	.0029990
Stddev	.0066833	.9609	.034038	.6683	.0009493	.0012366
%RSD	2.225359	.5935581	.4331192	.5655270	.5377852	41.23327
#1	.2926181	161.4154	7.850300	117.9363	.1774956	.0042308
#2	.3045637	161.2610	7.829726	117.6694	.1764414	.0017577
#3	.3037845	162.9972	7.896211	118.9371	.1756011	.0030084

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.03282	.1297553	.3856623	8.745450	8.641663	.0419188
Stddev	.13536	.0082004	.0131619	.066926	.003286	.0036851
%RSD	6.658633	6.319918	3.412808	.7652680	.0380221	8.791066
#1	-1.87668	.1384223	.3713357	8.672748	8.641142	.0383626
#2	-2.10492	.1287249	.3884328	8.804493	8.645179	.0416733
#3	-2.11687	.1221188	.3972184	8.759109	8.638670	.0457206

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-08 Acquired: 12/23/2024 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032922	.8762476	4.233210	.0275110	1.232163	.7501889
Stddev	.0006999	.0110156	.014539	.0021829	.009654	.0022336
%RSD	21.26049	1.257136	.3434608	7.934825	.7835140	.2977405
#1	.0025433	.8748261	4.249136	.0269582	1.243197	.7523178
#2	.0034034	.8660117	4.220646	.0256576	1.228025	.7478636
#3	.0039299	.8879049	4.229849	.0299172	1.225268	.7503852

Elem	Li6707
Units	ppm
Avg	.1207158
Stddev	.0017855
%RSD	1.479051
#1	.1215034
#2	.1219720
#3	.1186720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2368.340	30918.73	2638.407	2029.109	1639.784
Stddev	2.652	48.19	12.650	3.931	1.737
%RSD	.1119943	.1558544	.4794689	.1937122	.1059262
#1	2367.701	30864.16	2625.627	2033.280	1638.287
#2	2371.254	30936.59	2650.924	2025.474	1641.689
#3	2366.065	30955.43	2638.669	2028.573	1639.377

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-09 Acquired: 12/23/2024 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730353	-.074087	.3950149	.0920656	.0411038	90.29365	.7107760
Stddev	.0023095	.002303	.0009074	.0030883	.0043557	.17446	.0015457
%RSD	3.162173	3.107933	.2297213	3.354461	10.59692	.1932121	.2174709
#1	.0707073	-.071635	.3943408	.0955057	.0435019	90.09465	.7123111
#2	.0753258	-.076203	.3960467	.0895321	.0437334	90.42026	.7107971
#3	.0730729	-.074422	.3946572	.0911589	.0360760	90.36603	.7092199

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075486	.0046807	47.56929	.1672687	.1026742	.1433314	177.3441
Stddev	.0000128	.0001274	.07711	.0005455	.0006197	.0044898	.3347
%RSD	.1694748	2.722288	.1620966	.3261319	.6035689	3.132446	.1887176
#1	.0075625	.0045533	47.49361	.1678332	.1020377	.1455098	177.0537
#2	.0075458	.0048081	47.64775	.1672286	.1027092	.1463164	177.2685
#3	.0075374	.0046807	47.56650	.1667444	.1032756	.1381680	177.7101

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.225655	30.17039	.2416497	.0035861	-1.86590	.1977452	.6292569
Stddev	.011606	.05372	.0003685	.0010633	1.00150	.0073657	.0163059
%RSD	.1864276	.1780691	.1525108	29.65191	53.67399	3.724842	2.591293
#1	6.212937	30.11283	.2412408	.0046166	-.82379	.1983841	.6231161
#2	6.228353	30.21921	.2417520	.0024927	-1.95277	.2047707	.6169129
#3	6.235674	30.17912	.2419563	.0036489	-2.82114	.1900809	.6477415

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.912533	9.560969	.0140949	.0110743	3.342920	6.580991	.0382162
Stddev	.063997	.011865	.0039685	.0007209	.011383	.058696	.0012911
%RSD	.6456151	.1240984	28.15550	6.509479	.3405137	.8918973	3.378306
#1	9.849001	9.559269	.0186689	.0103059	3.330713	6.571964	.0384397
#2	9.976985	9.550046	.0120472	.0111812	3.344805	6.643678	.0393810
#3	9.911613	9.573593	.0115684	.0117358	3.353244	6.527333	.0368281

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-09 Acquired: 12/23/2024 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.006871	-.081169	.0928139
Stddev	.006266	.000574	.0025434
%RSD	.6223719	.7070469	2.740355
#1	.999636	-.081179	.0928072
#2	1.010610	-.080590	.0953606
#3	1.010366	-.081738	.0902738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.901	30536.17	2488.502	2011.201	1845.947
Stddev	5.812	80.67	15.136	7.441	1.524
%RSD	.2487959	.2641749	.6082343	.3699928	.0825703
#1	2339.529	30451.65	2488.736	2009.396	1846.002
#2	2329.198	30612.34	2473.251	2019.378	1844.396
#3	2338.976	30544.53	2503.520	2004.828	1847.443

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-10 Acquired: 12/23/2024 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0878537	-.088408	.3894176	.1210713	.0475293	103.4858	.8072429
Stddev	.0021802	.004325	.0052581	.0022543	.0033490	.5542	.0044979
%RSD	2.481642	4.892362	1.350238	1.861968	7.046232	.5355340	.5571968
#1	.0903485	-.083642	.3919825	.1232843	.0490342	102.8577	.8028217
#2	.0863146	-.092083	.3833693	.1187778	.0436918	103.9060	.8118138
#3	.0868978	-.089501	.3929010	.1211518	.0498619	103.6937	.8070931

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087758	.0053408	37.71669	.1697663	.1155199	.1330901	215.9796
Stddev	.0001612	.0001506	.15631	.0011437	.0002727	.0012694	1.4058
%RSD	1.837390	2.820386	.4144399	.6736895	.2360362	.9537587	.6509051
#1	.0088652	.0055137	37.54088	.1693958	.1153523	.1331556	214.3695
#2	.0085896	.0052701	37.76922	.1688537	.1158345	.1317893	216.9636
#3	.0088725	.0052384	37.83997	.1710493	.1153728	.1343255	216.6057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.538702	31.09520	.2400843	.0046782	-1.28275	.2407270	.5604998
Stddev	.068341	.22556	.0002097	.0003835	.84573	.0020325	.0043393
%RSD	.7164575	.7253774	.0873599	8.198294	65.93112	.8443171	.7741926
#1	9.461772	30.89823	.2403180	.0049996	-.72305	.2403248	.5646733
#2	9.592391	31.34126	.2399125	.0042536	-2.25565	.2429306	.5608143
#3	9.561944	31.04611	.2400222	.0047814	-.86955	.2389257	.5560117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.623292	9.514320	.0028015	.0114429	2.391346	6.868437	.0419234
Stddev	.160526	.007856	.0039418	.0004603	.002656	.027348	.0017564
%RSD	2.105733	.0825736	140.7013	4.022315	.1110802	.3981718	4.189556
#1	7.459043	9.520580	-.000030	.0109382	2.393528	6.840064	.0400591
#2	7.631016	9.505504	.001131	.0115508	2.392122	6.894630	.0421638
#3	7.779817	9.516877	.007303	.0118396	2.388388	6.870617	.0435472

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-10 Acquired: 12/23/2024 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.033718	-.128041	.1050400
Stddev	.002142	.001579	.0015943
%RSD	.2072096	1.232980	1.517804
#1	1.033013	-.126541	.1068332
#2	1.032017	-.129688	.1037827
#3	1.036124	-.127893	.1045041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2360.843	30571.09	2495.867	2022.779	1864.086
Stddev	1.754	54.11	15.250	2.863	2.010
%RSD	.0742788	.1769858	.6110185	.1415391	.1078388
#1	2360.355	30633.56	2513.402	2021.620	1862.009
#2	2359.385	30538.94	2488.501	2026.040	1864.225
#3	2362.789	30540.78	2485.698	2020.677	1866.022

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-11 Acquired: 12/23/2024 23:03:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0963772	-.086069	.5014363	.1101824	.0441414	102.2488	.8000357
Stddev	.0052185	.001474	.0036269	.0026246	.0027180	.4473	.0030940
%RSD	5.414638	1.712443	.7233040	2.382077	6.157508	.4375063	.3867374
#1	.0904889	-.085692	.5036164	.1077454	.0465405	102.2871	.7991138
#2	.1004298	-.084820	.4972495	.1129612	.0446943	101.7836	.7975074
#3	.0982128	-.087694	.5034431	.1098406	.0411895	102.6759	.8034859

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087120	.0053555	41.64867	.1522429	.1247000	.1626553	205.6162
Stddev	.0000722	.0000750	.14508	.0009427	.0001374	.0045604	.7814
%RSD	.8283856	1.400641	.3483531	.6192365	.1101549	2.803739	.3800059
#1	.0087263	.0052842	41.58562	.1516098	.1248582	.1590607	205.4779
#2	.0086337	.0054338	41.54578	.1533264	.1246111	.1611200	204.9133
#3	.0087759	.0053487	41.81461	.1517926	.1246306	.1677853	206.4575

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.190605	33.16122	.2124036	.0045595	-1.67639	.2250567	.6818779
Stddev	.026465	.23375	.0010734	.0005061	1.04219	.0024311	.0018822
%RSD	.3231189	.7048992	.5053771	11.09977	62.16893	1.080217	.2760312
#1	8.199125	33.25572	.2111766	.0051355	-.84865	.2222666	.6801887
#2	8.160929	32.89502	.2131693	.0041860	-2.84677	.2267202	.6815381
#3	8.211760	33.33293	.2128648	.0043570	-1.33376	.2261832	.6839068

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.785812	7.926587	.0012577	.0089981	1.655950	7.270712	.0449818
Stddev	.126577	.002731	.0016623	.0005935	.008715	.050480	.0024809
%RSD	1.865321	.0344565	132.1773	6.595620	.5262960	.6942894	5.515423
#1	6.851908	7.926180	-.000634	.0089072	1.661846	7.310759	.0444165
#2	6.639869	7.924083	.001924	.0084554	1.645940	7.214009	.0428323
#3	6.865658	7.929499	.002483	.0096318	1.660066	7.287369	.0476966

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-11 Acquired: 12/23/2024 23:03:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8699301	-.117307	.1004055
Stddev	.0042183	.000258	.0024092
%RSD	.4849040	.2197624	2.399504
#1	.8698967	-.117103	.0982847
#2	.8657286	-.117221	.1030251
#3	.8741651	-.117597	.0999068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2388.885	31137.61	2547.842	2061.204	1868.381
Stddev	2.033	32.40	24.154	.893	1.393
%RSD	.0851163	.1040526	.9480159	.0433107	.0745484
#1	2388.657	31141.11	2527.691	2061.243	1867.097
#2	2391.022	31168.12	2574.617	2060.292	1868.184
#3	2386.975	31103.61	2541.218	2062.076	1869.862

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-12 Acquired: 12/23/2024 23:06:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001279	-.047963	.5726876	.0729702	.0378912	71.41938	.7973299
Stddev	.0043021	.003014	.0024217	.0029318	.0008748	.51110	.0034680
%RSD	4.296552	6.285080	.4228599	4.017763	2.308808	.7156311	.4349493
#1	.1012117	-.045063	.5746335	.0757108	.0387854	70.82925	.7934259
#2	.0953876	-.047745	.5734538	.0698788	.0378509	71.72010	.7985097
#3	.1037844	-.051080	.5699756	.0733209	.0370371	71.70879	.8000540

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069816	.0054391	247.5886	.1282999	.1250098	.2497851	169.3473
Stddev	.0001131	.0000243	1.1049	.0002452	.0007836	.0058864	1.1616
%RSD	1.619586	.4472538	.4462541	.1911490	.6268571	2.356592	.6859485
#1	.0069868	.0054130	246.3540	.1283073	.1252914	.2514117	168.0247
#2	.0070920	.0054432	248.4842	.1285414	.1256137	.2546871	170.2020
#3	.0068660	.0054611	247.9277	.1280511	.1241243	.2432564	169.8152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.046442	52.76384	.1790385	.0034306	-.934814	.1672522	.6383470
Stddev	.053394	.43683	.0008003	.0014744	.325199	.0074051	.0042889
%RSD	.6635717	.8278935	.4470049	42.97815	34.78758	4.427524	.6718822
#1	7.985637	52.26233	.1799194	.0042641	-.877582	.1749234	.6343943
#2	8.068008	52.96782	.1788398	.0042995	-1.28483	.1601454	.6429074
#3	8.085679	53.06136	.1783562	.0017282	-.64203	.1666878	.6377393

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.826735	9.462802	.0160809	.0066022	1.365753	5.851078	.0581787
Stddev	.057084	.022388	.0001128	.0005971	.002442	.038299	.0012580
%RSD	.9796925	.2365943	.7014392	9.043946	.1788024	.6545673	2.162281
#1	5.864980	9.480587	.0161902	.0062826	1.364101	5.839457	.0568048
#2	5.761120	9.470158	.0160876	.0062330	1.368558	5.893842	.0592742
#3	5.854106	9.437661	.0159649	.0072911	1.364599	5.819936	.0584570

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-12 Acquired: 12/23/2024 23:06:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6949049	.1411396	.0911832
Stddev	.0065879	.0008973	.0028929
%RSD	.9480277	.6357910	3.172601
#1	.6906495	.1419215	.0878482
#2	.7024933	.1413374	.0926863
#3	.6915719	.1401598	.0930151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.989	33855.51	2796.786	2226.061	1806.464
Stddev	10.014	35.46	15.618	3.441	6.005
%RSD	.3842617	.1047246	.5584183	.1545723	.3324330
#1	2604.811	33884.58	2796.942	2223.039	1805.593
#2	2596.617	33816.01	2781.091	2225.340	1800.942
#3	2616.540	33865.94	2812.325	2229.806	1812.857

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13 Acquired: 12/23/2024 23:10:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1130518	-.044188	.8929207	.0707811	.0367398	70.82330	.8913011
Stddev	.0070725	.008255	.0038546	.0049061	.0009986	.30398	.0036393
%RSD	6.255939	18.68068	.4316847	6.931370	2.717919	.4292053	.4083160
#1	.1178967	-.036308	.8902416	.0653843	.0375791	70.49131	.8873339
#2	.1049359	-.052772	.8973384	.0719875	.0356355	70.89062	.8920845
#3	.1163226	-.043486	.8911821	.0749715	.0370049	71.08798	.8944850

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070209	.0059412	262.5442	.1442834	.1283041	.3156986	165.9798
Stddev	.0000648	.0000817	.7195	.0004414	.0001000	.0058829	.8058
%RSD	.9228915	1.374712	.2740469	.3059103	.0779129	1.863443	.4854518
#1	.0069501	.0060247	261.8096	.1447573	.1282321	.3180820	165.0808
#2	.0070353	.0059375	262.5754	.1442089	.1284182	.3089980	166.2214
#3	.0070772	.0058615	263.2475	.1438840	.1282619	.3200157	166.6370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.224273	61.84611	.1776006	.0041925	-1.65856	.1692122	.7127513
Stddev	.025676	.28249	.0001301	.0010385	.28630	.0054535	.0090290
%RSD	.3121956	.4567707	.0732598	24.77069	17.26204	3.222854	1.266779
#1	8.199937	61.70170	.1776224	.0030155	-1.46624	.1651571	.7221271
#2	8.221777	61.66501	.1774610	.0045823	-1.98759	.1754120	.7041146
#3	8.251106	62.17162	.1777184	.0049798	-1.52185	.1670675	.7120122

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.613849	7.550316	.0172211	.0062468	1.191821	5.844110	.1035330
Stddev	.113942	.008399	.0020477	.0001935	.005525	.082858	.0015808
%RSD	2.029666	.1112382	11.89073	3.096910	.4636015	1.417797	1.526830
#1	5.545370	7.556503	.0190333	.0064557	1.196774	5.784772	.1024030
#2	5.745381	7.540755	.0149997	.0062109	1.185862	5.808783	.1053394
#3	5.550796	7.553690	.0176304	.0060738	1.192828	5.938777	.1028566

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-13 Acquired: 12/23/2024 23:10:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6840110	.1490150	.0895263
Stddev	.0035229	.0002240	.0020123
%RSD	.5150395	.1503267	2.247755
#1	.6817862	.1491833	.0916897
#2	.6880728	.1487608	.0877103
#3	.6821740	.1491009	.0891789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.662	33106.55	2751.754	2183.503	1786.160
Stddev	7.625	244.58	16.942	16.897	4.240
%RSD	.2997533	.7387559	.6156666	.7738328	.2373805
#1	2540.339	32925.15	2761.343	2174.960	1784.212
#2	2538.263	33009.79	2761.726	2172.585	1783.244
#3	2552.384	33384.70	2732.193	2202.966	1791.024

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-14 Acquired: 12/23/2024 23:14:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1051973	-.043341	.8994499	.0647070	.0359378	70.70475	.8883000
Stddev	.0066586	.000616	.0046410	.0011132	.0038340	.24054	.0036879
%RSD	6.329598	1.421402	.5159774	1.720323	10.66828	.3402012	.4151686
#1	.1025972	-.042693	.8948711	.0656741	.0350186	70.43521	.8859659
#2	.1127636	-.043413	.8993280	.0649568	.0401478	70.78146	.8863825
#3	.1002311	-.043918	.9041506	.0634902	.0326471	70.89758	.8925517

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068883	.0059806	262.3780	.1444198	.1292725	.3142305	165.6493
Stddev	.0000617	.0000734	1.0716	.0004335	.0005565	.0098450	.9407
%RSD	.8951036	1.226798	.4084369	.3001708	.4304577	3.133046	.5678966
#1	.0069155	.0059909	261.4563	.1440477	.1289110	.3030765	164.7395
#2	.0069316	.0060483	262.1237	.1448958	.1299133	.3217086	165.5904
#3	.0068177	.0059026	263.5539	.1443160	.1289933	.3179065	166.6181

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.210890	61.40736	.1784541	.0024461	-1.50736	.1641234	.7213748
Stddev	.031780	.57578	.0006478	.0010269	.42383	.0017827	.0127798
%RSD	.3870424	.9376437	.3629829	41.97989	28.11720	1.086178	1.771586
#1	8.179303	60.75299	.1778354	.0033102	-1.91806	.1649686	.7087465
#2	8.210509	61.63273	.1791274	.0027173	-1.53250	.1653263	.7210771
#3	8.242859	61.83638	.1783996	.0013109	-1.07152	.1620753	.7343009

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.702065	7.577835	.0184782	.0058463	1.202880	5.888700	.1022346
Stddev	.087046	.015356	.0010826	.0006978	.002370	.031838	.0013563
%RSD	1.526573	.2026483	5.858925	11.93622	.1970563	.5406575	1.326645
#1	5.617114	7.576606	.0175283	.0050407	1.204127	5.912551	.1018855
#2	5.698017	7.563130	.0196569	.0062366	1.200147	5.852547	.1037314
#3	5.791065	7.593769	.0182493	.0062616	1.204367	5.901003	.1010870

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: P5084-14 Acquired: 12/23/2024 23:14:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6885892	.1500878	.0877399
Stddev	.0009309	.0010112	.0022147
%RSD	.1351867	.6737398	2.524174
#1	.6880367	.1493522	.0894554
#2	.6896639	.1496702	.0885246
#3	.6880669	.1512409	.0852397

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2552.874	33271.20	2762.903	2187.797	1787.724
Stddev	1.673	46.20	11.243	1.744	3.702
%RSD	.0655502	.1388605	.4069170	.0797095	.2070752
#1	2554.576	33301.38	2754.118	2189.254	1788.809
#2	2551.231	33294.21	2775.573	2188.273	1790.763
#3	2552.817	33218.01	2759.018	2185.865	1783.601

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/23/2024 23:18:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.134247	4.831324	24.73068	4.992627	5.007383	408.2828	10.35343
Stddev	.027762	.008848	.04918	.006287	.009352	5.1234	.13220
%RSD	.5407295	.1831354	.1988426	.1259297	.1867702	1.254876	1.276920
#1	5.102218	4.841540	24.69611	4.985653	5.016253	404.8201	10.28269
#2	5.151427	4.826249	24.70895	4.994368	4.997614	405.8600	10.27164
#3	5.149096	4.826181	24.78698	4.997860	5.008280	414.1683	10.50595

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5068945	2.490818	412.4062	15.57077	2.521134	15.19583	415.1253
Stddev	.0060499	.004434	5.0656	.01722	.001010	.17933	5.2823
%RSD	1.193517	.1780179	1.228293	.1105599	.0400424	1.180144	1.272470
#1	.5025985	2.489304	409.1093	15.58714	2.520594	15.08374	411.5303
#2	.5042717	2.487340	409.8704	15.55282	2.520509	15.10110	412.6555
#3	.5138131	2.495811	418.2389	15.57234	2.522298	15.40267	421.1901

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.30610	410.0791	2.505834	1.285519	406.4521	2.563637	15.25358
Stddev	.19771	5.3061	.004705	.002247	5.6888	.028715	.08240
%RSD	1.291725	1.293930	.1877649	.1747853	1.399621	1.120106	.5402283
#1	15.17772	406.9621	2.502839	1.284043	403.7554	2.544149	15.16306
#2	15.20680	407.0693	2.503406	1.288105	402.6130	2.550148	15.27341
#3	15.53378	416.2057	2.511257	1.284409	412.9877	2.596613	15.32425

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.0336	4.992910	4.908480	4.937048	5.027595	4.786693	5.013626
Stddev	1.7537	.006471	.053060	.003736	.006033	.055166	.018508
%RSD	1.161111	.1296049	1.080983	.0756646	.1199916	1.152491	.3691494
#1	149.8822	4.986780	4.870837	4.938755	5.024182	4.744276	5.001812
#2	150.1667	4.992275	4.885438	4.932764	5.024041	4.766744	5.004111
#3	153.0519	4.999675	4.969166	4.939625	5.034560	4.849058	5.034956

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 12/23/2024 23:18:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.035468	4.804044	5.124061
Stddev	.048620	.053194	.068207
%RSD	.9655573	1.107272	1.331120
#1	4.997637	4.768996	5.082307
#2	5.018459	4.777885	5.087105
#3	5.090308	4.865253	5.202772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.077	24541.87	2119.487	1531.261	1572.919
Stddev	8.091	56.41	21.953	11.424	6.372
%RSD	.4492459	.2298455	1.035769	.7460646	.4051138
#1	1792.957	24583.48	2141.356	1543.220	1568.027
#2	1809.139	24477.67	2119.656	1520.460	1580.125
#3	1801.134	24564.47	2097.451	1530.104	1570.606

Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/23/2024 23:22:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002994	-.000594	.0038945	.0029315	.0003630	.0463184	-.002042
Stddev	.004184	.002179	.0009598	.0036568	.0025037	.0049582	.000985
%RSD	139.7482	367.0749	24.64465	124.7427	689.7233	10.70460	48.25223
#1	-.007715	.000272	.0047535	-.000903	.0008294	.0512545	-.001973
#2	-.001521	-.003072	.0028585	.003318	.0026007	.0463624	-.001092
#3	.000255	.001020	.0040716	.006379	-.002341	.0413384	-.003059

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000294	.0000336	-.006613	.0002847	-.000212	-.001413	.0532717
Stddev	.0000936	.0000910	.013770	.0008141	.000245	.003089	.0486789
%RSD	318.1756	270.5728	208.2313	285.9917	115.4896	218.5403	91.37847
#1	.0000404	.0001042	-.006604	-.000169	-.000348	-.004491	.1049556
#2	.0001171	.0000656	.007153	.001225	-.000359	-.001436	.0465664
#3	-.000069	-.000069	-.020387	-.000202	.000071	.001687	.0082931

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023871	.0337687	.0007117	-.000585	-2.03230	.0022200	.0091044
Stddev	.0002837	.0300558	.0004696	.001978	.89042	.0037584	.0148191
%RSD	11.88347	89.00503	65.98495	338.4173	43.81363	169.2979	162.7698
#1	.0020778	.0293941	.0007881	.001566	-1.83960	.0008413	.0202332
#2	.0024482	.0657720	.0011384	-.002327	-1.25400	.0064730	-.007717
#3	.0026352	.0061398	.0002085	-.000993	-3.00329	-.000654	.014797

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.00189	.0006716	.0055887	.0007563	-.005203	-.084372	.0004271
Stddev	.18743	.0009926	.0036730	.0007823	.003086	.000104	.0013345
%RSD	18.70739	147.7999	65.72227	103.4365	59.30064	.1227271	312.4174
#1	-1.00829	.0017376	.0040423	.0008349	-.007692	-.084257	.0002395
#2	-1.18604	-.000226	.0097821	-.000062	-.001751	-.084458	.0018455
#3	-.81135	.000503	.0029417	.001496	-.006167	-.084402	-.000804

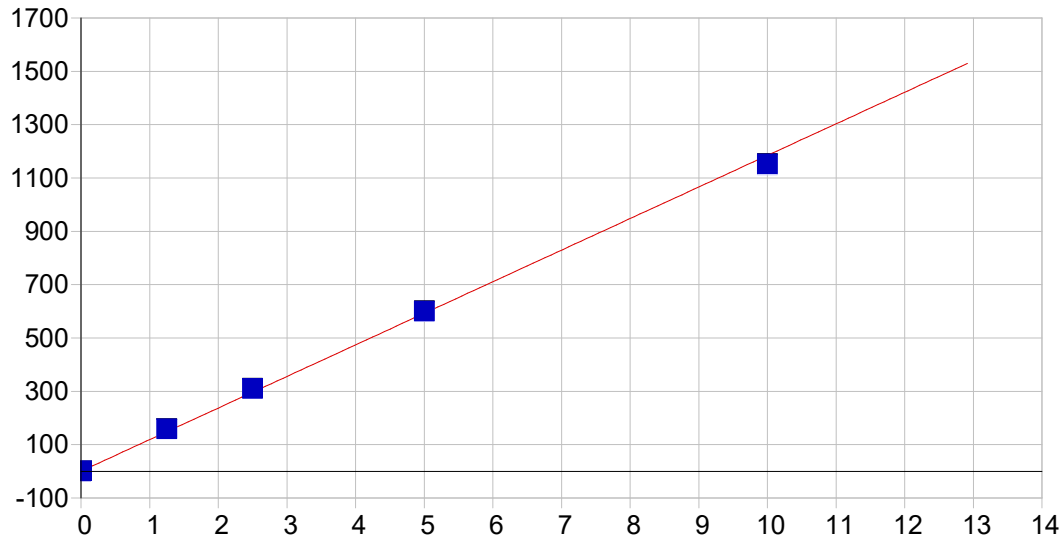
Reviewed By:kareem
On:12/27/2024 4:23:37 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 12/23/2024 23:22:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0003098	.0000895	.0001458
Stddev	.0029751	.0002257	.0014647
%RSD	960.4039	252.3096	1004.460
#1	.0021966	-.000169	.0001639
#2	-.003120	.000190	-.001328
#3	.001853	.000247	.001601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2074.871	26648.28	2180.870	1758.210	1871.116
Stddev	11.281	158.89	35.485	6.572	10.577
%RSD	.5436758	.5962396	1.627099	.3738147	.5652730
#1	2063.942	26803.65	2221.492	1765.598	1860.228
#2	2086.473	26655.09	2155.919	1756.019	1881.351
#3	2074.196	26486.10	2165.198	1753.012	1871.770

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



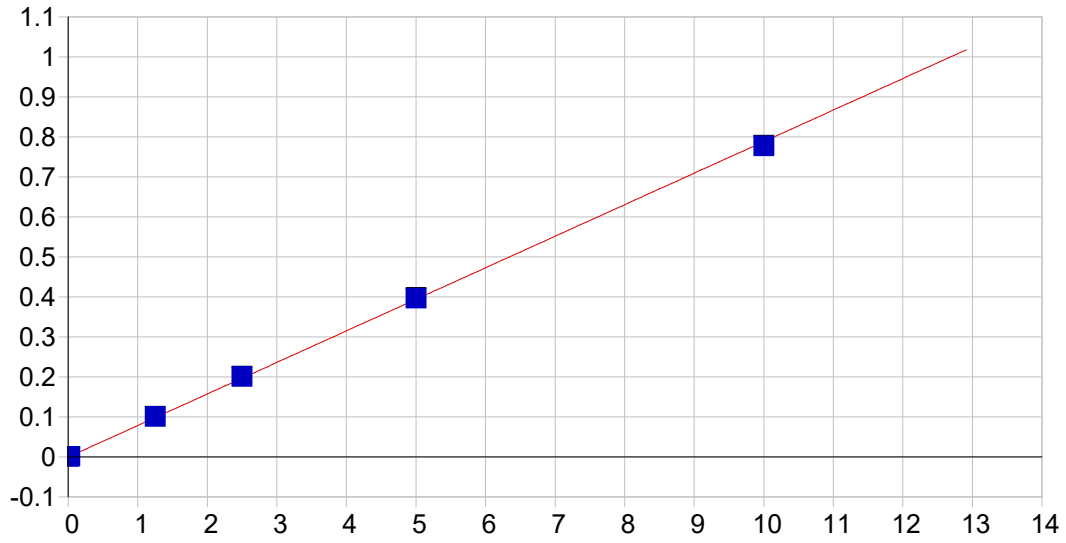
As 189.042 {478}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.448360	Re-Slope:	1.000000
A1 (Gain):	118.415562	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999465	Status:	OK.
Std Error of Est:	0.064686		
Predicted MDL:	0.006216		
Predicted MQL:	0.020719		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.44832	.500	1
S1	.01000	.00927	-.001	-7.31	1.5442	.163	1
S2	1.2500	1.3377	.088	7.02	158.23	.513	1
S3	2.5000	2.6157	.116	4.63	308.95	1.13	1
S4	5.0000	5.0692	.069	1.38	598.23	1.61	1
S5	10.000	9.7281	-.272	-2.72	1147.4	1.95	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



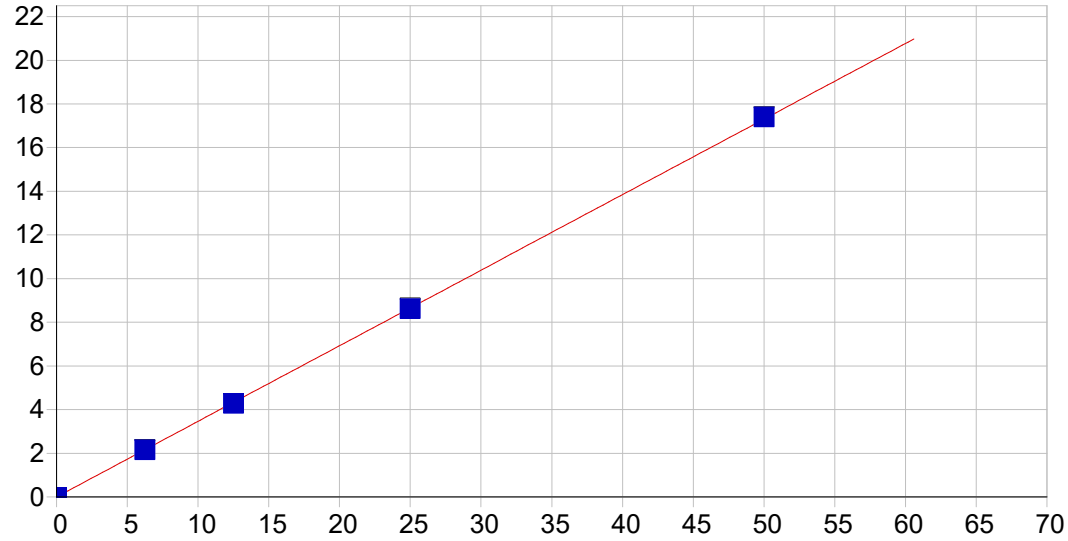
Tl 190.856 {477}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000390	Re-Slope:	1.000000
A1 (Gain):	0.078861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.003985		
Predicted MQL:	0.013285		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00039	.000	1
S1	.02500	.02787	.003	11.5	.00174	.000	1
S2	1.2500	1.2856	.036	2.85	.10074	.000	1
S3	2.5000	2.5527	.053	2.11	.20041	.001	1
S4	5.0000	5.0416	.042	.831	.39618	.001	1
S5	10.000	9.8674	-.133	-1.33	.77573	.002	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



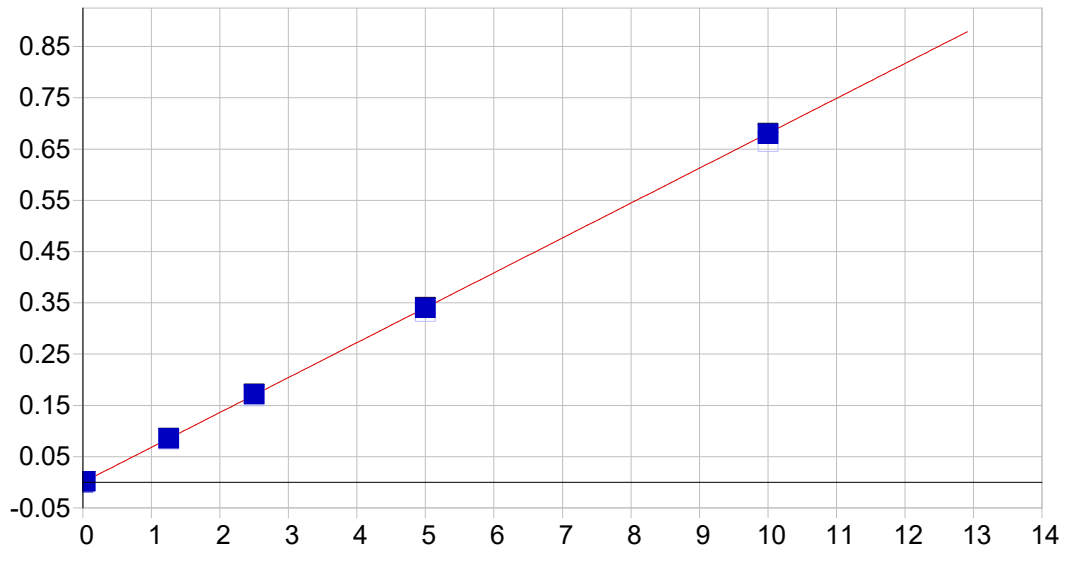
Pb 220.353 {453}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000899	Re-Slope:	1.000000
A1 (Gain):	0.346133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.002171		
Predicted MQL:	0.007236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00090	.000	1
S1	.01000	.00972	-.000	-2.76	.00425	.000	1
S2	6.2500	6.2027	-.047	-.757	2.1474	.005	1
S3	12.500	12.374	-.126	-1.01	4.2830	.003	1
S4	25.000	24.918	-.082	-.328	8.6240	.020	1
S5	50.000	50.256	.256	.511	17.392	.023	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



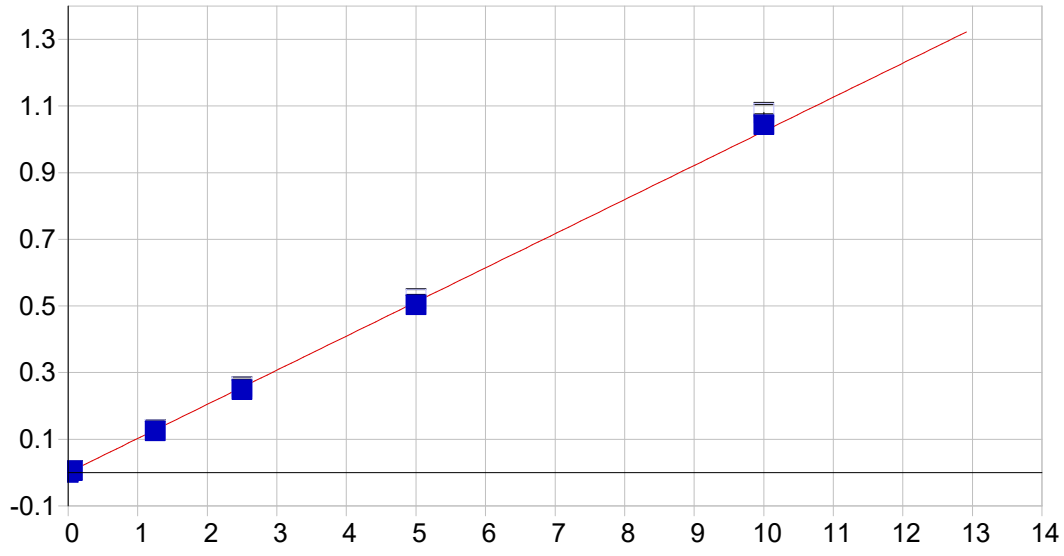
Se 196.090 {472}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.068066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.005525		
Predicted MQL:	0.018417		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00008	.000	1
S1	.03500	.02851	-.006	-18.5	.00202	.000	1
S2	1.2500	1.2578	.008	.620	.08378	.001	1
S3	2.5000	2.5191	.019	.764	.16772	.001	1
S4	5.0000	4.9991	-.001	-.017	.33270	.001	1
S5	10.000	9.9806	-.019	-.194	.66411	.001	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



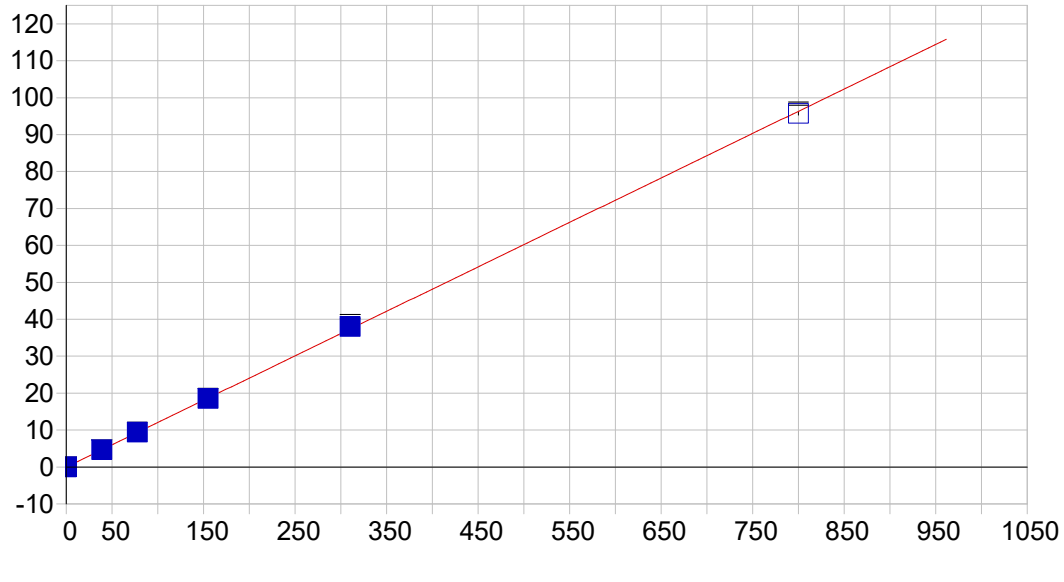
Sb 206.833 {463}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.102398	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.004494		
Predicted MQL:	0.014979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00000	.000	1
S1	.06000	.05577	-.004	-7.05	.00572	.000	1
S2	1.2500	1.2137	-.036	-2.91	.12856	.000	1
S3	2.5000	2.4316	-.068	-2.74	.25755	.001	1
S4	5.0000	4.9169	-.083	-1.66	.52060	.001	1
S5	10.000	10.192	.192	1.92	1.0779	.003	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



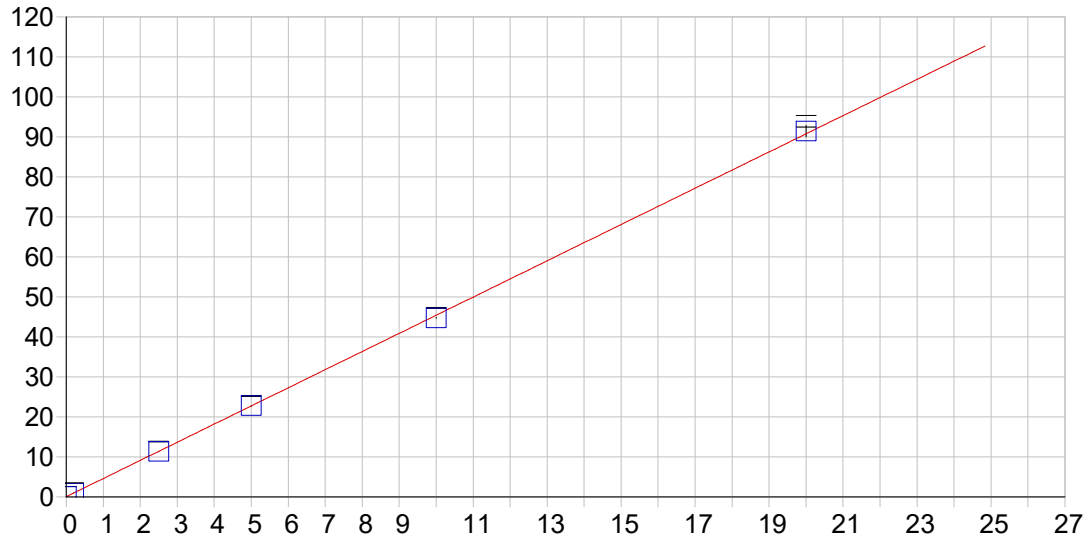
Al 396.152 { 85}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001994	Re-Slope:	1.000000
A1 (Gain):	0.120415	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000760		
Predicted MDL:	0.026066		
Predicted MQL:	0.086887		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00199	.003	1
S1	.20000	.20082	.001	.409	.02223	.001	1
S2	38.750	38.883	.133	.342	4.6851	.024	1
S3	77.500	77.982	.482	.622	9.3984	.037	1
S4	155.00	153.96	-1.04	-.671	18.557	.062	1
S5	310.00	315.55	5.55	1.79	38.035	.609	1
S6	800.00	794.87	-5.13	-.641	95.713	.392	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



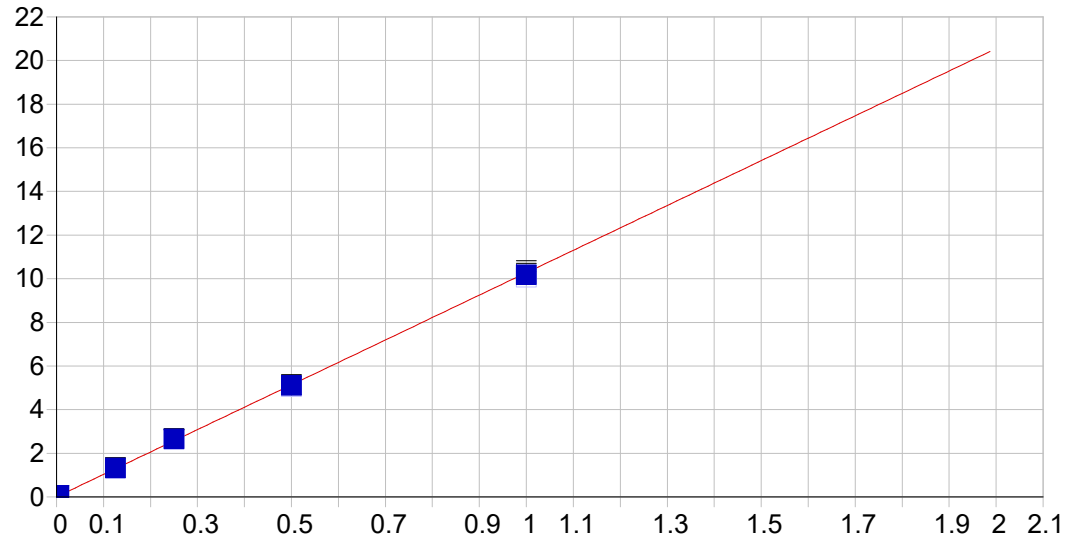
Ba 493.409 { 68}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.058496	Re-Slope:	1.000000
A1 (Gain):	4.535959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.004605		
Predicted MDL:	0.001461		
Predicted MQL:	0.004870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05848	.003	1
S1	.20000	.20647	.006	3.23	.99502	.007	1
S2	2.5000	2.4918	-.008	-.328	11.361	.096	1
S3	5.0000	5.0065	.006	.130	22.768	.118	1
S4	10.000	9.8525	-.147	-1.47	44.749	.142	1
S5	20.000	20.143	.143	.714	91.425	1.42	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



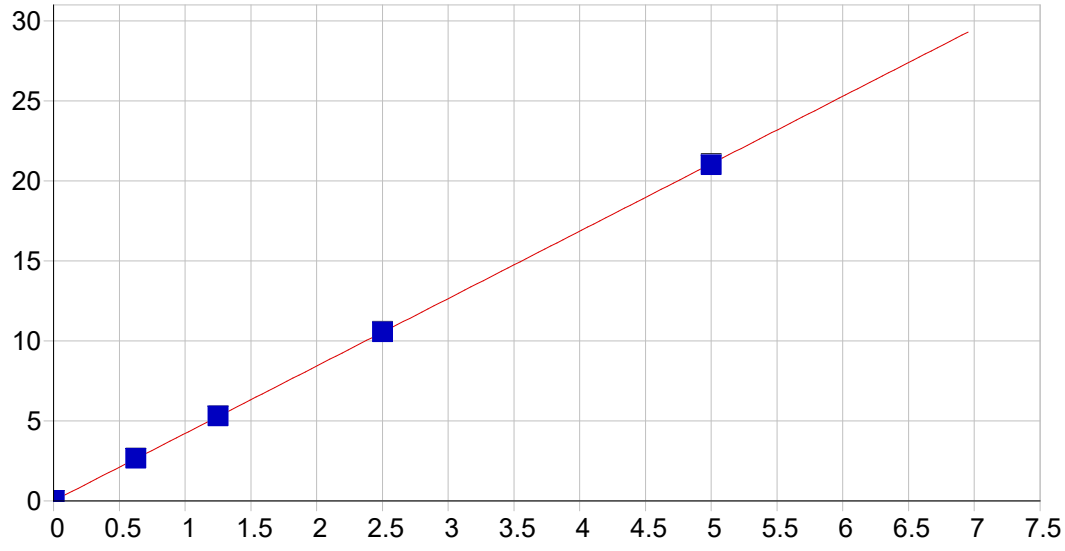
Be 234.861 {144}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002231	Re-Slope:	1.000000
A1 (Gain):	10.273377	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000624		
Predicted MDL:	0.000162		
Predicted MQL:	0.000540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00223	.002	1
S1	.00500	.00518	.000	3.54	.05534	.003	1
S2	.12500	.12894	.004	3.15	1.3114	.005	1
S3	.25000	.25804	.008	3.22	2.6222	.018	1
S4	.50000	.49710	-.003	-.581	5.0470	.042	1
S5	1.0000	.99074	-.009	-.926	10.056	.190	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



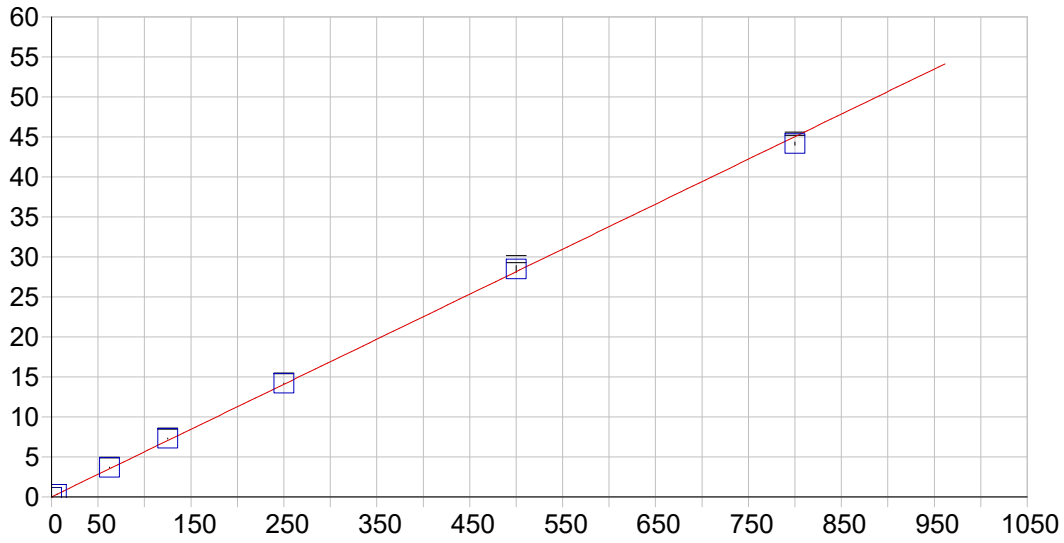
Cd 214.438 {457}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000592	Re-Slope:	1.000000
A1 (Gain):	4.214745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.000111		
Predicted MQL:	0.000371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00059	.000	1
S1	.00500	.00507	.000	1.48	.02206	.001	1
S2	.62500	.63057	.006	.891	2.6623	.004	1
S3	1.2500	1.2585	.008	.677	5.3128	.005	1
S4	2.5000	2.5035	.003	.139	10.568	.035	1
S5	5.0000	4.9824	-.018	-.352	21.033	.040	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

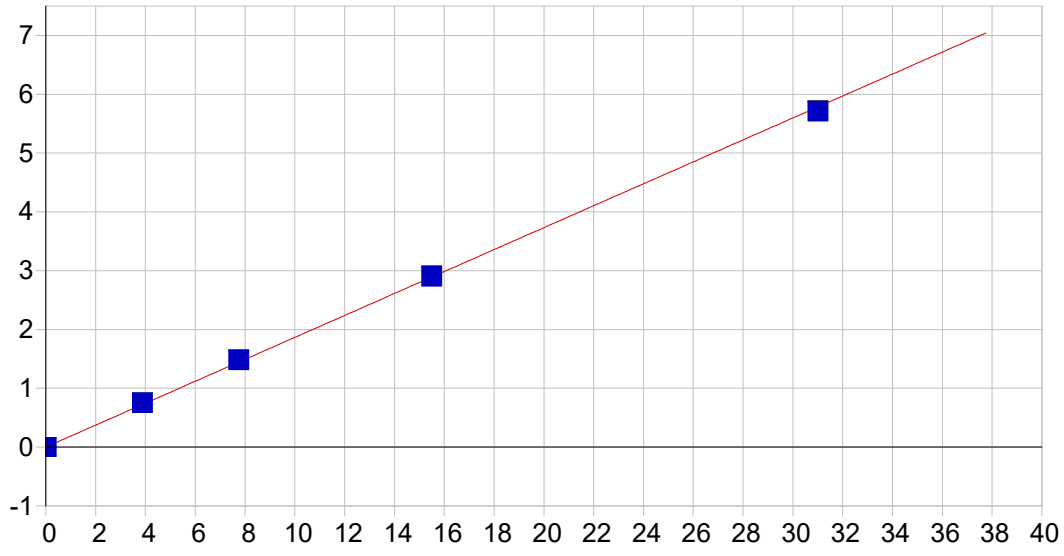


Ca 373.690 { 90}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008380	Re-Slope:	1.000000
A1 (Gain):	0.056286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999801	Status:	OK.
Std Error of Est:	0.003920		
Predicted MDL:	0.037206		
Predicted MQL:	0.124020		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00070	-.001	.000	.00834	.002	1
S1	5.0000	5.2922	.292	5.84	.30626	.003	1
S2	62.500	65.208	2.71	4.33	3.6787	.028	1
S3	125.00	129.64	4.64	3.72	7.3056	.048	1
S4	250.00	252.27	2.27	.908	14.208	.043	1
S5	500.00	505.64	5.64	1.13	28.469	.432	1
S6	800.00	784.45	-15.6	-1.94	44.162	.209	1



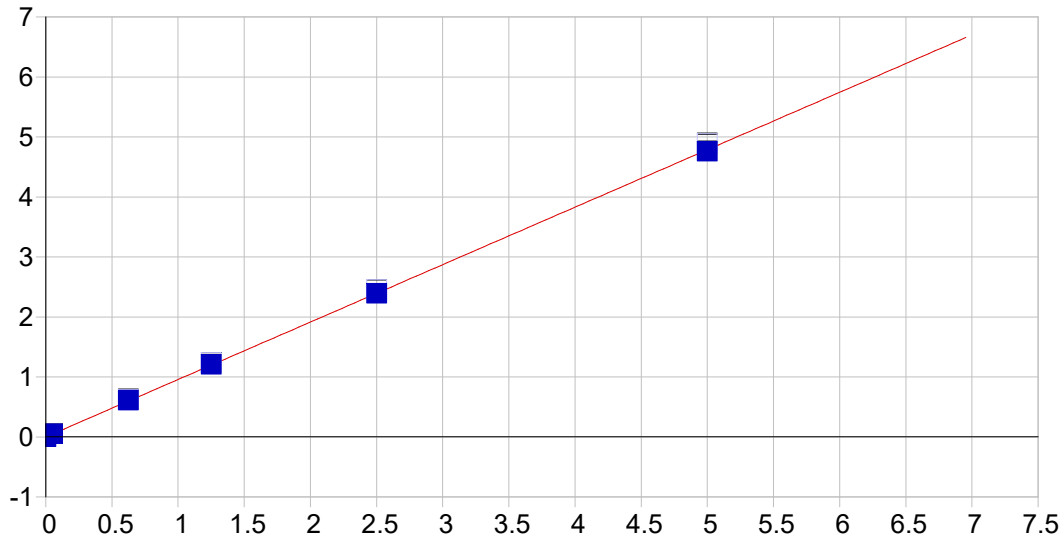
Cr 267.716 {126}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.186593	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.001035		
Predicted MQL:	0.003449		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.01000	.01055	.001	5.46	.00197	.000	1
S2	3.8750	4.0265	.152	3.91	.75189	.001	1
S3	7.7500	7.9262	.176	2.27	1.4801	.001	1
S4	15.500	15.561	.061	.392	2.9058	.004	1
S5	31.000	30.611	-.389	-1.25	5.7163	.008	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



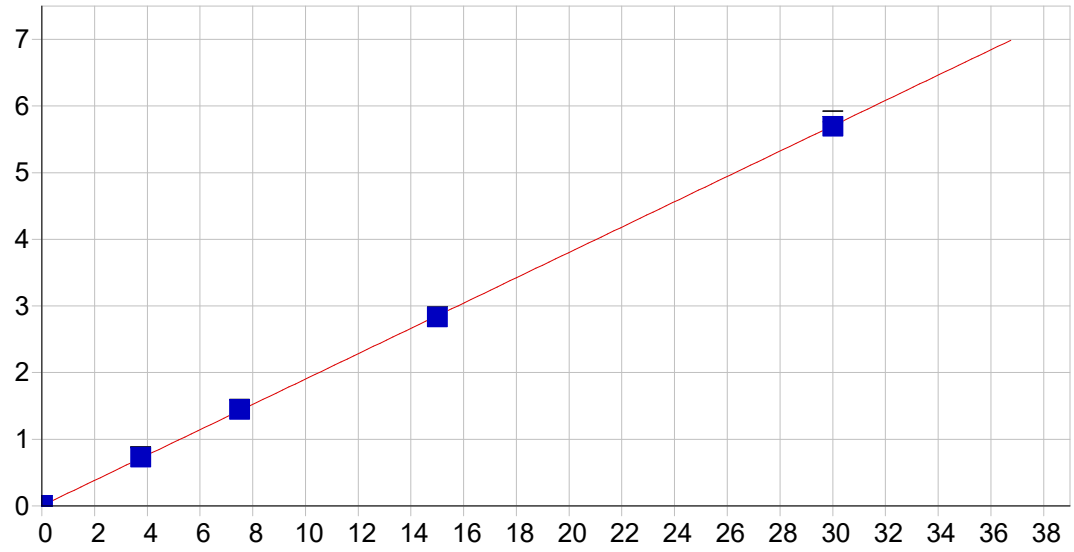
Co 228.616 {448}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000720	Re-Slope:	1.000000
A1 (Gain):	0.957363	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000282		
Predicted MDL:	0.000491		
Predicted MQL:	0.001638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00073	.000	1
S1	.05000	.05504	.005	10.1	.05216	.001	1
S2	.62500	.63979	.015	2.37	.62808	.002	1
S3	1.2500	1.2626	.013	1.01	1.2407	.001	1
S4	2.5000	2.4968	-.003	-.128	2.4548	.003	1
S5	5.0000	4.9709	-.029	-.583	4.8885	.009	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



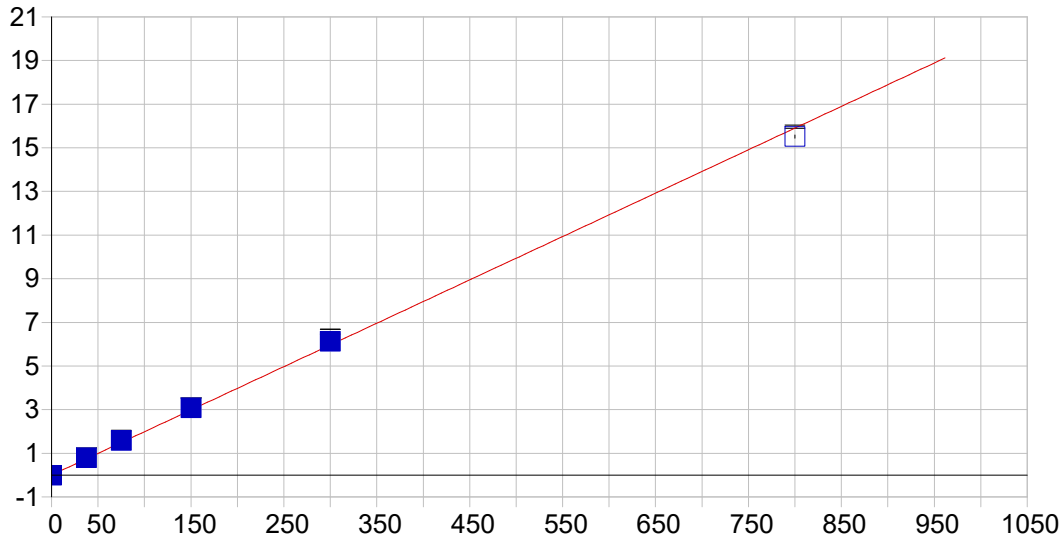
Cu 324.754 {104}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002973	Re-Slope:	1.000000
A1 (Gain):	0.190033	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.008266		
Predicted MQL:	0.027555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00297	.000	1
S1	.02500	.02242	-.003	-10.3	.00723	.002	1
S2	3.7500	3.8248	.075	1.99	.72972	.008	1
S3	7.5000	7.5934	.093	1.24	1.4458	.006	1
S4	15.000	14.882	-.118	-.790	2.8306	.014	1
S5	30.000	29.953	-.047	-.157	5.6944	.081	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

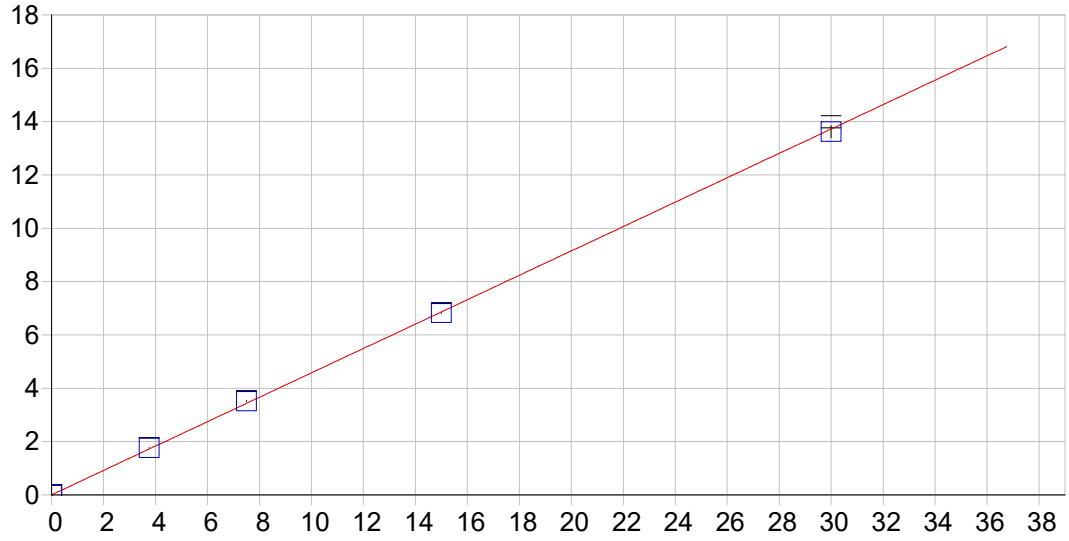


Fe 259.837 {130}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.019881	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999525	Status:	OK.
Std Error of Est:	0.000268		
Predicted MDL:	0.038303		
Predicted MQL:	0.127677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00010	.001	1
S1	.10000	.12973	.030	29.7	.00268	.000	1
S2	37.500	40.013	2.51	6.70	.79576	.006	1
S3	75.000	79.490	4.49	5.99	1.5808	.009	1
S4	150.00	154.81	4.81	3.21	3.0786	.008	1
S5	300.00	307.90	7.90	2.63	6.1228	.106	1
S6	800.00	780.25	-19.8	-2.47	15.512	.072	1

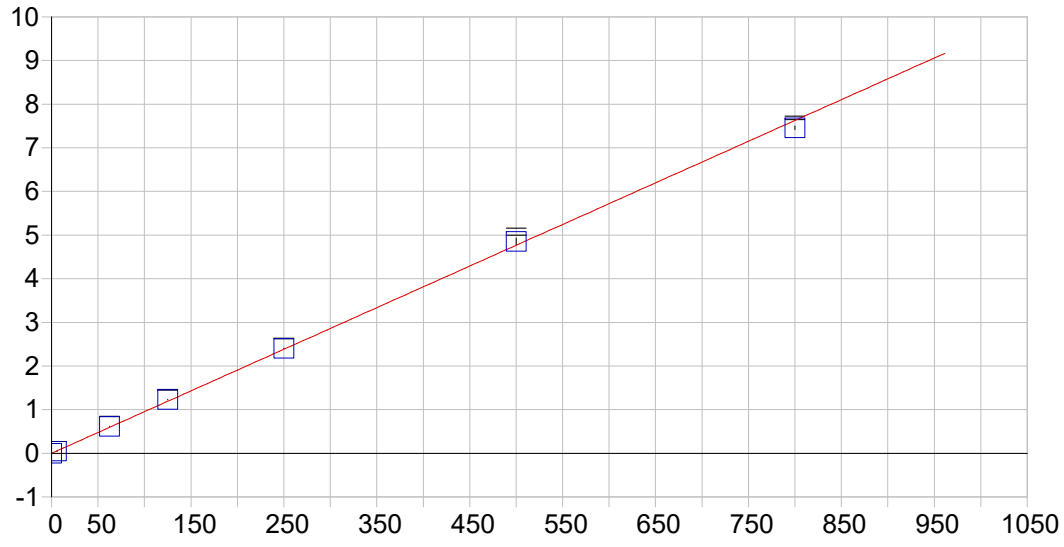


Mn 257.610 {131}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001233	Re-Slope:	1.000000
A1 (Gain):	0.457311	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.001458		
Predicted MQL:	0.004860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00123	.001	1
S1	.01500	.01540	.000	2.69	.00828	.001	1
S2	3.7500	3.8622	.112	2.99	1.7675	.009	1
S3	7.5000	7.6928	.193	2.57	3.5192	.019	1
S4	15.000	14.919	-.081	-.542	6.8237	.016	1
S5	30.000	29.776	-.224	-.747	13.618	.229	1



Mg 279.079 {121}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000488	Re-Slope:	1.000000
A1 (Gain):	0.009535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999770	Status:	OK.
Std Error of Est:	0.000713		
Predicted MDL:	0.100492		
Predicted MQL:	0.334972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00068	-.001	.000	-.00049	.002	1
S1	5.0000	5.3250	.325	6.50	.05028	.001	1
S2	62.500	64.663	2.16	3.46	.61606	.005	1
S3	125.00	128.96	3.96	3.17	1.2291	.007	1
S4	250.00	252.15	2.15	.860	2.4037	.007	1
S5	500.00	509.14	9.14	1.83	4.8540	.082	1
S6	800.00	782.26	-17.7	-2.22	7.4582	.042	1

Reviewed By:mohan
On:12/31/2024
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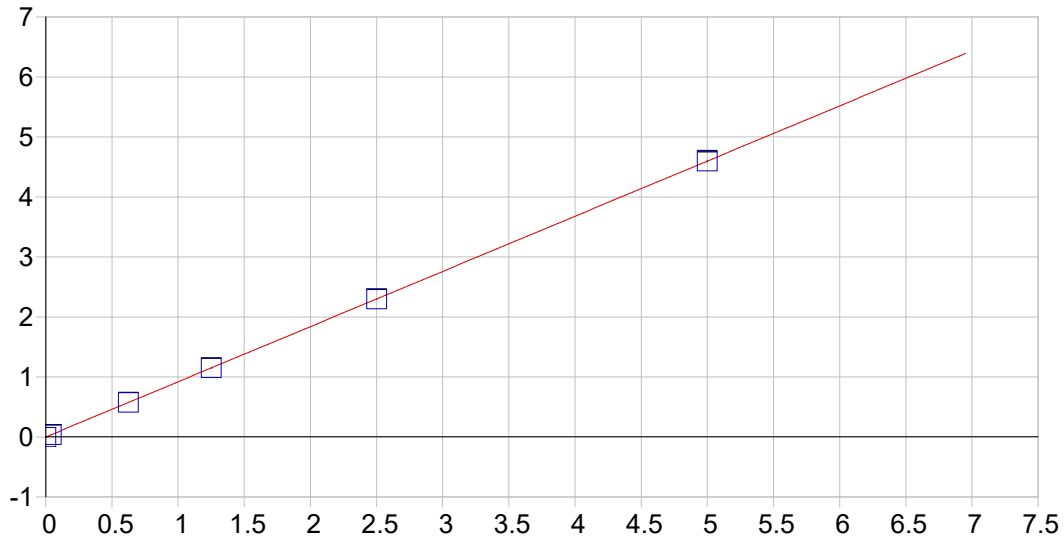


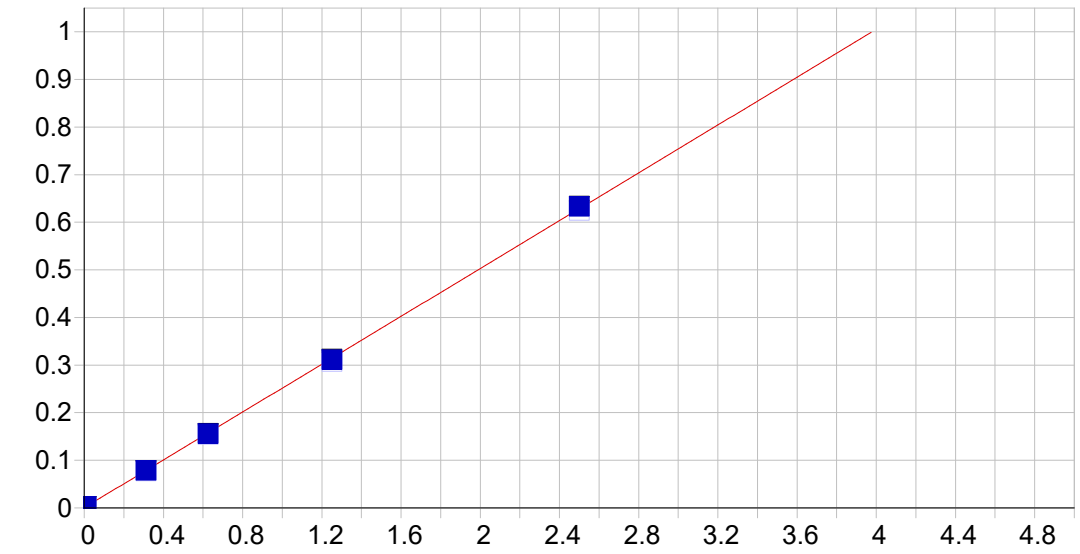
Ni 231.604 {446}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000531	Re-Slope:	1.000000
A1 (Gain):	0.919575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000616		
Predicted MQL:	0.002054		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00053	.000	1
S1	.04000	.04094	.001	2.35	.03712	.000	1
S2	.62500	.62509	.000	.015	.57429	.002	1
S3	1.2500	1.2509	.001	.073	1.1498	.001	1
S4	2.5000	2.4992	-.001	-.033	2.2976	.006	1
S5	5.0000	4.9989	-.001	-.022	4.5963	.012	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



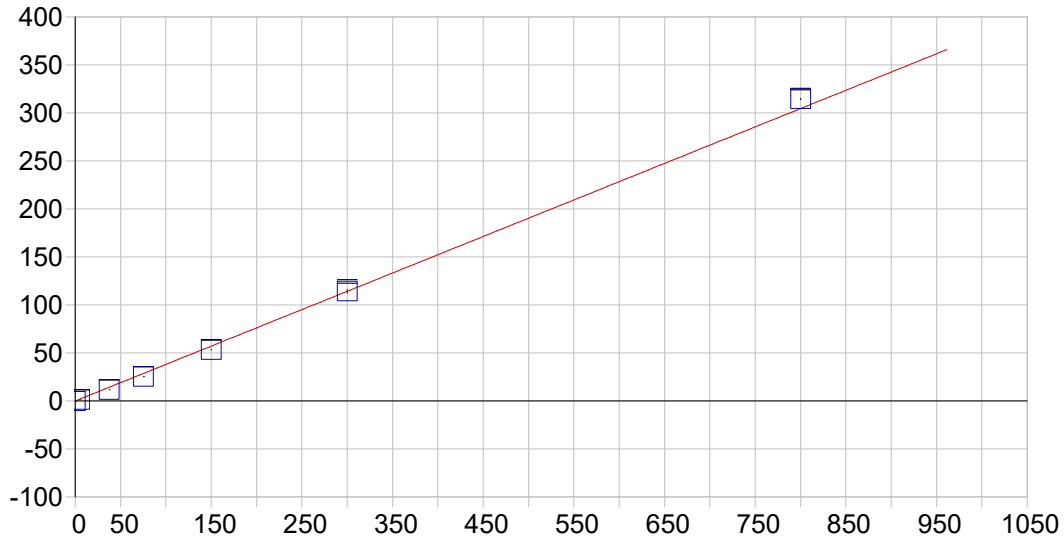
Ag 328.068 {103}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000486	Re-Slope:	1.000000
A1 (Gain):	0.251214	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.001441		
Predicted MQL:	0.004805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.000	1
S1	.01000	.00997	-.000	-.271	.00299	.000	1
S2	.31250	.30992	-.003	-.827	.07721	.000	1
S3	.62500	.61969	-.005	-.849	.15390	.000	1
S4	1.2500	1.2382	-.012	-.942	.30702	.001	1
S5	2.5000	2.5197	.020	.788	.62443	.001	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

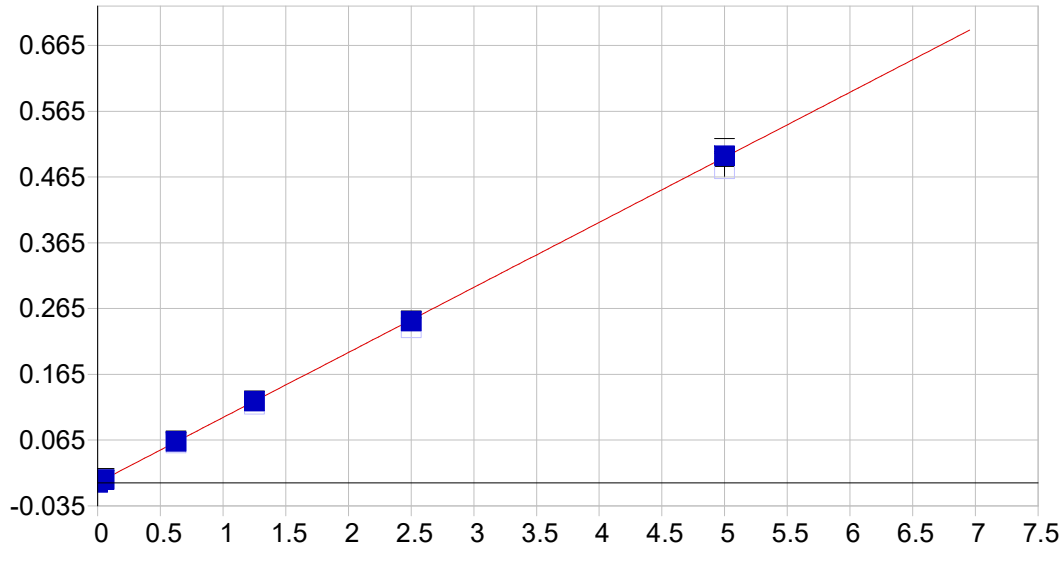


Na 818.326 { 41}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.023855	Re-Slope:	1.000000
A1 (Gain):	0.380679	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998474	Status:	OK.
Std Error of Est:	0.065106		
Predicted MDL:	0.027301		
Predicted MQL:	0.091005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00309	.003	.000	-.02268	.010	1
S1	5.0000	3.5590	-1.44	-28.8	1.3310	.020	1
S2	37.500	30.514	-6.99	-18.6	11.592	.019	1
S3	75.000	66.613	-8.39	-11.2	25.334	.137	1
S4	150.00	140.14	-9.86	-6.57	53.326	.332	1
S5	300.00	300.14	.145	.048	114.23	1.74	1
S6	800.00	826.53	26.5	3.32	314.62	.793	1



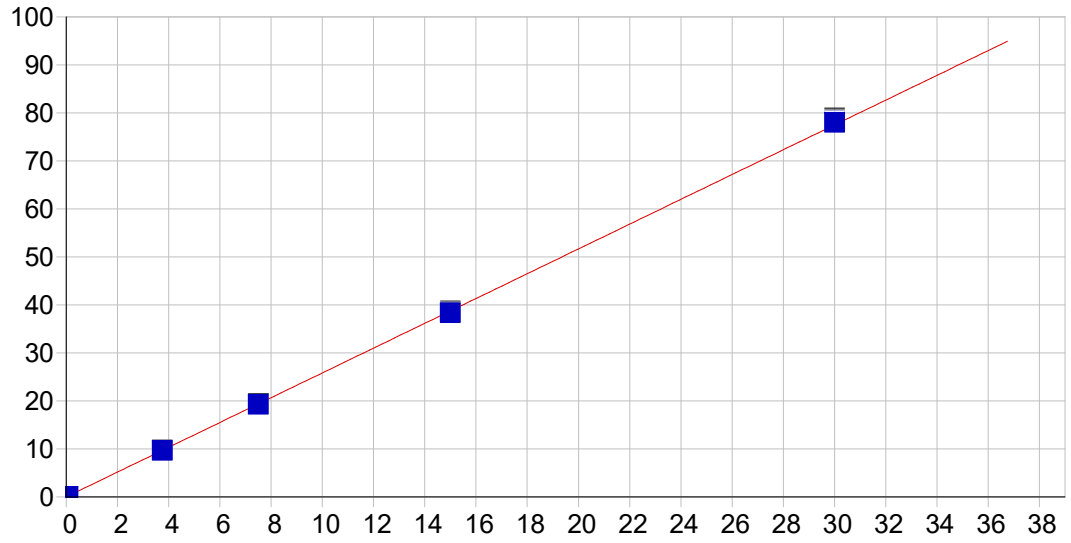
V 292.402 {115}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000489	Re-Slope:	1.000000
A1 (Gain):	0.098915	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.011745		
Predicted MQL:	0.039149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.001	1
S1	.05000	.04663	-.003	-6.74	.00509	.001	1
S2	.62500	.62958	.005	.734	.06029	.001	1
S3	1.2500	1.2483	-.002	-.135	.11901	.000	1
S4	2.5000	2.4773	-.023	-.908	.23562	.001	1
S5	5.0000	5.0233	.023	.466	.47755	.011	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



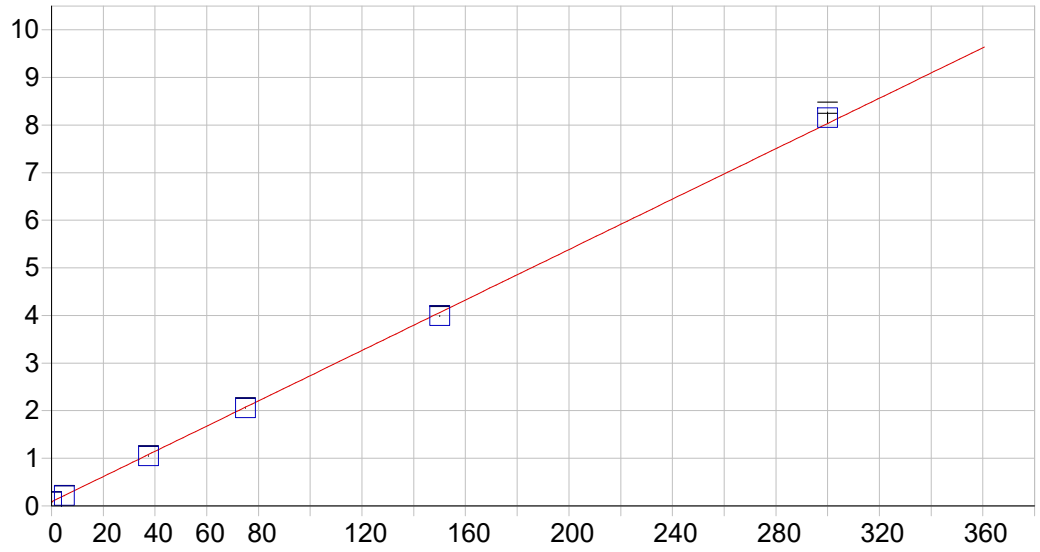
Zn 213.856 {158}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008135	Re-Slope:	1.000000
A1 (Gain):	2.582716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.001444		
Predicted MDL:	0.000617		
Predicted MQL:	0.002058		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00813	.000	1
S1	.06000	.06267	.003	4.45	.17048	.002	1
S2	3.7500	3.7416	-.008	-.225	9.7189	.047	1
S3	7.5000	7.4577	-.042	-.564	19.364	.097	1
S4	15.000	14.841	-.159	-1.06	38.529	.172	1
S5	30.000	30.207	.207	.689	78.403	.507	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



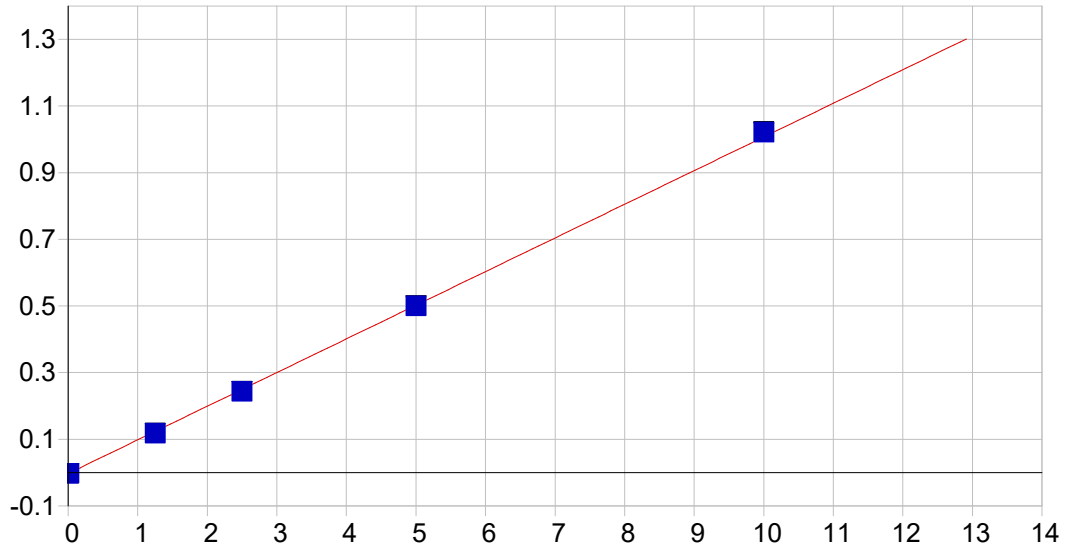
K 769.896 { 44}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.087242	Re-Slope:	1.000000
A1 (Gain):	0.026489	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999856	Status:	OK.
Std Error of Est:	0.000927		
Predicted MDL:	0.157273		
Predicted MQL:	0.524243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	.08725	.001	1
S1	5.0000	4.8669	-.133	-2.66	.21616	.004	1
S2	37.500	36.366	-1.13	-3.02	1.0505	.006	1
S3	75.000	74.298	-.702	-.935	2.0553	.007	1
S4	150.00	147.33	-2.67	-1.78	3.9899	.008	1
S5	300.00	304.64	4.64	1.55	8.1567	.119	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

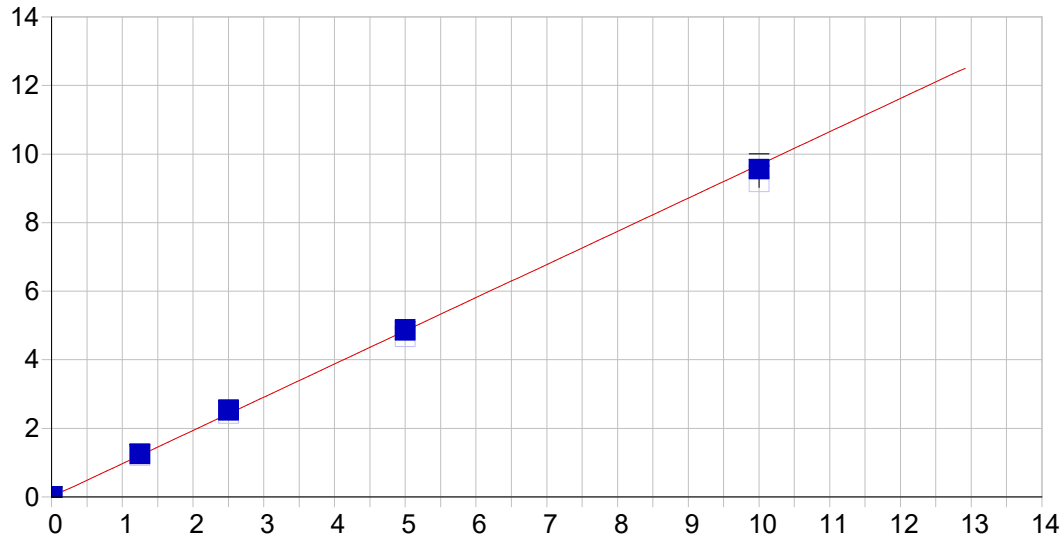


P 177.495 {490}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002756	Re-Slope:	1.000000
A1 (Gain):	0.100987	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002776		
Predicted MQL:	0.009254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00276	.000	1
S1	.01000	.00780	-.002	-22.0	-.00196	.000	1
S2	1.2500	1.1938	-.056	-4.50	.11762	.000	1
S3	2.5000	2.4387	-.061	-2.45	.24316	.001	1
S4	5.0000	4.9766	-.023	-.467	.49909	.002	1
S5	10.000	10.143	.143	1.43	1.0201	.002	1



B 249.678 {135}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005014	Re-Slope:	1.000000
A1 (Gain):	0.967752	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999470	Status:	OK.
Std Error of Est:	0.000509		
Predicted MDL:	0.002022		
Predicted MQL:	0.006740		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00502	.002	1
S1	.01000	-.00078	-.011	-108.	.00421	.001	1
S2	1.2500	1.2832	.033	2.66	1.2008	.005	1
S3	2.5000	2.6021	.102	4.08	2.4312	.018	1
S4	5.0000	5.0077	.008	.154	4.6672	.027	1
S5	10.000	9.8681	-.132	-1.32	9.1869	.162	1

Reviewed By:mohan
On:12/31/2024
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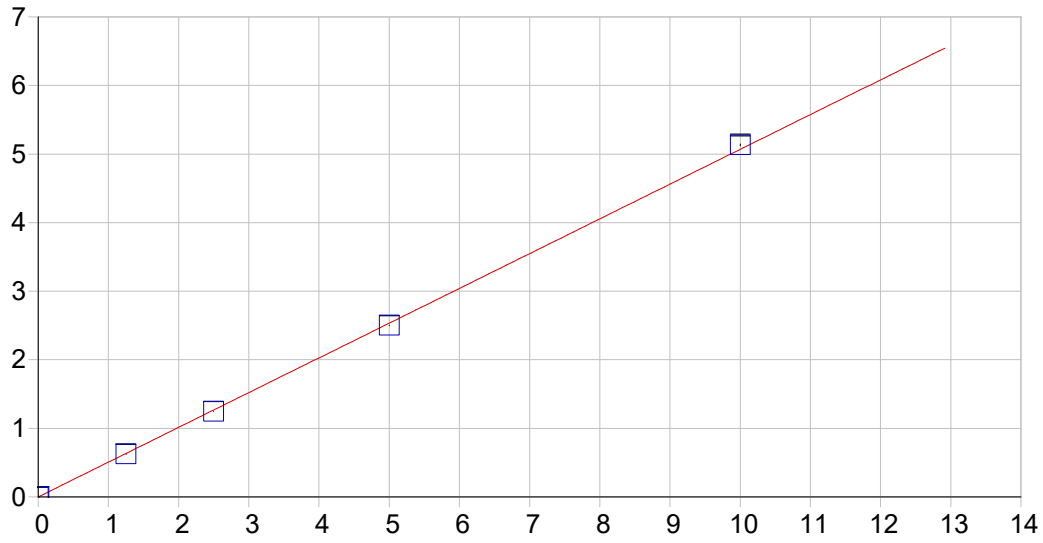
Inst Id :P5



Mo 202.030 {467}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000168	Re-Slope:	1.000000
A1 (Gain):	0.506802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000637		
Predicted MQL:	0.002125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00017	.000	1
S1	.01000	.01068	.001	6.75	.00558	.000	1
S2	1.2500	1.2314	-.019	-1.49	.62425	.001	1
S3	2.5000	2.4603	-.040	-1.59	1.2470	.002	1
S4	5.0000	4.9314	-.069	-1.37	2.4994	.005	1
S5	10.000	10.126	.126	1.26	5.1322	.013	1

Reviewed By:mohan
On:12/31/2024
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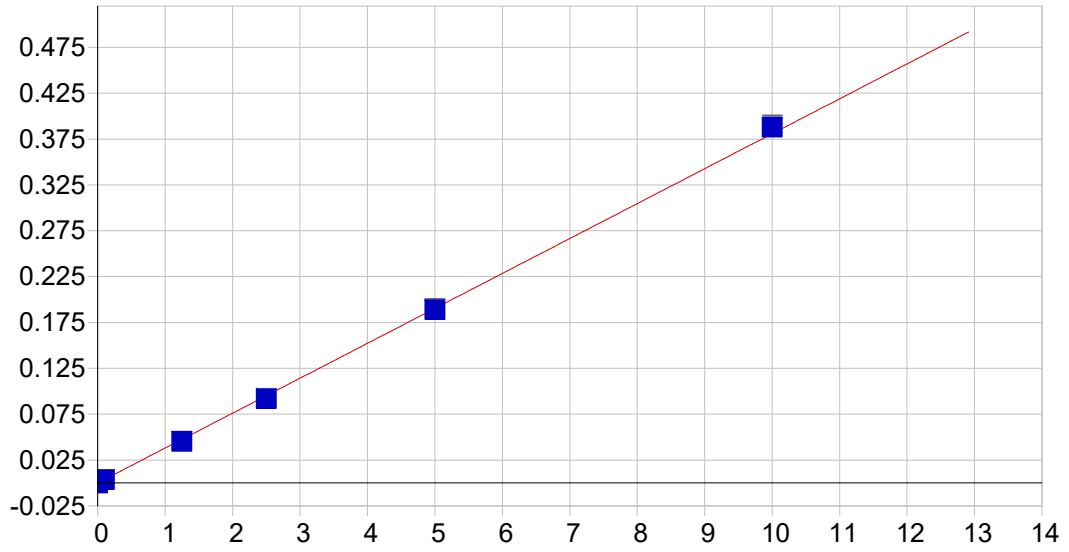

S 182.034 {485}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000074	Re-Slope:	1.000000
A1 (Gain):	0.038087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.006109		
Predicted MQL:	0.020363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00007	.000	1
S1	.10000	.09805	-.002	-1.95	.00366	.000	1
S2	1.2500	1.1884	-.062	-4.93	.04534	.000	1
S3	2.5000	2.4145	-.086	-3.42	.09219	.000	1
S4	5.0000	4.9614	-.039	-.771	.18950	.000	1
S5	10.000	10.188	.188	1.88	.38916	.001	1

Reviewed By:mohan
On:12/31/2024
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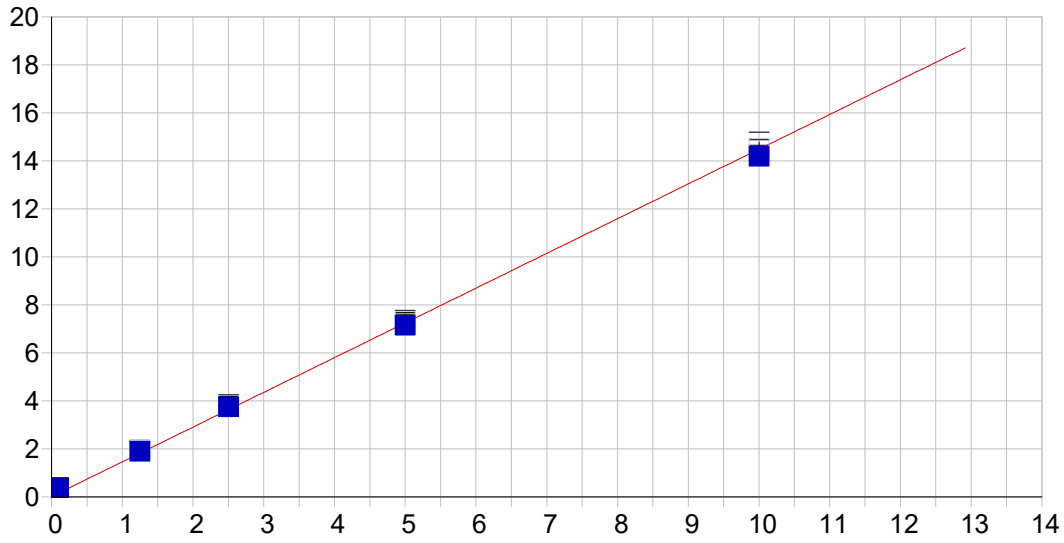


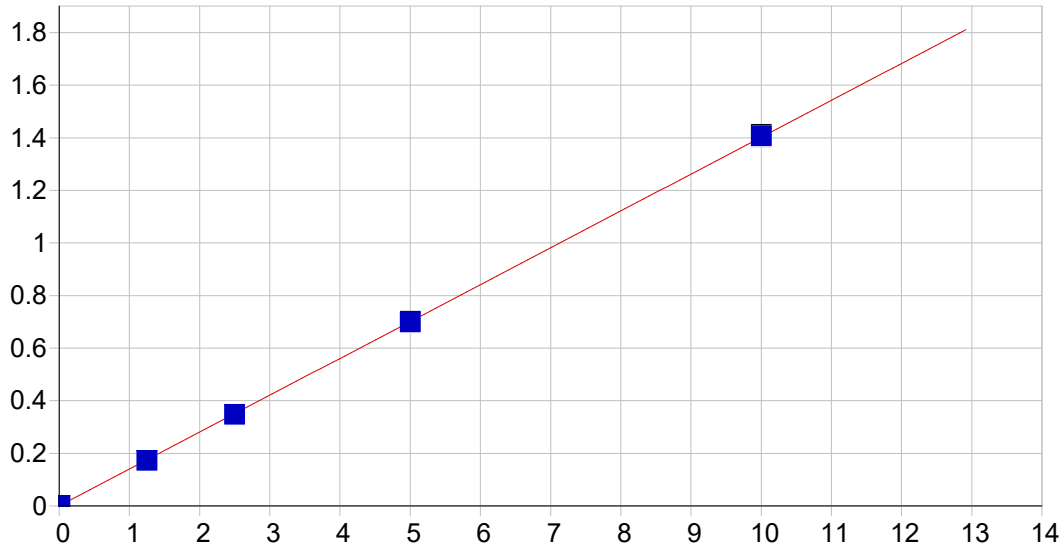
Si 251.611 {134}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014545	Re-Slope:	1.000000
A1 (Gain):	1.447384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994149	Status:	OK.
Std Error of Est:	0.008546		
Predicted MDL:	0.001317		
Predicted MQL:	0.004390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.01432	.003	1
S1	.10000	.24922	.149	149.	.37731	.004	1
S2	1.2500	1.2982	.048	3.86	1.9346	.008	1
S3	2.5000	2.5812	.081	3.25	3.8326	.027	1
S4	5.0000	4.9311	-.069	-1.38	7.3160	.046	1
S5	10.000	9.7915	-.208	-2.08	14.515	.275	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



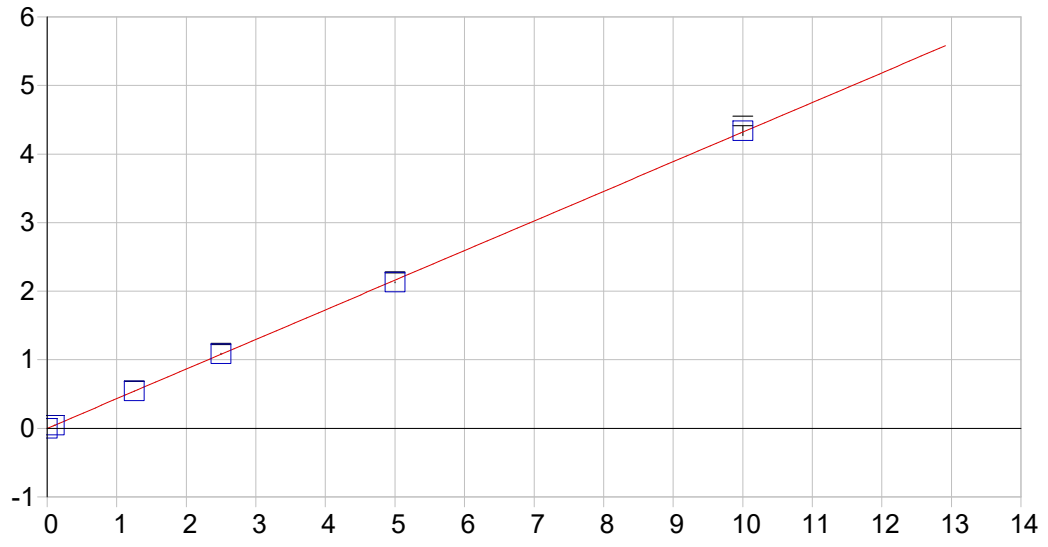
Sn 189.989 {478}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000291	Re-Slope:	1.000000
A1 (Gain):	0.140174	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001630		
Predicted MQL:	0.005434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00029	.000	1
S1	.00700	.00763	.001	8.98	.00132	.000	1
S2	1.2500	1.2303	-.020	-1.58	.17186	.000	1
S3	2.5000	2.4796	-.020	-.818	.34611	.001	1
S4	5.0000	4.9930	-.007	-.141	.69667	.002	1
S5	10.000	10.047	.047	.466	1.4015	.004	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



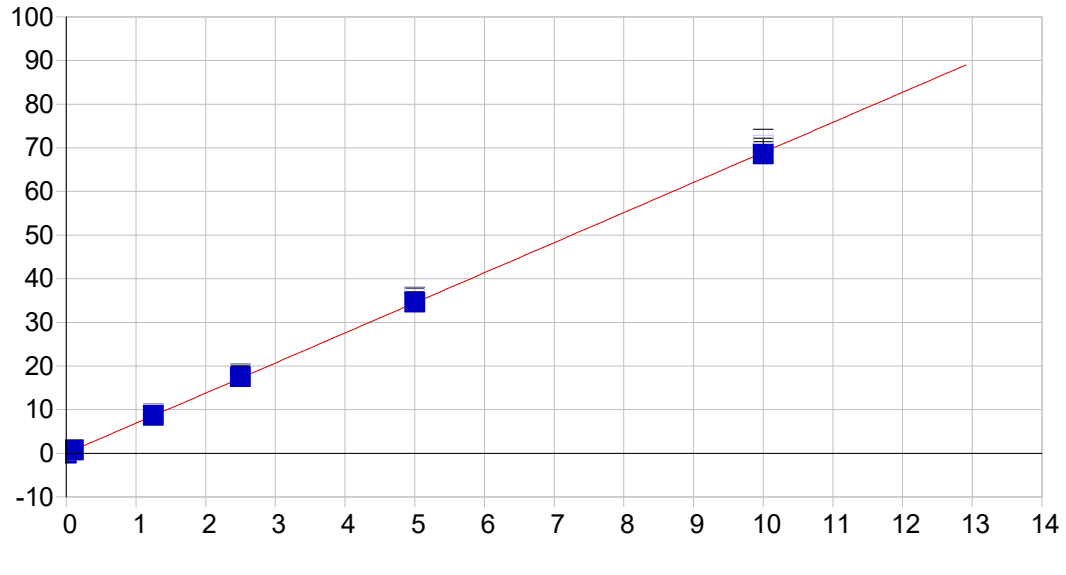
Ti 336.121 {100}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000132	Re-Slope:	1.000000
A1 (Gain):	0.431982	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000212		
Predicted MDL:	0.004090		
Predicted MQL:	0.013635		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00013	.001	1
S1	.10000	.10607	.006	6.07	.04595	.000	1
S2	1.2500	1.2553	.005	.427	.54241	.002	1
S3	2.5000	2.5144	.014	.576	1.0863	.008	1
S4	5.0000	4.9312	-.069	-1.38	2.1303	.007	1
S5	10.000	10.043	.043	.430	4.3385	.071	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



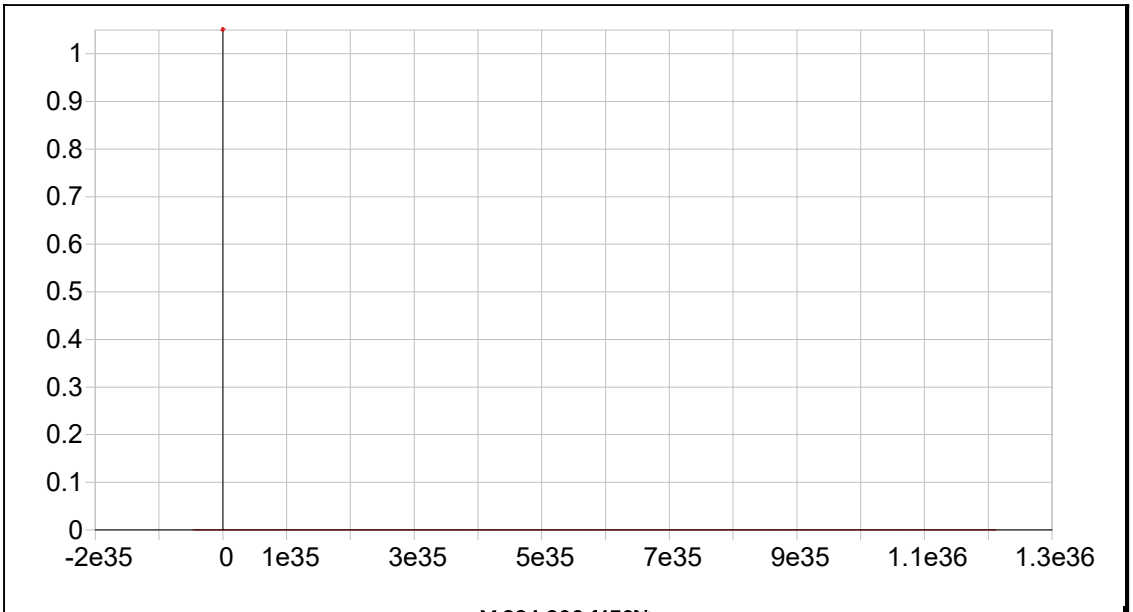
Sr 407.771 { 83}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002286	Re-Slope:	1.000000
A1 (Gain):	6.894000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.003216		
Predicted MDL:	0.000321		
Predicted MQL:	0.001071		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00235	.003	1
S1	.10000	.10706	.007	7.06	.73647	.007	1
S2	1.2500	1.2565	.006	.518	8.9184	.082	1
S3	2.5000	2.5355	.036	1.42	17.995	.135	1
S4	5.0000	5.0130	.013	.259	35.591	.156	1
S5	10.000	9.9382	-.062	-.618	70.580	1.44	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

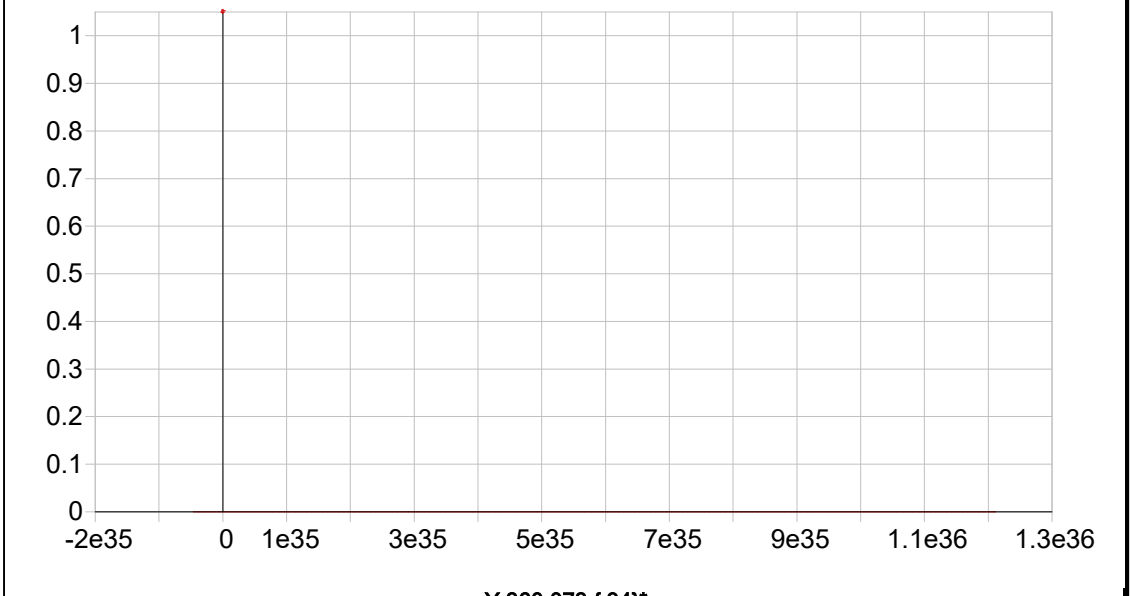


Y 224.306 {450}*

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 360.073 { 94}*

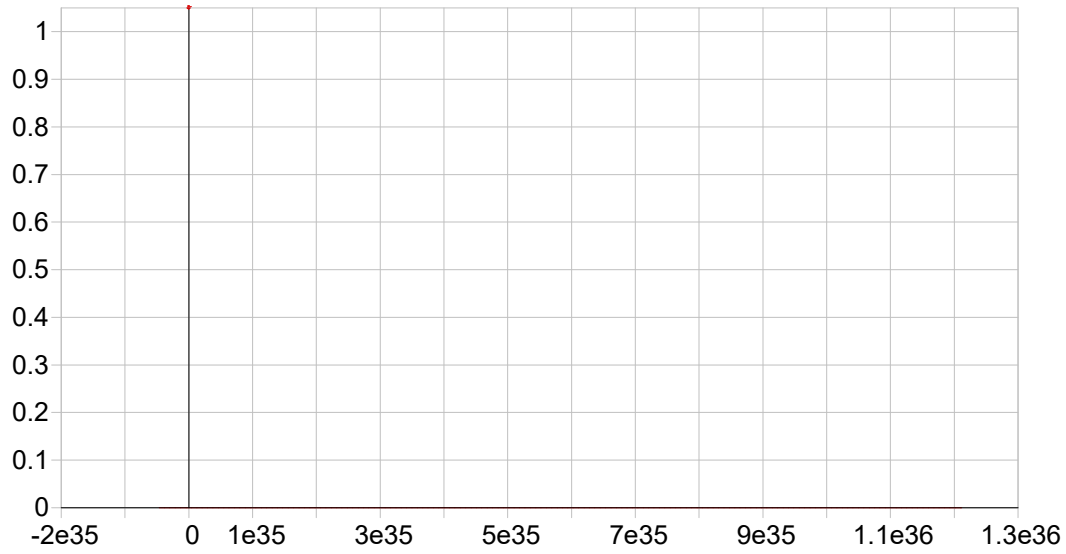
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

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

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



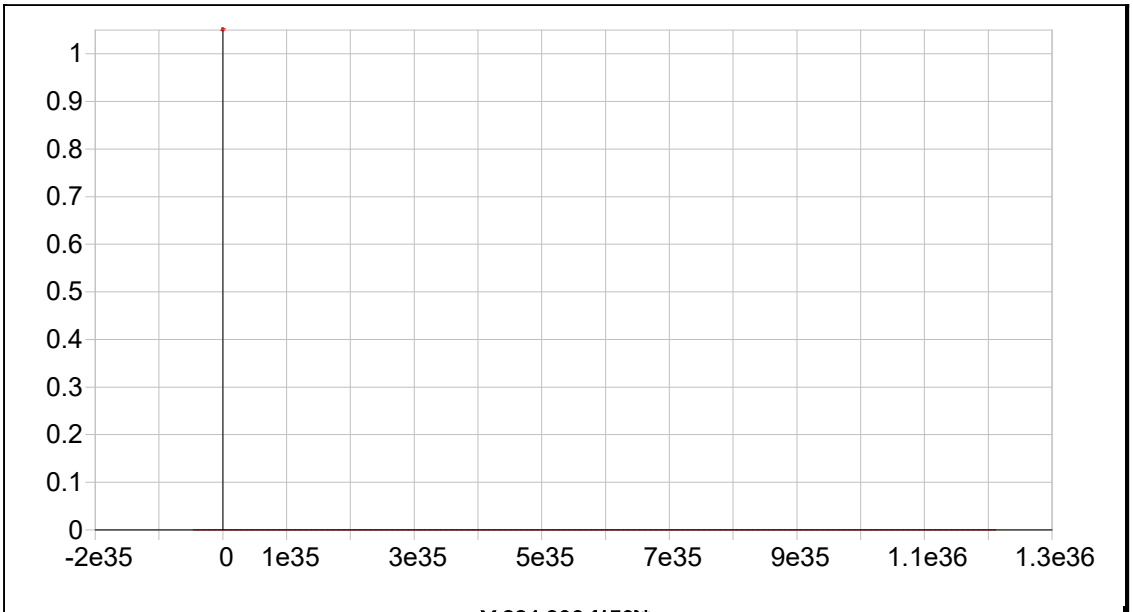
Y 371.030 { 91}*

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

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

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

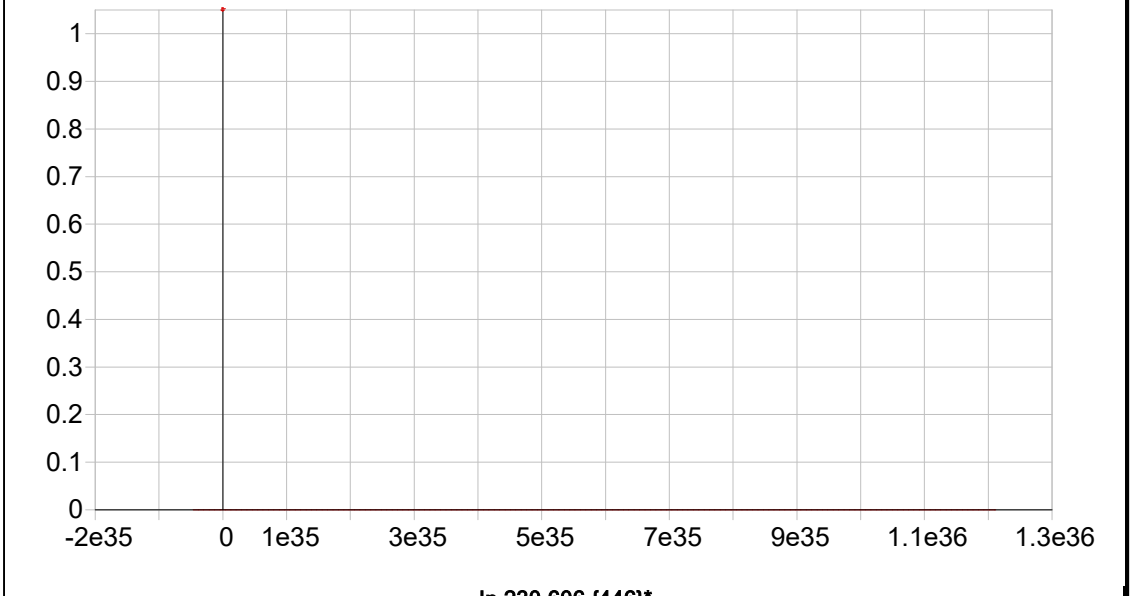
Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



Y 224.306 {150}*

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

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



In 230.606 {446}*

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

Reviewed By:mohan
On:12/31/2024
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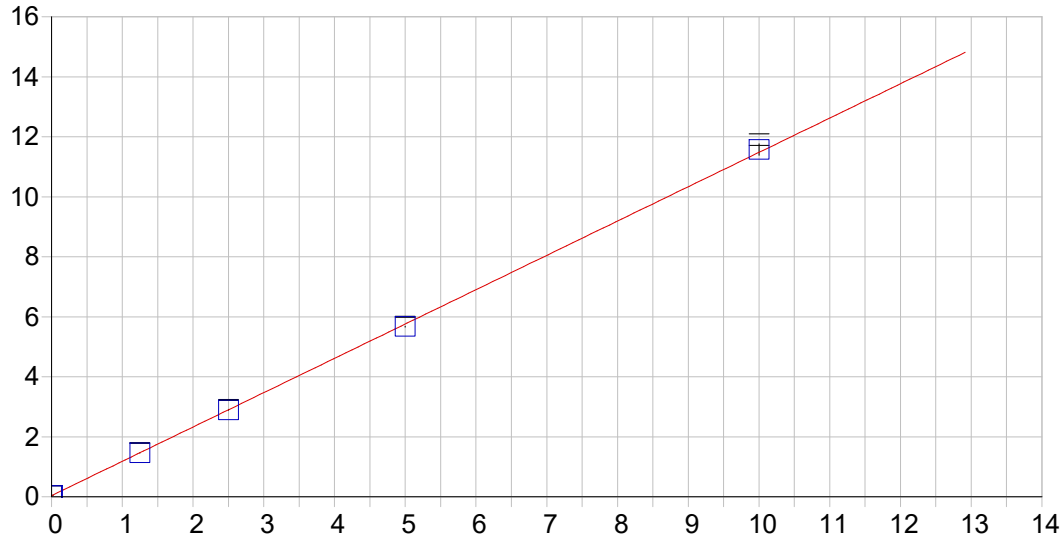
Inst Id :P5

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



Li 670.784 { 50}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.037148		Re-Slope:	1.000000	
A1 (Gain):	1.144100		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999947	Status:	OK.		
Std Error of Est:	0.000242				
Predicted MDL:	0.004104				
Predicted MQL:	0.013680				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.03715	.005	1
S5	10.000	10.086	.086	.861	11.577	.190	1
S4	5.0000	4.9234	-.077	-1.53	5.6700	.014	1
S3	2.5000	2.4978	-.002	-.088	2.8949	.017	1
S2	1.2500	1.2434	-.007	-.526	1.4597	.011	1
S1	.01500	.01428	-.001	-4.79	.05349	.002	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/29/2024 1:11:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	.44832	-.00039	.00090	.00008	.00000	-.00199	.05848	.00223
Stddev	.50001	.00014	.00015	.00014	.00002	.00313	.00317	.00180
%RSD	111.53	35.531	16.163	165.96	544.62	156.91	5.4269	80.801
#1	1.0256	-.00035	.00084	.00002	.00000	-.00258	.05913	.00126
#2	.15210	-.00054	.00079	-.00001	-.00002	-.00479	.05503	.00430
#3	.16725	-.00028	.00107	.00024	.00003	.00139	.06127	.00112

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00059	.00834	.00001	-.00073	.00297	.00010	.00123	-.00049
Stddev	.00019	.00215	.00003	.00015	.00042	.00068	.00057	.00165
%RSD	32.555	25.814	558.73	21.161	14.280	683.53	46.565	333.08
#1	.00062	.00888	-.00002	-.00068	.00319	.00087	.00067	.00139
#2	.00076	.00597	.00003	-.00060	.00325	-.00045	.00120	-.00163
#3	.00038	.01017	.00001	-.00090	.00248	-.00012	.00182	-.00125

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00053	.00049	-.02268	.00049	.00813	.08725	-.00276	.00502
Stddev	.00037	.00015	.00998	.00065	.00018	.00087	.00027	.00249
%RSD	69.334	31.123	44.016	133.42	2.1644	.99502	9.9426	49.654
#1	-.00070	.00031	-.03362	.00096	.00794	.08770	-.00247	.00217
#2	-.00011	.00059	-.02034	.00077	.00815	.08780	-.00278	.00676
#3	-.00079	.00056	-.01407	-.00026	.00829	.08625	-.00302	.00615

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00017	-.00007	.01432	.00029	.00013	-.00235	.03715
Stddev	.00011	.00028	.00311	.00020	.00137	.00289	.00493
%RSD	63.236	376.99	21.679	68.952	1057.6	123.16	13.283
#1	.00016	-.00001	.01350	.00051	-.00071	.00097	.03372
#2	.00007	-.00038	.01776	.00012	-.00061	-.00367	.03492
#3	.00028	.00017	.01171	.00024	.00171	-.00433	.04280

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/29/2024 1:11:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	2045.6	25678.	1942.2	1298.6	1850.2
Stddev	5.5	195.	5.5	9.0	4.4
%RSD	.26710	.75996	.28553	.68971	.24028
#1	2039.6	25475.	1935.9	1289.3	1845.2
#2	2050.3	25864.	1946.4	1307.2	1853.4
#3	2046.9	25696.	1944.3	1299.3	1852.2

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/29/2024 1:16:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1.5442	.00174	.00425	.00202	.00572	.02223	.99502	.05534
Stddev	.1633	.00044	.00038	.00038	.00036	.00074	.00724	.00257
%RSD	10.577	25.492	8.8234	19.040	6.3508	3.3175	.72754	4.6390
#1	1.4409	.00123	.00441	.00180	.00560	.02255	.99074	.05405
#2	1.7325	.00199	.00452	.00246	.00543	.02138	1.0034	.05830
#3	1.4592	.00200	.00382	.00180	.00612	.02275	.99094	.05368

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02206	.30626	.00197	.05216	.00723	.00268	.00828	.05028
Stddev	.00050	.00274	.00012	.00059	.00207	.00024	.00059	.00085
%RSD	2.2809	.89368	5.9792	1.1283	28.694	8.9452	7.0907	1.6872
#1	.02152	.30471	.00199	.05220	.00721	.00278	.00888	.05081
#2	.02251	.30942	.00209	.05156	.00516	.00241	.00824	.05074
#3	.02214	.30465	.00185	.05273	.00931	.00286	.00771	.04931

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03712	.00299	1.3310	.00509	.17048	.21616	-.00196	.00421
Stddev	.00032	.00014	.0196	.00134	.00157	.00357	.00049	.00065
%RSD	.87299	4.7825	1.4692	26.418	.92381	1.6518	24.692	15.347
#1	.03748	.00306	1.3119	.00373	.16975	.21222	-.00201	.00362
#2	.03687	.00282	1.3510	.00513	.16940	.21708	-.00243	.00412
#3	.03700	.00308	1.3300	.00641	.17228	.21918	-.00146	.00490

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00558	.00366	.37731	.00132	.04595	.73647	.05349
Stddev	.00041	.00016	.00368	.00012	.00006	.00701	.00205
%RSD	7.3530	4.4741	.97444	9.3576	.12622	.95184	3.8374
#1	.00576	.00384	.37546	.00130	.04602	.73104	.05123
#2	.00511	.00362	.38155	.00121	.04594	.74438	.05400
#3	.00587	.00352	.37493	.00145	.04590	.73398	.05523

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/29/2024 1:16:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	2044.3	25511.	1957.2	1300.8	1854.6
Stddev	5.5	58.	24.2	8.4	3.4
%RSD	.27134	.22724	1.2343	.64574	.18103
#1	2038.9	25531.	1979.4	1308.8	1851.9
#2	2050.0	25556.	1931.5	1301.6	1858.3
#3	2044.0	25445.	1960.7	1292.0	1853.5

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/29/2024 1:20:07 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	158.23	.10074	2.1474	.08378	.12856	4.6851	11.361	1.3114
Stddev	.51	.00028	.0046	.00056	.00017	.0237	.096	.0054
%RSD	.32399	.27596	.21183	.67039	.12903	.50523	.84786	.41070
#1	158.25	.10090	2.1483	.08330	.12875	4.7123	11.451	1.3110
#2	158.74	.10042	2.1424	.08365	.12847	4.6689	11.373	1.3169
#3	157.71	.10090	2.1514	.08439	.12846	4.6741	11.259	1.3062

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6623	3.6787	.75189	.62808	.72972	.79576	1.7675	.61606
Stddev	.0041	.0284	.00057	.00164	.00762	.00597	.0090	.00496
%RSD	.15362	.77098	.07622	.26151	1.0445	.75031	.50731	.80448
#1	2.6649	3.7063	.75153	.62774	.73804	.80182	1.7758	.62029
#2	2.6576	3.6803	.75255	.62664	.72807	.79557	1.7686	.61728
#3	2.6645	3.6496	.75158	.62987	.72306	.78989	1.7580	.61061

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.57429	.07721	11.592	.06029	9.7189	1.0505	.11762	1.2008
Stddev	.00211	.00019	.019	.00083	.0468	.0065	.00017	.0047
%RSD	.36827	.24261	.16482	1.3783	.48099	.61785	.14829	.39391
#1	.57601	.07735	11.581	.06118	9.7710	1.0563	.11771	1.1997
#2	.57193	.07700	11.614	.06014	9.6805	1.0518	.11742	1.2060
#3	.57493	.07728	11.581	.05954	9.7052	1.0435	.11772	1.1968

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.62425	.04534	1.9346	.17186	.54241	8.9184	1.4597
Stddev	.00082	.00010	.0078	.00021	.00245	.0821	.0113
%RSD	.13183	.22218	.40114	.12156	.45156	.92077	.77339
#1	.62341	.04524	1.9383	.17200	.54517	9.0111	1.4699
#2	.62506	.04535	1.9399	.17162	.54158	8.8891	1.4617
#3	.62428	.04544	1.9257	.17196	.54049	8.8550	1.4476

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/29/2024 1:20:07 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	2032.2	25754.	2001.1	1296.0	1765.5
Stddev	1.0	160.	14.6	10.9	3.1
%RSD	.04798	.62193	.73163	.83722	.17780
#1	2032.3	25573.	1984.7	1283.8	1765.7
#2	2031.2	25877.	2006.0	1304.6	1768.5
#3	2033.1	25812.	2012.7	1299.7	1762.2

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/29/2024 1:23:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	308.95	.20041	4.2830	.16772	.25755	9.3984	22.768	2.6222
Stddev	1.13	.00100	.0028	.00056	.00109	.0365	.118	.0177
%RSD	.36566	.50111	.06462	.33259	.42359	.38881	.51611	.67447
#1	308.37	.20139	4.2802	.16710	.25874	9.4168	22.862	2.6408
#2	310.25	.20046	4.2831	.16819	.25730	9.4220	22.804	2.6056
#3	308.22	.19938	4.2857	.16786	.25660	9.3563	22.636	2.6201

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3128	7.3056	1.4801	1.2407	1.4458	1.5808	3.5192	1.2291
Stddev	.0053	.0484	.0011	.0011	.0061	.0091	.0186	.0075
%RSD	.09944	.66308	.07323	.08555	.42203	.57539	.52735	.60777
#1	5.3067	7.3543	1.4814	1.2395	1.4516	1.5862	3.5363	1.2360
#2	5.3162	7.3049	1.4796	1.2408	1.4463	1.5858	3.5219	1.2302
#3	5.3155	7.2575	1.4794	1.2416	1.4395	1.5703	3.4995	1.2211

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1498	.15390	25.334	.11901	19.364	2.0553	.24316	2.4312
Stddev	.0013	.00039	.137	.00040	.097	.0067	.00053	.0175
%RSD	.10861	.25460	.54200	.33952	.50001	.32545	.21917	.72161
#1	1.1488	.15348	25.491	.11926	19.375	2.0630	.24356	2.4494
#2	1.1512	.15425	25.275	.11923	19.455	2.0525	.24336	2.4143
#3	1.1494	.15397	25.237	.11854	19.262	2.0505	.24255	2.4300

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2470	.09219	3.8326	.34611	1.0863	17.995	2.8949
Stddev	.0020	.00009	.0271	.00053	.0084	.135	.0173
%RSD	.16123	.09961	.70750	.15436	.77365	.75115	.59912
#1	1.2461	.09210	3.8618	.34549	1.0915	18.129	2.9060
#2	1.2493	.09229	3.8081	.34639	1.0908	17.997	2.9038
#3	1.2457	.09219	3.8280	.34644	1.0766	17.858	2.8749

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: S3 Acquired: 12/29/2024 1:23:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	1970.5	25133.	1947.7	1248.5	1688.6
Stddev	3.5	70.	7.8	5.8	2.9
%RSD	.17881	.27917	.40040	.46519	.17079
#1	1966.4	25208.	1939.2	1250.4	1685.4
#2	1972.7	25069.	1954.4	1241.9	1690.9
#3	1972.3	25122.	1949.6	1253.0	1689.6

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/29/2024 1:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	598.23	.39618	8.6240	.33270	.52060	18.557	44.749	5.0470
Stddev	1.61	.00126	.0198	.00082	.00138	.062	.142	.0424
%RSD	.26916	.31740	.22972	.24537	.26491	.33585	.31798	.83944
#1	597.10	.39521	8.6011	.33211	.51931	18.624	44.898	5.0919
#2	597.51	.39572	8.6360	.33235	.52044	18.548	44.734	5.0412
#3	600.07	.39760	8.6349	.33363	.52205	18.500	44.615	5.0078

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.568	14.208	2.9058	2.4548	2.8306	3.0786	6.8237	2.4037
Stddev	.035	.043	.0042	.0030	.0138	.0083	.0155	.0070
%RSD	.33319	.30504	.14585	.12249	.48665	.26861	.22765	.29262
#1	10.528	14.251	2.9067	2.4515	2.8375	3.0854	6.8410	2.4110
#2	10.588	14.208	2.9012	2.4553	2.8396	3.0809	6.8109	2.3970
#3	10.589	14.164	2.9095	2.4575	2.8148	3.0694	6.8193	2.4030

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.2976	.30702	53.326	.23562	38.529	3.9899	.49909	4.6672
Stddev	.0063	.00084	.332	.00091	.172	.0079	.00160	.0269
%RSD	.27325	.27423	.62175	.38526	.44675	.19705	.31978	.57686
#1	2.2906	.30651	53.671	.23576	38.473	3.9972	.49756	4.6955
#2	2.3026	.30657	53.298	.23465	38.391	3.9911	.50074	4.6642
#3	2.2997	.30799	53.009	.23645	38.722	3.9816	.49896	4.6419

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4994	.18950	7.3160	.69667	2.1303	35.591	5.6700
Stddev	.0048	.00031	.0462	.00201	.0068	.156	.0140
%RSD	.19252	.16459	.63137	.28879	.31906	.43827	.24756
#1	2.4944	.18936	7.3670	.69449	2.1368	35.702	5.6843
#2	2.4997	.18929	7.3041	.69846	2.1309	35.658	5.6695
#3	2.5041	.18986	7.2769	.69704	2.1233	35.413	5.6562

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/29/2024 1:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	1883.5	24352.	1950.6	1182.1	1598.6
Stddev	2.7	61.	14.3	3.4	.8
%RSD	.14121	.24897	.73117	.28589	.04966
#1	1885.6	24381.	1939.5	1186.0	1599.5
#2	1884.3	24282.	1945.6	1179.8	1598.4
#3	1880.5	24393.	1966.7	1180.6	1598.0

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: S5 Acquired: 12/29/2024 1:31:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1147.4	.77573	17.392	.66411	1.0779	38.035	91.425	10.056
Stddev	1.9	.00166	.023	.00139	.0033	.609	1.415	.190
%RSD	.16983	.21463	.13341	.20959	.31023	1.6010	1.5481	1.8883
#1	1146.2	.77744	17.417	.66453	1.0751	38.736	93.054	10.275
#2	1146.4	.77564	17.389	.66255	1.0769	37.641	90.495	9.9387
#3	1149.7	.77411	17.371	.66523	1.0816	37.728	90.727	9.9548

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	21.033	28.469	5.7163	4.8885	5.6944	6.1228	13.618	4.8540
Stddev	.040	.432	.0083	.0086	.0813	.1056	.229	.0823
%RSD	.19025	1.5192	.14538	.17611	1.4274	1.7241	1.6805	1.6948
#1	21.076	28.968	5.7094	4.8980	5.7876	6.2438	13.881	4.9480
#2	21.023	28.212	5.7255	4.8862	5.6568	6.0497	13.463	4.7953
#3	20.998	28.227	5.7139	4.8813	5.6387	6.0748	13.510	4.8186

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.5963	.62443	114.23	.47755	78.403	8.1567	1.0201	9.1869
Stddev	.0124	.00069	1.74	.01117	.507	.1186	.0017	.1625
%RSD	.27067	.10970	1.5194	2.3381	.64638	1.4534	.16685	1.7688
#1	4.6105	.62397	116.18	.49044	78.735	8.2936	1.0217	9.3738
#2	4.5913	.62521	113.68	.47083	78.654	8.0881	1.0202	9.0795
#3	4.5872	.62409	112.84	.47138	77.819	8.0885	1.0183	9.1073

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.1322	.38916	14.515	1.4015	4.3385	70.580	11.577
Stddev	.0133	.00104	.275	.0040	.0714	1.437	.190
%RSD	.26003	.26790	1.8922	.28199	1.6461	2.0356	1.6433
#1	5.1242	.39002	14.832	1.4059	4.4200	72.078	11.796
#2	5.1247	.38946	14.353	1.4005	4.2866	70.447	11.460
#3	5.1476	.38800	14.360	1.3982	4.3090	69.214	11.474

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/29/2024 1:31:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1761.7	23541.	1903.6	1079.3	1506.9
Stddev	1.2	96.	36.7	8.9	3.6
%RSD	.06686	.40632	1.9301	.82311	.23779
#1	1762.7	23561.	1861.7	1076.1	1504.2
#2	1762.0	23437.	1919.1	1072.4	1505.4
#3	1760.4	23625.	1930.1	1089.3	1510.9

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/29/2024 1:35:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	95.713	44.162	15.512	7.4582	314.62
Stddev	.392	.209	.072	.0423	.79
%RSD	.40908	.47427	.46164	.56647	.25214
#1	95.719	44.165	15.522	7.4669	314.01
#2	96.101	44.370	15.578	7.4954	315.51
#3	95.318	43.951	15.436	7.4123	314.32

Int. Std.	Y_3710
Units	Cts/S
Avg	1871.0
Stddev	.5
%RSD	.02652
#1	1870.9
#2	1870.5
#3	1871.5

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/29/2024 1:54:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.098885	1.003591	.9734783	1.009322	.9639804	2.403303
Stddev	.005852	.008227	.0025810	.001266	.0042531	.013086
%RSD	.5325039	.8198048	.2651320	.1254604	.4412051	.5445062
#1	1.092139	1.000418	.9739037	1.009370	.9591191	2.409087
#2	1.102592	.997422	.9707111	1.008032	.9658071	2.388322
#3	1.101923	1.012933	.9758202	1.010563	.9670150	2.412501

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5122599	.5196395	.5026764	10.27296	.5434993	.5089894
Stddev	.0016213	.0008888	.0012486	.04958	.0004497	.0014306
%RSD	.3165091	.1710382	.2483804	.4826046	.0827374	.2810703
#1	.5104314	.5188555	.5015247	10.22950	.5430065	.5075325
#2	.5128257	.5194580	.5025013	10.32696	.5438873	.5090434
#3	.5135225	.5206050	.5040033	10.26241	.5436043	.5103922

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4868060	10.45946	.5173931	6.003799	.5120696	.2432002
Stddev	.0046707	.04868	.0025847	.044921	.0020766	.0004320
%RSD	.9594613	.4654409	.4995641	.7482155	.4055243	.1776279
#1	.4888287	10.40346	.5144764	6.033757	.5100618	.2430756
#2	.4814648	10.49170	.5193996	6.025492	.5119384	.2436808
#3	.4901244	10.48323	.5183032	5.952148	.5142087	.2428441

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.458800	.5080237	.9786025	9.066799	F .0023521	F .0048546
Stddev	.031423	.0155939	.0048954	.081798	.0012275	.0028686
%RSD	.3322088	3.069531	.5002418	.9021738	52.18773	59.08946
#1	9.423760	.5259446	.9815022	9.161252	.0030435	.0069267
#2	9.468161	.5005806	.9813548	9.019357	.0030778	.0015806
#3	9.484478	.4975460	.9729504	9.019789	.0009348	.0060565

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/29/2024 1:54:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0009572	F .0090615	F .0004874	F .0013679	F .0003981	F -.009259
Stddev	.0002041	.0033864	.0011532	.0003719	.0008774	.000343
%RSD	21.32138	37.37126	236.6251	27.19030	220.4138	3.704210
#1	.0007297	.0099955	.0003297	.0009421	-.000496	-.009040
#2	.0010176	.0118828	.0017113	.0015323	.001258	-.009082
#3	.0011243	.0053061	-.000579	.0016293	.000433	-.009654

Elem	Li6707
Units	ppm
Avg	F .0078623
Stddev	.0029066
%RSD	36.96823
#1	.0112183
#2	.0061482
#3	.0062204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2102.323	26445.87	1985.334	1342.619	1887.452
Stddev	1.082	34.11	9.464	3.610	.332
%RSD	.0514530	.1289719	.4767162	.2688908	.0175814
#1	2101.099	26479.63	1993.699	1341.502	1887.263
#2	2102.719	26446.55	1987.241	1339.699	1887.257
#3	2103.150	26411.43	1975.061	1346.656	1887.835

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/29/2024 1:58:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000230	.0006604	.0001994	.0008052	-.000675	.0008452	-.001250
Stddev	.002840	.0013343	.0011193	.0031475	.000674	.0233225	.001723
%RSD	1233.084	202.0263	561.3142	390.8873	99.77258	2759.285	137.8507
#1	-.003102	.0018992	.0014729	.0044392	-.001330	-.006077	.000518
#2	.002578	-.000752	-.000629	-.000963	-.000713	.026845	-.002923
#3	-.000167	.000834	-.000246	-.001060	.000016	-.018233	-.001344

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000087	.0001137	.0273715	.0011604	.0003847	-.005304	.0128153
Stddev	.000007	.0000228	.0640886	.0009448	.0003721	.004668	.0214279
%RSD	8.423154	20.08205	234.1436	81.42155	96.74403	88.02114	167.2061
#1	-.000079	.0001107	.0727456	.0003029	.0000042	-.004484	.0284049
#2	-.000091	.0001380	-.045944	.0021733	.0007478	-.001099	.0216600
#3	-.000092	.0000926	.055313	.0010052	.0004020	-.010328	-.011619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003813	.0229955	.0004191	-.000081	.0592061	-.008701	.0000101
Stddev	.0005487	.0055358	.0000573	.000788	.0194104	.005823	.0004367
%RSD	143.8905	24.07360	13.68091	972.0907	32.78444	66.92727	4321.374
#1	.0002040	.0270275	.0003536	.000040	.0654087	-.004287	-.000419
#2	-.000057	.0166838	.0004603	-.000922	.0374525	-.015301	-.000004
#3	.000997	.0252752	.0004434	.000639	.0747572	-.006515	.000454

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1357920	.0027407	.0013612	.0007353	-.000764	-.000488	-.000325
Stddev	.1884484	.0023609	.0036552	.0004355	.002046	.000459	.001231
%RSD	138.7772	86.14159	268.5292	59.22481	267.7613	93.93665	379.1307
#1	.2586942	.0032332	.0046431	.0011907	.001576	-.000614	.000768
#2	-.081171	.0001724	-.002578	.0003228	-.002218	.000020	-.000083
#3	.229853	.0048166	.002019	.0006925	-.001651	-.000872	-.001659

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/29/2024 1:58:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0020958	.0002520	.0057479
Stddev	.0020294	.0001810	.0038260
%RSD	96.83233	71.83588	66.56335
#1	.0036052	.0002624	.0013302
#2	.0028933	.0004275	.0079925
#3	-.000211	.0000660	.0079211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2075.476	26009.49	1950.265	1317.034	1872.394
Stddev	4.698	46.37	26.768	3.106	1.720
%RSD	.2263563	.1782834	1.372534	.2358650	.0918862
#1	2070.784	26060.51	1953.087	1314.724	1872.862
#2	2075.464	25969.90	1975.510	1315.812	1870.488
#3	2080.180	25998.06	1922.198	1320.565	1873.833

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/29/2024 2:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020400	-.016230	-.007998	.0209043	-.004613	243.6935
Stddev	.0035318	.003847	.000636	.0104193	.006383	.2577
%RSD	173.1269	23.70195	7.947183	49.84303	138.3692	.1057617
#1	-.002016	-.014336	-.008481	.0194453	.001386	243.8923
#2	.004439	-.013698	-.008235	.0112913	-.011320	243.7859
#3	.003697	-.020657	-.007278	.0319762	-.003905	243.4023

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035555	.0045441	.0008689	248.9655	.0516854	.0053239
Stddev	.0005994	.0002461	.0001151	.4477	.0006116	.0003541
%RSD	16.85929	5.415423	13.24390	.1798238	1.183332	6.650519
#1	.0041802	.0043126	.0009744	249.4825	.0517059	.0051298
#2	.0029850	.0045172	.0007462	248.7049	.0522865	.0057326
#3	.0035014	.0048026	.0008861	248.7092	.0510638	.0051094

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014790	103.1241	.0092838	261.4306	.0030770	.0007914
Stddev	.011698	.3453	.0008058	.3216	.0003618	.0008031
%RSD	79.09024	.3348273	8.680131	.1230092	11.75840	101.4814
#1	-.015725	103.0157	.0092739	261.0803	.0026610	.0017110
#2	-.002653	102.8460	.0100946	261.4989	.0032507	.0002282
#3	-.025992	103.5105	.0084830	261.7125	.0033191	.0004349

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1283626	.0124767	-.034618	-.252869	.0004366	F .0263406
Stddev	.0159392	.0089585	.000327	.092468	.0019205	.0011242
%RSD	12.41734	71.80212	.9451123	36.56753	439.9329	4.268098
#1	.1146006	.0227984	-.034462	-.299712	.0014115	.0275537
#2	.1458273	.0079081	-.034397	-.146353	.0016740	.0261341
#3	.1246599	.0067234	-.034994	-.312541	-.001776	.0253339

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/29/2024 2:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018990	.0113739	-.003332	F .0115438	.0027027	.0003317
Stddev	.0005765	.0011394	.000168	.0030977	.0009712	.0008366
%RSD	30.36046	10.01807	5.028410	26.83406	35.93411	252.1954
#1	.0021321	.0114779	-.003348	.0089960	.0017052	.0008485
#2	.0012424	.0101860	-.003491	.0149919	.0027576	.0007801
#3	.0023225	.0124578	-.003157	.0106436	.0036453	-.000633

Elem	Li6707
Units	ppm
Avg	.0142620
Stddev	.0015282
%RSD	10.71499
#1	.0125000
#2	.0152261
#3	.0150599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.478	24733.18	1924.499	1262.417	1673.965
Stddev	3.007	110.34	4.143	10.032	3.043
%RSD	.1522877	.4461299	.2152954	.7946960	.1817705
#1	1974.062	24606.41	1919.834	1251.399	1677.241
#2	1977.671	24807.68	1925.909	1264.828	1673.426
#3	1971.701	24785.44	1927.753	1271.025	1671.227

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/29/2024 2:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1118776	.0902661	.0454975	.0671178	.6258105	241.7928
Stddev	.0027533	.0080685	.0011954	.0156508	.0039188	.1671
%RSD	2.460966	8.938586	2.627335	23.31846	.6262033	.0691190
#1	.1149922	.0993057	.0468375	.0654370	.6292711	241.8254
#2	.1108724	.0837930	.0445409	.0835411	.6215552	241.6118
#3	.1097681	.0876996	.0451139	.0523751	.6266052	241.9412

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5620740	.5698206	1.087140	246.4959	.6230870	.5447231
Stddev	.0025663	.0025451	.001308	.3235	.0024054	.0018359
%RSD	.4565821	.4466581	.1203552	.1312490	.3860538	.3370374
#1	.5609856	.5681219	1.086819	246.7250	.6205242	.5455640
#2	.5650052	.5727469	1.086022	246.6371	.6234407	.5426173
#3	.5602313	.5685930	1.088580	246.1258	.6252960	.5459879

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4882767	102.5813	.5603140	259.8846	1.080984	.2179611
Stddev	.0181526	.1212	.0014494	.9389	.001274	.0014534
%RSD	3.717698	.1181418	.2586804	.3612915	.1178463	.6668052
#1	.5078297	102.7210	.5619657	260.9668	1.081740	.2163477
#2	.4719596	102.5043	.5592544	259.2859	1.079513	.2183680
#3	.4850409	102.5185	.5597218	259.4012	1.081698	.2191678

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1163312	.5504531	1.042323	-.498539	.0006253	F .0264078
Stddev	.0297385	.0082175	.003599	.203992	.0055238	.0007416
%RSD	25.56360	1.492860	.3453101	40.91805	883.3752	2.808309
#1	.1384750	.5426655	1.040507	-.560669	.0007880	.0266951
#2	.1279886	.5590418	1.046469	-.664242	.0060659	.0255656
#3	.0825302	.5496521	1.039994	-.270705	-.004978	.0269629

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/29/2024 2:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010875	.0221817	-.000917	F .0105060	-.003374	-.000398
Stddev	.0011451	.0026426	.001279	.0030422	.005351	.000730
%RSD	105.3022	11.91350	139.5579	28.95707	158.6099	183.5243
#1	.0021298	.0227342	-.000002	.0123220	-.008939	-.001218
#2	.0012709	.0193065	-.000369	.0069938	-.002917	.000182
#3	-.000138	.0245043	-.002379	.0122022	.001734	-.000158

Elem	Li6707
Units	ppm
Avg	.0070975
Stddev	.0037647
%RSD	53.04287
#1	.0031845
#2	.0106939
#3	.0074142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1987.087	25013.61	1944.798	1271.857	1683.903
Stddev	3.367	120.94	1.297	3.867	2.833
%RSD	.1694210	.4834908	.0667023	.3040578	.1682220
#1	1990.056	25059.00	1946.293	1272.457	1685.564
#2	1987.774	25105.29	1943.970	1275.390	1685.513
#3	1983.429	24876.55	1944.132	1267.725	1680.632

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/29/2024 2:10:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.072976	4.786423	24.55027	5.011241	4.932659	398.6572	9.922427
Stddev	.007198	.004474	.00843	.014093	.009689	3.7633	.108083
%RSD	.1418799	.0934635	.0343494	.2812332	.1964209	.9439933	1.089280
#1	5.080031	4.791511	24.55657	5.001586	4.924731	400.2453	9.970314
#2	5.073254	4.784652	24.54069	5.027414	4.929786	394.3602	9.798674
#3	5.065644	4.783106	24.55354	5.004725	4.943459	401.3661	9.998294

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5123268	2.475789	398.8472	15.59437	2.387948	14.62614	404.8100
Stddev	.0060724	.001351	3.6243	.45867	.000692	.10301	3.1735
%RSD	1.185262	.0545657	.9086938	2.941246	.0289640	.7042882	.7839360
#1	.5193364	2.476113	400.8080	15.22180	2.388292	14.64650	406.1086
#2	.5089758	2.474305	394.6650	16.10664	2.388400	14.51447	401.1932
#3	.5086682	2.476948	401.0687	15.45465	2.387151	14.71745	407.1281

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.59925	399.7624	2.487871	1.282914	413.6465	2.465894	15.03623
Stddev	.14163	3.9731	.001312	.034682	3.8259	.024389	.46576
%RSD	.9701104	.9938543	.0527185	2.703403	.9249147	.9890461	3.097586
#1	14.67007	401.6970	2.489365	1.255058	417.2888	2.474441	14.62736
#2	14.43619	395.1926	2.487334	1.321759	409.6602	2.438382	15.54324
#3	14.69151	402.3976	2.486913	1.271923	413.9904	2.484859	14.93808

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.0521	4.964559	4.932342	4.924602	5.014034	4.849377	4.998613
Stddev	1.9241	.004830	.044727	.008284	.010835	.055390	.003551
%RSD	1.282317	.0972845	.9068076	.1682156	.2160973	1.142218	.0710325
#1	150.9262	4.970128	4.980959	4.917042	5.002401	4.908557	4.999739
#2	147.8461	4.961504	4.923126	4.933458	5.015860	4.840796	5.001465
#3	151.3841	4.962047	4.892942	4.923305	5.023839	4.798778	4.994636

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/29/2024 2:10:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.955065	4.612590	5.034153
Stddev	.049824	.039949	.058735
%RSD	1.005518	.8660783	1.166721
#1	4.986758	4.628979	5.060555
#2	4.897636	4.567053	4.966851
#3	4.980800	4.641737	5.075054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.412	23342.78	1906.191	1136.801	1548.289
Stddev	3.954	658.80	19.124	36.467	2.625
%RSD	.2154454	2.822268	1.003272	3.207898	.1695243
#1	1839.953	23911.46	1884.166	1169.887	1550.275
#2	1833.551	22620.87	1918.581	1097.700	1549.280
#3	1832.732	23496.00	1915.828	1142.814	1545.314

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/29/2024 2:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002973	-.000043	.0033779	-.000950	-.003358	-.027518
Stddev	.002013	.004577	.0012894	.005534	.002279	.028885
%RSD	67.70574	10764.56	38.17220	582.7386	67.88599	104.9696
#1	-.005142	.003730	.0019360	-.006934	-.003062	-.060685
#2	-.002614	.001276	.0044202	.003982	-.005771	-.007883
#3	-.001164	-.005133	.0037776	.000104	-.001241	-.013985

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001103	-.000017	.0000656	.0070440	.0005421	.0000038
Stddev	.001764	.000046	.0000955	.0061972	.0003477	.0005951
%RSD	159.8847	278.6767	145.5898	87.97833	64.13194	15862.33
#1	-.001344	.000036	-.000039	.0136483	.0002006	-.000456
#2	-.002735	-.000048	.000087	.0013559	.0005300	.000676
#3	.000769	-.000039	.000148	.0061277	.0008956	-.000209

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000212	.0260694	.0002083	-.059989	.0001182	-.000117
Stddev	.004010	.0210888	.0004465	.081109	.0002010	.000900
%RSD	1892.214	80.89489	214.3174	135.2076	170.0017	767.1565
#1	.003957	.0415334	-.000062	-.102679	.0001214	-.000575
#2	-.000552	.0020467	.000724	-.110837	.0003176	-.000695
#3	-.004041	.0346281	-.000037	.033550	-.000084	.000919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0796504	-.003692	.0020285	.3251604	.0006514	.0110715
Stddev	.0406265	.016949	.0001238	.1335230	.0010860	.0026845
%RSD	51.00609	459.0789	6.104394	41.06374	166.7222	24.24691
#1	.0330594	-.021336	.0021456	.2827759	.0017868	.0119931
#2	.0982046	-.002203	.0020411	.2179740	-.000377	.0131738
#3	.1076871	.012463	.0018989	.4747312	.000545	.0080476

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/29/2024 2:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007256	.0063367	-.000421	-.000143	.0004941	.0000533
Stddev	.0003076	.0020552	.000107	.001280	.0021983	.0001638
%RSD	42.38430	32.43310	25.54548	898.3593	444.9540	307.3666
#1	.0003710	.0086888	-.000308	-.001149	.0027922	-.000135
#2	.0009198	.0054338	-.000433	-.000577	-.001589	.000137
#3	.0008861	.0048875	-.000522	.001299	.000278	.000158

Elem	Li6707
Units	ppm
Avg	F .0168108
Stddev	.0058634
%RSD	34.87900
#1	.0100621
#2	.0206550
#3	.0197154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.598	26049.45	1938.825	1322.321	1875.729
Stddev	2.812	160.35	5.894	12.027	6.632
%RSD	.1353390	.6155609	.3040215	.9095623	.3535942
#1	2075.335	26204.64	1942.574	1332.860	1868.965
#2	2080.746	26059.33	1941.870	1324.885	1882.222
#3	2076.713	25884.40	1932.031	1309.218	1876.001

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BL Acquired: 12/29/2024 2:18:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS360 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005241	-.001248	-.000869	-.003772	-.002100	-.002027	-.001856
Stddev	.000808	.001027	.001396	.001515	.001700	.004813	.001140
%RSD	15.41545	82.24935	160.7296	40.17358	80.96838	237.3929	61.41491
#1	-.005610	-.002274	.000272	-.002257	-.003990	.002238	-.003163
#2	-.005799	-.000221	-.000452	-.003771	-.000696	-.007245	-.001069
#3	-.004315	-.001249	-.002425	-.005288	-.001613	-.001075	-.001335

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.000055	.0066567	-.000137	.0000236	-.007154	-.016769
Stddev	.000103	.000038	.0354285	.000610	.0006984	.007622	.022151
%RSD	98.75488	69.38875	532.2232	443.9157	2960.713	106.5411	132.0925
#1	-.000214	-.000025	.0014482	-.000710	-.000018	-.007030	.007422
#2	-.000012	-.000098	-.025879	.000503	.000742	.000405	-.036058
#3	-.000086	-.000041	.044401	-.000205	-.000653	-.014837	-.021670

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001589	-.062669	-.000408	-.000090	.0175610	-.001841	-.000553
Stddev	.002629	.094345	.000536	.001006	.0206390	.003610	.000279
%RSD	165.4568	150.5453	131.3821	1121.706	117.5271	196.1125	50.35113
#1	-.000250	-.133940	-.000173	.000027	.0383474	-.006006	-.000252
#2	.000101	.044320	-.000030	-.001149	.0172630	.000087	-.000606
#3	-.004618	-.098385	-.001021	.000853	-.002927	.000396	-.000802

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2015665	.0007209	.0027185	.0001266	.0048630	-.000627	-.001338
Stddev	.0199533	.0022907	.0019249	.0002336	.0039291	.001022	.002257
%RSD	9.899136	317.7670	70.80650	184.5673	80.79595	163.1540	168.7781
#1	.2062354	.0013173	.0008926	.0001521	.0005800	.000301	-.002382
#2	.2187714	.0026545	.0025338	-.000119	.0057084	-.000458	.001253
#3	.1796927	-.001809	.0047291	.000346	.0083006	-.001723	-.002883

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BL Acquired: 12/29/2024 2:18:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS360 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0006477	-.000100	.0077230
Stddev	.0015952	.000335	.0056340
%RSD	246.2955	336.2041	72.95135
#1	.0001158	-.000431	.0118855
#2	.0024409	.000238	.0013119
#3	-.000614	-.000106	.0099717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2063.786	26166.07	1904.238	1327.918	1860.055
Stddev	1.835	63.50	9.839	.429	2.400
%RSD	.0889205	.2426690	.5166818	.0323412	.1290551
#1	2065.616	26150.11	1911.978	1327.573	1857.953
#2	2061.946	26236.03	1907.572	1327.782	1859.542
#3	2063.796	26112.08	1893.166	1328.399	1862.671

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BS Acquired: 12/29/2024 2:22:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS360 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145751	.0497997	.0185250	.0653098	.1089777	.3747955
Stddev	.0009952	.0020420	.0013385	.0046672	.0025873	.0131998
%RSD	6.828264	4.100488	7.225147	7.146201	2.374141	3.521865
#1	.0135393	.0516889	.0174355	.0698000	.1087731	.3898345
#2	.0146621	.0476332	.0181204	.0656457	.1064988	.3694223
#3	.0155240	.0500772	.0200190	.0604838	.1116612	.3651298

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3937035	.0102966	.0096126	9.791184	.0207404	.1041248
Stddev	.0023972	.0002049	.0001625	.064039	.0007391	.0009754
%RSD	.6088960	1.989937	1.690460	.6540485	3.563456	.9367670
#1	.3909467	.0100745	.0097088	9.717357	.0212203	.1039394
#2	.3948654	.0104783	.0094249	9.824472	.0198893	.1032554
#3	.3952984	.0103369	.0097040	9.831724	.0211116	.1051796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540259	.2086816	.0291732	10.03812	.0776117	.0187700
Stddev	.0026747	.0136440	.0006749	.09577	.0006911	.0010626
%RSD	4.950806	6.538209	2.313275	.9541110	.8904408	5.661300
#1	.0559897	.2147821	.0286865	10.02472	.0775746	.0175926
#2	.0551085	.1930516	.0299436	10.13989	.0769399	.0190597
#3	.0509796	.2182109	.0288894	9.94975	.0783206	.0196578

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.212712	.0981009	.1200436	9.557450	.0191221	F .0016193
Stddev	.024134	.0054117	.0007698	.104179	.0013702	.0024093
%RSD	.3346098	5.516465	.6412328	1.090027	7.165282	148.7872
#1	7.189446	.0921922	.1191939	9.546916	.0175674	.0009714
#2	7.211059	.0992942	.1206944	9.458938	.0196456	.0042864
#3	7.237630	.1028164	.1202425	9.666495	.0201534	-.000400

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BS Acquired: 12/29/2024 2:22:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS360 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206363	.1828277	F .4861489	.0123154	.2012396	.1971406
Stddev	.0001277	.0041561	.0034182	.0017256	.0023821	.0020483
%RSD	.6189947	2.273235	.7031274	14.01152	1.183700	1.039001
#1	.0206933	.1833404	.4840016	.0115546	.1985174	.1950238
#2	.0204900	.1784390	.4900907	.0142906	.2022596	.1991127
#3	.0207256	.1867036	.4843544	.0111009	.2029419	.1972854

Elem	Li6707
Units	ppm
Avg	F .0394626
Stddev	.0033208
%RSD	8.415051
#1	.0358686
#2	.0424172
#3	.0401019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2080.056	26242.29	1940.563	1332.759	1875.171
Stddev	12.224	24.52	4.747	3.610	10.575
%RSD	.5876667	.0934393	.2446122	.2708337	.5639542
#1	2086.585	26246.65	1944.108	1334.948	1880.200
#2	2087.628	26215.88	1935.170	1328.593	1882.293
#3	2065.954	26264.34	1942.410	1334.736	1863.020

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BL Acquired: 12/29/2024 2:26:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS369 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001262	-.000662	-.001368	-.001814	-.004068	-.017166	-.001392
Stddev	.003409	.004643	.000830	.001283	.003416	.008890	.000880
%RSD	270.0979	701.5597	60.64564	70.74215	83.98321	51.79076	63.17868
#1	.000966	.004681	-.000519	-.002075	-.007357	-.022712	-.002020
#2	.000434	-.003715	-.002176	-.000420	-.004310	-.006911	-.001770
#3	-.005187	-.002952	-.001408	-.002945	-.000537	-.021874	-.000387

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	-.000094	-.003386	.0004407	-.000052	-.009033	-.009126
Stddev	.000033	.000037	.019861	.0005070	.000571	.007709	.013407
%RSD	159.6224	39.55399	586.5845	115.0531	1100.147	85.33860	146.9193
#1	.000017	-.000051	-.017694	-.000127	.000570	-.015102	.005310
#2	-.000045	-.000118	.019289	.000601	-.000551	-.011638	-.011498
#3	-.000034	-.000114	-.011753	.000848	-.000175	-.000359	-.021188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000334	-.098420	-.000256	.0002290	.0327227	-.001272	-.002259
Stddev	.000589	.076853	.000233	.0008692	.0309152	.000788	.000400
%RSD	176.2281	78.08714	91.08978	379.6209	94.47650	61.96830	17.71427
#1	-.000097	-.186983	-.000280	-.000033	.0682245	-.001953	-.001823
#2	.000099	-.049253	-.000012	.001199	.0117368	-.001455	-.002609
#3	-.001004	-.059024	-.000477	-.000479	.0182066	-.000408	-.002347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2244814	.0013409	-.001277	.0000686	.0034085	-.001085	-.001660
Stddev	.3450367	.0020952	.001045	.0004756	.0061562	.001247	.000795
%RSD	153.7039	156.2506	81.86124	693.1265	180.6117	114.9894	47.90729
#1	.5863104	-.000722	-.001894	-.000455	-.002619	-.001211	-.002566
#2	.1879973	.001278	-.000070	.000474	.003159	.000221	-.001339
#3	-.100864	.003467	-.001866	.000186	.009686	-.002264	-.001076

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BL Acquired: 12/29/2024 2:26:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS369 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0008218	-.000194	.0058163
Stddev	.0004096	.000362	.0024945
%RSD	49.83849	186.6365	42.88858
#1	.0009864	.000223	.0076354
#2	.0011235	-.000383	.0068410
#3	.0003556	-.000422	.0029726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2079.488	26253.71	1948.682	1335.727	1878.077
Stddev	4.945	111.34	10.282	8.619	1.685
%RSD	.2378022	.4240951	.5276408	.6452465	.0897303
#1	2085.146	26131.98	1937.525	1325.853	1880.004
#2	2077.331	26278.74	1957.777	1339.588	1876.875
#3	2075.989	26350.40	1950.743	1341.740	1877.354

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BS Acquired: 12/29/2024 2:30:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS369 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156093	.0479353	.0175573	.0604666	.1070948	.3679428	.3837457
Stddev	.0018244	.0039263	.0004708	.0038371	.0009021	.0078269	.0023424
%RSD	11.68816	8.190857	2.681636	6.345786	.8423054	2.127210	.6104023
#1	.0168861	.0498684	.0177138	.0606428	.1081361	.3593105	.3820612
#2	.0135197	.0505203	.0179299	.0642126	.1065970	.3745771	.3827554
#3	.0164221	.0434172	.0170281	.0565445	.1065514	.3699407	.3864206

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098108	.0093975	9.600411	.0199538	.1013565	.0498359	.1907741
Stddev	.0002049	.0000300	.096694	.0004687	.0000867	.0023918	.0240212
%RSD	2.088370	.3190643	1.007182	2.348888	.0854951	4.799308	12.59144
#1	.0097655	.0093752	9.509885	.0194198	.1012676	.0525916	.1636199
#2	.0096323	.0094316	9.589077	.0202969	.1014408	.0486175	.2092510
#3	.0100345	.0093857	9.702273	.0201447	.1013611	.0482988	.1994513

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294436	9.803131	.0753031	.0183411	6.988406	.0926337	.1147710
Stddev	.0005601	.072071	.0004628	.0004969	.106445	.0080455	.0004262
%RSD	1.902245	.7351795	.6145641	2.709093	1.523173	8.685288	.3713318
#1	.0288273	9.885346	.0748498	.0178160	6.932831	.0858186	.1152621
#2	.0299216	9.750858	.0752848	.0188038	6.921250	.1015090	.1144979
#3	.0295819	9.773188	.0757748	.0184034	7.111136	.0905734	.1145531

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.128015	.0185093	-.001811	.0190711	.1788929	.4685964	.0131402
Stddev	.158325	.0017372	.001410	.0008759	.0049813	.0055010	.0015333
%RSD	1.734499	9.385768	77.86397	4.592929	2.784536	1.173922	11.66859
#1	8.963973	.0199596	-.000522	.0200823	.1804449	.4644434	.0121087
#2	9.140148	.0189845	-.003318	.0185464	.1829134	.4665106	.0149021
#3	9.279926	.0165840	-.001594	.0185847	.1733203	.4748352	.0124096

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BS Acquired: 12/29/2024 2:30:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS369 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1960218	.1916168	.0329289
Stddev	.0071354	.0011220	.0006543
%RSD	3.640081	.5855652	1.987098
#1	.1877831	.1906001	.0332602
#2	.2000623	.1914296	.0321752
#3	.2002200	.1928206	.0333513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2119.304	26661.17	1980.065	1354.943	1913.682
Stddev	3.707	76.36	18.271	2.552	.573
%RSD	.1749082	.2863929	.9227252	.1883701	.0299449
#1	2116.945	26732.25	1996.990	1356.422	1914.100
#2	2123.577	26580.45	1982.509	1351.996	1913.029
#3	2117.390	26670.82	1960.695	1356.411	1913.918

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BL Acquired: 12/29/2024 2:34:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS395 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000891	.0006390	-.001288	.0002934	-.000916	-.017680	-.002417
Stddev	.003309	.0015559	.001206	.0009101	.002337	.032739	.001750
%RSD	371.2156	243.4756	93.65882	310.1873	255.1375	185.1719	72.38603
#1	-.004197	-.001141	-.000399	.0000408	.001492	-.044965	-.000576
#2	.002422	.001739	-.000804	.0013032	-.003175	.018622	-.002617
#3	-.000900	.001319	-.002661	-.000464	-.001066	-.026698	-.004058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001866	-.000036	-.036486	-.000478	.0002745	-.004435	.0037184
Stddev	.0001093	.000133	.037688	.000578	.0001716	.004358	.0370404
%RSD	58.56508	366.4668	103.2937	121.0363	62.49638	98.26124	996.1318
#1	.0001329	-.000189	-.010830	-.000231	.0000778	-.005220	-.016679
#2	.0001146	.000035	-.018873	-.000064	.0003528	.000262	-.018640
#3	.0003124	.000046	-.079755	-.001139	.0003929	-.008348	.046474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002983	-.042123	.0003044	.0001492	.0192357	-.001968	-.002272
Stddev	.0017953	.077006	.0005516	.0013365	.0116699	.006738	.000163
%RSD	601.8044	182.8117	181.2560	895.9170	60.66792	342.3511	7.161713
#1	-.001354	-.005278	-.000248	-.000485	.0228449	-.008707	-.002384
#2	.000040	-.130630	.000307	.001685	.0061876	-.001967	-.002086
#3	.002209	.009538	.000855	-.000752	.0286747	.004770	-.002347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1538573	-.000047	-.002435	.0000169	.0025363	-.000266	-.000509
Stddev	.1648549	.002979	.002370	.0005507	.0027161	.000508	.001275
%RSD	107.1479	6326.577	97.35819	3259.992	107.0916	190.8990	250.6875
#1	-.027233	.003184	-.001010	-.000044	-.000186	.000244	.000624
#2	.193591	-.002685	-.001123	-.000501	.002548	-.000270	-.000260
#3	.295214	-.000641	-.005171	.000596	.005247	-.000773	-.001890

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BL Acquired: 12/29/2024 2:34:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS395 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0018975	.0000177	.0027182
Stddev	.0038536	.0004447	.0052072
%RSD	203.0923	2512.169	191.5666
#1	.0056580	.0005120	.0085643
#2	-.002043	-.000350	-.001423
#3	.002077	-.000109	.001013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2082.687	26416.95	1949.419	1344.091	1881.408
Stddev	5.525	58.04	2.362	6.638	4.717
%RSD	.2652905	.2197226	.1211813	.4938752	.2507182
#1	2088.471	26481.97	1950.111	1346.936	1886.706
#2	2077.463	26370.36	1946.788	1336.504	1877.666
#3	2082.128	26398.51	1951.358	1348.831	1879.852

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BS Acquired: 12/29/2024 2:38:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS395 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147537	.0474446	.0167806	.0540696	.1067300	.3927263
Stddev	.0048038	.0006981	.0021548	.0036201	.0027779	.0249059
%RSD	32.55971	1.471316	12.84109	6.695247	2.602721	6.341793
#1	.0164460	.0475787	.0162784	.0517707	.1098441	.4202606
#2	.0093328	.0480658	.0191421	.0582425	.1045073	.3717689
#3	.0184823	.0466892	.0149211	.0521956	.1058385	.3861493

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3862778	.0099473	.0093545	9.653266	.0200717	.1015324
Stddev	.0009947	.0002687	.0001602	.037314	.0009387	.0000672
%RSD	.2575045	2.700812	1.712108	.3865467	4.676699	.0661619
#1	.3854146	.0096386	.0095260	9.631096	.0211482	.1015657
#2	.3860531	.0101281	.0093290	9.696347	.0194233	.1014551
#3	.3873656	.0100752	.0092087	9.632355	.0196437	.1015764

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486706	.1887063	.0288573	9.932938	.0750436	.0185276
Stddev	.0077641	.0181742	.0014738	.132966	.0001892	.0008705
%RSD	15.95241	9.630954	5.107116	1.338634	.2520918	4.698435
#1	.0397059	.1696238	.0285630	9.984879	.0751342	.0188831
#2	.0530673	.1906847	.0304560	9.781842	.0748261	.0175356
#3	.0532385	.2058104	.0275529	10.03209	.0751704	.0191641

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.768373	.0917771	.1152016	9.374356	.0195526	F -.002042
Stddev	.136816	.0074798	.0003246	.109547	.0036696	.001392
%RSD	1.761192	8.149941	.2817667	1.168578	18.76762	68.19011
#1	7.615665	.0875979	.1155646	9.285380	.0220238	-.003304
#2	7.809673	.0873209	.1149392	9.340979	.0212977	-.002272
#3	7.879781	.1004126	.1151009	9.496709	.0153361	-.000549

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BS Acquired: 12/29/2024 2:38:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS395 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194642	.1813483	F .4737802	.0117451	.1902876	.1937825
Stddev	.0006109	.0056006	.0057944	.0003178	.0018463	.0012022
%RSD	3.138760	3.088321	1.223019	2.705500	.9702854	.6204018
#1	.0199574	.1857805	.4671084	.0120778	.1898985	.1933321
#2	.0187808	.1832106	.4766782	.0114448	.1886669	.1928705
#3	.0196545	.1750537	.4775538	.0117126	.1922975	.1951449

Elem	Li6707
Units	ppm
Avg	.0337440
Stddev	.0026869
%RSD	7.962654
#1	.0323491
#2	.0320414
#3	.0368415

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2093.763	26467.48	1973.017	1347.216	1893.213
Stddev	.501	266.71	15.889	16.632	2.034
%RSD	.0239487	1.007683	.8053295	1.234519	.1074113
#1	2093.483	26179.05	1985.955	1328.449	1891.390
#2	2093.465	26518.21	1977.813	1353.069	1895.406
#3	2094.342	26705.17	1955.282	1360.130	1892.843

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BL Acquired: 12/29/2024 2:42:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS396 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000291	.0020937	-.003321	-.002026	-.000433	-.016057	-.000915
Stddev	.004397	.0057806	.001619	.006350	.001020	.021314	.001059
%RSD	1508.958	276.0946	48.73814	313.4143	235.9258	132.7445	115.7284
#1	.000374	.0085032	-.001621	-.002592	.000619	-.030852	-.000359
#2	-.004983	.0005025	-.004843	.004588	-.001419	.008374	-.000250
#3	.003735	-.002725	-.003500	-.008074	-.000498	-.025692	-.002136

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000168	-.000103	-.033343	.0007810	-.000072	.0032191	.0236806
Stddev	.000093	.000042	.030529	.0000484	.000317	.0019949	.0100678
%RSD	55.54595	40.46378	91.56118	6.200584	441.3612	61.96970	42.51503
#1	-.000212	-.000083	.001325	.0007965	-.000412	.0013422	.0267436
#2	-.000061	-.000075	-.056214	.0008198	.000215	.0030011	.0318611
#3	-.000231	-.000151	-.045141	.0007267	-.000018	.0053141	.0124370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001476	-.036577	.0004053	.0000789	.0072891	-.008158	-.002818
Stddev	.002001	.097665	.0003881	.0012789	.0205575	.008677	.000229
%RSD	135.5448	267.0133	95.76170	1621.036	282.0293	106.3644	8.142458
#1	-.000550	.076070	.0005987	.0003408	-.006601	-.013595	-.003077
#2	-.000106	-.097525	.0006588	.0012066	-.002436	.001849	-.002638
#3	-.003773	-.088276	-.000042	-.001311	.030905	-.012729	-.002741

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0946488	.0025828	-.004408	.0008377	.0030857	-.001236	-.001555
Stddev	.1171845	.0021712	.000509	.0001944	.0011244	.001297	.001055
%RSD	123.8097	84.06089	11.54789	23.20364	36.43869	104.9400	67.85489
#1	.0173153	.0039825	-.003996	.0009205	.0040640	-.002514	-.002416
#2	.2294761	.0036843	-.004977	.0009769	.0018573	.000079	-.000378
#3	.0371551	.0000817	-.004252	.0006156	.0033357	-.001273	-.001872

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BL Acquired: 12/29/2024 2:42:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS396 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0063388	-.000180	.0003237
Stddev	.0036865	.000264	.0070555
%RSD	58.15719	146.9808	2179.728
#1	.0068712	.000108	.0054381
#2	.0024151	-.000411	-.007725
#3	.0097302	-.000236	.003258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2097.808	26501.36	1961.102	1339.338	1903.268
Stddev	2.526	250.71	58.445	10.400	2.264
%RSD	.1203889	.9460423	2.980196	.7764725	.1189338
#1	2097.451	26766.27	1897.076	1351.339	1904.464
#2	2095.480	26470.01	1974.643	1333.700	1900.658
#3	2100.493	26267.79	2011.588	1332.975	1904.683

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BS Acquired: 12/29/2024 2:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS396 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192401	.0479919	.0178305	.0609958	.1127922	.4079792
Stddev	.0008155	.0019630	.0003621	.0006739	.0081662	.0363561
%RSD	4.238546	4.090249	2.030642	1.104806	7.240082	8.911269
#1	.0183062	.0461210	.0178607	.0614564	.1035232	.3703359
#2	.0198112	.0478191	.0181765	.0602223	.1189274	.4107072
#3	.0196029	.0500356	.0174542	.0613086	.1159260	.4428945

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3897207	.0100422	.0097007	9.772591	.0210752	.1048302
Stddev	.0191110	.0004017	.0001154	.458849	.0004283	.0002818
%RSD	4.903763	4.000179	1.189486	4.695260	2.032064	.2687868
#1	.3720348	.0095852	.0095697	9.311834	.0210021	.1046830
#2	.3871339	.0103395	.0097450	9.776433	.0215353	.1046524
#3	.4099933	.0102018	.0097874	10.22951	.0206882	.1051550

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397202	.1794466	.0314613	10.11432	.0782353	.0191450
Stddev	.0063983	.0097638	.0019375	.46120	.0004321	.0007868
%RSD	16.10855	5.441087	6.158473	4.559829	.5522407	4.109741
#1	.0403300	.1874301	.0292468	9.67223	.0786918	.0192422
#2	.0457919	.1823490	.0322927	10.07823	.0778327	.0183141
#3	.0330388	.1685606	.0328444	10.59250	.0781814	.0198787

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.203092	.1027307	.1197692	9.315703	.0203552	F -.002217
Stddev	.384556	.0118648	.0015165	.535441	.0010280	.000945
%RSD	4.178553	11.54940	1.266179	5.747728	5.050520	42.62991
#1	8.804465	.1060680	.1180671	8.729436	.0205157	-.003010
#2	9.232978	.0895546	.1209766	9.438791	.0192564	-.001171
#3	9.571833	.1125694	.1202638	9.778882	.0212936	-.002470

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BS Acquired: 12/29/2024 2:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS396 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204782	.1844796	F .4786554	.0116604	.1935522	.1974817
Stddev	.0009721	.0017081	.0215431	.0005589	.0105339	.0092613
%RSD	4.746782	.9258904	4.500748	4.793447	5.442401	4.689706
#1	.0193558	.1829308	.4558329	.0122924	.1833994	.1886512
#2	.0210364	.1841964	.4814962	.0114580	.1928274	.1966732
#3	.0210424	.1863116	.4986372	.0112309	.2044297	.2071208

Elem	Li6707
Units	ppm
Avg	.0315776
Stddev	.0064187
%RSD	20.32671
#1	.0250324
#2	.0318385
#3	.0378618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2044.804	25694.75	1950.494	1303.314	1848.113
Stddev	4.260	109.87	71.237	3.179	5.114
%RSD	.2083233	.4275875	3.652235	.2439202	.2767079
#1	2047.294	25592.00	2024.328	1302.258	1851.010
#2	2047.233	25810.56	1944.978	1306.886	1851.120
#3	2039.886	25681.69	1882.176	1300.797	1842.208

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BL Acquired: 12/29/2024 2:51:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS434 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002084	.0010072	-.003004	-.002745	-.001363	.0034539	-.000524
Stddev	.002775	.0006947	.001137	.003051	.002358	.0341674	.001025
%RSD	133.1848	68.97454	37.84628	111.1532	173.0269	989.2402	195.4256
#1	-.001445	.0004067	-.001707	-.006126	-.003578	-.024994	-.001540
#2	.000317	.0017681	-.003829	-.001915	-.001624	.041352	.000509
#3	-.005122	.0008469	-.003475	-.000195	.001115	-.005996	-.000541

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000128	-.000055	-.026464	-.000736	.0001030	-.009443	-.011193
Stddev	.000134	.000072	.024157	.001062	.0002618	.019345	.047227
%RSD	104.7029	130.9851	91.28216	144.3686	254.2932	204.8720	421.9206
#1	-.000215	-.000024	.001373	-.001295	.0002471	.006396	-.031784
#2	.000026	-.000137	-.038838	.000489	-.000199	-.031004	-.044629
#3	-.000195	-.000004	-.041928	-.001402	.000261	-.003720	.042833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000959	-.065482	.0003811	-.000438	-.021054	-.010224	-.003206
Stddev	.000886	.117175	.0005826	.000350	.049687	.001494	.000723
%RSD	92.40568	178.9430	152.8697	80.02282	235.9977	14.61110	22.55366
#1	-.000421	.056626	.0000442	-.000824	.026990	-.009401	-.003487
#2	-.001981	-.177007	.0010538	-.000141	-.072236	-.009322	-.002385
#3	-.000474	-.076065	.0000453	-.000348	-.017917	-.011948	-.003747

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0524357	.0007691	-.002898	-.000197	.0047815	-.002520	-.002002
Stddev	.1407496	.0009598	.001648	.000371	.0052572	.000563	.000901
%RSD	268.4234	124.7894	56.84342	188.2533	109.9487	22.34853	45.02265
#1	-.087502	.0008400	-.004797	.000211	.0046198	-.002747	-.000971
#2	.193984	.0016915	-.002059	-.000290	-.000393	-.001879	-.002398
#3	.050825	-.000224	-.001840	-.000513	.010118	-.002934	-.002638

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BL Acquired: 12/29/2024 2:51:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS434 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0005064	.0001445	-.000692
Stddev	.0024321	.0002665	.002663
%RSD	480.3222	184.3636	384.5639
#1	.0017727	.0004461	-.002175
#2	.0020440	-.000059	.002382
#3	-.002298	.000047	-.002283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.970	25483.85	1917.914	1290.053	1831.724
Stddev	3.522	53.73	11.560	6.854	1.339
%RSD	.1739905	.2108557	.6027432	.5313294	.0731124
#1	2024.216	25424.33	1930.249	1297.925	1833.204
#2	2027.363	25498.39	1907.328	1285.408	1831.372
#3	2020.333	25528.81	1916.165	1286.826	1830.595

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BS Acquired: 12/29/2024 2:55:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS434 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164334	.0498400	.0153327	.0535539	.1038283	.3603779
Stddev	.0039946	.0041954	.0015784	.0041804	.0011046	.0258820
%RSD	24.30796	8.417829	10.29420	7.805885	1.063869	7.181901
#1	.0208596	.0513297	.0150866	.0556033	.1048586	.3444190
#2	.0130962	.0451029	.0170196	.0563141	.1039642	.3464743
#3	.0153445	.0530872	.0138918	.0487443	.1026620	.3902402

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3782532	.0097549	.0093794	9.583180	.0193517	.1006559
Stddev	.0023895	.0002219	.0001344	.052199	.0008541	.0001539
%RSD	.6317337	2.275135	1.432519	.5446963	4.413370	.1529066
#1	.3810117	.0095496	.0093146	9.569551	.0201442	.1005714
#2	.3769283	.0097246	.0095339	9.539147	.0184471	.1008335
#3	.3768196	.0099904	.0092898	9.640842	.0194638	.1005627

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0431720	.1910609	.0280423	9.739074	.0743727	.0194595
Stddev	.0050879	.0558743	.0015242	.153332	.0006963	.0015214
%RSD	11.78512	29.24425	5.435420	1.574403	.9362858	7.818112
#1	.0402665	.1315494	.0276516	9.905602	.0747417	.0184981
#2	.0402026	.1992359	.0267515	9.707886	.0748070	.0186668
#3	.0490468	.2423974	.0297239	9.603733	.0735695	.0212135

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.741416	.0788800	.1131157	9.076595	.0206637	F -.005137
Stddev	.080691	.0076187	.0006157	.072234	.0020934	.001851
%RSD	.9230862	9.658614	.5442873	.7958281	10.13093	36.02712
#1	8.707611	.0856632	.1129802	9.159044	.0226722	-.003671
#2	8.833511	.0706370	.1137878	9.024444	.0184946	-.007217
#3	8.683125	.0803400	.1125790	9.046297	.0208242	-.004523

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BS Acquired: 12/29/2024 2:55:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS434 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194195	.1739495	F .4641618	.0119337	.1871036	.1945887
Stddev	.0006099	.0086523	.0035111	.0042283	.0052367	.0011563
%RSD	3.140706	4.974015	.7564310	35.43171	2.798846	.5942167
#1	.0196316	.1645911	.4617923	.0129201	.1900371	.1951880
#2	.0187319	.1755993	.4681955	.0155816	.1810576	.1953224
#3	.0198951	.1816581	.4624975	.0072993	.1902160	.1932558

Elem	Li6707
Units	ppm
Avg	.0283772
Stddev	.0033052
%RSD	11.64740
#1	.0251865
#2	.0281590
#3	.0317861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.328	26139.87	1970.618	1337.382	1877.209
Stddev	3.363	143.98	7.591	5.793	2.167
%RSD	.1619071	.5508073	.3851981	.4331517	.1154358
#1	2079.157	26180.99	1977.985	1337.645	1879.553
#2	2073.447	26258.82	1962.822	1343.039	1875.279
#3	2079.381	25979.80	1971.047	1331.462	1876.795

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BL Acquired: 12/29/2024 2:59:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS465 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002740	.0000377	-.002847	-.003725	-.002040	-.009924	-.002322
Stddev	.002631	.0014804	.002228	.000544	.003040	.011072	.000768
%RSD	96.02326	3927.563	78.25118	14.60139	149.0198	111.5700	33.08495
#1	-.000066	.0003076	-.003658	-.004095	-.004116	-.022181	-.002338
#2	-.002829	.0013646	-.004556	-.003100	-.003453	-.006944	-.003083
#3	-.005325	-.001559	-.000327	-.003979	.001449	-.000647	-.001546

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000114	-.000057	-.019327	.0003357	.0000079	-.008989	.0144926
Stddev	.000080	.000040	.013071	.0013293	.0002432	.000548	.0673391
%RSD	70.29506	70.08579	67.63356	395.9303	3064.494	6.091968	464.6439
#1	-.000204	-.000085	-.015913	.0018706	.0002826	-.008756	-.061577
#2	-.000049	-.000074	-.008301	-.000428	-.000180	-.009614	.038575
#3	-.000090	-.000011	-.033766	-.000436	-.000079	-.008595	.066479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002190	-.009696	-.000061	-.000804	.0146897	-.014674	-.002676
Stddev	.001707	.077028	.000317	.001020	.0387114	.009951	.000560
%RSD	77.91891	794.4171	519.7791	126.9127	263.5285	67.81442	20.93019
#1	-.002556	.017720	-.000391	-.001104	.0387901	-.025979	-.002301
#2	-.003684	.049873	.000240	-.001641	.0352423	-.010804	-.003319
#3	-.000330	-.096682	-.000032	.000333	-.029963	-.007239	-.002406

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030492	.0011814	-.002395	-.000223	.0025401	-.000918	-.003571
Stddev	.013134	.0010624	.001486	.000412	.0059615	.000968	.001227
%RSD	43.07571	89.92169	62.01939	184.5312	234.6922	105.4625	34.35712
#1	-.015877	.0011354	-.002293	-.000005	-.003282	-.000382	-.003391
#2	-.041309	.0022661	-.000964	-.000698	.008632	-.000336	-.002444
#3	-.034288	.0001429	-.003929	.000034	.002270	-.002035	-.004878

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BL Acquired: 12/29/2024 2:59:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS465 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0009438	-.000167	-.004045
Stddev	.0026228	.000400	.006521
%RSD	277.9043	239.1348	161.2078
#1	.0035303	-.000272	-.003279
#2	-.001714	-.000504	-.010916
#3	.001015	.000274	.002059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.874	26209.24	1977.458	1323.866	1887.689
Stddev	1.737	237.58	16.606	11.783	1.789
%RSD	.0830775	.9064711	.8397718	.8900441	.0947787
#1	2091.650	26405.18	1958.328	1331.576	1889.631
#2	2088.884	25944.99	1988.152	1310.303	1886.109
#3	2092.088	26277.55	1985.896	1329.720	1887.325

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BS Acquired: 12/29/2024 3:03:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS465 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231373	.0487896	.0159731	.0574278	.1057745	.3955640
Stddev	.0022799	.0041671	.0022227	.0015260	.0036701	.0069812
%RSD	9.853691	8.540862	13.91495	2.657251	3.469703	1.764875
#1	.0257554	.0535346	.0178593	.0590721	.1040477	.4032974
#2	.0215895	.0457259	.0135227	.0571542	.1032863	.3897267
#3	.0220670	.0471081	.0165372	.0560571	.1099895	.3936678

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3898906	.0100723	.0094652	9.733947	.0204789	.1027179
Stddev	.0042903	.0001896	.0000926	.132769	.0010168	.0005387
%RSD	1.100376	1.881961	.9787097	1.363980	4.964938	.5244225
#1	.3907071	.0100478	.0093583	9.821738	.0213657	.1033397
#2	.3937139	.0102729	.0095221	9.798896	.0207018	.1023922
#3	.3852507	.0098961	.0095153	9.581207	.0193692	.1024219

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0377417	.1776266	.0273938	9.876404	.0765703	.0197843
Stddev	.0057495	.0427851	.0012196	.070710	.0003238	.0009033
%RSD	15.23392	24.08712	4.451954	.7159438	.4229287	4.565952
#1	.0443293	.2120098	.0278623	9.943987	.0763673	.0195406
#2	.0351624	.1911583	.0283096	9.882288	.0764000	.0207846
#3	.0337335	.1297118	.0260094	9.802936	.0769438	.0190279

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.980116	.0947935	.1168290	9.225723	.0198985	F -.002892
Stddev	.135240	.0041468	.0008592	.108041	.0022722	.002356
%RSD	1.505993	4.374537	.7354675	1.171089	11.41883	81.45647
#1	9.018699	.0992216	.1161496	9.229080	.0217003	-.003017
#2	9.091871	.0941573	.1177949	9.332046	.0173459	-.000476
#3	8.829777	.0910016	.1165424	9.116042	.0206491	-.005184

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BS Acquired: 12/29/2024 3:03:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS465 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197885	.1872356	F .4736512	.0116941	.1928600	.1978052
Stddev	.0003037	.0036579	.0068325	.0006029	.0059600	.0018144
%RSD	1.534669	1.953622	1.442509	5.155277	3.090298	.9172825
#1	.0194493	.1886396	.4745173	.0112500	.1993685	.1993865
#2	.0200352	.1830837	.4800094	.0114519	.1915425	.1982048
#3	.0198810	.1899835	.4664271	.0123804	.1876691	.1958243

Elem	Li6707
Units	ppm
Avg	.0246227
Stddev	.0028611
%RSD	11.61968
#1	.0267463
#2	.0257527
#3	.0213692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2081.990	26214.60	1974.006	1334.479	1879.880
Stddev	2.515	282.77	27.234	11.612	1.606
%RSD	.1208168	1.078686	1.379625	.8701558	.0854055
#1	2084.883	26511.23	1963.154	1344.622	1880.699
#2	2080.316	25948.09	1953.872	1321.813	1880.911
#3	2080.772	26184.48	2004.993	1337.001	1878.030

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BL Acquired: 12/29/2024 3:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS488 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006122	.0002238	-.004451	-.003246	-.001321	-.009422	-.000899
Stddev	.002122	.0048542	.002532	.004089	.002017	.019002	.001026
%RSD	34.66118	2168.674	56.87998	125.9572	152.6849	201.6751	114.0874
#1	-.006290	.0055807	-.006386	.000066	-.003393	-.026871	-.000607
#2	-.008155	-.003883	-.001586	-.001989	.000637	-.012219	-.000051
#3	-.003921	-.001026	-.005383	-.007816	-.001207	.010824	-.002039

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000055	-.000027	-.017188	-.000647	.0003976	-.011068	-.022115
Stddev	.000148	.000066	.007082	.000880	.0001442	.008232	.033679
%RSD	270.8018	243.4065	41.20147	136.1465	36.25373	74.37783	152.2889
#1	-.000214	-.000064	-.012938	-.001547	.0002479	-.001833	.006344
#2	.000080	-.000066	-.025364	-.000606	.0004097	-.013737	-.013392
#3	-.000031	.000049	-.013263	.000213	.0005354	-.017635	-.059298

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001894	-.026011	-.000522	.0004847	.0229791	-.004459	-.002219
Stddev	.001557	.114333	.000366	.0010023	.0355846	.009864	.000483
%RSD	82.24047	439.5608	70.14289	206.7907	154.8563	221.2256	21.75373
#1	-.000130	-.127379	-.000839	.0012063	.0065942	-.008402	-.001915
#2	-.003080	.097922	-.000606	.0009076	-.001461	.006767	-.001967
#3	-.002471	-.048576	-.000121	-.000660	.063805	-.011741	-.002776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.079591	-.000028	-.004063	-.000019	-.002185	-.001325	-.001053
Stddev	.115364	.003455	.001604	.000578	.004329	.001404	.001279
%RSD	144.9460	12454.13	39.47697	3064.831	198.1781	105.9228	121.4663
#1	-.209661	-.003266	-.002766	-.000676	-.000705	-.001939	.000111
#2	-.039460	-.000426	-.003567	.000408	-.007060	-.002317	-.000848
#3	.010348	.003609	-.005857	.000212	.001211	.000281	-.002421

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BL Acquired: 12/29/2024 3:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS488 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0022260	-.000104	-.006945
Stddev	.0045722	.000066	.000854
%RSD	205.4006	63.82885	12.29090
#1	-.002939	-.000097	-.007875
#2	.005756	-.000174	-.006198
#3	.003861	-.000041	-.006760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2089.067	26080.60	1972.370	1322.057	1885.920
Stddev	.856	157.07	9.273	13.221	3.654
%RSD	.0409841	.6022548	.4701688	1.000058	.1937257
#1	2089.212	26188.97	1982.228	1325.803	1884.410
#2	2088.148	25900.46	1963.819	1307.366	1883.263
#3	2089.842	26152.36	1971.063	1333.001	1890.086

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BS Acquired: 12/29/2024 3:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS488 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238740	.0485024	.0148332	.0582887	.1073497	.4009119
Stddev	.0042882	.0045181	.0024680	.0026085	.0010864	.0184018
%RSD	17.96166	9.315232	16.63844	4.475145	1.012024	4.589976
#1	.0224015	.0511579	.0170983	.0612346	.1081108	.3809919
#2	.0287044	.0432856	.0151983	.0562723	.1078328	.4044674
#3	.0205161	.0510637	.0122030	.0573592	.1061055	.4172766

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3887606	.0099774	.0095157	9.793779	.0204490	.1028120
Stddev	.0054544	.0003208	.0000702	.102188	.0007799	.0005088
%RSD	1.403034	3.215054	.7376565	1.043402	3.814093	.4948639
#1	.3948920	.0098123	.0095492	9.911771	.0199091	.1026371
#2	.3869420	.0097728	.0094351	9.733793	.0213432	.1033852
#3	.3844478	.0103471	.0095629	9.735774	.0200947	.1024138

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0445658	.2307566	.0289556	10.05085	.0767432	.0173209
Stddev	.0085852	.0271931	.0027027	.05128	.0008207	.0015336
%RSD	19.26415	11.78434	9.333786	.5102155	1.069346	8.853888
#1	.0418962	.2521112	.0319263	10.07387	.0758431	.0170942
#2	.0376326	.2400155	.0282979	10.08658	.0774499	.0159133
#3	.0541687	.2001431	.0266424	9.99209	.0769365	.0189552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.949352	.0998108	.1171617	9.428030	.0198170	F -.003027
Stddev	.065807	.0021471	.0010151	.288715	.0025790	.002110
%RSD	.7353223	2.151181	.8664260	3.062306	13.01416	69.71083
#1	9.016632	.0979566	.1168474	9.703082	.0168536	-.000593
#2	8.885125	.0993126	.1163408	9.453647	.0215535	-.004147
#3	8.946299	.1021632	.1182967	9.127359	.0210440	-.004342

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BS Acquired: 12/29/2024 3:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS488 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193268	.1803390	F .4732374	.0110670	.1952332	.1986391
Stddev	.0003826	.0069716	.0030520	.0009297	.0051201	.0031148
%RSD	1.979595	3.865810	.6449171	8.400251	2.622536	1.568092
#1	.0193852	.1869483	.4756479	.0108412	.2011380	.2018666
#2	.0189183	.1730543	.4698058	.0102710	.1925359	.1984002
#3	.0196767	.1810144	.4742586	.0120888	.1920258	.1956506

Elem	Li6707
Units	ppm
Avg	.0218573
Stddev	.0056830
%RSD	26.00050
#1	.0159890
#2	.0273349
#3	.0222479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.002	26299.01	1978.458	1334.174	1887.591
Stddev	1.455	130.34	20.789	13.057	1.196
%RSD	.0696093	.4955896	1.050770	.9786838	.0633778
#1	2088.592	26151.46	1955.242	1320.674	1886.428
#2	2091.498	26347.13	1995.353	1346.738	1888.818
#3	2089.916	26398.44	1984.778	1335.112	1887.526

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-01 Acquired: 12/29/2024 3:15:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1463630	-.159005	1.750721	.2170751	.0715134	96.66161
Stddev	.0014979	.003098	.002090	.0037833	.0011440	.64102
%RSD	1.023379	1.948244	.1194022	1.742837	1.599681	.6631560
#1	.1473952	-.156970	1.749270	.2136024	.0717929	95.92183
#2	.1470489	-.157474	1.749777	.2211067	.0702556	97.05266
#3	.1446451	-.162570	1.753117	.2165162	.0724918	97.01034

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.057762	.0237052	.0078709	111.5652	.1279395	-.019296
Stddev	.008195	.0002112	.0001281	.7081	.0009696	.001804
%RSD	.7747332	.8908936	1.627389	.6347391	.7578370	9.346598
#1	1.048353	.0235958	.0077388	110.7643	.1290277	-.017239
#2	1.063334	.0239486	.0079946	112.1087	.1276232	-.020604
#3	1.061598	.0235711	.0078793	111.8224	.1271675	-.020046

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776267	387.7172	9.780538	50.87502	.2028598	.0026568
Stddev	.0066732	3.1290	.082890	.38432	.0012479	.0007915
%RSD	3.756880	.8070215	.8474953	.7554271	.6151360	29.79292
#1	.1752947	384.1327	9.685335	50.44093	.2037453	.0019014
#2	.1851529	389.9021	9.836680	51.01218	.2034014	.0025889
#3	.1724323	389.1167	9.819600	51.17195	.2014326	.0034801

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5474760	.2511179	.8721306	11.81448	F 10.93557	.1442247
Stddev	.0543258	.0118338	.0024962	.21091	.02073	.0061901
%RSD	9.922961	4.712439	.2862138	1.785211	.1895219	4.291983
#1	.5364793	.2377476	.8750122	11.86317	10.95522	.1371678
#2	.4994898	.2602453	.8707442	11.99679	10.93756	.1467700
#3	.6064590	.2553607	.8706353	11.58348	10.91391	.1487364

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-01 Acquired: 12/29/2024 3:15:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK41 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079569	5.031465	13.18990	.0667018	1.001848	-.175852
Stddev	.0002509	.005408	.04843	.0029777	.006881	.001179
%RSD	3.153569	.1074736	.3671586	4.464251	.6868504	.6705879
#1	.0080842	5.030767	13.23847	.0656076	.994657	-.174504
#2	.0076678	5.026441	13.14161	.0700718	1.008371	-.176361
#3	.0081185	5.037188	13.18961	.0644260	1.002516	-.176691

Elem	Li6707
Units	ppm
Avg	.1097696
Stddev	.0013126
%RSD	1.195745
#1	.1082587
#2	.1104209
#3	.1106291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.880	30856.37	2367.876	1566.336	1873.190
Stddev	3.041	88.48	7.297	2.543	1.025
%RSD	.1234049	.2867621	.3081746	.1623460	.0547024
#1	2466.259	30915.62	2367.453	1568.872	1872.036
#2	2464.927	30898.82	2375.376	1566.348	1873.993
#3	2460.454	30754.65	2360.800	1563.787	1873.541

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-02 Acquired: 12/29/2024 3:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1609571	-.054255	3.218585	.1055491	.0218032	92.52334	1.189512
Stddev	.0094211	.002626	.009483	.0070023	.0054283	.48909	.004664
%RSD	5.853174	4.841066	.2946431	6.634185	24.89685	.5286147	.3920891
#1	.1715301	-.054152	3.211205	.0975790	.0165843	93.04136	1.194895
#2	.1534534	-.056931	3.215268	.1107132	.0274191	92.45916	1.186682
#3	.1578878	-.051681	3.229281	.1083551	.0214063	92.06951	1.186959

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147774	.0089642	119.2024	.1515204	.0652965	.3020112	200.6600
Stddev	.0001312	.0000843	.4667	.0001728	.0008838	.0030193	.8855
%RSD	.8879263	.9402889	.3914880	.1140374	1.353503	.9997232	.4412860
#1	.0147976	.0088672	119.6259	.1513970	.0642770	.3000877	201.6823
#2	.0146372	.0090203	119.2791	.1517179	.0658448	.3054911	200.1645
#3	.0148973	.0090049	118.7021	.1514464	.0657677	.3004548	200.1332

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.89893	51.65427	.2550616	.0022932	.5314412	.2161816	1.253712
Stddev	.05511	.31893	.0008437	.0001797	.0207666	.0032596	.005949
%RSD	.4631894	.6174415	.3307656	7.834060	3.907592	1.507796	.4745366
#1	11.96167	51.78765	.2549160	.0023768	.5198137	.2157849	1.258474
#2	11.87677	51.88486	.2543002	.0020870	.5190931	.2131385	1.255619
#3	11.85834	51.29029	.2559686	.0024158	.5554167	.2196214	1.247043

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.34601	9.926209	.1073646	.0103826	5.279164	12.68114	.0806380
Stddev	.07696	.029015	.0013554	.0009085	.007010	.08570	.0016884
%RSD	.6782725	.2923062	1.262426	8.750666	.1327790	.6757963	2.093790
#1	11.43437	9.920543	.1081315	.0094690	5.279192	12.77804	.0796512
#2	11.30992	9.900445	.1081626	.0112860	5.272141	12.65007	.0796752
#3	11.29373	9.957639	.1057996	.0103927	5.286160	12.61532	.0825875

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-02 Acquired: 12/29/2024 3:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.042649	.0228593	.1084351
Stddev	.002620	.0007021	.0025922
%RSD	.2512596	3.071431	2.390568
#1	1.045087	.0231335	.1064635
#2	1.039879	.0220615	.1074705
#3	1.042982	.0233830	.1113714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.235	31975.36	2405.487	1623.708	1834.017
Stddev	5.826	50.49	12.823	4.153	4.442
%RSD	.2290967	.1579182	.5330549	.2557738	.2422011
#1	2547.989	31925.97	2390.681	1618.952	1836.057
#2	2544.980	32026.89	2412.854	1625.549	1837.074
#3	2536.735	31973.22	2412.926	1626.622	1828.922

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-03 Acquired: 12/29/2024 3:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2090971	-.060112	4.889952	.1094327	.0241046	82.79550
Stddev	.0048623	.003274	.013658	.0107974	.0016515	.25071
%RSD	2.325356	5.447013	.2793016	9.866697	6.851177	.3028105
#1	.2123033	-.061326	4.874903	.1063858	.0235308	82.96748
#2	.2114854	-.062605	4.893392	.1004862	.0228167	82.50783
#3	.2035025	-.056404	4.901561	.1214262	.0259665	82.91119

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234106	.0142652	.0119395	98.55484	.1412919	.0749064
Stddev	.004827	.0002334	.0000750	.20026	.0004429	.0008567
%RSD	.3911169	1.636136	.6284093	.2032003	.3134610	1.143727
#1	1.234893	.0144761	.0119547	98.73731	.1408676	.0754809
#2	1.228934	.0143050	.0120057	98.34058	.1412568	.0739217
#3	1.238491	.0140144	.0118580	98.58664	.1417513	.0753167

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4480507	198.3693	14.22448	36.17607	.2979263	.0040819
Stddev	.0104321	.6339	.06644	.16232	.0015779	.0008754
%RSD	2.328320	.3195539	.4670562	.4486825	.5296129	21.44662
#1	.4576663	198.9149	14.27478	36.28971	.2961105	.0039767
#2	.4369594	197.6739	14.14917	35.99018	.2987049	.0050052
#3	.4495263	198.5191	14.24949	36.24833	.2989636	.0032638

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4719113	.2140762	1.522498	9.801546	F 10.48362	.1084030
Stddev	.0268415	.0113357	.003184	.059100	.02555	.0021342
%RSD	5.687818	5.295192	.2090997	.6029694	.2437342	1.968739
#1	.4416346	.2009869	1.525647	9.734198	10.46603	.1075384
#2	.4813091	.2205672	1.519281	9.844762	10.51293	.1068368
#3	.4927902	.2206744	1.522566	9.825679	10.47190	.1108338

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-03 Acquired: 12/29/2024 3:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK43 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107109	4.577994	11.80004	.1217919	1.005226	.0124731
Stddev	.0002459	.010857	.04779	.0016316	.006471	.0006755
%RSD	2.296237	.2371581	.4049588	1.339699	.6437224	5.416013
#1	.0105139	4.567298	11.84453	.1207758	1.012324	.0125366
#2	.0106323	4.589006	11.80607	.1236740	.999656	.0131146
#3	.0109866	4.577678	11.74953	.1209260	1.003697	.0117680

Elem	Li6707
Units	ppm
Avg	.0912714
Stddev	.0021907
%RSD	2.400182
#1	.0887531
#2	.0923231
#3	.0927378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2619.805	32942.47	2491.205	1674.344	1838.591
Stddev	7.334	238.52	16.335	7.045	1.699
%RSD	.2799382	.7240364	.6557240	.4207868	.0924175
#1	2619.332	32796.94	2472.746	1667.573	1839.849
#2	2627.363	33217.73	2497.073	1681.635	1839.265
#3	2612.719	32812.74	2503.795	1673.823	1836.658

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-04 Acquired: 12/29/2024 3:27:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2673423	-.074750	5.102137	.1409318	.0354449	88.17917
Stddev	.0029061	.002570	.034112	.0052454	.0007311	.29048
%RSD	1.087046	3.438412	.6685827	3.721908	2.062711	.3294167
#1	.2659277	-.077306	5.073985	.1450678	.0355408	87.90912
#2	.2654143	-.074776	5.140072	.1426957	.0346706	88.48648
#3	.2706849	-.072166	5.092356	.1350319	.0361233	88.14190

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.300262	.0165473	.0134803	93.73716	.1670647	.0809681
Stddev	.003412	.0000581	.0001955	.19176	.0007291	.0009976
%RSD	.2623735	.3513175	1.450089	.2045758	.4364113	1.232124
#1	1.296355	.0164826	.0132888	93.52220	.1673418	.0810775
#2	1.301781	.0165950	.0136796	93.89065	.1662376	.0799203
#3	1.302650	.0165645	.0134726	93.79862	.1676145	.0819066

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4924001	244.0990	16.91175	33.08288	.3051263	.0057162
Stddev	.0070126	1.0398	.05925	.17851	.0025519	.0017593
%RSD	1.424172	.4259734	.3503564	.5395760	.8363588	30.77799
#1	.4857439	243.2162	16.84762	32.88719	.3044394	.0037306
#2	.4997217	245.2452	16.96446	33.23680	.3079514	.0070810
#3	.4917347	243.8357	16.92316	33.12466	.3029881	.0063370

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5095922	.2277521	1.421525	8.336619	F 11.77534	.1106744
Stddev	.0406066	.0073975	.007341	.089212	.08637	.0012162
%RSD	7.968456	3.248052	.5163971	1.070126	.7335102	1.098890
#1	.5353766	.2277842	1.415012	8.235916	11.71077	.1103761
#2	.5306157	.2203387	1.429480	8.368181	11.87345	.1096352
#3	.4627844	.2351336	1.420083	8.405760	11.74179	.1120120

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04 Acquired: 12/29/2024 3:27:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099988	3.779626	12.47545	.0934257	.7972505	-.044572
Stddev	.0002287	.031655	.14079	.0004533	.0073617	.000835
%RSD	2.287224	.8375193	1.128516	.4852495	.9233900	1.872970
#1	.0097363	3.757577	12.49175	.0930157	.8055967	-.043897
#2	.0101046	3.815898	12.60738	.0939126	.7916808	-.045506
#3	.0101554	3.765404	12.32722	.0933487	.7944740	-.044313

Elem	Li6707
Units	ppm
Avg	.0907086
Stddev	.0023002
%RSD	2.535858
#1	.0894765
#2	.0933624
#3	.0892869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2676.787	33631.47	2565.624	1714.341	1823.218
Stddev	6.548	188.38	19.584	10.114	7.564
%RSD	.2446392	.5601333	.7633054	.5899759	.4148467
#1	2683.903	33664.42	2562.852	1725.010	1827.423
#2	2671.015	33801.20	2547.575	1713.121	1814.487
#3	2675.441	33428.79	2586.446	1704.892	1827.745

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-05 Acquired: 12/29/2024 3:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2631522	-.072265	4.812199	.1344588	.0348988	84.24845
Stddev	.0020108	.002105	.041123	.0015702	.0022626	.22466
%RSD	.7641210	2.912702	.8545639	1.167768	6.483388	.2666636
#1	.2636417	-.071740	4.787614	.1330715	.0362970	84.46750
#2	.2609418	-.074583	4.789308	.1341416	.0322883	84.25928
#3	.2648730	-.070473	4.859674	.1361634	.0361110	84.01857

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.244073	.0157609	.0127578	89.66916	.1602416	.0750555
Stddev	.003864	.0001424	.0002018	.27598	.0010133	.0024676
%RSD	.3105998	.9035764	1.581701	.3077809	.6323403	3.287659
#1	1.248044	.0156367	.0125957	89.97251	.1613495	.0733538
#2	1.243850	.0157297	.0126938	89.60204	.1600137	.0739271
#3	1.240326	.0159163	.0129838	89.43292	.1593618	.0778855

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4675949	233.1865	16.15060	31.68008	.2884471	.0036638
Stddev	.0047300	.8633	.04944	.01863	.0021385	.0002402
%RSD	1.011560	.3702188	.3061104	.0588164	.7413917	6.555664
#1	.4701044	234.0571	16.20456	31.65989	.2880622	.0033936
#2	.4621389	233.1718	16.13976	31.69661	.2865272	.0037447
#3	.4705412	232.3307	16.10748	31.68375	.2907519	.0038530

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4833822	.2075009	1.368308	7.985648	F 11.10022	.1064656
Stddev	.0132216	.0016021	.005798	.020453	.08729	.0026546
%RSD	2.735234	.7720923	.4237497	.2561270	.7864245	2.493427
#1	.4950739	.2083464	1.361710	7.995138	11.06294	.1093965
#2	.4860387	.2056532	1.372591	7.962174	11.03776	.1057774
#3	.4690340	.2085031	1.370623	7.999633	11.19997	.1042228

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-05 Acquired: 12/29/2024 3:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091290	3.573437	12.03966	.0898828	.7657725	-.041837
Stddev	.0002629	.019315	.06816	.0029276	.0049131	.000582
%RSD	2.879826	.5405035	.5661357	3.257168	.6415874	1.391595
#1	.0092769	3.563472	11.98159	.0865267	.7712826	-.042482
#2	.0092846	3.561140	12.11470	.0912092	.7618479	-.041351
#3	.0088254	3.595699	12.02268	.0919124	.7641870	-.041678

Elem	Li6707
Units	ppm
Avg	.0840984
Stddev	.0011809
%RSD	1.404228
#1	.0838947
#2	.0853679
#3	.0830326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2786.447	34997.50	2650.531	1777.773	1924.413
Stddev	22.041	142.47	3.708	4.380	17.569
%RSD	.7910240	.4070801	.1398882	.2464006	.9129776
#1	2798.561	34878.74	2654.350	1777.189	1933.373
#2	2799.775	35155.46	2646.946	1782.416	1935.696
#3	2761.006	34958.28	2650.298	1773.713	1904.170

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04LX5 Acquired: 12/29/2024 3:35:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464693	-.019081	.9925688	.0248409	.0038491	21.06240	.3109699
Stddev	.0040397	.002527	.0029276	.0029436	.0025587	.28574	.0038932
%RSD	8.693207	13.24421	.2949533	11.84986	66.47616	1.356614	1.251966
#1	.0487994	-.018423	.9936640	.0251168	.0032234	20.95343	.3096859
#2	.0488037	-.021872	.9892515	.0276367	.0016612	21.38659	.3153430
#3	.0418047	-.016948	.9947909	.0217690	.0066626	20.84719	.3078809

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042404	.0023648	22.52935	.0394492	.0209306	.1150000	58.92649
Stddev	.0000417	.0000520	.28795	.0007606	.0001879	.0010976	.70646
%RSD	.9824295	2.197086	1.278097	1.927984	.8978205	.9544261	1.198888
#1	.0042522	.0023620	22.45201	.0394167	.0207844	.1162504	58.73882
#2	.0042748	.0023143	22.84807	.0387054	.0208647	.1141957	59.70784
#3	.0041940	.0024181	22.28797	.0402255	.0211426	.1145539	58.33282

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.111245	7.934428	.0586778	.0015517	.1111036	.0401030	.3451110
Stddev	.059050	.094569	.0000461	.0013524	.0131948	.0100648	.0005994
%RSD	1.436309	1.191878	.0784986	87.15896	11.87608	25.09743	.1736865
#1	4.096220	7.947379	.0587081	.0026974	.1012561	.0516092	.3457720
#2	4.176356	8.021854	.0587006	.0018978	.1260957	.0357661	.3446027
#3	4.061159	7.834052	.0586248	.0000598	.1059590	.0329336	.3449583

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966092	2.293109	.0242216	.0022392	.7395020	3.087831	.0178751
Stddev	.059311	.008331	.0027475	.0000927	.0047256	.043633	.0020149
%RSD	3.016716	.3633129	11.34316	4.137721	.6390287	1.413051	11.27220
#1	1.947658	2.299416	.0258937	.0021379	.7433728	3.071995	.0194570
#2	1.918186	2.283665	.0210506	.0023196	.7408974	3.137170	.0185617
#3	2.032431	2.296247	.0257204	.0022602	.7342358	3.054327	.0156066

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04LX5 Acquired: 12/29/2024 3:35:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1932578	-.011185	.0166581
Stddev	.0015902	.000208	.0045898
%RSD	.8228236	1.859761	27.55273
#1	.1915092	-.011043	.0119791
#2	.1946174	-.011424	.0168421
#3	.1936467	-.011088	.0211532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.215	28280.44	2096.856	1437.585	1909.225
Stddev	4.154	130.55	31.523	4.573	3.878
%RSD	.1844286	.4616101	1.503326	.3181117	.2031085
#1	2247.446	28263.69	2105.578	1433.762	1906.210
#2	2254.150	28159.07	2061.891	1436.342	1913.599
#3	2255.047	28418.55	2123.099	1442.651	1907.866

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/29/2024 3:39:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.081333	4.734131	24.27078	4.964531	4.888245	399.6703	9.956456
Stddev	.013900	.018855	.07353	.014227	.013391	1.5963	.039367
%RSD	.2735598	.3982682	.3029383	.2865652	.2739350	.3994045	.3953899
#1	5.068769	4.730687	24.23577	4.967039	4.891282	400.2392	9.982948
#2	5.078965	4.717235	24.22131	4.949217	4.873597	397.8675	9.911220
#3	5.096266	4.754469	24.35527	4.977337	4.899857	400.9042	9.975200

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5126186	2.448403	399.6341	15.15410	2.357587	14.61847	405.0345
Stddev	.0051099	.006010	1.8443	.01151	.005516	.03998	2.0948
%RSD	.9968229	.2454818	.4615012	.0759577	.2339615	.2735189	.5171932
#1	.5163274	2.446850	400.7524	15.15522	2.353196	14.61760	405.9831
#2	.5067899	2.443321	397.5053	15.16502	2.355786	14.57892	402.6332
#3	.5147384	2.455037	400.6445	15.14208	2.363778	14.65888	406.4872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.61115	400.0810	2.460042	1.252059	410.6452	2.451951	14.60519
Stddev	.07169	1.9204	.004559	.000492	3.4242	.018874	.05025
%RSD	.4906535	.4800086	.1853272	.0392938	.8338516	.7697650	.3440402
#1	14.63436	400.5890	2.457062	1.251523	411.7206	2.470586	14.57921
#2	14.53073	397.9576	2.457773	1.252164	406.8124	2.432847	14.66311
#3	14.66836	401.6963	2.465290	1.252490	413.4026	2.452421	14.57325

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.8953	4.917804	4.940079	4.865406	4.967343	4.850763	4.929492
Stddev	.6542	.008984	.041406	.006421	.028941	.035647	.009600
%RSD	.4364302	.1826808	.8381636	.1319822	.5826264	.7348828	.1947389
#1	150.2134	4.915485	4.968893	4.872597	4.933946	4.872352	4.923625
#2	149.1428	4.910206	4.892630	4.860243	4.983021	4.809617	4.924281
#3	150.3295	4.927720	4.958715	4.863380	4.985063	4.870319	4.940571

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/29/2024 3:39:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.955387	4.621376	5.037160
Stddev	.024140	.012680	.013833
%RSD	.4871391	.2743802	.2746167
#1	4.971407	4.632303	5.037197
#2	4.927623	4.607472	5.023308
#3	4.967133	4.624353	5.050974

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.863	23982.27	1909.705	1172.094	1567.019
Stddev	5.574	81.98	15.276	7.507	4.599
%RSD	.2998724	.3418173	.7999082	.6404405	.2934761
#1	1854.343	23939.97	1896.191	1171.125	1567.007
#2	1865.092	23930.09	1926.279	1165.119	1571.623
#3	1857.156	24076.76	1906.645	1180.038	1562.426

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/29/2024 3:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035315	.0007507	.0022614	.0006241	-.003852	-.015481	-.000072
Stddev	.0021031	.0044909	.0007566	.0026328	.002584	.013963	.000156
%RSD	59.55439	598.2124	33.45536	421.8649	67.09361	90.19407	217.2609
#1	.0038830	-.002466	.0031070	-.002371	-.001159	-.025366	-.000247
#2	.0012747	-.001164	.0016487	.002574	-.006312	-.021570	.000052
#3	.0054367	.005882	.0020285	.001669	-.004085	.000492	-.000021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000554	.0000284	-.009293	-.000309	.0000861	-.004569	-.006787
Stddev	.0000188	.0001484	.012208	.001157	.0006588	.005000	.005915
%RSD	33.91822	522.3901	131.3627	374.0911	765.2868	109.4242	87.14691
#1	.0000400	.0001035	.002072	.001026	-.000423	-.008906	-.012184
#2	.0000764	.0001242	-.007754	-.000942	.000830	.000899	-.000464
#3	.0000498	-.000142	-.022198	-.001012	-.000148	-.005700	-.007713

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001400	-.109393	.0001128	.0001483	.0826512	-.011704	.0026223
Stddev	.000807	.078998	.0006616	.0012458	.0144417	.011838	.0011776
%RSD	57.62051	72.21472	586.6996	840.1075	17.47304	101.1451	44.90806
#1	-.001662	-.122722	.0004430	.0001632	.0800598	-.020282	.0035297
#2	-.000495	-.180878	.0005442	-.001105	.0696806	.001802	.0030455
#3	-.002044	-.024579	-.000649	.001387	.0982131	-.016631	.0012915

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0751523	-.000284	.0104587	.0001486	.0016780	.0003263	-.000291
Stddev	.2437157	.002704	.0003130	.0003991	.0005909	.0005378	.000979
%RSD	324.2956	953.7824	2.992604	268.6448	35.21307	164.8207	336.3375
#1	-.186791	-.002194	.0103842	-.000241	.0023303	-.000244	.000501
#2	.117037	-.001467	.0101896	.000131	.0011785	.000399	.000012
#3	.295212	.002811	.0108022	.000556	.0015253	.000824	-.001385

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/29/2024 3:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0030903	-.000113	.0116582
Stddev	.0016416	.000337	.0020129
%RSD	53.12149	299.4899	17.26594
#1	.0017138	.000271	.0125964
#2	.0049071	-.000247	.0093475
#3	.0026499	-.000362	.0130308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2032.501	25499.19	1919.163	1296.751	1832.266
Stddev	9.816	899.91	22.460	41.985	10.221
%RSD	.4829525	3.529171	1.170304	3.237723	.5578609
#1	2032.660	26034.12	1944.852	1318.934	1830.143
#2	2022.607	26003.23	1909.405	1322.991	1823.273
#3	2042.237	24460.21	1903.233	1248.327	1843.382

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-06 Acquired: 12/29/2024 3:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3419226	-.002701	4.834845	.2774898	.1819826	88.61579
Stddev	.0031284	.004944	.010647	.0018925	.0009987	.22133
%RSD	.9149498	183.0712	.2202175	.6820101	.5487872	.2497616
#1	.3447169	-.001157	4.830942	.2781587	.1808317	88.76131
#2	.3385428	-.008232	4.826700	.2753537	.1826208	88.72497
#3	.3425083	.001288	4.846893	.2789570	.1824954	88.36108

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.303417	.0928353	.1058123	90.78350	.4837573	1.030202
Stddev	.010137	.0004601	.0004143	.15136	.0011741	.002414
%RSD	.2355607	.4955774	.3915586	.1667208	.2427030	.2343327
#1	4.308268	.0933550	.1060378	90.71997	.4834214	1.032151
#2	4.310218	.0926705	.1053342	90.95626	.4827878	1.027502
#3	4.291766	.0924803	.1060650	90.67426	.4850627	1.030955

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8492089	237.2452	17.06947	32.09725	1.245821	.0595937
Stddev	.0042569	.3274	.03467	.08572	.003160	.0009467
%RSD	.5012787	.1379989	.2031300	.2670647	.2536433	1.588583
#1	.8447464	237.2452	17.09409	32.10019	1.248102	.0601110
#2	.8532251	237.5727	17.08450	32.01009	1.242214	.0601691
#3	.8496552	236.9179	17.02981	32.18146	1.247148	.0585011

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5244464	.9958298	2.115370	8.166533	F 11.06142	.1108611
Stddev	.0070002	.0073353	.004873	.164837	.02494	.0016864
%RSD	1.334769	.7366050	.2303389	2.018447	.2254766	1.521159
#1	.5207566	1.000975	2.120502	8.242183	11.08188	.1093626
#2	.5325195	.999084	2.110807	8.279966	11.03363	.1105335
#3	.5200630	.987430	2.114800	7.977450	11.06874	.1126872

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-06 Acquired: 12/29/2024 3:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092201	3.534575	12.13086	.0914454	.7719896	-.043234
Stddev	.0003758	.007416	.02323	.0007566	.0028840	.000562
%RSD	4.076235	.2098258	.1915117	.8274194	.3735811	1.299851
#1	.0091288	3.542934	12.15103	.0911751	.7717243	-.042730
#2	.0096332	3.532008	12.13609	.0923001	.7749970	-.043132
#3	.0088983	3.528783	12.10546	.0908610	.7692474	-.043840

Elem	Li6707
Units	ppm
Avg	.0887708
Stddev	.0027367
%RSD	3.082848
#1	.0863840
#2	.0881707
#3	.0917577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2691.451	33909.39	2567.810	1715.277	1868.151
Stddev	3.120	108.18	7.049	6.310	4.444
%RSD	.1159272	.3190325	.2745033	.3678964	.2378762
#1	2691.899	33895.83	2559.827	1710.113	1867.632
#2	2694.324	34023.72	2573.176	1722.311	1872.831
#3	2688.132	33808.63	2570.427	1713.407	1863.989

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-07 Acquired: 12/29/2024 3:50:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2179198	-.052832	3.346650	.1091996	.0262871	86.50454	1.101809
Stddev	.0047958	.000206	.007583	.0044730	.0028267	.74321	.010190
%RSD	2.200701	.3906478	.2265942	4.096170	10.75306	.8591554	.9248271
#1	.2156610	-.052598	3.347507	.1053363	.0256303	85.65154	1.090148
#2	.2146705	-.052986	3.338675	.1141001	.0238466	86.84943	1.106274
#3	.2234278	-.052913	3.353768	.1081626	.0293843	87.01265	1.109003

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149364	.0114701	97.51545	.1337284	.0868009	.3323914	204.8613
Stddev	.0000969	.0001925	.83255	.0015624	.0008228	.0052709	1.8166
%RSD	.6487224	1.678457	.8537601	1.168342	.9479230	1.585753	.8867435
#1	.0149510	.0116919	96.55422	.1353316	.0877507	.3265545	202.7642
#2	.0148331	.0113453	97.98285	.1322103	.0863078	.3368033	205.9487
#3	.0150252	.0113733	98.00926	.1336435	.0863441	.3338165	205.8711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53242	31.37636	.2474038	.0028447	.5021671	.2109354	1.094999
Stddev	.15517	.27931	.0014008	.0008894	.0050990	.0068588	.002031
%RSD	.9989787	.8901772	.5662158	31.26388	1.015402	3.251615	.1855196
#1	15.35325	31.07550	.2481181	.0018180	.4977122	.2179697	1.096005
#2	15.62075	31.62741	.2457898	.0033754	.5077285	.2105697	1.092661
#3	15.62325	31.42617	.2483036	.0033408	.5010606	.2042668	1.096332

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.155901	8.401602	.1092126	.0083779	3.734407	11.08860	.0790667
Stddev	.071233	.019714	.0027871	.0002673	.004315	.01595	.0015037
%RSD	.8733866	.2346466	2.551949	3.190199	.1155506	.1438611	1.901757
#1	8.077605	8.391977	.1061714	.0086681	3.729846	11.07204	.0792196
#2	8.216875	8.388549	.1116448	.0081419	3.734952	11.08989	.0774925
#3	8.173222	8.424280	.1098216	.0083237	3.738424	11.10387	.0804881

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-07 Acquired: 12/29/2024 3:50:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK45 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8312728	-.001274	.0880719
Stddev	.0036788	.001384	.0021849
%RSD	.4425480	108.6205	2.480858
#1	.8270688	-.000024	.0857038
#2	.8328471	-.002762	.0900097
#3	.8339025	-.001037	.0885022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2763.483	34915.85	2637.642	1770.455	1810.196
Stddev	6.686	151.94	6.283	3.491	3.905
%RSD	.2419418	.4351487	.2381960	.1971761	.2157159
#1	2770.760	34935.48	2643.092	1770.276	1813.463
#2	2762.077	34755.05	2630.770	1767.057	1811.252
#3	2757.611	35057.01	2639.062	1774.032	1805.871

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-08 Acquired: 12/29/2024 3:54:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2063577	-.055498	2.139523	.1028243	.0237047	79.64315	1.058728
Stddev	.0014122	.004493	.007212	.0019489	.0046387	.15319	.002960
%RSD	.6843323	8.094861	.3370617	1.895318	19.56883	.1923437	.2795935
#1	.2065705	-.051377	2.145744	.1042525	.0190125	79.47430	1.055463
#2	.2048511	-.054831	2.131618	.1006041	.0238136	79.68194	1.059482
#3	.2076513	-.060287	2.141205	.1036162	.0282880	79.77322	1.061238

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151658	.0085437	143.0220	.1159402	.0680313	.3212645	201.1998
Stddev	.0001078	.0001277	.4239	.0004976	.0009424	.0056887	.9033
%RSD	.7108454	1.495293	.2963733	.4292146	1.385198	1.770734	.4489600
#1	.0152047	.0084610	142.6322	.1164849	.0677516	.3151691	200.1567
#2	.0150440	.0084794	142.9605	.1158260	.0672605	.3221919	201.7141
#3	.0152488	.0086909	143.4733	.1155095	.0690819	.3264326	201.7284

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.01839	34.75360	.2037214	.0032607	.6335414	.1945763	.9436590
Stddev	.03911	.12321	.0020491	.0007434	.0038935	.0013275	.0057749
%RSD	.3254589	.3545347	1.005838	22.79760	.6145616	.6822536	.6119735
#1	11.97441	34.62839	.2035405	.0024674	.6292871	.1930711	.9407592
#2	12.03148	34.75769	.2017687	.0039412	.6369275	.1955800	.9503092
#3	12.04928	34.87471	.2058549	.0033734	.6344095	.1950777	.9399087

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.080457	7.909462	.1261234	.0081072	4.618072	10.97524	.0696353
Stddev	.184960	.014242	.0019272	.0002553	.024768	.06343	.0013933
%RSD	2.036901	.1800657	1.527985	3.148878	.5363248	.5778973	2.000828
#1	8.889774	7.903937	.1245408	.0078394	4.600536	10.95052	.0711619
#2	9.092490	7.898810	.1282695	.0083478	4.607274	10.92791	.0684322
#3	9.259106	7.925639	.1255600	.0081342	4.646406	11.04731	.0693118

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-08 Acquired: 12/29/2024 3:54:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9389791	.0955469	.0915708
Stddev	.0048211	.0018667	.0019350
%RSD	.5134361	1.953683	2.113166
#1	.9389282	.0944733	.0896372
#2	.9341836	.0944651	.0915679
#3	.9438253	.0977023	.0935073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2562.546	32298.77	2481.097	1639.798	1797.650
Stddev	3.563	118.91	6.127	10.613	2.795
%RSD	.1390453	.3681529	.2469637	.6472161	.1555080
#1	2558.560	32209.11	2480.546	1642.343	1794.525
#2	2563.656	32253.55	2487.482	1628.144	1799.914
#3	2565.422	32433.66	2475.264	1648.907	1798.511

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-09 Acquired: 12/29/2024 3:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1685342	-.043071	1.439818	.0947027	.0188119	80.94927	1.024450
Stddev	.0040457	.001591	.001540	.0027720	.0054411	.34117	.003188
%RSD	2.400509	3.694858	.1069716	2.927015	28.92386	.4214646	.3111462
#1	.1727391	-.043003	1.441069	.0935893	.0161332	80.99527	1.024165
#2	.1681942	-.041515	1.438098	.0926605	.0250730	80.58744	1.021414
#3	.1646692	-.044696	1.440287	.0978582	.0152294	81.26512	1.027770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137889	.0071502	189.3699	.1069087	.0817532	.2857009	189.2688
Stddev	.0001501	.0001820	.9691	.0008975	.0000886	.0031199	.6702
%RSD	1.088437	2.545108	.5117600	.8395009	.1084105	1.092008	.3541108
#1	.0139470	.0071591	189.6495	.1058760	.0816646	.2866466	189.3827
#2	.0136483	.0073276	188.2918	.1073497	.0817530	.2822175	188.5490
#3	.0137715	.0069640	190.1686	.1075003	.0818419	.2882384	189.8748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.24017	38.48906	.1847396	.0024171	.5732466	.1777443	.7654455
Stddev	.03367	.20389	.0001767	.0012131	.0059310	.0165368	.0025696
%RSD	.2542969	.5297265	.0956588	50.18934	1.034627	9.303690	.3356978
#1	13.25675	38.67974	.1848918	.0012056	.5796551	.1968253	.7678759
#2	13.20143	38.27414	.1847811	.0036318	.5679507	.1675702	.7657044
#3	13.26233	38.51331	.1845458	.0024137	.5721340	.1688374	.7627563

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.366595	7.479805	.1076790	.0076321	2.973114	10.71574	.0554558
Stddev	.048985	.023039	.0028876	.0010022	.013924	.13311	.0010637
%RSD	.5229805	.3080166	2.681679	13.13169	.4683211	1.242220	1.918062
#1	9.355371	7.465174	.1052821	.0065685	2.957360	10.75302	.0542286
#2	9.324196	7.467879	.1108848	.0085588	2.978212	10.56796	.0561135
#3	9.420219	7.506362	.1068702	.0077688	2.983770	10.82624	.0560253

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-09 Acquired: 12/29/2024 3:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7750058	.1157227	.0896467
Stddev	.0014781	.0025098	.0013037
%RSD	.1907235	2.168813	1.454246
#1	.7742279	.1161919	.0903176
#2	.7740791	.1130114	.0881442
#3	.7767104	.1179648	.0904783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2576.550	32588.49	2504.111	1645.082	1786.671
Stddev	5.379	172.85	22.109	6.712	3.814
%RSD	.2087547	.5303877	.8829007	.4080246	.2134513
#1	2578.767	32710.84	2496.498	1650.923	1791.059
#2	2570.417	32390.75	2529.021	1637.750	1784.153
#3	2580.466	32663.86	2486.815	1646.574	1784.801

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-10 Acquired: 12/29/2024 4:02:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323348	.0144719	.2199476	-.004709	-.017346	26.54638
Stddev	.0061215	.0068700	.0034815	.001874	.001816	.05310
%RSD	18.93175	47.47165	1.582891	39.79419	10.47226	.2000458
#1	.0252770	.0168239	.2212204	-.003193	-.016578	26.48525
#2	.0362005	.0067347	.2160088	-.006804	-.016039	26.57280
#3	.0355270	.0198570	.2226137	-.004129	-.019420	26.58110

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0754424	.0061752	.0025524	F 1246.911	.0545162	.0758249
Stddev	.0006649	.0003882	.0001811	.442	.0008747	.0004054
%RSD	.8812646	6.286716	7.093700	.0354613	1.604558	.5346359
#1	.0748322	.0058543	.0023437	1246.543	.0548455	.0754043
#2	.0753441	.0060645	.0026457	1247.401	.0535247	.0758573
#3	.0761509	.0066067	.0026677	1246.789	.0551786	.0762131

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492490	83.18088	5.193891	668.3116	.1005192	.0015972
Stddev	.0012612	.25845	.014278	1.4098	.0001425	.0009363
%RSD	2.560846	.3107119	.2748907	.2109476	.1417418	58.62333
#1	.0478358	82.88266	5.180475	668.4888	.1004238	.0025599
#2	.0496511	83.33990	5.192301	669.6244	.1006829	.0006896
#3	.0502601	83.32008	5.208897	666.8216	.1004507	.0015422

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.768701	.0515257	.5015344	15.37752	1.827439	.1898552
Stddev	.020388	.0083751	.0021027	.08872	.001472	.0019858
%RSD	1.152731	16.25426	.4192498	.5769257	.0805757	1.045957
#1	1.777427	.0598716	.5022075	15.47604	1.825740	.1916756
#2	1.745402	.0515838	.4991775	15.30396	1.828220	.1877375
#3	1.783275	.0431217	.5032181	15.35255	1.828355	.1901525

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-10 Acquired: 12/29/2024 4:02:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000571	30.63787	6.364922	.0202087	.0575181	.6203872
Stddev	.000772	.09822	.012896	.0013382	.0043678	.0025001
%RSD	135.1402	.3205700	.2026100	6.621676	7.593745	.4029975
#1	.000085	30.52762	6.378073	.0198432	.0565377	.6208862
#2	-.000376	30.66997	6.364397	.0216916	.0622928	.6176752
#3	-.001421	30.71602	6.352297	.0190912	.0537239	.6226002

Elem	Li6707
Units	ppm
Avg	.0897855
Stddev	.0021114
%RSD	2.351631
#1	.0880523
#2	.0921370
#3	.0891672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.899	26162.82	2093.242	1303.033	1509.032
Stddev	6.064	82.43	6.448	5.382	5.061
%RSD	.2972522	.3150486	.3080605	.4130186	.3354051
#1	2034.352	26101.03	2086.359	1299.116	1505.339
#2	2046.372	26256.41	2094.221	1309.170	1514.802
#3	2038.972	26131.02	2099.144	1300.814	1506.956

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-11 Acquired: 12/29/2024 4:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0325543	.0210511	.8141696	-.003616	-.023776	22.40412
Stddev	.0066461	.0017381	.0003021	.014710	.005998	.05418
%RSD	20.41551	8.256329	.0371091	406.7860	25.22708	.2418378
#1	.0289759	.0219793	.8138236	.011797	-.025823	22.46158
#2	.0284640	.0190460	.8143040	-.017505	-.017023	22.35396
#3	.0402228	.0221279	.8143812	-.005141	-.028484	22.39683

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1476691	.0061358	.0092774	F 1850.292	.0740492	.0708374
Stddev	.0001907	.0002000	.0002110	12.814	.0007722	.0014885
%RSD	.1291118	3.259972	2.274811	.6925650	1.042836	2.101271
#1	.1475652	.0063668	.0095169	1835.698	.0749408	.0699509
#2	.1475530	.0060237	.0091967	1855.474	.0735953	.0725559
#3	.1478891	.0060170	.0091187	1859.703	.0736115	.0700055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606459	94.62805	6.370674	F 1048.706	.0945866	.0010085
Stddev	.0141948	.20452	.012086	3.269	.0007573	.0018812
%RSD	23.40611	.2161339	.1897091	.3117091	.8005894	186.5321
#1	.0454850	94.83046	6.384179	1050.261	.0938412	-.000414
#2	.0736211	94.42147	6.366969	1050.907	.0953552	.000298
#3	.0628315	94.63223	6.360875	1044.950	.0945633	.003142

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.353899	.0411526	2.069327	11.86236	2.007568	.1772778
Stddev	.013631	.0085642	.009583	.04182	.002339	.0011972
%RSD	.5790710	20.81083	.4631179	.3525809	.1165135	.6753473
#1	2.350822	.0502929	2.080053	11.90926	2.004915	.1759371
#2	2.342071	.0333135	2.066321	11.84889	2.009334	.1782401
#3	2.368806	.0398513	2.061607	11.82894	2.008456	.1776563

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-11 Acquired: 12/29/2024 4:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000199	48.43142	7.122129	.0230828	.0936265	.7637709
Stddev	.0012978	.08910	.017692	.0025274	.0019186	.0022205
%RSD	6516.231	.1839743	.2484068	10.94939	2.049199	.2907319
#1	.0014522	48.33546	7.142480	.0217087	.0920099	.7658945
#2	-.000314	48.51154	7.113492	.0215402	.0931230	.7614647
#3	-.001078	48.44725	7.110414	.0259996	.0957467	.7639534

Elem	Li6707
Units	ppm
Avg	.0803086
Stddev	.0035462
%RSD	4.415759
#1	.0817974
#2	.0828678
#3	.0762607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1966.271	25153.87	2030.526	1241.374	1436.262
Stddev	2.635	108.63	15.407	8.173	1.233
%RSD	.1340281	.4318692	.7587757	.6583900	.0858531
#1	1968.527	25047.93	2014.630	1232.079	1437.204
#2	1966.911	25265.00	2045.392	1247.435	1436.717
#3	1963.374	25148.69	2031.556	1244.609	1434.866

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-12 Acquired: 12/29/2024 4:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0416345	.0134415	2.645773	.0013340	-.018955	14.94570
Stddev	.0068427	.0036042	.007865	.0060342	.001671	.07152
%RSD	16.43514	26.81387	.2972835	452.3361	8.815827	.4785611
#1	.0491967	.0175585	2.636762	-.002606	-.017137	14.87805
#2	.0358703	.0119096	2.651264	.008281	-.019304	15.02055
#3	.0398367	.0108563	2.649292	-.001673	-.020424	14.93849

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1619912	.0067261	.0306431	F 2224.019	.0482448	.0578917
Stddev	.0016919	.0001545	.0002820	19.702	.0007019	.0011472
%RSD	1.044461	2.296992	.9201338	.8858789	1.454838	1.981646
#1	.1603858	.0067971	.0303234	2215.289	.0474355	.0571629
#2	.1637581	.0065488	.0308564	2246.578	.0486120	.0572981
#3	.1618298	.0068323	.0307495	2210.191	.0486870	.0592141

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0327143	122.0702	7.691195	F 1252.918	.0885150	.0019171
Stddev	.0065132	.4706	.038395	4.991	.0005643	.0011149
%RSD	19.90934	.3855387	.4992076	.3983650	.6375098	58.15236
#1	.0401744	121.5268	7.646987	1247.585	.0891544	.0008129
#2	.0298099	122.3366	7.716210	1257.477	.0883036	.0030423
#3	.0281585	122.3473	7.710386	1253.692	.0880869	.0018963

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.716993	.0557028	5.575534	9.092567	1.096621	.1665616
Stddev	.036514	.0054680	.010633	.065951	.008256	.0022026
%RSD	1.343929	9.816326	.1907017	.7253262	.7528667	1.322398
#1	2.709479	.0494085	5.586262	9.167501	1.087471	.1641145
#2	2.756680	.0584204	5.575342	9.043346	1.098878	.1671850
#3	2.684820	.0592797	5.564999	9.066854	1.103514	.1683853

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-12 Acquired: 12/29/2024 4:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022411	98.19683	6.149214	.0259046	.0017310	.7440101
Stddev	.0003226	.59982	.005693	.0009715	.0033611	.0043130
%RSD	14.39524	.6108381	.0925862	3.750264	194.1777	.5797013
#1	.0021582	97.54371	6.145922	.0260372	-.001607	.7416545
#2	.0019680	98.32374	6.145932	.0268029	.005115	.7489880
#3	.0025971	98.72305	6.155788	.0248736	.001685	.7413877

Elem	Li6707
Units	ppm
Avg	.0656358
Stddev	.0012385
%RSD	1.886918
#1	.0642058
#2	.0663369
#3	.0663648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.976	24490.87	1995.699	1206.517	1397.021
Stddev	4.707	73.42	6.650	5.482	2.791
%RSD	.2465773	.2997812	.3331927	.4543502	.1998118
#1	1911.933	24478.04	1997.607	1202.036	1399.877
#2	1903.548	24424.71	1988.305	1204.886	1394.299
#3	1911.447	24569.86	2001.187	1212.630	1396.888

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-13 Acquired: 12/29/2024 4:14:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2235744	-.072111	.6326948	.1350963	.0402090	88.77365	.6261557
Stddev	.0008145	.005177	.0033293	.0011545	.0010342	.29113	.0005767
%RSD	.3643213	7.179009	.5262090	.8545745	2.572143	.3279467	.0921088
#1	.2244860	-.075667	.6364716	.1344953	.0405558	89.03710	.6266788
#2	.2229182	-.066172	.6314278	.1343662	.0390460	88.82276	.6255372
#3	.2233190	-.074494	.6301851	.1364273	.0410254	88.46109	.6262511

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148946	.0047271	28.86268	.1174858	.0939025	.3888793	221.2117
Stddev	.0002741	.0001208	.05668	.0002429	.0013116	.0056199	.7356
%RSD	1.840213	2.556129	.1963750	.2067707	1.396807	1.445149	.3325500
#1	.0151484	.0047994	28.92790	.1172154	.0952833	.3830735	221.9182
#2	.0149315	.0045876	28.83474	.1175565	.0926731	.3892717	221.2670
#3	.0146039	.0047944	28.82539	.1176856	.0937512	.3942927	220.4500

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.26935	20.87442	.1906226	.0015323	.3361109	.1732610	.6305217
Stddev	.07341	.01651	.0013937	.0008222	.0200129	.0070148	.0019891
%RSD	.3621942	.0790948	.7311239	53.65875	5.954257	4.048676	.3154713
#1	20.33117	20.87265	.1910986	.0007250	.3514423	.1653185	.6326230
#2	20.28868	20.85887	.1890533	.0015033	.3434194	.1786089	.6302741
#3	20.18821	20.89175	.1917160	.0023687	.3134710	.1758554	.6286679

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.677680	2.699652	.0918013	.0101073	.8440712	10.49549	.0261916
Stddev	.057517	.015004	.0004888	.0003361	.0140332	.10482	.0012716
%RSD	.7491400	.5557818	.5324205	3.324840	1.662566	.9987472	4.855002
#1	7.666953	2.716315	.0912412	.0100566	.8528953	10.59180	.0265032
#2	7.739805	2.687212	.0920210	.0097994	.8514292	10.51081	.0272784
#3	7.626282	2.695430	.0921416	.0104658	.8278891	10.38384	.0247931

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-13 Acquired: 12/29/2024 4:14:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5067299	-.078501	.0818565
Stddev	.0050805	.000871	.0021832
%RSD	1.002612	1.109764	2.667162
#1	.5084242	-.079101	.0804191
#2	.5107468	-.078899	.0843688
#3	.5010187	-.077502	.0807816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.766	36117.91	2703.717	1837.413	1858.424
Stddev	14.184	196.00	22.740	4.361	11.805
%RSD	.4913495	.5426731	.8410683	.2373513	.6352105
#1	2876.992	36184.84	2678.936	1837.849	1848.084
#2	2903.035	36271.69	2708.589	1841.540	1871.286
#3	2880.271	35897.21	2723.626	1832.851	1855.901

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-14 Acquired: 12/29/2024 4:18:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1263744	-.051339	6.769343	.0854763	.0216041	77.61853
Stddev	.0068687	.006801	.016762	.0053952	.0021590	3.12016
%RSD	5.435204	13.24737	.2476153	6.311960	9.993635	4.019868
#1	.1187479	-.043823	6.754031	.0814972	.0219028	74.03563
#2	.1283016	-.053126	6.766746	.0833145	.0235982	79.08207
#3	.1320736	-.057069	6.787252	.0916172	.0193112	79.73789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.351218	.0127947	.0179693	80.89841	.2247904	.0538297
Stddev	.125225	.0005197	.0002912	3.09599	.0003836	.0028248
%RSD	3.736691	4.061889	1.620556	3.827009	.1706263	5.247639
#1	3.206843	.0121986	.0182749	77.32348	.2247635	.0569159
#2	3.416474	.0131524	.0176951	82.69471	.2251867	.0532009
#3	3.430338	.0130331	.0179379	82.67703	.2244211	.0513723

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7267991	162.4107	6.527641	24.44384	.2358295	.0049180
Stddev	.0253305	6.1599	.250252	.87663	.0007382	.0009198
%RSD	3.485218	3.792791	3.833734	3.586312	.3130341	18.70266
#1	.6987632	155.3021	6.238870	23.43906	.2359011	.0038776
#2	.7480370	165.7538	6.662818	24.83998	.2350581	.0056231
#3	.7335972	166.1764	6.681234	25.05249	.2365293	.0052534

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6657312	.2065052	4.777013	7.589719	F 16.82013	.0989364
Stddev	.0101698	.0050622	.034056	.550395	.05380	.0038180
%RSD	1.527617	2.451383	.7129104	7.251845	.3198693	3.859068
#1	.6556488	.2018171	4.791619	6.967378	16.76136	.0945709
#2	.6759862	.2118729	4.801330	7.789295	16.83206	.1005861
#3	.6655586	.2058256	4.738091	8.012483	16.86696	.1016521

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-14 Acquired: 12/29/2024 4:18:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113871	5.234045	11.31807	.1798742	1.103884	.2212424
Stddev	.0007767	.013815	.35583	.0021551	.044136	.0083630
%RSD	6.820520	.2639471	3.143895	1.198095	3.998231	3.780029
#1	.0105545	5.235931	10.90765	.1780932	1.053396	.2116019
#2	.0120921	5.219384	11.50662	.1822698	1.123110	.2255775
#3	.0115147	5.246821	11.53996	.1792597	1.135146	.2265478

Elem	Li6707
Units	ppm
Avg	.1239826
Stddev	.0099101
%RSD	7.993141
#1	.1127276
#2	.1278205
#3	.1313998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2468.705	30970.30	2415.962	1572.853	1851.963
Stddev	2.373	54.69	85.540	9.962	1.211
%RSD	.0961258	.1765805	3.540621	.6334005	.0653687
#1	2466.893	30988.06	2513.654	1570.845	1853.244
#2	2467.831	31013.91	2379.739	1564.048	1850.838
#3	2471.391	30908.94	2354.493	1583.667	1851.808

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-15 Acquired: 12/29/2024 4:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2223565	-.092918	8.685747	.1394764	.0436424	85.37290
Stddev	.0066623	.002398	.011084	.0022726	.0048388	.36728
%RSD	2.996236	2.580715	.1276063	1.629358	11.08749	.4302042
#1	.2152494	-.093694	8.680243	.1417492	.0491470	85.72383
#2	.2233600	-.094832	8.678494	.1372041	.0417206	84.99121
#3	.2284602	-.090228	8.698506	.1394759	.0400597	85.40366

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.421138	.0178284	.0254491	114.1514	.2335760	.0430272
Stddev	.017736	.0003316	.0000775	.5007	.0013365	.0014665
%RSD	.4011672	1.860164	.3045745	.4386079	.5721780	3.408347
#1	4.437706	.0181687	.0253651	114.6292	.2321382	.0432628
#2	4.402428	.0178106	.0254645	113.6306	.2347804	.0414572
#3	4.423279	.0175061	.0255178	114.1943	.2338095	.0443617

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9155107	257.1377	7.555239	26.51735	.2822544	.0058861
Stddev	.0052247	.6896	.019761	.08464	.0013311	.0012300
%RSD	.5706918	.2681937	.2615514	.3191690	.4715879	20.89756
#1	.9096020	257.8966	7.573226	26.52375	.2810884	.0055859
#2	.9195203	256.9670	7.534086	26.59860	.2819701	.0072384
#3	.9174099	256.5494	7.558405	26.42970	.2837046	.0048338

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.336615	.2603449	6.214655	8.152603	F 20.30942	.1269559
Stddev	.032570	.0169987	.014201	.107545	.03609	.0021805
%RSD	2.436736	6.529298	.2285148	1.319153	.1777233	1.717544
#1	1.372917	.2499835	6.198317	8.129208	20.27344	.1274843
#2	1.326975	.2510882	6.224049	8.269920	20.30918	.1245597
#3	1.309953	.2799629	6.221598	8.058681	20.34563	.1288236

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-15 Acquired: 12/29/2024 4:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149513	4.424441	11.31627	.9395766	1.256975	.2979246
Stddev	.0002346	.010519	.16353	.0038222	.005681	.0040455
%RSD	1.569082	.2377572	1.445114	.4067957	.4519903	1.357887
#1	.0152093	4.432802	11.49645	.9387521	1.250776	.3014991
#2	.0147507	4.412630	11.27512	.9362339	1.258216	.2935329
#3	.0148940	4.427892	11.17724	.9437437	1.261934	.2987419

Elem	Li6707
Units	ppm
Avg	.1351299
Stddev	.0034741
%RSD	2.570942
#1	.1375168
#2	.1311442
#3	.1367286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.331	31022.53	2364.413	1576.980	1846.298
Stddev	6.868	142.34	23.814	11.294	3.374
%RSD	.2788247	.4588326	1.007171	.7161777	.1827398
#1	2456.096	31168.54	2337.729	1587.577	1844.565
#2	2469.762	31014.89	2372.006	1578.262	1850.186
#3	2464.133	30884.17	2383.505	1565.099	1844.143

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-16 Acquired: 12/29/2024 4:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1671487	-.064538	2.884543	.1010123	.0274738	94.71021
Stddev	.0053289	.001715	.003578	.0020910	.0016947	.14914
%RSD	3.188091	2.656573	.1240461	2.070014	6.168517	.1574704
#1	.1698615	-.062561	2.882293	.1029643	.0268812	94.87739
#2	.1705754	-.065618	2.888669	.1012670	.0293853	94.59083
#3	.1610093	-.065435	2.882668	.0988057	.0261550	94.66240

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.295724	.0146453	.0125310	74.60802	.1813777	.0610583
Stddev	.001751	.0000414	.0000290	.11584	.0019397	.0005042
%RSD	.0762526	.2828239	.2312816	.1552582	1.069421	.8257833
#1	2.297660	.0146604	.0125081	74.73702	.1793815	.0606558
#2	2.295257	.0146770	.0125636	74.57415	.1814964	.0616239
#3	2.294253	.0145984	.0125213	74.51289	.1832554	.0608953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3808986	196.2900	11.59884	27.08277	.2154683	.0034071
Stddev	.0038816	.1563	.03440	.16053	.0005537	.0007689
%RSD	1.019076	.0796026	.2965653	.5927235	.2569712	22.56840
#1	.3839634	196.2399	11.62425	27.11989	.2160906	.0025266
#2	.3821986	196.1649	11.55969	26.90694	.2152842	.0039461
#3	.3765338	196.4652	11.61257	27.22149	.2150302	.0037488

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5942951	.2536249	2.295904	7.723258	F 14.09524	.0915215
Stddev	.0207984	.0085303	.018041	.105673	.02626	.0019183
%RSD	3.499667	3.363354	.7857696	1.368240	.1862800	2.095981
#1	.5808944	.2606235	2.297040	7.801983	14.07712	.0937343
#2	.5837360	.2561281	2.277322	7.764632	14.08324	.0904997
#3	.6182548	.2441230	2.313350	7.603158	14.12535	.0903304

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-16 Acquired: 12/29/2024 4:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113743	3.075805	11.97200	.1246326	1.000740	.1246031
Stddev	.0008422	.003672	.07079	.0028828	.003046	.0010798
%RSD	7.404645	.1193960	.5913006	2.313044	.3043591	.8665764
#1	.0104877	3.071566	12.04466	.1267906	1.001334	.1254813
#2	.0121637	3.077808	11.96808	.1213586	.997441	.1249304
#3	.0114713	3.078039	11.90324	.1257485	1.003445	.1233975

Elem	Li6707
Units	ppm
Avg	.1608960
Stddev	.0024905
%RSD	1.547899
#1	.1596294
#2	.1592934
#3	.1637652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.786	32464.25	2502.333	1648.983	1847.352
Stddev	4.793	362.40	1.071	17.587	1.708
%RSD	.1833113	1.116304	.0428171	1.066554	.0924424
#1	2610.323	32709.98	2501.392	1655.857	1845.727
#2	2614.184	32634.73	2503.499	1662.095	1847.198
#3	2619.853	32048.05	2502.109	1628.997	1849.132

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-17 Acquired: 12/29/2024 4:30:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0996525	-.064689	.7072809	.0909494	.0233805	106.3343
Stddev	.0078082	.003995	.0033441	.0034883	.0020634	1.4688
%RSD	7.835401	6.176219	.4728138	3.835394	8.825279	1.381328
#1	.0922774	-.060733	.7083932	.0894486	.0239103	106.5448
#2	.1078315	-.064610	.7099272	.0884628	.0211038	104.7716
#3	.0988486	-.068723	.7035224	.0949369	.0251273	107.6865

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.449746	.0148999	.0082849	395.4196	.1957501	.0581658
Stddev	.016751	.0001427	.0001169	6.7982	.0010637	.0017459
%RSD	1.155436	.9577320	1.411228	1.719227	.5434087	3.001594
#1	1.452516	.0148728	.0083635	396.6578	.1948168	.0582591
#2	1.431783	.0147727	.0081505	388.0875	.1969083	.0598631
#3	1.464940	.0150542	.0083406	401.5136	.1955252	.0563751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575227	208.5895	6.413797	55.12334	.2148310	.0018143
Stddev	.0077667	3.0674	.092665	.51236	.0008255	.0013000
%RSD	4.930526	1.470539	1.444777	.9294826	.3842700	71.65398
#1	.1617942	209.2001	6.424600	55.44005	.2149223	.0010096
#2	.1485578	205.2627	6.316204	54.53222	.2156070	.0011192
#3	.1622160	211.3056	6.500587	55.39775	.2139635	.0033140

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6764991	.2351638	.8236097	7.507341	F 12.17086	.0964880
Stddev	.0228198	.0093117	.0026619	.261512	.01645	.0013260
%RSD	3.373214	3.959648	.3232025	3.483420	.1351230	1.374259
#1	.7009486	.2457747	.8211789	7.469565	12.16018	.0977433
#2	.6557651	.2283540	.8264543	7.266772	12.16260	.0951011
#3	.6727836	.2313627	.8231959	7.785687	12.18980	.0966194

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-17 Acquired: 12/29/2024 4:30:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058917	2.787400	10.57376	.0466997	1.140283	.1429669
Stddev	.0002001	.010626	.11851	.0006491	.010407	.0028974
%RSD	3.396653	.3812284	1.120768	1.389988	.9126456	2.026605
#1	.0060902	2.786693	10.65025	.0469992	1.145816	.1434494
#2	.0056900	2.777145	10.43725	.0459548	1.128278	.1398585
#3	.0058950	2.798363	10.63377	.0471449	1.146754	.1455927

Elem	Li6707
Units	ppm
Avg	.1820265
Stddev	.0040062
%RSD	2.200890
#1	.1826441
#2	.1777473
#3	.1856880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.979	32823.35	2535.087	1660.868	1768.345
Stddev	11.023	124.65	29.697	8.194	5.453
%RSD	.4231618	.3797515	1.171450	.4933521	.3083418
#1	2599.388	32945.17	2525.645	1669.294	1764.704
#2	2617.678	32828.83	2568.357	1660.383	1774.614
#3	2597.872	32696.06	2511.259	1652.927	1765.718

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-18 Acquired: 12/29/2024 4:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0589099	-.042550	.2581734	.0716627	.0169224	76.16062	.8698866
Stddev	.0041999	.003353	.0015715	.0069232	.0032580	.50317	.0058681
%RSD	7.129404	7.881209	.6087160	9.660813	19.25279	.6606673	.6745786
#1	.0545406	-.046415	.2571087	.0698966	.0141306	75.86037	.8661292
#2	.0592721	-.040825	.2599784	.0657936	.0205022	75.87997	.8668821
#3	.0629169	-.040410	.2574332	.0792979	.0161344	76.74152	.8766485

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119358	.0044825	617.5616	.1138967	.0646154	.1346416	190.8217
Stddev	.0002113	.0001281	4.1235	.0002371	.0005392	.0015298	1.2763
%RSD	1.770728	2.857913	.6677112	.2082003	.8344434	1.136235	.6688308
#1	.0116934	.0043598	614.7900	.1138404	.0645798	.1329280	189.9137
#2	.0120322	.0046154	615.5944	.1141570	.0651715	.1351267	190.2703
#3	.0120818	.0044723	622.3003	.1136929	.0640949	.1358701	192.2809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.731249	127.7344	.2150447	-.000776	1.176733	.1654305	.5053699
Stddev	.052510	1.1161	.0008062	.000748	.039964	.0030778	.0057557
%RSD	.7800972	.8737869	.3749150	96.35956	3.396168	1.860462	1.138919
#1	6.688619	127.2380	.2159217	-.000856	1.131335	.1638695	.5090061
#2	6.715224	126.9526	.2143358	-.001480	1.206600	.1634461	.4987339
#3	6.789905	129.0126	.2148766	.000008	1.192263	.1689760	.5083697

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.898240	7.738268	.0939235	.0053756	1.136197	10.59760	.0329624
Stddev	.266062	.029644	.0018287	.0006856	.006941	.06141	.0013491
%RSD	3.368629	.3830820	1.946987	12.75407	.6109350	.5794329	4.092775
#1	7.764867	7.713405	.0954754	.0046602	1.128182	10.53065	.0344668
#2	7.725244	7.730323	.0919074	.0060269	1.140271	10.61085	.0318602
#3	8.204610	7.771074	.0943875	.0054397	1.140137	10.65130	.0325600

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-18 Acquired: 12/29/2024 4:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.397275	.4956914	.1403358
Stddev	.008334	.0027374	.0012533
%RSD	.5964715	.5522450	.8931045
#1	1.402302	.4946008	.1402265
#2	1.387655	.4936674	.1391406
#3	1.401870	.4988061	.1416401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.942	29965.15	2356.339	1503.276	1686.702
Stddev	4.643	130.09	14.501	12.877	2.403
%RSD	.1959132	.4341477	.6154020	.8565879	.1424882
#1	2366.797	29879.65	2370.076	1499.501	1689.466
#2	2367.754	30114.86	2357.762	1517.619	1685.104
#3	2375.274	29900.93	2341.179	1492.709	1685.537

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-19 Acquired: 12/29/2024 4:38:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462027	-.035931	.1046537	.0619321	.0110186	68.78017	.6507544
Stddev	.0019939	.003493	.0031026	.0085495	.0021488	.54257	.0046173
%RSD	4.315494	9.721977	2.964656	13.80460	19.50204	.7888482	.7095335
#1	.0441071	-.031943	.1024370	.0646183	.0085933	69.35709	.6560111
#2	.0480762	-.038449	.1081995	.0523621	.0117775	68.70327	.6488975
#3	.0464248	-.037402	.1033248	.0688159	.0126850	68.28015	.6473547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107750	.0032172	476.1992	.1003373	.0723160	.1228642	171.8166
Stddev	.0003236	.0001417	2.2364	.0005503	.0011373	.0008670	1.4681
%RSD	3.003462	4.403231	.4696250	.5484548	1.572725	.7056656	.8544372
#1	.0111477	.0032242	478.7129	.1003341	.0716873	.1223529	173.4226
#2	.0106115	.0030721	475.4543	.0997887	.0716318	.1223745	171.4835
#3	.0105657	.0033552	474.4303	.1008893	.0736289	.1238653	170.5437

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.779646	116.5093	.2118175	-.000709	.9648184	.1534198	.3544020
Stddev	.046147	.9652	.0004227	.000911	.0206730	.0066173	.0009839
%RSD	.6806638	.8284281	.1995331	128.4715	2.142683	4.313220	.2776081
#1	6.822901	117.4213	.2114299	.000312	.9886679	.1587072	.3549921
#2	6.784966	116.6080	.2122681	-.000999	.9520136	.1555534	.3532662
#3	6.731069	115.4985	.2117545	-.001440	.9537738	.1459989	.3549477

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.660318	7.013817	.0822888	.0048179	.6336580	9.664723	.0224794
Stddev	.085149	.005184	.0020148	.0004839	.0092759	.065987	.0022889
%RSD	1.111564	.0739078	2.448485	10.04334	1.463872	.6827626	10.18243
#1	7.617753	7.013987	.0809144	.0047725	.6418948	9.711285	.0218848
#2	7.758358	7.008550	.0846017	.0053230	.6236101	9.693674	.0250069
#3	7.604845	7.018913	.0813504	.0043584	.6354692	9.589209	.0205464

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-19 Acquired: 12/29/2024 4:38:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.384952	.4623062	.1252917
Stddev	.003130	.0021387	.0016704
%RSD	.2260044	.4626243	1.333201
#1	1.384228	.4643249	.1238012
#2	1.388381	.4600649	.1270971
#3	1.382248	.4625287	.1249768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.916	29895.18	2311.176	1508.863	1714.034
Stddev	4.904	110.90	10.962	5.784	5.450
%RSD	.2078858	.3709718	.4743245	.3833449	.3179495
#1	2356.478	30012.16	2303.474	1506.878	1711.622
#2	2355.709	29791.56	2306.328	1504.334	1710.206
#3	2364.561	29881.83	2323.727	1515.379	1720.273

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-20 Acquired: 12/29/2024 4:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0724122	-.033769	.1054803	.0627528	.0120612	75.87354	.6255160
Stddev	.0046811	.007321	.0011720	.0009726	.0051711	.31810	.0030989
%RSD	6.464464	21.68102	1.111107	1.549858	42.87344	.4192559	.4954190
#1	.0760739	-.025594	.1067045	.0638736	.0093652	75.51673	.6222653
#2	.0671380	-.039722	.1043686	.0622540	.0087953	75.97643	.6284368
#3	.0740246	-.035990	.1053678	.0621308	.0180231	76.12747	.6258458

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109637	.0032577	522.8859	.1081465	.0797165	.1324544	170.5290
Stddev	.0001198	.0000695	2.3353	.0001589	.0004400	.0055867	.4453
%RSD	1.092462	2.134068	.4466119	.1469169	.5519012	4.217797	.2611154
#1	.0110976	.0031991	520.1977	.1079794	.0799554	.1260136	170.0238
#2	.0109266	.0033345	524.0464	.1081646	.0799854	.1353615	170.8644
#3	.0108668	.0032394	524.4135	.1082956	.0792088	.1359880	170.6987

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.688083	111.8324	.2219985	-.000351	1.104716	.1694384	.3778453
Stddev	.014203	.3774	.0016169	.000723	.012153	.0133004	.0038207
%RSD	.2497047	.3374949	.7283544	205.7291	1.100141	7.849694	1.011182
#1	5.671698	111.4009	.2225442	-.001172	1.111731	.1837477	.3816390
#2	5.695653	112.1011	.2201793	.000189	1.111734	.1671140	.3739981
#3	5.696899	111.9953	.2232720	-.000070	1.090682	.1574533	.3778987

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.928358	7.214936	.0788930	.0040785	.6788246	11.49171	.0213699
Stddev	.058778	.014038	.0006993	.0006500	.0029434	.01200	.0015783
%RSD	.7413611	.1945699	.8864559	15.93649	.4336013	.1044063	7.385415
#1	7.949477	7.219402	.0792068	.0037386	.6754346	11.50280	.0199014
#2	7.861939	7.199208	.0793804	.0048280	.6807305	11.49336	.0211695
#3	7.973658	7.226197	.0780917	.0036690	.6803088	11.47897	.0230388

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-20 Acquired: 12/29/2024 4:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.415946	.5378416	.1428535
Stddev	.006649	.0019916	.0054720
%RSD	.4695824	.3702934	3.830507
#1	1.408924	.5362579	.1365651
#2	1.416768	.5371894	.1454637
#3	1.422146	.5400776	.1465317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2368.717	30019.89	2304.959	1505.218	1697.855
Stddev	3.316	113.08	8.581	8.640	2.501
%RSD	.1399955	.3766906	.3722977	.5740118	.1472848
#1	2364.975	30129.19	2313.968	1505.318	1695.012
#2	2369.881	30027.11	2304.028	1513.809	1699.716
#3	2371.293	29903.37	2296.881	1496.529	1698.835

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-21 Acquired: 12/29/2024 4:45:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0642520	-.038594	.1088591	.0615444	.0152514	76.24008	.6115035
Stddev	.0033776	.002151	.0034386	.0070675	.0049924	1.06422	.0100661
%RSD	5.256850	5.572937	3.158802	11.48360	32.73392	1.395883	1.646120
#1	.0678584	-.039711	.1124733	.0636290	.0200660	77.46791	.6231181
#2	.0611627	-.039956	.1056281	.0536691	.0155896	75.58253	.6053063
#3	.0637350	-.036114	.1084760	.0673352	.0100985	75.66981	.6060861

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112873	.0029838	470.5185	.1060905	.0753433	.1343531	176.1622
Stddev	.0002240	.0000388	6.3724	.0008597	.0009235	.0081726	2.4848
%RSD	1.984096	1.301685	1.354328	.8103058	1.225765	6.082890	1.410534
#1	.0114206	.0029483	477.8708	.1052722	.0744109	.1347610	179.0254
#2	.0114126	.0029779	466.5872	.1060132	.0753614	.1259843	174.8921
#3	.0110288	.0030253	467.0975	.1069863	.0762577	.1423141	174.5691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.976421	108.8903	.2106136	.0003180	1.006285	.1682757	.3709866
Stddev	.072057	1.4973	.0006544	.0004179	.023920	.0155200	.0014565
%RSD	1.447963	1.375060	.3107157	131.4104	2.377076	9.222949	.3926133
#1	5.059080	110.6192	.2098877	-.000126	1.021568	.1861888	.3697695
#2	4.943330	108.0126	.2111585	.000376	.978718	.1597776	.3726004
#3	4.926854	108.0392	.2107945	.000704	1.018568	.1588607	.3705899

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.867604	7.087870	.0846486	.0035420	.6151418	10.86465	.0236371
Stddev	.052615	.016257	.0019083	.0002920	.0106728	.10189	.0033929
%RSD	.5933420	.2293602	2.254339	8.244157	1.735022	.9378552	14.35407
#1	8.896503	7.081324	.0867373	.0032225	.6211925	10.97618	.0240533
#2	8.899437	7.075907	.0829964	.0036084	.6028185	10.84134	.0200553
#3	8.806873	7.106380	.0842121	.0037950	.6214142	10.77642	.0268027

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-21 Acquired: 12/29/2024 4:45:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.527053	.4855971	.1390509
Stddev	.023549	.0068092	.0032910
%RSD	1.542088	1.402236	2.366791
#1	1.554243	.4932898	.1406639
#2	1.513665	.4803427	.1412243
#3	1.513250	.4831589	.1352645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.527	29614.99	2250.526	1490.243	1675.068
Stddev	5.411	16.65	20.934	4.130	4.033
%RSD	.2330973	.0562279	.9301622	.2771483	.2407876
#1	2326.883	29608.73	2226.355	1494.981	1676.881
#2	2321.636	29633.86	2262.405	1488.342	1677.877
#3	2316.062	29602.37	2262.817	1487.405	1670.447

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-22 Acquired: 12/29/2024 4:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1944030	-.112282	.5129073	.1644619	.0525250	102.4335	.6864725
Stddev	.0039509	.004957	.0016543	.0041641	.0017293	1.2205	.0102891
%RSD	2.032310	4.414797	.3225292	2.531970	3.292379	1.191509	1.498838
#1	.1898578	-.117967	.5141877	.1682632	.0530843	102.9960	.6910496
#2	.1963358	-.110013	.5134947	.1651113	.0539054	103.2712	.6936789
#3	.1970154	-.108866	.5110395	.1600112	.0505852	101.0332	.6746891

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168369	.0055559	23.37630	.1417435	.0479116	.2646732	268.1891
Stddev	.0001105	.0001990	.32412	.0004944	.0006091	.0016636	3.2117
%RSD	.6560025	3.582224	1.386531	.3488004	1.271307	.6285605	1.197569
#1	.0167791	.0057332	23.49846	.1419368	.0476145	.2665494	269.2974
#2	.0167674	.0053406	23.62160	.1411816	.0475080	.2633779	270.6999
#3	.0169643	.0055937	23.00886	.1421120	.0486122	.2640922	264.5700

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.06980	25.09844	.1883135	.0020532	5.880561	.2417812	.7685598
Stddev	.21417	.27102	.0004784	.0003308	.040664	.0078406	.0026378
%RSD	1.254676	1.079840	.2540278	16.11036	.6914911	3.242847	.3432151
#1	17.16212	25.14844	.1882857	.0023046	5.881338	.2327964	.7715918
#2	17.22234	25.34099	.1888051	.0016785	5.920831	.2453086	.7672952
#3	16.82496	24.80590	.1878496	.0021766	5.839515	.2472384	.7667923

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.681827	2.961106	.1110181	.0052198	2.724458	11.15226	.0320802
Stddev	.185408	.004641	.0038870	.0007319	.016652	.06566	.0012473
%RSD	2.135584	.1567338	3.501251	14.02136	.6112112	.5887251	3.888089
#1	8.633727	2.959934	.1128156	.0060381	2.706418	11.09714	.0307447
#2	8.886544	2.966220	.1136811	.0046278	2.739241	11.22490	.0322808
#3	8.525209	2.957163	.1065577	.0049936	2.727714	11.13473	.0332150

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-22 Acquired: 12/29/2024 4:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.206880	-.164106	.0985085
Stddev	.009829	.001886	.0054334
%RSD	.8144336	1.149086	5.515664
#1	1.204825	-.164518	.0991625
#2	1.217574	-.165753	.1035853
#3	1.198240	-.162049	.0927777

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2559.142	32294.55	2432.948	1647.047	1828.019
Stddev	2.833	158.92	18.868	5.990	2.056
%RSD	.1106924	.4921025	.7755062	.3636899	.1124805
#1	2557.459	32154.26	2441.292	1641.450	1829.185
#2	2557.555	32262.24	2411.347	1646.325	1825.645
#3	2562.413	32467.14	2446.206	1653.365	1829.227

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-01 Acquired: 12/29/2024 4:53:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1203315	-.033670	2.951218	.0638859	.0192583	51.90131
Stddev	.0018297	.001155	.007720	.0022265	.0062623	.17109
%RSD	1.520562	3.429217	.2615823	3.485187	32.51762	.3296374
#1	.1208893	-.032442	2.943399	.0645351	.0264487	52.02343
#2	.1182878	-.034733	2.951420	.0657157	.0149995	51.70577
#3	.1218174	-.033836	2.958834	.0614069	.0163266	51.97474

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.400620	.0110157	.0065634	59.67670	.1200074	.0533817
Stddev	.007707	.0002101	.0000811	.09764	.0013959	.0008209
%RSD	.5502642	1.907145	1.236044	.1636174	1.163214	1.537862
#1	1.409272	.0112472	.0066527	59.57078	.1205649	.0524849
#2	1.394490	.0109626	.0064943	59.69620	.1210385	.0540961
#3	1.398099	.0108372	.0065431	59.76312	.1184189	.0535642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3540095	124.4942	6.356625	13.62088	.1700882	.0033304
Stddev	.0009004	.2933	.032436	.17127	.0003520	.0009782
%RSD	.2543411	.2355757	.5102708	1.257421	.2069577	29.37221
#1	.3541975	124.8114	6.393368	13.81588	.1702331	.0039262
#2	.3548011	124.2329	6.331962	13.55194	.1703446	.0038635
#3	.3530300	124.4385	6.344547	13.49482	.1696868	.0022014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6784071	.1558154	1.674464	7.360749	F 14.40303	.0868605
Stddev	.0288623	.0144694	.010538	.025274	.04347	.0022256
%RSD	4.254428	9.286241	.6293093	.3433552	.3018367	2.562277
#1	.6900422	.1441986	1.666187	7.366819	14.36287	.0844589
#2	.6455432	.1512242	1.686327	7.332993	14.39703	.0872692
#3	.6996359	.1720234	1.670879	7.382435	14.44920	.0888534

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-01 Acquired: 12/29/2024 4:53:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK55 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132857	6.773430	9.395986	.1066163	.7826686	.2343045
Stddev	.0003052	.015608	.071281	.0006609	.0015636	.0002843
%RSD	2.297009	.2304289	.7586299	.6198629	.1997733	.1213220
#1	.0133236	6.778493	9.457056	.1069758	.7841681	.2341797
#2	.0129633	6.755919	9.413240	.1070196	.7827895	.2346299
#3	.0135701	6.785877	9.317662	.1058536	.7810480	.2341041

Elem	Li6707
Units	ppm
Avg	.0600578
Stddev	.0013005
%RSD	2.165492
#1	.0594525
#2	.0591702
#3	.0615506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2417.794	30538.68	2293.448	1545.611	1901.394
Stddev	5.076	149.06	16.760	5.832	5.447
%RSD	.2099611	.4881049	.7307591	.3773401	.2864914
#1	2419.666	30657.33	2274.109	1551.879	1902.941
#2	2421.669	30587.33	2302.502	1544.611	1905.901
#3	2412.048	30371.37	2303.733	1540.344	1895.341

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-02 Acquired: 12/29/2024 4:57:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2185459	-.047100	1.452741	.0726354	.0188287	57.30974
Stddev	.0070356	.003659	.005803	.0042157	.0030183	.13050
%RSD	3.219287	7.767850	.3994322	5.803915	16.03041	.2277098
#1	.2201904	-.050934	1.448609	.0767190	.0194724	57.16082
#2	.2108336	-.043647	1.459375	.0682990	.0214732	57.36426
#3	.2246135	-.046720	1.450240	.0728882	.0155404	57.40413

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8182015	.0180885	.0042881	57.93315	.0898572	.0462247
Stddev	.0018089	.0001044	.0000611	.11423	.0005981	.0003771
%RSD	.2210881	.5771829	1.425625	.1971834	.6655620	.8158112
#1	.8174214	.0179695	.0042992	57.80129	.0899730	.0457936
#2	.8169134	.0181646	.0042222	58.00231	.0892097	.0463868
#3	.8202696	.0181314	.0043429	57.99584	.0903889	.0464936

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2594478	136.9527	2.953999	6.507321	.1384212	.0012379
Stddev	.0060386	.4458	.006378	.065381	.0001794	.0006142
%RSD	2.327494	.3255239	.2158943	1.004725	.1295936	49.61836
#1	.2526003	136.6258	2.947886	6.435413	.1386283	.0007806
#2	.2617318	136.7718	2.960612	6.523358	.1383189	.0019360
#3	.2640114	137.4605	2.953499	6.563190	.1383164	.0009970

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.153353	.1616417	.8787042	5.207971	F 10.71831	.0981164
Stddev	.016282	.0157988	.0054940	.045141	.01607	.0017937
%RSD	1.411735	9.773965	.6252348	.8667730	.1498989	1.828099
#1	1.159144	.1698905	.8849906	5.251636	10.70969	.1000540
#2	1.134967	.1434258	.8748234	5.210791	10.70839	.0977811
#3	1.165948	.1716087	.8762985	5.161486	10.73684	.0965140

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-02 Acquired: 12/29/2024 4:57:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156102	6.820837	7.076286	.0654933	1.661463	.2536752
Stddev	.0005151	.008384	.026583	.0002979	.015396	.0006655
%RSD	3.299572	.1229199	.3756689	.4547864	.9266491	.2623563
#1	.0161981	6.818074	7.057967	.0656533	1.663804	.2529199
#2	.0152383	6.830254	7.106776	.0656769	1.645031	.2541757
#3	.0153942	6.814183	7.064115	.0651497	1.675555	.2539299

Elem	Li6707
Units	ppm
Avg	.0403608
Stddev	.0032395
%RSD	8.026437
#1	.0409035
#2	.0368842
#3	.0432948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.583	29478.00	2169.550	1494.649	1895.190
Stddev	12.024	140.91	6.603	12.194	7.066
%RSD	.5159080	.4780242	.3043502	.8158169	.3728346
#1	2343.769	29322.37	2164.614	1480.579	1903.071
#2	2327.750	29596.93	2166.985	1501.224	1893.077
#3	2320.228	29514.70	2177.051	1502.143	1889.421

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-03 Acquired: 12/29/2024 5:01:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1170559	-.037778	5.413705	.0581468	.0113717	73.30417
Stddev	.0043561	.003853	.009369	.0038379	.0010079	.30592
%RSD	3.721342	10.19812	.1730611	6.600422	8.863453	.4173237
#1	.1220718	-.033952	5.417337	.0537328	.0103789	72.97683
#2	.1148726	-.041657	5.403064	.0606963	.0113421	73.58281
#3	.1142232	-.037726	5.420714	.0600113	.0123941	73.35289

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042836	.0124499	.0058805	69.62234	.1443344	.0847534
Stddev	.007751	.0002310	.0001315	.23939	.0020041	.0002115
%RSD	.3794076	1.855362	2.236073	.3438383	1.388507	.2495537
#1	2.035819	.0122595	.0060310	69.39506	.1450676	.0848612
#2	2.051155	.0123832	.0058229	69.87223	.1420670	.0845098
#3	2.041533	.0127068	.0057877	69.59972	.1458687	.0848894

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4430799	119.6022	5.032908	9.850656	.1962281	.0007224
Stddev	.0090581	.5675	.009903	.180829	.0011467	.0002073
%RSD	2.044340	.4744564	.1967592	1.835701	.5843663	28.68779
#1	.4489870	119.0746	5.022799	9.661555	.1974997	.0009499
#2	.4326512	120.2025	5.042591	9.868529	.1959118	.0005443
#3	.4476015	119.5295	5.033334	10.02188	.1952728	.0006731

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.820482	.2252634	2.490431	11.70138	F 22.92082	.1100280
Stddev	.011938	.0079969	.003702	.11578	.06637	.0017893
%RSD	.4232569	3.550019	.1486509	.9894156	.2895532	1.626220
#1	2.811448	.2226985	2.492647	11.59119	22.99540	.1111087
#2	2.815983	.2188637	2.486158	11.82203	22.86826	.1079626
#3	2.834016	.2342281	2.492490	11.69091	22.89881	.1110127

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-03 Acquired: 12/29/2024 5:01:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK57 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162913	3.197374	9.328454	.1243163	1.397132	.7462087
Stddev	.0011092	.006037	.015961	.0032164	.001849	.0040554
%RSD	6.808461	.1888144	.1711017	2.587238	.1323689	.5434733
#1	.0169701	3.201042	9.342547	.1277022	1.396659	.7415436
#2	.0168924	3.190407	9.331693	.1213017	1.395566	.7481884
#3	.0150113	3.200675	9.311122	.1239450	1.399172	.7488940

Elem	Li6707
Units	ppm
Avg	.0965796
Stddev	.0037489
%RSD	3.881688
#1	.0923151
#2	.0993561
#3	.0980677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2399.926	30181.33	2261.393	1528.879	1861.098
Stddev	5.702	63.31	9.721	6.744	3.529
%RSD	.2375759	.2097815	.4298630	.4411287	.1896227
#1	2400.162	30118.32	2266.499	1528.058	1858.718
#2	2394.110	30180.74	2250.183	1522.582	1859.423
#3	2405.506	30244.95	2267.497	1535.996	1865.152

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/29/2024 5:05:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.056951	4.828862	24.69422	5.103009	4.993810	407.1872	10.06755
Stddev	.018447	.019821	.02868	.010365	.009683	12.8825	.31862
%RSD	.3647931	.4104630	.1161276	.2031160	.1939091	3.163775	3.164812
#1	5.061545	4.850931	24.66111	5.092245	4.982629	392.3517	9.70123
#2	5.036641	4.823080	24.71139	5.103857	4.999382	415.5483	10.28035
#3	5.072667	4.812575	24.71016	5.112923	4.999421	413.6617	10.22106

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5133500	2.486667	403.1379	15.57269	2.409872	14.85081	408.7950
Stddev	.0150065	.001914	12.3080	.05954	.004832	.40200	13.0313
%RSD	2.923251	.0769609	3.053044	.3823658	.2005094	2.706938	3.187734
#1	.4960263	2.484460	388.9290	15.53322	2.415446	14.38682	393.7663
#2	.5216771	2.487868	410.4991	15.64118	2.407279	15.09475	416.9571
#3	.5223467	2.487673	409.9857	15.54367	2.406889	15.07086	415.6615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.72101	403.4109	2.508948	1.289991	424.0965	2.490280	15.21644
Stddev	.46947	12.0758	.005046	.006012	15.0405	.081834	.01728
%RSD	3.189128	2.993424	.2011212	.4660569	3.546479	3.286148	.1135605
#1	14.18087	389.5333	2.503288	1.283712	406.7293	2.396569	15.20385
#2	15.03098	411.5260	2.510580	1.295695	432.7859	2.547649	15.20933
#3	14.95118	409.1734	2.512976	1.290566	432.7744	2.526622	15.23614

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.0092	5.005879	4.967473	5.017898	5.055999	4.847656	5.026952
Stddev	4.6260	.017359	.155170	.009168	.019859	.151004	.007734
%RSD	3.043249	.3467746	3.123721	.1826986	.3927848	3.114993	.1538411
#1	146.6693	4.987049	4.788441	5.013551	5.035960	4.674966	5.018196
#2	154.5610	5.009341	5.050804	5.028431	5.056365	4.913121	5.029813
#3	154.7974	5.021246	5.063174	5.011713	5.075673	4.954880	5.032847

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/29/2024 5:05:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.993908	4.673709	5.153885
Stddev	.159098	.140527	.160901
%RSD	3.185838	3.006752	3.121934
#1	4.812934	4.511443	4.970110
#2	5.111752	4.755082	5.269414
#3	5.057039	4.754602	5.222133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.249	23294.88	1902.220	1127.113	1533.096
Stddev	8.304	221.84	56.136	6.329	4.899
%RSD	.4609978	.9522972	2.951073	.5615662	.3195801
#1	1804.522	23288.49	1966.198	1124.300	1535.587
#2	1791.808	23076.31	1861.214	1122.678	1527.451
#3	1807.418	23519.84	1879.247	1134.362	1536.249

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/29/2024 5:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000194	.0021408	.0036185	-.000328	.0012870	-.032376	-.000661
Stddev	.002662	.0028440	.0012644	.001206	.0033195	.013417	.002654
%RSD	1368.860	132.8488	34.94258	367.5297	257.9299	41.44013	401.7544
#1	-.002690	-.000179	.0023379	-.001090	-.000616	-.019617	.002400
#2	.002608	.001288	.0048660	.001062	.005120	-.031146	-.002324
#3	-.000501	.005314	.0036517	-.000956	-.000643	-.046366	-.002057

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000035	.0000600	-.016627	.0012289	.0006355	-.007345	.0121232
Stddev	.0001575	.0001947	.029098	.0002744	.0003421	.004080	.0286398
%RSD	4501.329	324.6856	175.0016	22.33143	53.82727	55.54848	236.2391
#1	.0001769	.0002842	-.049258	.0009674	.0010162	-.006335	.0214939
#2	-.000036	-.000038	.006622	.0012048	.0005364	-.011835	.0349039
#3	-.000131	-.000066	-.007245	.0015147	.0003539	-.003865	-.020028

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000671	-.043895	.0001036	-.000107	.0410313	-.010813	.0021656
Stddev	.001266	.130282	.0003883	.000881	.0334081	.010498	.0004018
%RSD	188.7648	296.8050	374.8032	822.1767	81.42087	97.08669	18.55372
#1	-.000474	-.082569	-.000264	-.000956	.0279031	-.006247	.0025521
#2	-.002023	-.150461	.000066	.000802	.0161815	-.022820	.0017501
#3	.000485	.101345	.000510	-.000168	.0790094	-.003371	.0021944

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1909806	.0003166	.0092393	.0003305	.0100498	.0004734	.0001158
Stddev	.0410113	.0001885	.0016893	.0003196	.0017944	.0019929	.0007499
%RSD	21.47404	59.54476	18.28347	96.71301	17.85481	420.9915	647.4018
#1	.1959581	.0001586	.0111069	-.000017	.0120887	.0010686	.0009175
#2	.2292760	.0002660	.0087931	.000612	.0087109	.0021008	-.000001
#3	.1477078	.0005253	.0078180	.000396	.0093498	-.001749	-.000569

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/29/2024 5:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0024778	.0000257	.0139934
Stddev	.0031536	.0003609	.0027727
%RSD	127.2715	1402.266	19.81428
#1	.0014507	-.000222	.0171879
#2	.0060169	-.000140	.0122111
#3	-.000034	.000440	.0125813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2030.918	25929.85	1941.774	1310.178	1847.171
Stddev	7.408	186.96	8.078	8.815	4.096
%RSD	.3647575	.7210241	.4159982	.6728421	.2217419
#1	2028.683	25721.29	1940.598	1300.070	1846.282
#2	2039.186	26082.43	1950.375	1314.195	1851.638
#3	2024.885	25985.82	1934.348	1316.270	1843.593

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-04 Acquired: 12/29/2024 5:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1572303	-.019180	6.265091	.0661949	.0032191	63.45867
Stddev	.0032365	.000912	.018779	.0056065	.0020726	.19306
%RSD	2.058460	4.756089	.2997341	8.469651	64.38537	.3042275
#1	.1558006	-.018177	6.261545	.0626975	.0054481	63.32468
#2	.1549548	-.019404	6.248338	.0726615	.0013502	63.37137
#3	.1609354	-.019960	6.285390	.0632257	.0028588	63.67996

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.450185	.0107263	.0080924	166.7085	.1016622	.0843734
Stddev	.003398	.0002624	.0001868	.8352	.0014615	.0003609
%RSD	.2342894	2.446589	2.308338	.5009972	1.437628	.4276818
#1	1.451494	.0104717	.0080732	165.9584	.1032070	.0847636
#2	1.446328	.0107112	.0079159	166.5587	.1014781	.0840517
#3	1.452734	.0109959	.0082880	167.6085	.1003014	.0843050

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3178374	134.1838	12.53337	27.42689	.1618071	.0018547
Stddev	.0067352	.5112	.04932	.22787	.0007254	.0011198
%RSD	2.119079	.3809407	.3934772	.8308154	.4483397	60.37522
#1	.3229860	133.8321	12.53671	27.43842	.1610428	.0016799
#2	.3203110	133.9492	12.48247	27.19348	.1618922	.0030517
#3	.3102151	134.7702	12.58093	27.64878	.1624862	.0008326

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.113173	.2335577	2.816606	7.250864	F 15.52829	.0888808
Stddev	.008076	.0090464	.006525	.209203	.06002	.0019043
%RSD	.7255192	3.873290	.2316775	2.885217	.3865461	2.142519
#1	1.119078	.2439927	2.822074	7.424288	15.53029	.0869765
#2	1.103969	.2279281	2.818361	7.018519	15.46730	.0888808
#3	1.116471	.2287523	2.809382	7.309785	15.58730	.0907851

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-04 Acquired: 12/29/2024 5:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK58 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186413	1.981848	11.27908	.1209999	.6544848	.4274745
Stddev	.0002129	.019442	.06997	.0022608	.0026438	.0027994
%RSD	1.142137	.9810120	.6203123	1.868458	.4039487	.6548771
#1	.0186267	1.959660	11.32568	.1206890	.6549913	.4246160
#2	.0184360	1.989980	11.19862	.1189106	.6568387	.4275964
#3	.0188611	1.995904	11.31293	.1234001	.6516244	.4302109

Elem	Li6707
Units	ppm
Avg	.1087855
Stddev	.0027899
%RSD	2.564567
#1	.1091016
#2	.1114039
#3	.1058510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.606	32126.76	2475.724	1625.590	1853.057
Stddev	3.717	168.81	22.310	3.984	2.463
%RSD	.1457954	.5254636	.9011515	.2450969	.1329297
#1	2546.640	32315.43	2477.485	1629.188	1853.269
#2	2548.402	32074.85	2497.102	1626.273	1855.408
#3	2553.776	31989.99	2452.586	1621.308	1850.495

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-05 Acquired: 12/29/2024 5:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1638386	-.024153	1.512361	.0943485	.0184473	45.76731
Stddev	.0064817	.001564	.004187	.0042732	.0035732	.75356
%RSD	3.956179	6.473418	.2768632	4.529152	19.36958	1.646502
#1	.1675133	-.022807	1.508210	.0899591	.0186463	44.89745
#2	.1563545	-.025868	1.512289	.0984952	.0219168	46.22138
#3	.1676480	-.023786	1.516583	.0945912	.0147788	46.18308

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8001774	.0120027	.0076282	F 884.1817	.0747941	.0672236
Stddev	.0125139	.0002734	.0002290	14.3850	.0002708	.0012240
%RSD	1.563891	2.277664	3.002051	1.626926	.3620189	1.820849
#1	.7857278	.0117005	.0078051	867.5802	.0751059	.0683539
#2	.8073322	.0120749	.0077101	892.9536	.0746584	.0659235
#3	.8074722	.0122328	.0073696	892.0112	.0746181	.0673933

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2336591	213.5416	20.44726	203.0806	.1624312	.0019806
Stddev	.0048273	3.5949	.31974	3.1917	.0006156	.0009881
%RSD	2.065953	1.683457	1.563711	1.571654	.3789673	49.89161
#1	.2350536	209.3907	20.07822	199.4140	.1618646	.0012741
#2	.2376356	215.5888	20.62258	204.5912	.1630862	.0015579
#3	.2282880	215.6453	20.64100	205.2366	.1623428	.0031097

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9590301	.1824983	1.374430	7.007059	F 12.74690	.1157691
Stddev	.0084264	.0069335	.004934	.237987	.03414	.0003181
%RSD	.8786327	3.799231	.3589615	3.396396	.2678550	.2747261
#1	.9498321	.1745463	1.376676	6.745114	12.72099	.1154908
#2	.9663769	.1856697	1.368773	7.066084	12.73412	.1157007
#3	.9608812	.1872790	1.377841	7.209979	12.78559	.1161158

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-05 Acquired: 12/29/2024 5:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156842	1.851003	10.22808	.0879497	.4368058	.4988144
Stddev	.0008768	.002817	.14672	.0019589	.0089617	.0082195
%RSD	5.590529	.1521765	1.434521	2.227257	2.051636	1.647813
#1	.0154338	1.850600	10.06633	.0890322	.4265526	.4893931
#2	.0149599	1.854000	10.26528	.0891284	.4407215	.5045199
#3	.0166590	1.848410	10.35262	.0856885	.4431432	.5025303

Elem	Li6707
Units	ppm
Avg	.0864391
Stddev	.0023110
%RSD	2.673546
#1	.0838084
#2	.0873666
#3	.0881423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.950	29820.48	2411.441	1499.586	1594.595
Stddev	5.382	70.95	35.763	2.223	3.380
%RSD	.2281592	.2379278	1.483067	.1482201	.2119439
#1	2364.136	29900.37	2450.873	1500.598	1597.127
#2	2359.321	29764.82	2402.345	1501.121	1595.901
#3	2353.391	29796.24	2381.103	1497.037	1590.758

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-06 Acquired: 12/29/2024 5:20:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0915716	-.010986	.2832068	.1148974	.0173646	32.13985
Stddev	.0029074	.003032	.0028852	.0025624	.0034212	.10699
%RSD	3.174990	27.60208	1.018756	2.230186	19.70206	.3328812
#1	.0942988	-.012609	.2854917	.1169426	.0162253	32.24645
#2	.0919036	-.012862	.2799647	.1157266	.0212101	32.14063
#3	.0885125	-.007488	.2841641	.1120231	.0146585	32.03248

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6830659	.0116551	.0063961	F 1280.607	.0584384	.0596534
Stddev	.0019971	.0000803	.0001797	17.145	.0013118	.0004290
%RSD	.2923776	.6888433	2.809390	1.338823	2.244689	.7190947
#1	.6853652	.0116985	.0062694	1299.837	.0569243	.0597257
#2	.6817630	.0117043	.0066017	1266.918	.0591595	.0591928
#3	.6820695	.0115624	.0063171	1275.065	.0592314	.0600416

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1408047	240.2684	F 35.74600	451.5832	.1413762	.0037222
Stddev	.0028689	1.0899	.13212	1.5789	.0008920	.0007976
%RSD	2.037536	.4536305	.3696201	.3496271	.6309227	21.42909
#1	.1384378	241.4311	35.89820	453.2904	.1413694	.0036192
#2	.1399807	240.1040	35.66083	451.2836	.1404876	.0029811
#3	.1439954	239.2700	35.67896	450.1756	.1422715	.0045664

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.010627	.1292359	.3094582	6.479365	F 10.30781	.1397762
Stddev	.053254	.0045883	.0003535	.106910	.00933	.0015941
%RSD	5.269368	3.550352	.1142445	1.650009	.0904771	1.140450
#1	1.053225	.1299803	.3092977	6.598712	10.29829	.1406093
#2	1.027734	.1334066	.3098635	6.447022	10.30821	.1379382
#3	.950923	.1243209	.3092134	6.392361	10.31693	.1407811

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-06 Acquired: 12/29/2024 5:20:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124640	2.024179	7.578079	.0404311	.1452891	.5972928
Stddev	.0007770	.020259	.076959	.0018807	.0029389	.0027590
%RSD	6.233721	1.000839	1.015552	4.651503	2.022779	.4619158
#1	.0115668	2.043852	7.634587	.0424390	.1469831	.6001720
#2	.0129159	2.025305	7.609221	.0401434	.1418956	.5946722
#3	.0129093	2.003381	7.490429	.0387109	.1469886	.5970342

Elem	Li6707
Units	ppm
Avg	.0620298
Stddev	.0037694
%RSD	6.076730
#1	.0658606
#2	.0583250
#3	.0619038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.372	29879.00	2455.433	1495.673	1517.876
Stddev	9.108	144.31	15.623	4.947	4.983
%RSD	.3878225	.4829929	.6362813	.3307610	.3282775
#1	2356.026	30045.08	2447.707	1500.150	1521.734
#2	2338.300	29807.81	2445.177	1496.506	1512.250
#3	2350.792	29784.12	2473.414	1490.362	1519.644

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-07 Acquired: 12/29/2024 5:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0561294	-.004241	.2888609	.0351825	-.003683	50.48175
Stddev	.0037445	.007384	.0041454	.0034701	.000817	.10900
%RSD	6.671243	174.1083	1.435071	9.863262	22.18304	.2159254
#1	.0526111	-.005407	.2897051	.0314787	-.004590	50.39015
#2	.0600651	.003656	.2925192	.0357102	-.003004	50.45279
#3	.0557119	-.010972	.2843584	.0383585	-.003455	50.60231

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2911388	.0087156	.0041255	F 836.4036	.0709979	.0787440
Stddev	.0003877	.0000705	.0001609	2.0632	.0003740	.0004463
%RSD	.1331580	.8084076	3.901189	.2466692	.5267139	.5667911
#1	.2915156	.0087692	.0040494	834.5244	.0710724	.0783429
#2	.2907411	.0086358	.0040167	836.0751	.0713290	.0792248
#3	.2911597	.0087419	.0043103	838.6113	.0705923	.0786642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2524907	133.6679	9.381941	141.8542	.1467043	.0000256
Stddev	.0003468	.4555	.014389	.2909	.0012968	.0007413
%RSD	.1373325	.3407455	.1533713	.2050451	.8839665	2894.422
#1	.2522106	133.1423	9.365794	141.7296	.1481912	.0008111
#2	.2528785	133.9140	9.393405	141.6465	.1458070	-.000662
#3	.2523830	133.9474	9.386624	142.1867	.1461148	-.000073

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007085	.0961067	.4403763	8.568378	F 10.65091	.0937422
Stddev	.034806	.0096670	.0021097	.112395	.00801	.0011806
%RSD	3.456155	10.05858	.4790775	1.311741	.0751581	1.259430
#1	.996496	.0871421	.4405419	8.441632	10.65715	.0923793
#2	.978802	.0948290	.4381887	8.607582	10.65371	.0944004
#3	1.045956	.1063490	.4423984	8.655920	10.64189	.0944471

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-07 Acquired: 12/29/2024 5:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028357	1.351829	9.833291	.0260086	.4503707	.6284078
Stddev	.0007529	.006871	.076473	.0026560	.0035477	.0024503
%RSD	26.55130	.5082573	.7776960	10.21190	.7877370	.3899211
#1	.0035351	1.358529	9.753196	.0270333	.4469284	.6263037
#2	.0029332	1.352160	9.841138	.0229929	.4540152	.6278217
#3	.0020388	1.344799	9.905538	.0279996	.4501686	.6310980

Elem	Li6707
Units	ppm
Avg	.0996048
Stddev	.0023199
%RSD	2.329051
#1	.0998426
#2	.1017967
#3	.0971753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2349.726	29747.23	2363.390	1498.670	1615.259
Stddev	9.102	66.32	16.508	1.148	4.329
%RSD	.3873641	.2229307	.6985036	.0765802	.2680189
#1	2341.801	29670.68	2379.995	1497.506	1611.371
#2	2347.710	29787.28	2363.195	1499.800	1614.482
#3	2359.667	29783.72	2346.980	1498.703	1619.924

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-08 Acquired: 12/29/2024 5:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK62 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1772098	-.045127	1.574243	.0784852	.0203878	67.71674
Stddev	.0076769	.000612	.004154	.0020144	.0031375	.02784
%RSD	4.332113	1.355244	.2638795	2.566600	15.38902	.0411137
#1	.1857953	-.045452	1.573599	.0805366	.0169396	67.74889
#2	.1748282	-.044421	1.578682	.0765100	.0230743	67.70064
#3	.1710059	-.045507	1.570449	.0784090	.0211496	67.70069

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.248714	.0114954	.0072026	89.57283	.2345846	.0427162
Stddev	.002347	.0001026	.0002287	.20775	.0021903	.0007781
%RSD	.1879136	.8928339	3.174554	.2319319	.9336756	1.821464
#1	1.251423	.0115808	.0069607	89.77917	.2368318	.0419735
#2	1.247409	.0115240	.0074151	89.36370	.2344658	.0435254
#3	1.247310	.0113815	.0072321	89.57563	.2324561	.0426496

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3174107	160.3848	7.932107	27.97843	.1942259	.0031282
Stddev	.0035020	.2650	.014604	.15244	.0008507	.0006152
%RSD	1.103305	.1652180	.1841183	.5448617	.4379708	19.66553
#1	.3197968	160.5573	7.947157	28.15156	.1950366	.0027788
#2	.3190450	160.0797	7.917993	27.91939	.1933403	.0027673
#3	.3133903	160.5173	7.931171	27.86433	.1943007	.0038385

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4319991	.1636533	1.314830	9.112603	F 14.30906	.0971369
Stddev	.0036430	.0042577	.001457	.171340	.02119	.0009781
%RSD	.8432800	2.601648	.1108503	1.880254	.1480831	1.006917
#1	.4334454	.1626780	1.316109	8.914823	14.31005	.0977227
#2	.4278551	.1683139	1.313243	9.215933	14.32973	.0976803
#3	.4346968	.1599678	1.315139	9.207053	14.28739	.0960078

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-08 Acquired: 12/29/2024 5:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK62 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076419	4.772336	12.51260	.0906683	.8347487	.0399040
Stddev	.0005826	.012371	.05099	.0021577	.0040581	.0001361
%RSD	7.623845	.2592175	.4074819	2.379736	.4861415	.3409529
#1	.0069695	4.778330	12.56979	.0900939	.8326292	.0400086
#2	.0079597	4.780569	12.49609	.0930550	.8321893	.0397502
#3	.0079964	4.758111	12.47190	.0888559	.8394276	.0399531

Elem	Li6707
Units	ppm
Avg	.0947720
Stddev	.0024720
%RSD	2.608409
#1	.0931982
#2	.0934966
#3	.0976213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2541.426	31984.60	2424.687	1616.829	1898.902
Stddev	5.565	126.40	10.481	4.946	3.381
%RSD	.2189766	.3951905	.4322721	.3059105	.1780574
#1	2547.746	31872.65	2412.650	1614.864	1902.249
#2	2537.262	31959.48	2429.617	1613.167	1895.488
#3	2539.268	32121.68	2431.795	1622.455	1898.970

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-09 Acquired: 12/29/2024 5:32:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK63 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3052274	-.056846	6.856441	.0942552	.0220678	76.10383
Stddev	.0021500	.003306	.010554	.0040500	.0009298	.35140
%RSD	.7043820	5.816597	.1539270	4.296798	4.213541	.4617342
#1	.3065736	-.060591	6.868625	.0950557	.0210081	75.78940
#2	.3063607	-.055613	6.850538	.0978451	.0224481	76.48315
#3	.3027478	-.054332	6.850158	.0898647	.0227472	76.03894

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.315850	.0128808	.0092017	72.30760	.2603826	.0452362
Stddev	.006378	.0002485	.0001512	.26017	.0017580	.0009039
%RSD	.4847133	1.929209	1.642784	.3598153	.6751729	1.998109
#1	1.310570	.0129536	.0090973	72.06505	.2596406	.0462706
#2	1.322937	.0130847	.0093750	72.58239	.2623900	.0445985
#3	1.314044	.0126040	.0091327	72.27535	.2591172	.0448394

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3502160	179.1011	9.097995	29.53532	.2106955	.0025750
Stddev	.0052331	.7122	.019221	.04411	.0001163	.0010905
%RSD	1.494250	.3976566	.2112717	.1493359	.0552114	42.35058
#1	.3486046	178.6290	9.086189	29.48669	.2105936	.0013615
#2	.3560652	179.9203	9.120175	29.57273	.2106707	.0034730
#3	.3459780	178.7540	9.087621	29.54653	.2108222	.0028905

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4574329	.1768267	1.595150	8.926862	F 14.29517	.1016239
Stddev	.0202018	.0088453	.002381	.032366	.04111	.0031236
%RSD	4.416334	5.002218	.1492434	.3625722	.2875851	3.073652
#1	.4804210	.1777004	1.597672	8.904241	14.30884	.0998556
#2	.4425079	.1852027	1.594835	8.963937	14.32770	.1052305
#3	.4493699	.1675770	1.592942	8.912409	14.24896	.0997858

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-09 Acquired: 12/29/2024 5:32:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK63 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077938	4.675190	10.65209	.3021114	.8746367	.0112345
Stddev	.0005710	.017025	.02070	.0004802	.0011545	.0010822
%RSD	7.325919	.3641585	.1942916	.1589500	.1319978	9.632596
#1	.0073080	4.692611	10.66774	.3023215	.8759624	.0101868
#2	.0076507	4.674366	10.62863	.3024507	.8738526	.0111686
#3	.0084227	4.658591	10.65991	.3015619	.8740951	.0123481

Elem	Li6707
Units	ppm
Avg	.1109244
Stddev	.0026309
%RSD	2.371814
#1	.1138036
#2	.1103242
#3	.1086455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2482.473	31239.24	2400.751	1582.843	1830.902
Stddev	2.290	67.25	8.653	8.121	6.401
%RSD	.0922415	.2152860	.3604223	.5130356	.3496219
#1	2483.150	31196.17	2390.762	1577.810	1828.852
#2	2479.921	31204.81	2405.563	1578.508	1825.776
#3	2484.348	31316.74	2405.928	1592.212	1838.077

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-10 Acquired: 12/29/2024 5:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK64 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1974355	-.059533	1.700388	.0996219	.0270805	84.18696
Stddev	.0049207	.002272	.005513	.0033009	.0027521	.41702
%RSD	2.492293	3.815502	.3242068	3.313403	10.16253	.4953540
#1	.2005982	-.058314	1.697743	.1024758	.0267750	83.73252
#2	.1917662	-.062154	1.696697	.0960070	.0244940	84.27625
#3	.1999420	-.058132	1.706725	.1003830	.0299726	84.55210

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.365254	.0136776	.0094493	89.67932	.1858818	.0487252
Stddev	.004206	.0003160	.0000770	.32900	.0023113	.0004574
%RSD	.3080935	2.310506	.8145969	.3668669	1.243448	.9387305
#1	1.360625	.0134100	.0093793	89.33749	.1883477	.0489776
#2	1.366295	.0140263	.0094369	89.70668	.1855332	.0490009
#3	1.368842	.0135966	.0095317	89.99378	.1837646	.0481973

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2560615	190.4497	9.787138	31.31603	.2056733	.0016976
Stddev	.0077295	1.0589	.041740	.19988	.0007796	.0004471
%RSD	3.018613	.5559855	.4264785	.6382799	.3790575	26.33472
#1	.2471876	189.3964	9.743745	31.09326	.2049976	.0018436
#2	.2613264	190.4388	9.790668	31.47970	.2054961	.0011958
#3	.2596705	191.5141	9.827000	31.37514	.2065263	.0020534

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6152726	.1882092	1.334808	9.518473	F 15.02153	.1036742
Stddev	.0162791	.0113016	.014670	.141222	.06160	.0016359
%RSD	2.645837	6.004810	1.099064	1.483664	.4100459	1.577937
#1	.6326998	.2012483	1.351123	9.553334	15.00712	.1018254
#2	.6004574	.1812287	1.330601	9.363086	14.96841	.1049344
#3	.6126608	.1821507	1.322702	9.639000	15.08905	.1042627

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-10 Acquired: 12/29/2024 5:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK64 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071673	3.982809	12.18751	.0684094	.8825437	.0121415
Stddev	.0004559	.030842	.11801	.0002146	.0036209	.0006912
%RSD	6.360544	.7743814	.9683261	.3136873	.4102837	5.692531
#1	.0066767	3.965226	12.05669	.0683678	.8863707	.0128754
#2	.0072473	3.964778	12.21989	.0686418	.8791718	.0120464
#3	.0075778	4.018421	12.28596	.0682187	.8820885	.0115029

Elem	Li6707
Units	ppm
Avg	.1273966
Stddev	.0021864
%RSD	1.716207
#1	.1253916
#2	.1297277
#3	.1270705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.984	32268.43	2506.579	1640.730	1849.108
Stddev	4.871	234.74	21.070	15.665	5.986
%RSD	.1893314	.7274645	.8405707	.9547716	.3237188
#1	2568.625	32011.36	2529.833	1623.000	1848.226
#2	2578.242	32322.52	2501.147	1646.490	1855.486
#3	2572.086	32471.40	2488.758	1652.700	1843.612

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-11 Acquired: 12/29/2024 5:40:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK65 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0856718	-.049534	.6231302	.0844031	.0215798	77.32833
Stddev	.0021571	.005264	.0049197	.0019377	.0013401	.11801
%RSD	2.517820	10.62622	.7895194	2.295779	6.209956	.1526095
#1	.0855312	-.045213	.6264221	.0824867	.0219993	77.19670
#2	.0835884	-.055396	.6254938	.0843613	.0226599	77.42466
#3	.0878957	-.047994	.6174747	.0863614	.0200801	77.36364

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9927546	.0123258	.0056652	125.5683	.1369518	.0406366
Stddev	.0031923	.0001423	.0000710	.1696	.0013469	.0011539
%RSD	.3215637	1.154541	1.253212	.1351002	.9834747	2.839512
#1	.9891286	.0122224	.0057147	125.3991	.1382376	.0414895
#2	.9951421	.0122668	.0055838	125.7384	.1355512	.0410967
#3	.9939929	.0124881	.0056970	125.5674	.1370665	.0393237

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0927203	176.7826	7.227399	34.93200	.1592000	.0004723
Stddev	.0033898	.2823	.011247	.16993	.0020886	.0003239
%RSD	3.655934	.1597086	.1556097	.4864622	1.311929	68.56529
#1	.0933037	176.4935	7.215461	34.81269	.1610516	.0008134
#2	.0957806	177.0577	7.237795	35.12656	.1596124	.0004347
#3	.0890767	176.7965	7.228942	34.85674	.1569360	.0001689

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4550182	.1595386	.5988381	7.324351	F 10.57929	.0832604
Stddev	.0137849	.0132629	.0022461	.135596	.06766	.0011576
%RSD	3.029532	8.313281	.3750750	1.851307	.6395239	1.390273
#1	.4455032	.1747105	.5989719	7.393454	10.61480	.0843975
#2	.4708266	.1537596	.5965282	7.411474	10.62180	.0820834
#3	.4487247	.1501458	.6010144	7.168124	10.50127	.0833002

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-11 Acquired: 12/29/2024 5:40:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK65 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055100	2.065211	12.53455	.0318702	.8139354	.0000836
Stddev	.0003540	.015534	.10898	.0019938	.0052253	.0002811
%RSD	6.424885	.7521852	.8694455	6.256036	.6419821	336.3877
#1	.0051465	2.074523	12.46103	.0336950	.8182593	-.000063
#2	.0058537	2.073833	12.65976	.0321735	.8081290	.000408
#3	.0055298	2.047279	12.48287	.0297421	.8154178	-.000093

Elem	Li6707
Units	ppm
Avg	.1146932
Stddev	.0005406
%RSD	.4713094
#1	.1152969
#2	.1145288
#3	.1142540

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2511.335	31715.69	2445.539	1607.609	1830.083
Stddev	13.193	135.72	15.833	14.912	14.933
%RSD	.5253377	.4279194	.6474174	.9275658	.8159720
#1	2507.932	31576.58	2455.243	1594.447	1824.344
#2	2500.177	31847.74	2427.269	1623.804	1818.871
#3	2525.896	31722.74	2454.106	1604.574	1847.034

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-12 Acquired: 12/29/2024 5:44:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK66 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0723666	-.028451	.1999403	.0620444	.0087701	68.09139	.7478586
Stddev	.0070548	.003787	.0027018	.0057364	.0039757	.26539	.0046849
%RSD	9.748750	13.31166	1.351323	9.245672	45.33279	.3897581	.6264469
#1	.0804843	-.031527	.2030248	.0598456	.0096648	67.81583	.7428604
#2	.0677182	-.029605	.1988039	.0577326	.0044233	68.34529	.7521499
#3	.0688973	-.024221	.1979924	.0685549	.0122223	68.11303	.7485657

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104071	.0040366	459.6733	.1046841	.0674352	.1099543	167.4490
Stddev	.0001301	.0000467	2.2102	.0009164	.0004888	.0098897	.7110
%RSD	1.249742	1.157238	.4808162	.8753999	.7247722	8.994371	.4245969
#1	.0105249	.0040441	457.3528	.1046789	.0674868	.0986522	166.7167
#2	.0102675	.0040791	461.7536	.1037703	.0669227	.1141900	168.1366
#3	.0104290	.0039866	459.9133	.1056031	.0678961	.1170206	167.4937

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.540550	98.94037	.2133531	-.000726	.9333871	.1439055	.3814760
Stddev	.048132	.03148	.0003653	.000139	.0097480	.0029638	.0009594
%RSD	.5044946	.0318211	.1712345	19.16038	1.044371	2.059571	.2514855
#1	9.487640	98.97600	.2137746	-.000699	.9326486	.1471842	.3810279
#2	9.581736	98.91629	.2131581	-.000877	.9240293	.1431158	.3808227
#3	9.552274	98.92882	.2131266	-.000603	.9434833	.1414165	.3825774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.924004	8.083461	.0789607	.0049416	.9564219	11.72789	.0297579
Stddev	.097048	.004079	.0029306	.0002573	.0110116	.00216	.0007003
%RSD	1.401617	.0504605	3.711491	5.207241	1.151330	.0184486	2.353459
#1	6.866937	8.080775	.0804093	.0048785	.9684978	11.72605	.0290264
#2	7.036059	8.088155	.0808849	.0052246	.9538310	11.72734	.0298251
#3	6.869017	8.081454	.0755879	.0047217	.9469367	11.73027	.0304223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-12 Acquired: 12/29/2024 5:44:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK66 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.143806	.4215205	.1161305
Stddev	.009079	.0019112	.0000846
%RSD	.7937555	.4534110	.0728253
#1	1.133334	.4193293	.1161986
#2	1.148608	.4223885	.1160358
#3	1.149475	.4228437	.1161570

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2359.626	29879.37	2331.677	1507.024	1705.183
Stddev	1.329	38.80	5.807	4.350	1.304
%RSD	.0563254	.1298573	.2490695	.2886352	.0764589
#1	2358.233	29922.38	2337.302	1508.438	1706.522
#2	2359.764	29868.73	2325.702	1510.491	1705.108
#3	2360.880	29846.99	2332.028	1502.144	1703.918

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-13 Acquired: 12/29/2024 5:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK67 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0758754	-.038102	.1381964	.0697540	.0157117	77.17285	1.024140
Stddev	.0078573	.001985	.0026033	.0032259	.0046717	.24753	.003895
%RSD	10.35553	5.208826	1.883774	4.624672	29.73372	.3207457	.3803045
#1	.0726135	-.035998	.1400546	.0691431	.0205726	77.28798	1.023102
#2	.0701745	-.038367	.1393136	.0668772	.0112557	76.88873	1.020870
#3	.0848383	-.039941	.1352209	.0732417	.0153067	77.34185	1.028449

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111828	.0046105	503.1181	.1248808	.0839933	.1328812	186.2644
Stddev	.0001020	.0000983	1.4539	.0003841	.0009369	.0005133	.3033
%RSD	.9124745	2.132665	.2889828	.3075722	1.115434	.3862836	.1628595
#1	.0110703	.0046794	504.2533	.1248793	.0838147	.1327772	186.3860
#2	.0112694	.0046541	501.4793	.1244974	.0831585	.1334386	185.9192
#3	.0112087	.0044979	503.6216	.1252656	.0850066	.1324279	186.4882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.11203	124.6678	.2566424	.0000734	1.078084	.1831331	.3951026
Stddev	.01795	.4178	.0011576	.0000753	.018646	.0071546	.0023392
%RSD	.1615813	.3351312	.4510704	102.4898	1.729561	3.906781	.5920448
#1	11.11280	124.7951	.2578600	.0000481	1.081235	.1910289	.3929970
#2	11.09370	124.2011	.2555559	.0000141	1.094953	.1812900	.3976205
#3	11.12959	125.0071	.2565113	.0001581	1.058063	.1770803	.3946902

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.653554	8.877844	.0922579	.0029555	.8017764	11.61924	.0242087
Stddev	.115304	.000894	.0014318	.0001968	.0020927	.05300	.0025895
%RSD	1.332445	.0100669	1.551909	6.660444	.2610066	.4561460	10.69676
#1	8.637716	8.878757	.0935085	.0027438	.8007720	11.62641	.0271789
#2	8.775958	8.876971	.0906961	.0029896	.8041819	11.56302	.0230221
#3	8.546988	8.877802	.0925692	.0031330	.8003752	11.66829	.0224250

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-13 Acquired: 12/29/2024 5:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK67 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.382270	.4564149	.1402852
Stddev	.011329	.0011561	.0024003
%RSD	.8195801	.2533050	1.711002
#1	1.382961	.4577497	.1377988
#2	1.370612	.4557689	.1425890
#3	1.393238	.4557262	.1404677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.412	30121.45	2386.537	1514.983	1673.890
Stddev	7.562	64.81	10.795	9.077	5.172
%RSD	.3175371	.2151615	.4523426	.5991477	.3089998
#1	2374.712	30156.37	2383.411	1517.992	1668.588
#2	2379.912	30046.67	2398.550	1504.784	1674.161
#3	2389.611	30161.31	2377.650	1522.173	1678.921

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-14 Acquired: 12/29/2024 5:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0846135	-.034858	.1052100	.0683544	.0112135	60.36573	.7280546
Stddev	.0014541	.006630	.0014910	.0059055	.0037125	.21235	.0016614
%RSD	1.718514	19.01988	1.417167	8.639543	33.10765	.3517761	.2281957
#1	.0862727	-.038335	.1056215	.0615611	.0090034	60.59096	.7297819
#2	.0835613	-.039025	.1035565	.0712378	.0091374	60.33706	.7264681
#3	.0840063	-.027213	.1064521	.0722644	.0154997	60.16917	.7279136

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104786	.0036321	614.6531	.0892018	.0796392	.1478544	182.2014
Stddev	.0001279	.0001739	.8720	.0012255	.0005072	.0028846	.4397
%RSD	1.220858	4.787905	.1418744	1.373872	.6368781	1.950967	.2413050
#1	.0105948	.0037949	615.6598	.0880468	.0792480	.1482764	182.6611
#2	.0103415	.0036526	614.1676	.0904874	.0802122	.1505048	182.1583
#3	.0104995	.0034489	614.1318	.0890713	.0794572	.1447821	181.7849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.692801	134.4452	.1975698	.0014348	1.037561	.1371700	.3541114
Stddev	.028780	.2465	.0006550	.0004261	.041676	.0034015	.0022274
%RSD	.3741205	.1833290	.3315185	29.69585	4.016754	2.479801	.6290205
#1	7.723682	134.6553	.1976698	.0012794	1.085165	.1399730	.3558903
#2	7.666726	134.5063	.1981691	.0011083	1.007655	.1381514	.3516132
#3	7.687995	134.1739	.1968706	.0019168	1.019861	.1333857	.3548306

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.641863	6.945605	.0768786	.0035840	.7054940	11.01995	.0226720
Stddev	.150133	.009255	.0011097	.0004455	.0092950	.17242	.0024640
%RSD	2.260403	.1332451	1.443447	12.42944	1.317512	1.564577	10.86811
#1	6.546556	6.937762	.0769320	.0032308	.6976304	11.21637	.0254885
#2	6.814925	6.955813	.0779606	.0034369	.7157518	10.89359	.0209143
#3	6.564108	6.943240	.0757431	.0040845	.7030997	10.94990	.0216133

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-14 Acquired: 12/29/2024 5:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK68 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.016719	.4994746	.1153063
Stddev	.004315	.0027313	.0057200
%RSD	.4243599	.5468389	4.960715
#1	1.017333	.4972022	.1198275
#2	1.012131	.4987167	.1088759
#3	1.020694	.5025048	.1172156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.325	29265.47	2311.527	1473.202	1674.446
Stddev	8.028	149.58	22.053	1.106	5.278
%RSD	.3479399	.5111116	.9540267	.0750633	.3151929
#1	2305.953	29414.37	2286.596	1473.964	1675.960
#2	2315.950	29115.22	2328.481	1471.934	1678.802
#3	2300.071	29266.80	2319.504	1473.709	1668.577

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-15 Acquired: 12/29/2024 5:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK69 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1333971	-.112324	1.049527	.1393848	.0471621	30.18983	.9996031
Stddev	.0047363	.004670	.001609	.0037730	.0024975	.14551	.0045574
%RSD	3.550525	4.157487	.1533048	2.706894	5.295669	.4819850	.4559244
#1	.1350647	-.115499	1.050365	.1366468	.0480760	30.22300	1.001656
#2	.1370742	-.114511	1.050544	.1436886	.0490740	30.31590	1.002773
#3	.1280526	-.106962	1.047672	.1378190	.0443363	30.03060	.994380

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169341	.0040573	31.87358	.0744970	-.019181	.4598296	240.1972
Stddev	.0001912	.0000923	.16487	.0003533	.000952	.0049489	1.2795
%RSD	1.129162	2.274534	.5172594	.4742976	4.965889	1.076249	.5327078
#1	.0171534	.0039639	31.85066	.0745243	-.019132	.4543409	240.3024
#2	.0168466	.0040597	32.04870	.0741308	-.020157	.4639514	241.4209
#3	.0168023	.0041484	31.72136	.0748359	-.018254	.4611965	238.8683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.008950	8.350942	.1542603	.0006959	.5178076	.1579456	.8638084
Stddev	.013590	.125635	.0008047	.0007228	.0160958	.0065776	.0017016
%RSD	.6764954	1.504441	.5216273	103.8570	3.108457	4.164496	.1969899
#1	2.004570	8.234570	.1536501	.0008209	.5326901	.1654747	.8656623
#2	2.024190	8.484143	.1551723	.0013480	.5007248	.1550476	.8623177
#3	1.998089	8.334112	.1539586	-.000081	.5200077	.1533147	.8634451

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.870741	7.298003	.1030771	.0167174	9.711495	5.925696	.0726667
Stddev	.104881	.013049	.0043147	.0005324	.018517	.070427	.0020796
%RSD	2.153294	.1788038	4.185929	3.184677	.1906681	1.188498	2.861799
#1	4.775371	7.293836	.0989891	.0168151	9.690141	5.976035	.0702895
#2	4.983067	7.312626	.1075875	.0171942	9.723093	5.955839	.0735617
#3	4.853784	7.287546	.1026545	.0161429	9.721253	5.845215	.0741490

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-15 Acquired: 12/29/2024 5:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK69 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.771090	-.022286	.0288864
Stddev	.016219	.000230	.0034522
%RSD	.9157388	1.031081	11.95078
#1	1.769775	-.022026	.0251851
#2	1.787926	-.022372	.0320187
#3	1.755568	-.022460	.0294553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.394	29275.74	2200.502	1490.549	1928.086
Stddev	2.158	153.81	14.886	7.601	1.548
%RSD	.0931872	.5253864	.6764681	.5099358	.0803105
#1	2313.822	29333.88	2190.292	1494.886	1926.890
#2	2314.506	29392.00	2193.631	1494.988	1927.532
#3	2317.854	29101.33	2217.582	1481.772	1929.835

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-16 Acquired: 12/29/2024 5:59:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK70 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1336820	-.142851	1.050578	.1771324	.0601715	31.97975	1.208111
Stddev	.0043144	.000741	.003130	.0012779	.0011020	.08823	.000857
%RSD	3.227384	.5186113	.2978927	.7214495	1.831392	.2758890	.0709097
#1	.1386597	-.142260	1.050898	.1756591	.0589109	31.99003	1.208998
#2	.1313695	-.142609	1.053536	.1777976	.0606515	31.88684	1.207289
#3	.1310169	-.143682	1.047301	.1779405	.0609520	32.06239	1.208045

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214400	.0042534	27.58952	.0778678	-.036172	.2223194	299.5287
Stddev	.0000525	.0000634	.08953	.0006702	.000827	.0063943	.5585
%RSD	.2449247	1.491245	.3245230	.8607421	2.287610	2.876167	.1864649
#1	.0214587	.0042134	27.60343	.0772553	-.035289	.2254257	298.9188
#2	.0214806	.0043265	27.49384	.0777642	-.036930	.2149654	299.6520
#3	.0213807	.0042202	27.67129	.0785838	-.036298	.2265671	300.0152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054773	6.423049	.1857537	.0006928	.5822055	.1737144	.6415291
Stddev	.006265	.047813	.0009054	.0008695	.0176035	.0117732	.0051808
%RSD	.3048985	.7443940	.4874300	125.5092	3.023592	6.777312	.8075755
#1	2.061004	6.371249	.1867831	-.000311	.5632352	.1756780	.6440900
#2	2.054841	6.465491	.1853971	.001208	.5980136	.1610829	.6449308
#3	2.048474	6.432407	.1850809	.001182	.5853678	.1843823	.6355665

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.200999	7.357982	.1205428	.0239984	16.06078	6.095729	.0841838
Stddev	.156918	.027102	.0036972	.0004921	.08920	.052085	.0009505
%RSD	3.017066	.3683287	3.067091	2.050573	.5553715	.8544556	1.129124
#1	5.154160	7.384678	.1195436	.0245627	16.16041	6.078262	.0849663
#2	5.072834	7.358776	.1246368	.0237743	16.03356	6.054622	.0844591
#3	5.376002	7.330492	.1174479	.0236582	15.98836	6.154303	.0831260

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-16 Acquired: 12/29/2024 5:59:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK70 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.827352	-.033390	.0350230
Stddev	.005772	.000377	.0033058
%RSD	.3158412	1.130518	9.438849
#1	1.827256	-.032955	.0388329
#2	1.821629	-.033577	.0329137
#3	1.833171	-.033637	.0333225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.636	29602.04	2222.827	1506.388	1907.445
Stddev	2.414	95.55	15.553	11.068	4.398
%RSD	.1031649	.3227693	.6996912	.7347700	.2305568
#1	2338.941	29579.41	2228.532	1504.864	1902.509
#2	2342.321	29519.84	2234.722	1496.160	1910.946
#3	2337.646	29706.87	2205.227	1518.139	1908.879

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-17 Acquired: 12/29/2024 6:03:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK71 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0883476	-.043494	1.412623	.0714020	.0169952	53.06830
Stddev	.0006967	.000493	.001638	.0025598	.0026671	.21160
%RSD	.7885820	1.134262	.1159256	3.585028	15.69322	.3987254
#1	.0879635	-.042933	1.413673	.0686100	.0195650	52.82680
#2	.0891518	-.043858	1.410736	.0736383	.0142404	53.15697
#3	.0879275	-.043693	1.413460	.0719576	.0171803	53.22114

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.409265	.0114617	.0046015	63.06216	.0836971	.0507699
Stddev	.004012	.0000677	.0000710	.10997	.0009431	.0005845
%RSD	.2847211	.5911380	1.543811	.1743889	1.126854	1.151362
#1	1.404635	.0114102	.0046766	63.04488	.0847051	.0509009
#2	1.411420	.0114364	.0045925	63.17975	.0835502	.0501310
#3	1.411739	.0115384	.0045354	62.96185	.0828361	.0512779

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2745474	139.7822	7.667890	11.55595	.1591383	-.000033
Stddev	.0023709	.5555	.033561	.02795	.0007563	.000253
%RSD	.8635790	.3973895	.4376758	.2418987	.4752456	768.6971
#1	.2748414	139.1897	7.629813	11.56629	.1595406	.000257
#2	.2767576	139.8656	7.680687	11.52430	.1582659	-.000210
#3	.2720432	140.2912	7.693169	11.57725	.1596085	-.000146

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8067693	.1867929	.9982014	5.532837	F 19.79749	.0756062
Stddev	.0237869	.0067872	.0007653	.033203	.01256	.0032697
%RSD	2.948411	3.633543	.0766681	.6001022	.0634659	4.324607
#1	.8224324	.1941865	.9987066	5.570910	19.81011	.0722692
#2	.7793976	.1808451	.9973209	5.517706	19.78498	.0788041
#3	.8184778	.1853471	.9985767	5.509895	19.79737	.0757452

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-17 Acquired: 12/29/2024 6:03:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK71 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180004	4.098189	8.818198	.0645556	.8698943	.3881414
Stddev	.0003458	.016785	.067085	.0004748	.0064869	.0016368
%RSD	1.921061	.4095596	.7607506	.7355578	.7457093	.4217091
#1	.0179488	4.105557	8.867397	.0642121	.8631366	.3865141
#2	.0183691	4.078980	8.741783	.0643573	.8760713	.3897876
#3	.0176832	4.110029	8.845415	.0650975	.8704749	.3881227

Elem	Li6707
Units	ppm
Avg	.0821953
Stddev	.0037108
%RSD	4.514578
#1	.0779119
#2	.0842432
#3	.0844309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2474.293	31334.38	2377.805	1595.478	1911.232
Stddev	5.745	161.04	4.391	9.460	1.551
%RSD	.2321796	.5139380	.1846828	.5929006	.0811510
#1	2480.426	31415.74	2372.746	1605.812	1912.901
#2	2469.037	31148.90	2380.635	1587.246	1909.834
#3	2473.417	31438.52	2380.035	1593.376	1910.963

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18 Acquired: 12/29/2024 6:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1131910	-.028385	.9370323	.0952941	.0163909	77.71877
Stddev	.0050820	.003095	.0029153	.0049769	.0037286	.19316
%RSD	4.489792	10.90513	.3111212	5.222716	22.74809	.2485338
#1	.1073789	-.025236	.9338683	.0980300	.0202929	77.58178
#2	.1153961	-.028494	.9376188	.0895494	.0128640	77.63484
#3	.1167981	-.031424	.9396097	.0983030	.0160158	77.93970

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.652985	.0120279	.0083029	155.9052	.1203978	.0716115
Stddev	.004788	.0001725	.0001763	.4930	.0004286	.0010036
%RSD	.2896277	1.434334	2.123325	.3162372	.3559983	1.401497
#1	1.648263	.0118523	.0081219	155.7314	.1199271	.0722864
#2	1.652856	.0121972	.0083125	155.5226	.1207656	.0720899
#3	1.657835	.0120343	.0084741	156.4616	.1205008	.0704581

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1936713	181.4264	19.62952	26.84380	.1778149	.0041742
Stddev	.0077990	.5334	.06232	.17247	.0012460	.0012061
%RSD	4.026913	.2940270	.3174586	.6424935	.7007143	28.89490
#1	.2025999	181.3730	19.59664	26.77005	.1791268	.0027911
#2	.1881898	180.9216	19.59052	26.72046	.1766474	.0050068
#3	.1902244	181.9845	19.70138	27.04088	.1776706	.0047249

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000218	.1737722	.6826232	8.296119	F 17.13401	.0917602
Stddev	.0187225	.0040979	.0009466	.027355	.02098	.0010719
%RSD	3.744328	2.358180	.1386696	.3297287	.1224479	1.168147
#1	.4878397	.1720757	.6815977	8.314816	17.15774	.0908835
#2	.4906459	.1784458	.6828084	8.308817	17.12637	.0914419
#3	.5215798	.1707950	.6834636	8.264723	17.11793	.0929552

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18 Acquired: 12/29/2024 6:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133149	3.072331	13.72886	.0380256	.6095398	.1268994
Stddev	.0003510	.004743	.06321	.0008685	.0032875	.0009084
%RSD	2.636247	.1543698	.4604460	2.283889	.5393384	.7158444
#1	.0129102	3.068744	13.67106	.0381453	.6058931	.1260147
#2	.0134974	3.077709	13.79636	.0371035	.6104503	.1268536
#3	.0135370	3.070541	13.71915	.0388280	.6122761	.1278298

Elem	Li6707
Units	ppm
Avg	.1224332
Stddev	.0031288
%RSD	2.555540
#1	.1192596
#2	.1255153
#3	.1225245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.149	33386.78	2599.598	1694.118	1831.455
Stddev	10.681	108.75	14.387	11.044	7.613
%RSD	.4034771	.3257234	.5534201	.6519184	.4156573
#1	2634.820	33470.25	2615.890	1702.913	1822.683
#2	2653.562	33426.28	2594.262	1697.717	1835.356
#3	2653.067	33263.80	2588.642	1681.723	1836.327

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-19 Acquired: 12/29/2024 6:11:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1127858	-.034089	.9295442	.0941511	.0180014	78.13528
Stddev	.0027788	.005615	.0028094	.0062677	.0053144	.17874
%RSD	2.463748	16.47270	.3022311	6.657102	29.52239	.2287629
#1	.1095793	-.036716	.9315446	.1001068	.0214930	78.13274
#2	.1142871	-.027642	.9307557	.0947345	.0118853	77.95782
#3	.1144910	-.037910	.9263324	.0876121	.0206259	78.31528

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.664329	.0123977	.0081952	156.0859	.1200267	.0706215
Stddev	.002753	.0001137	.0001185	.4903	.0011187	.0009441
%RSD	.1653940	.9166907	1.445314	.3141476	.9320141	1.336847
#1	1.666465	.0122683	.0083058	155.9488	.1210346	.0710923
#2	1.661223	.0124431	.0080703	155.6787	.1202225	.0712377
#3	1.665299	.0124816	.0082096	156.6302	.1188231	.0695346

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1978093	182.3968	19.69838	26.98928	.1773787	.0047093
Stddev	.0029063	.2526	.04413	.13063	.0005219	.0005820
%RSD	1.469218	.1384634	.2240036	.4840237	.2942359	12.35747
#1	.1956251	182.6827	19.70525	26.94417	.1779811	.0051822
#2	.2011078	182.2041	19.65122	26.88717	.1770941	.0040594
#3	.1966951	182.3036	19.73866	27.13649	.1770610	.0048864

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5172588	.1809578	.6728654	8.178783	F 17.03416	.0879326
Stddev	.0292483	.0132737	.0015767	.101844	.01034	.0017995
%RSD	5.654484	7.335216	.2343312	1.245222	.0606879	2.046431
#1	.5330862	.1962664	.6712130	8.292746	17.04190	.0886058
#2	.5351828	.1739565	.6730296	8.146933	17.02242	.0892983
#3	.4835075	.1726506	.6743537	8.096672	17.03816	.0858935

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-19 Acquired: 12/29/2024 6:11:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133629	3.059741	13.95828	.0409161	.6224470	.1256119
Stddev	.0001540	.018620	.06331	.0021235	.0029997	.0010632
%RSD	1.152654	.6085488	.4535312	5.189795	.4819212	.8464124
#1	.0131865	3.060415	13.97029	.0385846	.6249520	.1246579
#2	.0134712	3.078015	13.88983	.0427393	.6191228	.1254199
#3	.0134308	3.040793	14.01471	.0414245	.6232661	.1267581

Elem	Li6707
Units	ppm
Avg	.1224152
Stddev	.0041136
%RSD	3.360401
#1	.1202943
#2	.1197949
#3	.1271565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.382	33199.59	2532.049	1690.531	1836.363
Stddev	3.337	56.20	10.425	3.832	2.750
%RSD	.1260020	.1692673	.4117414	.2266552	.1497374
#1	2644.536	33251.72	2536.098	1694.846	1833.199
#2	2650.101	33206.99	2539.843	1687.525	1838.178
#3	2650.509	33140.06	2520.207	1689.223	1837.711

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-18LX5 Acquired: 12/29/2024 6:15:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258043	-.007637	.1911073	.0200979	.0029228	18.79954	.3981297
Stddev	.0059289	.002991	.0012710	.0071973	.0045150	.07303	.0004823
%RSD	22.97640	39.15939	.6650855	35.81108	154.4720	.3884826	.1211311
#1	.0314518	-.009968	.1922517	.0242630	-.001125	18.77625	.3983721
#2	.0196292	-.008677	.1913309	.0117872	.007792	18.74099	.3975743
#3	.0263319	-.004265	.1897393	.0242434	.002102	18.88137	.3984425

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030670	.0014553	22.00001	.0277944	.0197317	.0469037	44.77179
Stddev	.0002004	.0000938	.07001	.0007174	.0004054	.0085866	.09762
%RSD	6.534006	6.447956	.3182411	2.581132	2.054323	18.30683	.2180447
#1	.0032927	.0014907	21.96367	.0279086	.0193889	.0544604	44.66510
#2	.0029099	.0013489	21.95564	.0270268	.0201791	.0375664	44.85665
#3	.0029984	.0015263	22.08072	.0284479	.0196272	.0486844	44.79362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.854049	6.399572	.0358759	.0005338	.1144555	.0381684	.1703840
Stddev	.001986	.147713	.0004322	.0017337	.0042717	.0060753	.0007017
%RSD	.0409204	2.308171	1.204783	324.7828	3.732224	15.91710	.4118159
#1	4.853636	6.403733	.0356928	-.001337	.1169997	.0361637	.1711936
#2	4.852302	6.249822	.0355653	.000852	.1095237	.0333488	.1700061
#3	4.856209	6.545161	.0363695	.002086	.1168431	.0449927	.1699523

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.915323	3.616888	.0167355	.0037684	.6132401	3.073096	.0075499
Stddev	.120081	.010158	.0007585	.0002428	.0078142	.015798	.0000864
%RSD	6.269506	.2808625	4.532552	6.442688	1.274240	.5140674	1.144702
#1	1.850205	3.611959	.0158840	.0040370	.6221950	3.055581	.0074538
#2	1.841867	3.610134	.0173389	.0035646	.6097211	3.077439	.0075743
#3	2.053897	3.628570	.0169837	.0037035	.6078042	3.086269	.0076214

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-18LX5 Acquired: 12/29/2024 6:15:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1588976	.0105170	.0330730
Stddev	.0015306	.0006870	.0027473
%RSD	.9632747	6.532563	8.306669
#1	.1604490	.0110402	.0344779
#2	.1588552	.0107718	.0348337
#3	.1573886	.0097390	.0299074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2219.708	27995.92	2083.299	1426.590	1887.626
Stddev	2.600	33.30	2.764	6.247	2.617
%RSD	.1171471	.1189605	.1326506	.4379051	.1386465
#1	2222.701	27976.88	2084.371	1420.747	1890.489
#2	2218.417	27976.50	2085.366	1425.849	1887.035
#3	2218.005	28034.37	2080.160	1433.175	1885.356

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-20 Acquired: 12/29/2024 6:19:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1941696	.0421303	.9339330	.2334791	.1685444	79.49120
Stddev	.0033098	.0048281	.0005072	.0027698	.0021317	.28303
%RSD	1.704609	11.45980	.0543042	1.186305	1.264796	.3560532
#1	.1978570	.0406474	.9336689	.2366534	.1692167	79.28617
#2	.1931959	.0382177	.9336123	.2322298	.1661576	79.81412
#3	.1914558	.0475259	.9345177	.2315540	.1702590	79.37331

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.772493	.0916682	.1020510	152.6755	.4473109	1.037699
Stddev	.018479	.0008932	.0000468	.8654	.0012620	.002331
%RSD	.3871934	.9743977	.0458438	.5668474	.2821274	.2246274
#1	4.766315	.0913189	.1020226	151.9294	.4460195	1.039803
#2	4.793270	.0926832	.1020253	153.6243	.4473720	1.035193
#3	4.757895	.0910023	.1021050	152.4729	.4485413	1.038103

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5553803	179.1122	19.95309	26.48362	1.141501	.0622330
Stddev	.0068237	.9449	.08325	.17184	.001414	.0010059
%RSD	1.228655	.5275712	.4172369	.6488436	.1239092	1.616288
#1	.5512469	178.1775	19.88623	26.30702	1.142716	.0611967
#2	.5632564	180.0671	20.04634	26.65025	1.141840	.0622968
#3	.5516377	179.0920	19.92671	26.49360	1.139949	.0632054

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5990579	.9669547	1.418280	8.164786	F 16.42230	.0829575
Stddev	.0079218	.0067295	.004159	.089066	.01938	.0044895
%RSD	1.322372	.6959498	.2932238	1.090850	.1180027	5.411844
#1	.5905187	.9591965	1.420838	8.134597	16.44460	.0783578
#2	.6061676	.9704548	1.420521	8.265022	16.41268	.0831866
#3	.6004874	.9712129	1.413482	8.094739	16.40960	.0873281

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-20 Acquired: 12/29/2024 6:19:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126954	2.916389	13.86411	.0381232	.6070057	.1236198
Stddev	.0000841	.010346	.11630	.0011988	.0036438	.0005994
%RSD	.6625626	.3547408	.8388314	3.144586	.6002938	.4848581
#1	.0126131	2.904459	13.85625	.0393369	.6073084	.1233597
#2	.0127812	2.921806	13.98413	.0380929	.6032200	.1243053
#3	.0126920	2.922900	13.75194	.0369398	.6104887	.1231944

Elem	Li6707
Units	ppm
Avg	.1217761
Stddev	.0021931
%RSD	1.800939
#1	.1227595
#2	.1192634
#3	.1233053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.283	33368.90	2531.947	1688.740	1844.623
Stddev	12.673	220.11	24.932	11.702	7.182
%RSD	.4814593	.6596225	.9846994	.6929488	.3893622
#1	2645.794	33614.40	2555.692	1702.171	1851.899
#2	2630.398	33303.09	2505.977	1680.742	1844.433
#3	2620.658	33189.20	2534.172	1683.307	1837.538

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-21 Acquired: 12/29/2024 6:22:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK73 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1057094	-.035948	.2840994	.0992949	.0224062	82.47039
Stddev	.0045661	.003704	.0019121	.0011965	.0015229	.04605
%RSD	4.319515	10.30516	.6730245	1.205004	6.796624	.0558394
#1	.1098410	-.032142	.2820991	.0995789	.0241110	82.52050
#2	.1008069	-.039542	.2842903	.1003238	.0211806	82.46075
#3	.1064804	-.036160	.2859089	.0979819	.0219269	82.42992

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.777387	.0126571	.0090105	97.80256	.1282583	.0637414
Stddev	.002184	.0001655	.0000321	.10707	.0013798	.0006662
%RSD	.1228571	1.307170	.3562760	.1094720	1.075789	1.045169
#1	1.779123	.0128140	.0089734	97.81462	.1281790	.0643691
#2	1.778102	.0126732	.0090305	97.90308	.1269198	.0638127
#3	1.774935	.0124842	.0090275	97.68997	.1296760	.0630425

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575177	182.5314	19.77464	26.29853	.1856373	.0043654
Stddev	.0060927	.3017	.03897	.16353	.0017178	.0004614
%RSD	3.867925	.1652674	.1970461	.6218143	.9253720	10.56960
#1	.1505405	182.5258	19.81866	26.15824	.1875018	.0048368
#2	.1617870	182.2326	19.76064	26.25922	.1852915	.0043447
#3	.1602257	182.8359	19.74460	26.47813	.1841188	.0039147

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4010902	.1684352	.5632973	6.176106	F 12.13464	.0834919
Stddev	.0300765	.0041250	.0037076	.137874	.01197	.0020910
%RSD	7.498689	2.449012	.6581865	2.232375	.0986136	2.504449
#1	.3672926	.1711600	.5623192	6.277411	12.13015	.0851269
#2	.4110688	.1636894	.5673958	6.231813	12.12558	.0811358
#3	.4249092	.1704562	.5601768	6.019095	12.14821	.0842131

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-21 Acquired: 12/29/2024 6:22:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK73 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081677	2.860038	12.27672	.0227087	.5506356	-.011752
Stddev	.0004315	.002377	.05477	.0019948	.0028704	.001025
%RSD	5.282478	.0831045	.4461457	8.784066	.5212953	8.719496
#1	.0086658	2.860223	12.27190	.0213419	.5494446	-.011035
#2	.0079107	2.862318	12.22452	.0217865	.5485524	-.011296
#3	.0079265	2.857575	12.33375	.0249977	.5539098	-.012926

Elem	Li6707
Units	ppm
Avg	.1201892
Stddev	.0022878
%RSD	1.903490
#1	.1198517
#2	.1226269
#3	.1180888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.347	34466.85	2588.041	1746.103	1851.197
Stddev	10.018	126.50	15.921	5.299	4.280
%RSD	.3678576	.3670300	.6151823	.3034613	.2311932
#1	2718.109	34321.57	2571.772	1740.800	1848.198
#2	2717.034	34552.68	2603.590	1746.112	1849.294
#3	2734.898	34526.31	2588.762	1751.398	1856.098

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-22 Acquired: 12/29/2024 6:26:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK74 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501814	-.017570	.1930435	.0426003	.0049163	64.76995	1.164173
Stddev	.0059738	.007226	.0007846	.0062590	.0042367	.04466	.001745
%RSD	11.90433	41.12826	.4064583	14.69231	86.17529	.0689445	.1498941
#1	.0451564	-.025776	.1938668	.0353852	.0029322	64.77872	1.165776
#2	.0567863	-.014772	.1929594	.0465704	.0097810	64.72156	1.162314
#3	.0486016	-.012161	.1923043	.0458453	.0020359	64.80957	1.164430

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096082	.0049660	724.5105	.1118296	.0600330	.0830525	138.7733
Stddev	.0001555	.0001021	1.8574	.0013134	.0001751	.0095272	.4365
%RSD	1.618005	2.054956	.2563696	1.174459	.2917308	11.47134	.3145493
#1	.0097836	.0048856	725.1233	.1103199	.0599857	.0928745	139.1680
#2	.0095535	.0049315	722.4241	.1127098	.0598863	.0738503	138.3045
#3	.0094874	.0050808	725.9841	.1124590	.0602269	.0824327	138.8475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.315150	69.65744	.1440791	.0006566	.7510316	.1259186	.4191905
Stddev	.028266	.39508	.0006975	.0011933	.0323893	.0029327	.0025064
%RSD	.4475839	.5671807	.4841395	181.7462	4.312644	2.329009	.5979056
#1	6.344340	70.09472	.1448485	.0018246	.7479015	.1226908	.4184420
#2	6.287909	69.55141	.1434880	.0007058	.7848724	.1284192	.4219858
#3	6.313202	69.32619	.1439007	-.000561	.7203210	.1266459	.4171437

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.834891	8.109120	.0674519	.0016794	2.368477	11.32852	.0220872
Stddev	.141973	.021940	.0007556	.0002581	.006317	.00774	.0016135
%RSD	2.936434	.2705572	1.120276	15.37071	.2667178	.0683171	7.305098
#1	4.691907	8.092410	.0676262	.0017606	2.361280	11.32430	.0211745
#2	4.975832	8.100986	.0666244	.0013904	2.373107	11.32380	.0239501
#3	4.836934	8.133966	.0681052	.0018871	2.371042	11.33745	.0211369

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-22 Acquired: 12/29/2024 6:26:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK74 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7579307	.3348513	.1104270
Stddev	.0079544	.0008500	.0047179
%RSD	1.049486	.2538578	4.272436
#1	.7661573	.3338871	.1057416
#2	.7502798	.3354925	.1103625
#3	.7573549	.3351743	.1151768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2308.424	29182.57	2282.720	1468.539	1662.082
Stddev	4.202	117.08	10.620	5.704	4.154
%RSD	.1820325	.4011858	.4652356	.3884224	.2499366
#1	2305.654	29199.25	2278.209	1472.608	1663.232
#2	2313.259	29058.05	2275.101	1462.019	1665.541
#3	2306.359	29290.41	2294.851	1470.991	1657.474

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/29/2024 6:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.023542	4.730378	24.23133	5.014959	4.922767	403.3438	9.990623
Stddev	.006850	.007943	.04225	.011034	.003305	.4753	.014060
%RSD	.1363538	.1679225	.1743408	.2200200	.0671309	.1178499	.1407298
#1	5.015802	4.738586	24.22848	5.002256	4.919849	402.9741	9.975326
#2	5.025999	4.722729	24.19059	5.020463	4.922096	403.1774	9.993561
#3	5.028824	4.729817	24.27493	5.022158	4.926356	403.8800	10.00298

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5093261	2.442223	400.6735	15.30303	2.359789	14.75874	403.7316
Stddev	.0045407	.003761	.6632	.02555	.004055	.03587	.8104
%RSD	.8915209	.1539913	.1655257	.1669601	.1718490	.2430461	.2007314
#1	.5144103	2.443307	400.9387	15.27745	2.360816	14.73434	403.2508
#2	.5056740	2.438040	399.9187	15.30309	2.355319	14.79992	403.2767
#3	.5078941	2.445323	401.1630	15.32855	2.363232	14.74194	404.6673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.52572	399.4230	2.459784	1.265496	411.9751	2.460364	14.81071
Stddev	.01887	.5890	.004115	.002814	4.5049	.018219	.10493
%RSD	.1299067	.1474608	.1672811	.2223996	1.093494	.7404893	.7084991
#1	14.51039	399.7427	2.463387	1.265614	417.0275	2.479205	14.69056
#2	14.51996	398.7433	2.455300	1.262625	408.3768	2.459049	14.88434
#3	14.54679	399.7831	2.460665	1.268250	410.5209	2.442839	14.85722

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.7825	4.913622	4.977927	4.900726	4.956154	4.848115	4.938807
Stddev	.0969	.019429	.035224	.003618	.001557	.036420	.006181
%RSD	.0642724	.3954111	.7075985	.0738254	.0314066	.7512247	.1251602
#1	150.7716	4.934954	5.014208	4.897117	4.957520	4.888014	4.935756
#2	150.8844	4.896940	4.943865	4.900707	4.954460	4.816656	4.934744
#3	150.6915	4.908972	4.975708	4.904353	4.956482	4.839676	4.945921

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/29/2024 6:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.926787	4.695510	5.112140
Stddev	.005474	.002529	.008240
%RSD	.1111153	.0538542	.1611873
#1	4.920762	4.692746	5.102642
#2	4.931457	4.697707	5.117369
#3	4.928142	4.696076	5.116410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1823.740	23512.76	1898.237	1139.175	1548.895
Stddev	3.693	7.19	14.967	5.413	4.048
%RSD	.2024806	.0305874	.7884739	.4751326	.2613502
#1	1825.910	23506.72	1881.840	1145.331	1547.337
#2	1825.834	23510.86	1911.164	1135.161	1553.490
#3	1819.476	23520.72	1901.707	1137.034	1545.857

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/29/2024 6:34:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000995	.0020927	.0001836	-.001860	-.001904	.0095906
Stddev	.001766	.0010541	.0025681	.001135	.000819	.0163486
%RSD	177.4956	50.36904	1398.565	61.00520	43.01654	170.4642
#1	-.001102	.0032486	.0031332	-.001893	-.000964	-.000924
#2	.000822	.0011846	-.001026	-.002977	-.002282	.028426
#3	-.002704	.0018448	-.001556	-.000709	-.002465	.001270

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000771	.0001056	-.000016	.0093589	.0006788	-.000175
Stddev	.000940	.0003413	.000102	.0396248	.0006854	.000246
%RSD	121.9496	323.2726	650.8653	423.3902	100.9653	140.4286
#1	.000275	-.000129	-.000093	.0535083	.0003233	-.000260
#2	-.001546	.000497	-.000054	-.023120	.0014689	.000102
#3	-.001043	-.000052	.000100	-.002311	.0002443	-.000368

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001541	.0368026	.0007719	-.018491	.0004075	.0004257
Stddev	.006612	.0308625	.0010215	.061149	.0003019	.0014761
%RSD	428.9695	83.85959	132.3369	330.6940	74.07801	346.7575
#1	-.004284	.0565365	-.000406	-.082624	.0003016	-.001060
#2	-.006340	.0012369	.001309	-.012009	.0007481	.001892
#3	.006001	.0526343	.001412	.039159	.0001729	.000446

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0345821	-.001558	.0016852	.1534823	.0011931	.0103698
Stddev	.0356641	.014547	.0008247	.0936763	.0005330	.0005412
%RSD	103.1290	933.9141	48.93545	61.03396	44.66946	5.219374
#1	.0571945	.010027	.0025475	.1817383	.0014690	.0104298
#2	.0530825	-.017884	.0016041	.2297780	.0015316	.0098011
#3	-.006531	.003184	.0009042	.0489305	.0005788	.0108786

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/29/2024 6:34:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008380	-.001025	.0002490	-.000588	.0040247	-.000144
Stddev	.0003001	.001761	.0018293	.001026	.0021408	.000167
%RSD	35.81647	171.8454	734.6669	174.5404	53.19126	116.0355
#1	.0009682	-.002909	-.000761	.000306	.0023503	-.000139
#2	.0004947	.000579	.002361	-.001708	.0032870	.000021
#3	.0010511	-.000743	-.000853	-.000362	.0064369	-.000313

Elem	Li6707
Units	ppm
Avg	F .0210260
Stddev	.0043333
%RSD	20.60930
#1	.0259675
#2	.0192363
#3	.0178743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2052.811	25801.49	1970.589	1309.311	1856.430
Stddev	5.756	141.96	17.997	2.610	2.603
%RSD	.2804135	.5502126	.9132593	.1993170	.1402185
#1	2047.805	25686.15	1959.402	1307.127	1854.984
#2	2059.101	25758.27	1991.349	1308.605	1859.435
#3	2051.527	25960.04	1961.017	1312.201	1854.871

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-01 Acquired: 12/29/2024 6:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0693799	-.046948	.2701112	.0705667	.0136321	70.07985
Stddev	.0022211	.004053	.0016508	.0052803	.0019949	2.55817
%RSD	3.201333	8.633520	.6111402	7.482750	14.63419	3.650366
#1	.0675459	-.042299	.2709312	.0646618	.0124184	67.13837
#2	.0718495	-.049740	.2682110	.0748348	.0125433	71.31608
#3	.0687443	-.048805	.2711914	.0722035	.0159345	71.78511

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9533996	.0104074	.0044619	111.2259	.0972042	.0532343
Stddev	.0352784	.0003401	.0000076	3.9107	.0011381	.0023259
%RSD	3.700279	3.268171	.1699925	3.515991	1.170870	4.369167
#1	.9127365	.0100149	.0044703	106.7225	.0985152	.0559085
#2	.9716210	.0106165	.0044555	113.1886	.0964698	.0521126
#3	.9758413	.0105907	.0044599	113.7665	.0966275	.0516819

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1417633	151.3819	4.921328	35.77534	.1358748	-.000755
Stddev	.0119309	5.5479	.175600	1.25747	.0007356	.001197
%RSD	8.416088	3.664871	3.568141	3.514897	.5413676	158.6255
#1	.1297649	144.9918	4.720426	34.35289	.1360482	-.002064
#2	.1418995	154.1832	4.998023	36.23415	.1365083	-.000483
#3	.1536256	154.9706	5.045534	36.73897	.1350681	.000284

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8997619	.1679891	.8174920	6.882857	F 28.98882	.0752204
Stddev	.0249998	.0054483	.0069171	.289619	.07589	.0038289
%RSD	2.778493	3.243272	.8461303	4.207826	.2617972	5.090217
#1	.8795222	.1624939	.8254762	6.561090	28.92611	.0708894
#2	.9277075	.1680840	.8136865	6.964820	29.07319	.0766162
#3	.8920561	.1733894	.8133132	7.122661	28.96715	.0781555

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-01 Acquired: 12/29/2024 6:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038044	2.355548	11.30857	.0211024	1.186498	.0633942
Stddev	.0004332	.010075	.31764	.0010710	.044171	.0019791
%RSD	11.38720	.4277312	2.808879	5.075416	3.722829	3.121848
#1	.0043007	2.357547	10.94530	.0221625	1.136175	.0611654
#2	.0036102	2.364474	11.44636	.0211239	1.204464	.0640717
#3	.0035023	2.344623	11.53405	.0200208	1.218856	.0649456

Elem	Li6707
Units	ppm
Avg	.0898374
Stddev	.0044318
%RSD	4.933173
#1	.0863366
#2	.0883552
#3	.0948203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2755.077	34632.33	2751.956	1753.427	1840.302
Stddev	8.071	114.96	83.543	5.880	2.213
%RSD	.2929418	.3319529	3.035760	.3353541	.1202659
#1	2752.387	34530.10	2847.637	1751.596	1839.387
#2	2764.150	34610.11	2714.757	1748.680	1842.826
#3	2748.696	34756.78	2693.474	1760.005	1838.693

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-02 Acquired: 12/29/2024 6:42:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0535680	-.025539	.2066887	.0459204	.0054993	51.11897	.6003138
Stddev	.0055097	.001476	.0020543	.0078750	.0025567	.15364	.0005447
%RSD	10.28553	5.778891	.9939342	17.14918	46.49095	.3005525	.0907321
#1	.0517265	-.024889	.2084819	.0501132	.0074905	51.17894	.6007322
#2	.0492148	-.024499	.2071370	.0368361	.0026161	51.23357	.5996980
#3	.0597626	-.027228	.2044472	.0508120	.0063913	50.94439	.6005113

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093548	.0038393	491.0758	.0790257	.0597099	.1881654	148.0190
Stddev	.0001006	.0000831	1.4239	.0014004	.0004564	.0025951	.4429
%RSD	1.075699	2.163901	.2899539	1.772030	.7643402	1.379151	.2991944
#1	.0094698	.0039209	492.4321	.0787510	.0593393	.1863185	148.4692
#2	.0092826	.0037548	491.2024	.0805431	.0595705	.1870454	147.5838
#3	.0093122	.0038421	489.5928	.0777831	.0602197	.1911325	148.0040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.708098	100.1291	.1429311	.0003738	.8733217	.1575494	.6087012
Stddev	.009540	.3792	.0004813	.0011330	.0084840	.0088382	.0017464
%RSD	.1237681	.3786621	.3367479	303.1262	.9714627	5.609808	.2869107
#1	7.711913	100.5531	.1427836	.0011744	.8782912	.1502889	.6096947
#2	7.715140	100.0117	.1425407	.0008696	.8781482	.1673907	.6097244
#3	7.697240	99.8225	.1434689	-.000923	.8635256	.1549684	.6066847

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.263065	8.319468	.0836119	.0028725	1.093551	9.759922	.0226818
Stddev	.040728	.021466	.0018772	.0006063	.008572	.117709	.0009733
%RSD	.7738515	.2580162	2.245078	21.10868	.7838835	1.206046	4.290898
#1	5.307190	8.343829	.0814481	.0034655	1.094107	9.826764	.0223925
#2	5.255090	8.303329	.0848046	.0022536	1.084714	9.828993	.0218860
#3	5.226914	8.311247	.0845830	.0028985	1.101831	9.624009	.0237669

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-02 Acquired: 12/29/2024 6:42:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5740682	.3547807	.0831059
Stddev	.0029731	.0012561	.0021262
%RSD	.5178955	.3540556	2.558382
#1	.5739553	.3534328	.0847565
#2	.5711532	.3559186	.0807067
#3	.5770961	.3549906	.0838545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2429.196	30462.66	2412.987	1530.843	1750.193
Stddev	7.402	127.48	20.066	10.700	3.062
%RSD	.3047292	.4184725	.8315799	.6989773	.1749633
#1	2437.411	30433.49	2397.812	1524.222	1751.811
#2	2427.135	30602.20	2405.411	1543.188	1752.108
#3	2423.043	30352.30	2435.738	1525.120	1746.662

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-03 Acquired: 12/29/2024 6:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0457273	-.033006	.1501493	.0539742	.0068924	47.88304	.5124572
Stddev	.0065153	.002475	.0034060	.0060542	.0049342	.26277	.0038323
%RSD	14.24823	7.497788	2.268435	11.21678	71.58924	.5487817	.7478182
#1	.0440310	-.035119	.1479327	.0593366	.0122347	47.85516	.5101161
#2	.0529229	-.030284	.1484441	.0551770	.0025062	48.15864	.5168798
#3	.0402278	-.033617	.1540711	.0474089	.0059364	47.63531	.5103758

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103887	.0050508	727.5299	.0748495	.0519366	.1206461	165.6283
Stddev	.0002272	.0000977	4.3198	.0009464	.0014476	.0046954	.8652
%RSD	2.187225	1.934076	.5937619	1.264411	2.787271	3.891908	.5223470
#1	.0101685	.0050474	726.4157	.0747236	.0514637	.1159510	165.7424
#2	.0106224	.0049549	732.2976	.0758525	.0507846	.1206456	166.4308
#3	.0103752	.0051501	723.8763	.0739723	.0535615	.1253418	164.7118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.195175	75.86583	.1422191	-.001118	.8436715	.1516540	.3440668
Stddev	.043279	.62076	.0008863	.000965	.0208691	.0075591	.0012435
%RSD	.6015007	.8182399	.6231720	86.31404	2.473604	4.984448	.3614073
#1	7.202764	75.97041	.1431833	-.000453	.8298741	.1450588	.3429017
#2	7.234158	76.42766	.1414400	-.000676	.8334605	.1500001	.3439227
#3	7.148604	75.19942	.1420340	-.002225	.8676799	.1599032	.3453761

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.360379	9.091992	.1095005	.0006310	.8246812	8.818181	.0238328
Stddev	.181472	.027372	.0021297	.0008809	.0058116	.095761	.0028895
%RSD	2.170616	.3010507	1.944924	139.5998	.7047067	1.085953	12.12415
#1	8.187876	9.063440	.1112388	.0007602	.8202738	8.782557	.0241289
#2	8.549655	9.094530	.1101379	-.000307	.8312673	8.926649	.0265628
#3	8.343608	9.118007	.1071249	.001440	.8225025	8.745339	.0208065

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-03 Acquired: 12/29/2024 6:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7475824	.3617523	.0880281
Stddev	.0042080	.0023896	.0061741
%RSD	.5628783	.6605685	7.013720
#1	.7472771	.3606594	.0809886
#2	.7519347	.3644929	.0905723
#3	.7435354	.3601045	.0925236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2409.942	30423.61	2413.567	1531.766	1721.120
Stddev	8.762	35.25	19.434	5.560	3.782
%RSD	.3635752	.1158614	.8052170	.3629491	.2197564
#1	2404.044	30461.71	2420.278	1538.021	1719.879
#2	2420.010	30416.97	2391.667	1529.889	1725.367
#3	2405.771	30392.15	2428.757	1527.387	1718.114

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-04 Acquired: 12/29/2024 6:50:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493272	-.079751	.2673995	.1151532	.0330096	62.92739
Stddev	.0040466	.005910	.0017782	.0041478	.0007929	.18762
%RSD	8.203511	7.410116	.6649896	3.601978	2.402130	.2981514
#1	.0519632	-.076471	.2677218	.1195137	.0329835	62.88915
#2	.0446680	-.086574	.2689946	.1112572	.0338152	63.13118
#3	.0513502	-.076210	.2654823	.1146887	.0322300	62.76183

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6631347	.0151789	.0059932	507.7709	.0921693	.0354019
Stddev	.0020087	.0002735	.0000150	1.0853	.0003839	.0009069
%RSD	.3029059	1.802043	.2509474	.2137351	.4165494	2.561610
#1	.6615475	.0154933	.0059843	507.6254	.0921821	.0362045
#2	.6653930	.0149961	.0060106	508.9216	.0925468	.0344181
#3	.6624635	.0150472	.0059847	506.7657	.0917792	.0355832

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001450	256.7472	6.534673	79.41753	.1939806	-.001355
Stddev	.0033399	.7754	.026038	.17669	.0005152	.000518
%RSD	3.335037	.3020238	.3984571	.2224787	.2656064	38.22639
#1	.1007240	256.0418	6.513258	79.23271	.1945218	-.001394
#2	.1031575	257.5775	6.563657	79.58477	.1939239	-.001852
#3	.0965535	256.6223	6.527105	79.43511	.1934961	-.000819

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8358188	.2418042	.3452211	10.58380	F 11.69660	.1501304
Stddev	.0061996	.0134050	.0009463	.07819	.00724	.0005655
%RSD	.7417372	5.543753	.2741099	.7387972	.0619286	.3766850
#1	.8307824	.2572016	.3461555	10.49910	11.69923	.1495806
#2	.8427427	.2354786	.3452442	10.65323	11.70216	.1501003
#3	.8339313	.2327325	.3442634	10.59907	11.68841	.1507104

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-04 Acquired: 12/29/2024 6:50:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	.8385777	10.54905	.0316121	1.773518	.1808135
Stddev	.000659	.0144951	.05174	.0029886	.008853	.0016885
%RSD	3084.541	1.728532	.4904556	9.453972	.4991572	.9338560
#1	-.000447	.8325888	10.59203	.0322560	1.778836	.1826938
#2	-.000354	.8280368	10.49162	.0283541	1.778419	.1794266
#3	.000737	.8551076	10.56350	.0342263	1.763299	.1803200

Elem	Li6707
Units	ppm
Avg	.1191063
Stddev	.0023976
%RSD	2.012987
#1	.1193506
#2	.1213724
#3	.1165959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2476.719	31531.55	2468.080	1583.794	1720.372
Stddev	3.631	139.67	12.422	6.980	1.360
%RSD	.1466153	.4429590	.5033156	.4407425	.0790308
#1	2474.876	31539.85	2454.594	1582.570	1718.809
#2	2480.902	31387.92	2479.055	1577.507	1721.278
#3	2474.378	31666.89	2470.591	1591.306	1721.029

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-05 Acquired: 12/29/2024 6:53:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249439	.0284902	.2850346	-.023678	-.023121	17.89099
Stddev	.0030344	.0044835	.0016398	.006160	.004029	.11416
%RSD	12.16475	15.73692	.5752981	26.01808	17.42347	.6380709
#1	.0274210	.0242562	.2836558	-.016641	-.022699	18.02177
#2	.0258513	.0331872	.2846001	-.028099	-.027344	17.83987
#3	.0215593	.0280273	.2868479	-.026292	-.019320	17.81132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1381817	.0044831	.0025735	F 1669.887	.0446212	.0667140
Stddev	.0007477	.0000331	.0000343	7.791	.0012630	.0008153
%RSD	.5411267	.7381713	1.331852	.4665579	2.830550	1.222127
#1	.1379837	.0044626	.0025774	1666.510	.0458078	.0668055
#2	.1375528	.0044655	.0026056	1678.797	.0432936	.0658568
#3	.1390085	.0045213	.0025374	1664.355	.0447623	.0674798

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0583552	64.04046	2.731640	263.8219	.0791445	.0000480
Stddev	.0038459	.27710	.015204	1.3017	.0004294	.0002814
%RSD	6.590563	.4326929	.5565915	.4933872	.5425936	586.4187
#1	.0604272	64.35530	2.749156	265.2615	.0793326	-.000030
#2	.0607207	63.93242	2.723918	263.4762	.0794478	.000360
#3	.0539175	63.83366	2.721847	262.7279	.0786531	-.000186

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.728803	.0349761	.3098788	4.695201	2.525485	.0819701
Stddev	.039615	.0071459	.0022205	.058296	.005041	.0009921
%RSD	2.291480	20.43081	.7165770	1.241616	.1995952	1.210331
#1	1.771126	.0427954	.3121815	4.714454	2.525356	.0830534
#2	1.692609	.0333483	.3097042	4.741435	2.520511	.0811058
#3	1.722675	.0287845	.3077508	4.629713	2.530590	.0817511

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-05 Acquired: 12/29/2024 6:53:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018692	28.13049	5.317972	.0238717	.1444448	1.024568
Stddev	.0005455	.10658	.041356	.0024099	.0027323	.002637
%RSD	29.18372	.3788684	.7776706	10.09507	1.891581	.2573510
#1	.0013806	28.01405	5.349246	.0255586	.1466909	1.026937
#2	.0017691	28.15422	5.271081	.0211117	.1452404	1.025041
#3	.0024577	28.22320	5.333588	.0249447	.1414030	1.021727

Elem	Li6707
Units	ppm
Avg	.0388896
Stddev	.0041160
%RSD	10.58373
#1	.0371996
#2	.0358876
#3	.0435816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2094.350	26739.17	2116.780	1340.834	1567.860
Stddev	7.439	86.58	11.844	4.662	5.906
%RSD	.3551984	.3237780	.5595118	.3477162	.3767047
#1	2099.915	26746.11	2103.279	1337.141	1573.045
#2	2097.235	26649.34	2121.644	1339.289	1569.106
#3	2085.901	26822.07	2125.417	1346.073	1561.431

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-06 Acquired: 12/29/2024 6:57:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0991539	-.021152	1.291475	.0432738	.0025968	67.88876
Stddev	.0018217	.002953	.006928	.0076991	.0038362	.10613
%RSD	1.837281	13.95891	.5364073	17.79170	147.7321	.1563363
#1	.0972547	-.024382	1.286270	.0448940	.0066009	67.77331
#2	.0993204	-.020479	1.288817	.0500338	.0022354	67.98210
#3	.1008867	-.018593	1.299338	.0348934	-.001046	67.91086

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6195686	.0103241	.0072250	F 826.7416	.1305900	.0696500
Stddev	.0010707	.0000806	.0000968	1.8282	.0001187	.0004523
%RSD	.1728058	.7810701	1.339879	.2211298	.0908815	.6493598
#1	.6204991	.0103001	.0072920	824.6336	.1304821	.0695541
#2	.6183984	.0104141	.0072690	827.6972	.1305707	.0701425
#3	.6198083	.0102582	.0071140	827.8939	.1307171	.0692534

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824965	150.3350	6.145483	142.2434	.1717565	.0000740
Stddev	.0054775	.2310	.009145	.3216	.0004839	.0013360
%RSD	3.001420	.1536800	.1488104	.2261244	.2817392	1805.802
#1	.1768702	150.0885	6.135847	142.1970	.1715965	.0010510
#2	.1828074	150.3699	6.154041	141.9474	.1713728	-.001448
#3	.1878119	150.5466	6.146562	142.5857	.1723001	.000619

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.407014	.1613398	1.346439	9.302544	7.564864	.0976708
Stddev	.017756	.0036733	.001975	.171003	.005734	.0013276
%RSD	.7376802	2.276727	.1466514	1.838244	.0757968	1.359250
#1	2.395673	.1574858	1.346611	9.298022	7.558266	.0976257
#2	2.427477	.1648007	1.344385	9.133846	7.568637	.0963663
#3	2.397892	.1617329	1.348322	9.475764	7.567690	.0990203

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-06 Acquired: 12/29/2024 6:57:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054928	11.68792	11.25549	.0482245	.7481522	.4393401
Stddev	.0005301	.02359	.02191	.0019225	.0018783	.0006526
%RSD	9.651125	.2018038	.1946963	3.986610	.2510538	.1485384
#1	.0048854	11.67722	11.23065	.0499381	.7501242	.4391507
#2	.0058622	11.67159	11.27207	.0485899	.7463844	.4400665
#3	.0057307	11.71496	11.26375	.0461455	.7479479	.4388032

Elem	Li6707
Units	ppm
Avg	.0819174
Stddev	.0030224
%RSD	3.689587
#1	.0790567
#2	.0816163
#3	.0850790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2241.210	28272.67	2243.612	1429.677	1666.052
Stddev	6.322	125.92	2.564	4.139	3.273
%RSD	.2820885	.4453690	.1142853	.2895044	.1964636
#1	2246.562	28134.51	2240.684	1425.544	1669.121
#2	2242.833	28302.50	2245.456	1433.822	1666.429
#3	2234.234	28380.99	2244.696	1429.666	1662.607

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-07 Acquired: 12/29/2024 7:01:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0654901	.0010231	1.135468	.0140535	-.012330	39.72004
Stddev	.0100190	.0024669	.003146	.0062201	.002480	.09931
%RSD	15.29856	241.1157	.2770575	44.26003	20.11454	.2500311
#1	.0601989	-.001106	1.137164	.0200628	-.009521	39.60639
#2	.0592258	.003727	1.131839	.0076421	-.014217	39.76362
#3	.0770454	.000449	1.137403	.0144556	-.013251	39.79012

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3409321	.0077996	.0197994	F 1312.551	.0718777	.0666258
Stddev	.0012704	.0002236	.0000549	1.883	.0007505	.0008578
%RSD	.3726160	2.867462	.2770965	.1434660	1.044135	1.287413
#1	.3394692	.0079077	.0198613	1310.379	.0710948	.0656355
#2	.3415707	.0075424	.0197800	1313.546	.0719473	.0671370
#3	.3417566	.0079486	.0197569	1313.727	.0725909	.0671048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0884763	116.4012	6.574773	705.3143	.1049874	.0002101
Stddev	.0024060	.3486	.032047	2.6139	.0003473	.0003264
%RSD	2.719363	.2994866	.4874169	.3705943	.3308233	155.3488
#1	.0912506	116.0425	6.545136	702.9475	.1048702	.0000838
#2	.0872170	116.7388	6.608781	708.1197	.1053781	-.000034
#3	.0869614	116.4223	6.570401	704.8756	.1047138	.000581

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.225427	.0927888	3.958924	8.205987	4.282398	.1205554
Stddev	.023820	.0064423	.017384	.142930	.010413	.0030296
%RSD	1.070344	6.942971	.4391189	1.741779	.2431670	2.513047
#1	2.205548	.0856659	3.942445	8.048870	4.279196	.1170659
#2	2.251829	.0944925	3.977090	8.328302	4.273962	.1225149
#3	2.218904	.0982081	3.957238	8.240790	4.294036	.1220854

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-07 Acquired: 12/29/2024 7:01:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030296	30.05451	9.187298	.0376059	.3556851	.4073138
Stddev	.0001828	.03201	.070392	.0023349	.0015253	.0015359
%RSD	6.033252	.1065018	.7661906	6.208774	.4288437	.3770936
#1	.0030335	30.02101	9.264141	.0349974	.3558280	.4089866
#2	.0032104	30.05776	9.171821	.0383196	.3571339	.4059670
#3	.0028449	30.08478	9.125933	.0395006	.3540933	.4069879

Elem	Li6707
Units	ppm
Avg	.0652631
Stddev	.0075509
%RSD	11.56999
#1	.0599638
#2	.0619165
#3	.0739090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2030.508	25986.97	2081.055	1291.068	1519.553
Stddev	7.321	30.98	4.907	9.879	6.256
%RSD	.3605555	.1191989	.2358032	.7651665	.4116984
#1	2025.997	26014.52	2075.410	1302.475	1518.620
#2	2038.955	25992.96	2083.458	1285.354	1526.224
#3	2026.571	25953.44	2084.298	1285.375	1513.817

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-08 Acquired: 12/29/2024 7:05:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1482824	-.023855	6.044205	.0676958	.0108254	86.63005
Stddev	.0061250	.010071	.011995	.0053264	.0023679	.69718
%RSD	4.130636	42.21970	.1984502	7.868104	21.87338	.8047822
#1	.1544509	-.029744	6.030838	.0678913	.0134086	85.94362
#2	.1422018	-.012226	6.047749	.0622744	.0087579	86.60903
#3	.1481944	-.029595	6.054028	.0729218	.0103096	87.33751

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.202108	.0130859	.0142482	501.5219	.1429554	.0764282
Stddev	.006625	.0000930	.0000696	3.2877	.0002224	.0010442
%RSD	.5511219	.7106376	.4882331	.6555455	.1555423	1.366272
#1	1.196795	.0131894	.0142036	498.2650	.1427060	.0767783
#2	1.199997	.0130095	.0142127	501.4610	.1430276	.0772524
#3	1.209531	.0130588	.0143284	504.8396	.1431327	.0752540

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3801559	162.6013	11.05905	279.1639	.2043417	.0028489
Stddev	.0033233	1.3272	.07999	1.9588	.0002707	.0011831
%RSD	.8742052	.8162099	.7233417	.7016734	.1324739	41.52786
#1	.3796773	161.4573	10.98492	277.3362	.2044431	.0040184
#2	.3836926	162.2903	11.04839	278.9236	.2045471	.0028755
#3	.3770979	164.0564	11.14384	281.2317	.2040350	.0016527

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.27230	.1514062	2.828199	9.432902	F 11.36943	.1030520
Stddev	.25029	.0121375	.010083	.098064	.02351	.0022314
%RSD	1.538135	8.016521	.3565085	1.039595	.2067453	2.165321
#1	16.00547	.1374006	2.817879	9.327300	11.34717	.1021669
#2	16.30955	.1579600	2.828692	9.521096	11.36710	.1055901
#3	16.50188	.1588580	2.838027	9.450311	11.39401	.1013988

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-08 Acquired: 12/29/2024 7:05:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109385	11.61688	10.23589	.1177565	.8154208	.2026276
Stddev	.0005715	.02731	.11989	.0010504	.0031465	.0006621
%RSD	5.224922	.2350681	1.171232	.8919991	.3858747	.3267607
#1	.0112380	11.59146	10.11946	.1189665	.8132932	.2022453
#2	.0102795	11.61343	10.22925	.1170787	.8139341	.2022454
#3	.0112982	11.64575	10.35896	.1172244	.8190352	.2033921

Elem	Li6707
Units	ppm
Avg	.0898056
Stddev	.0005028
%RSD	.5599053
#1	.0899109
#2	.0902474
#3	.0892585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2393.780	30244.20	2385.072	1520.450	1632.851
Stddev	7.689	29.80	29.004	5.588	8.282
%RSD	.3212249	.0985153	1.216074	.3675539	.5072329
#1	2400.889	30222.49	2411.245	1522.811	1641.430
#2	2385.619	30278.17	2390.082	1524.471	1624.901
#3	2394.831	30231.94	2353.889	1514.069	1632.223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-09 Acquired: 12/29/2024 7:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1504136	-.027392	5.990110	.0687201	.0075708	85.91676
Stddev	.0073980	.004756	.014242	.0019911	.0042662	.28065
%RSD	4.918466	17.36372	.2377623	2.897418	56.35139	.3266509
#1	.1556288	-.027223	5.976954	.0704862	.0102807	85.59610
#2	.1419466	-.022722	5.988142	.0665622	.0026531	86.03653
#3	.1536654	-.032230	6.005234	.0691119	.0097785	86.11765

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.189879	.0127552	.0141034	498.2593	.1419837	.0752499
Stddev	.002359	.0000524	.0001279	1.4770	.0004651	.0007248
%RSD	.1982534	.4111117	.9068621	.2964306	.3275586	.9631894
#1	1.188025	.0127849	.0141291	496.6006	.1425088	.0744581
#2	1.192534	.0127861	.0139645	499.4321	.1416236	.0754109
#3	1.189079	.0126947	.0142164	498.7453	.1418188	.0758807

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3745129	161.2191	10.94350	277.2830	.2018236	.0023605
Stddev	.0092268	.6848	.04340	.9274	.0007481	.0008988
%RSD	2.463674	.4247600	.3965454	.3344705	.3706762	38.07848
#1	.3850544	160.4289	10.89403	276.2224	.2015220	.0033948
#2	.3679039	161.6391	10.96132	277.9415	.2012734	.0017693
#3	.3705804	161.5892	10.97514	277.6852	.2026755	.0019173

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.96470	.1628706	2.824115	9.194812	F 11.25876	.1040486
Stddev	.03352	.0086255	.015159	.157470	.02545	.0028065
%RSD	.2099569	5.295893	.5367866	1.712601	.2260389	2.697281
#1	15.97066	.1667799	2.841540	9.301509	11.25142	.1008084
#2	15.99485	.1688493	2.816840	9.268973	11.23778	.1056201
#3	15.92861	.1529828	2.813964	9.013953	11.28707	.1057173

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-09 Acquired: 12/29/2024 7:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107853	11.52038	10.14293	.1157220	.8143260	.2029595
Stddev	.0005634	.02626	.06808	.0009715	.0073440	.0008568
%RSD	5.223970	.2279371	.6712387	.8394832	.9018494	.4221654
#1	.0111302	11.50030	10.15018	.1160360	.8070803	.2037448
#2	.0101351	11.51073	10.20710	.1146324	.8141331	.2030878
#3	.0110906	11.55009	10.07151	.1164977	.8217645	.2020457

Elem	Li6707
Units	ppm
Avg	.0876028
Stddev	.0025095
%RSD	2.864651
#1	.0854096
#2	.0903396
#3	.0870594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2406.704	30476.93	2429.518	1528.768	1644.141
Stddev	5.393	36.11	16.546	9.164	5.620
%RSD	.2240781	.1184918	.6810487	.5994084	.3418237
#1	2412.684	30511.83	2427.379	1518.676	1649.893
#2	2405.218	30439.72	2414.146	1531.057	1643.868
#3	2402.210	30479.23	2447.030	1536.569	1638.663

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-08LX5 Acquired: 12/29/2024 7:13:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192107	.0135384	1.073446	-.005067	-.014060	12.05266	.2885530
Stddev	.0036321	.0016779	.003586	.002861	.002005	.02692	.0018989
%RSD	18.90686	12.39388	.3340769	56.46147	14.25654	.2233623	.6580604
#1	.0192275	.0122103	1.072517	-.001789	-.015362	12.06741	.2898940
#2	.0155702	.0129807	1.077406	-.006353	-.011752	12.06899	.2863802
#3	.0228344	.0154241	1.070416	-.007060	-.015067	12.02159	.2893848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026117	.0024924	104.1462	.0371810	.0367713	.0719373	39.03842
Stddev	.0002097	.0000691	.5178	.0012464	.0004097	.0075019	.23453
%RSD	8.027537	2.772827	.4972041	3.352124	1.114160	10.42834	.6007657
#1	.0027782	.0024564	104.7300	.0364431	.0372336	.0802687	39.23624
#2	.0026806	.0024487	103.7423	.0386201	.0366271	.0657176	38.77934
#3	.0023762	.0025720	103.9665	.0364800	.0364532	.0698256	39.09969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.386235	58.29979	.0350588	.0007168	.2588300	.0226473	.6344093
Stddev	.011582	.32524	.0001177	.0017491	.0094603	.0132955	.0022541
%RSD	.4853534	.5578785	.3358029	244.0159	3.655044	58.70692	.3553058
#1	2.399515	58.64941	.0349473	.0023233	.2544654	.0257286	.6318771
#2	2.380958	58.00621	.0350474	.0009736	.2523399	.0341316	.6351540
#3	2.378231	58.24373	.0351819	-.001146	.2696847	.0080816	.6361969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.388428	1.469900	.0228314	.0041738	2.252154	2.384603	.0202309
Stddev	.179932	.004789	.0011569	.0003016	.001988	.025165	.0001882
%RSD	12.95941	.3258304	5.067260	7.226612	.0882925	1.055323	.9303573
#1	1.391571	1.468715	.0241587	.0045212	2.250689	2.412045	.0201037
#2	1.206946	1.465814	.0220361	.0039781	2.254418	2.379156	.0201420
#3	1.566769	1.475170	.0222996	.0040222	2.251355	2.362607	.0204472

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-08LX5 Acquired: 12/29/2024 7:13:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1440724	.0295556	.0208706
Stddev	.0043567	.0005613	.0028633
%RSD	3.023933	1.899250	13.71935
#1	.1463207	.0298448	.0230163
#2	.1390510	.0289087	.0219760
#3	.1468457	.0299134	.0176193

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2127.256	26819.31	2041.800	1360.859	1796.959
Stddev	4.479	15.74	23.825	11.001	1.551
%RSD	.2105516	.0586846	1.166857	.8083542	.0863127
#1	2125.075	26816.29	2014.650	1369.032	1797.581
#2	2124.286	26836.34	2051.527	1365.193	1795.193
#3	2132.408	26805.30	2059.222	1348.351	1798.102

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-10 Acquired: 12/29/2024 7:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2218984	.0456543	5.262413	.2235216	.1774158	57.53943	4.786941
Stddev	.0012118	.0034584	.017060	.0009028	.0011661	.09418	.015164
%RSD	.5461095	7.575238	.3241896	.4038975	.6572771	.1636707	.3167757
#1	.2230611	.0494979	5.250754	.2234330	.1778613	57.63529	4.804353
#2	.2219912	.0446709	5.254491	.2226664	.1782935	57.53596	4.776635
#3	.2206428	.0427940	5.281994	.2244655	.1760926	57.44703	4.779835

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0986352	.1099507	451.0949	.5192961	1.042136	.7348632	170.1196
Stddev	.0004995	.0002021	1.1887	.0026253	.002530	.0076318	.6810
%RSD	.5063844	.1838179	.2635201	.5055524	.2427863	1.038538	.4003164
#1	.0990680	.1097213	452.3816	.5162774	1.041970	.7270176	170.7905
#2	.0987490	.1100282	450.0376	.5210455	1.039693	.7422616	170.1395
#3	.0980886	.1101026	450.8655	.5205655	1.044745	.7353105	169.4289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.11918	253.2183	1.151911	.0668123	1.264679	1.022374	3.544118
Stddev	.02665	.9631	.003935	.0018690	.007217	.011886	.005858
%RSD	.2396999	.3803409	.3416375	2.797324	.5706715	1.162546	.1652992
#1	11.14895	254.2035	1.152934	.0688599	1.271117	1.034896	3.545889
#2	11.11105	253.1725	1.147565	.0663787	1.256877	1.020980	3.537579
#3	11.09754	252.2790	1.155234	.0651982	1.266043	1.011248	3.548888

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.766654	7.356936	.0949239	.0095474	11.11136	10.31333	.1033196
Stddev	.193395	.011411	.0007520	.0001759	.02960	.04325	.0012657
%RSD	2.858056	.1551113	.7921813	1.842380	.2663761	.4193234	1.225073
#1	6.788460	7.347638	.0953282	.0095840	11.10708	10.28822	.1037675
#2	6.563280	7.353499	.0953872	.0093561	11.08414	10.36327	.1043006
#3	6.948221	7.369671	.0940562	.0097022	11.14287	10.28851	.1018909

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-10 Acquired: 12/29/2024 7:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6339381	.1332746	.0640469
Stddev	.0006727	.0007931	.0030339
%RSD	.1061218	.5951191	4.737026
#1	.6339597	.1324524	.0644380
#2	.6345998	.1333364	.0608363
#3	.6332549	.1340351	.0668662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2303.779	29228.80	2246.004	1467.740	1677.288
Stddev	3.894	94.39	7.866	5.450	1.990
%RSD	.1690478	.3229384	.3502409	.3713077	.1186693
#1	2305.443	29322.01	2253.968	1472.131	1679.432
#2	2299.329	29231.13	2238.239	1469.448	1676.932
#3	2306.565	29133.27	2245.805	1461.640	1675.499

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-11 Acquired: 12/29/2024 7:21:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166453	-.059815	6.850786	.1035135	.0271200	71.59733
Stddev	.0047746	.004193	.028011	.0005647	.0036977	.49954
%RSD	2.203869	7.009967	.4088722	.5455563	13.63442	.6977096
#1	.2183545	-.064572	6.844996	.1041653	.0234510	72.17415
#2	.2203302	-.056655	6.826123	.1031703	.0270635	71.30817
#3	.2112514	-.058218	6.881240	.1032050	.0308457	71.30968

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.043422	.0160440	.0259767	175.9536	.1844102	.0560358
Stddev	.012964	.0001665	.0001879	.8981	.0000665	.0006930
%RSD	.6344494	1.038031	.7234588	.5103907	.0360510	1.236684
#1	2.058005	.0161721	.0258422	176.9905	.1844679	.0555435
#2	2.039059	.0161043	.0261915	175.4458	.1844253	.0557356
#3	2.033202	.0158558	.0258965	175.4245	.1843375	.0568283

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5273258	205.9591	10.69644	56.11791	.2542640	.0049169
Stddev	.0061134	1.5255	.06315	.29245	.0008370	.0007660
%RSD	1.159311	.7406814	.5903370	.5211305	.3291848	15.57947
#1	.5341214	207.6517	10.76911	56.41683	.2538056	.0040790
#2	.5222734	205.5349	10.66529	56.10452	.2552301	.0050902
#3	.5255826	204.6905	10.65492	55.83240	.2537563	.0055814

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.143063	.1927897	4.605315	6.901401	F 12.73098	.1188289
Stddev	.017154	.0106247	.031294	.144675	.05511	.0029033
%RSD	1.500746	5.511053	.6795153	2.096310	.4328544	2.443305
#1	1.126942	.2018001	4.590615	7.050481	12.70293	.1215734
#2	1.141156	.1810737	4.584078	6.892146	12.69554	.1157892
#3	1.161091	.1954952	4.641253	6.761576	12.79447	.1191242

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-11 Acquired: 12/29/2024 7:21:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114559	6.346753	11.01358	.1606941	.8636351	.3950639
Stddev	.0008681	.012985	.05429	.0013825	.0061229	.0014747
%RSD	7.577384	.2045926	.4929387	.8603246	.7089649	.3732690
#1	.0112592	6.342595	11.07164	.1604606	.8697171	.3967589
#2	.0124055	6.336356	11.00505	.1621785	.8574721	.3943568
#3	.0107032	6.361307	10.96407	.1594433	.8637162	.3940759

Elem	Li6707
Units	ppm
Avg	.0838031
Stddev	.0011137
%RSD	1.328965
#1	.0850744
#2	.0833350
#3	.0829998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2539.118	32002.44	2446.233	1635.034	1836.633
Stddev	4.874	264.02	18.967	10.309	6.533
%RSD	.1919443	.8250060	.7753365	.6305204	.3556981
#1	2540.057	31753.09	2425.484	1631.708	1840.050
#2	2543.453	32279.03	2450.538	1646.596	1840.748
#3	2533.843	31975.20	2462.677	1626.799	1829.100

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-12 Acquired: 12/29/2024 7:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0652112	.0160076	1.681008	.0022810	-.011534	31.05207
Stddev	.0023881	.0038397	.002187	.0038426	.000405	.08451
%RSD	3.662145	23.98657	.1301151	168.4604	3.513952	.2721536
#1	.0625819	.0164088	1.680228	.0029160	-.011151	31.14459
#2	.0672458	.0119831	1.679319	.0057667	-.011959	31.03268
#3	.0658058	.0196309	1.683479	-.001840	-.011493	30.97894

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7621284	.0061586	.0056375	798.5427	.0681042	.0659646
Stddev	.0022090	.0002157	.0000575	1.6673	.0009591	.0010399
%RSD	.2898471	3.502756	1.019489	.2087963	1.408314	1.576407
#1	.7645071	.0061340	.0055759	799.6364	.0670101	.0671635
#2	.7601416	.0059562	.0056896	799.3681	.0688002	.0654226
#3	.7617364	.0063856	.0056471	796.6237	.0685022	.0653077

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1556504	77.93609	7.267562	35.18007	.0954738	.0009090
Stddev	.0026454	.18042	.025906	.24111	.0009514	.0007807
%RSD	1.699551	.2314955	.3564655	.6853720	.9965548	85.88153
#1	.1586218	78.10936	7.281172	35.05675	.0962485	.0014687
#2	.1535514	77.94962	7.283826	35.45790	.0944118	.0000172
#3	.1547780	77.74928	7.237687	35.02556	.0957611	.0012411

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.045305	.0618777	.9822755	2.858672	F 11.48957	.0542109
Stddev	.010920	.0107143	.0036717	.108183	.01381	.0022874
%RSD	1.044706	17.31533	.3737967	3.784390	.1201975	4.219379
#1	1.044360	.0495169	.9858933	2.853334	11.48150	.0559824
#2	1.034888	.0676042	.9823809	2.969425	11.48169	.0550216
#3	1.056667	.0685119	.9785522	2.753256	11.50551	.0516286

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-12 Acquired: 12/29/2024 7:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028696	1.702966	7.283779	.0577447	.3265786	.7722876
Stddev	.0004086	.002482	.018004	.0026930	.0050191	.0007991
%RSD	14.23913	.1457230	.2471778	4.663687	1.536882	.1034648
#1	.0033169	1.701272	7.270693	.0588108	.3250486	.7727511
#2	.0025159	1.701813	7.276333	.0546818	.3321847	.7713650
#3	.0027761	1.705815	7.304311	.0597413	.3225025	.7727468

Elem	Li6707
Units	ppm
Avg	.0447159
Stddev	.0021422
%RSD	4.790610
#1	.0471882
#2	.0434117
#3	.0435478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.871	30313.69	2332.154	1529.885	1728.045
Stddev	7.479	93.94	3.653	7.076	5.678
%RSD	.3106165	.3098954	.1566376	.4625225	.3285681
#1	2402.912	30264.24	2336.372	1525.035	1724.113
#2	2416.473	30254.80	2330.094	1526.615	1734.555
#3	2404.226	30422.03	2329.996	1538.004	1725.469

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-13 Acquired: 12/29/2024 7:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1104664	-.011125	2.085001	.0431758	-.002087	53.90796	.8955143
Stddev	.0042800	.004386	.003210	.0085245	.000801	.29869	.0038351
%RSD	3.874472	39.42665	.1539647	19.74378	38.37912	.5540765	.4282620
#1	.1116006	-.014253	2.082786	.0338320	-.001190	54.25183	.8999395
#2	.1057336	-.013011	2.088683	.0505287	-.002340	53.71300	.8934499
#3	.1140651	-.006111	2.083534	.0451668	-.002732	53.75904	.8931536

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097184	.0066646	776.5418	.0941841	.0800293	.3214481	142.4882
Stddev	.0001254	.0000545	5.0619	.0001617	.0009001	.0084536	.8448
%RSD	1.290293	.8184407	.6518465	.1716623	1.124760	2.629846	.5929060
#1	.0098421	.0067261	782.2436	.0943460	.0804194	.3294892	143.4410
#2	.0097215	.0066458	772.5776	.0941837	.0789999	.3222201	142.1930
#3	.0095914	.0066219	774.8043	.0940227	.0806686	.3126350	141.8306

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.48602	72.14789	.1483871	.0030579	1.264312	.1164917	1.082118
Stddev	.07381	.47845	.0010905	.0009530	.011795	.0028277	.003546
%RSD	.5911805	.6631451	.7348770	31.16562	.9329570	2.427387	.3277128
#1	12.57125	72.68079	.1494060	.0025744	1.251349	.1163860	1.078282
#2	12.44414	72.00759	.1485183	.0024435	1.267177	.1193708	1.085278
#3	12.44267	71.75527	.1472370	.0041557	1.274412	.1137184	1.082793

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.821591	8.414337	.0976231	.0041859	2.305820	9.808812	.0676059
Stddev	.152169	.020479	.0025745	.0005621	.005942	.119673	.0012382
%RSD	1.945505	.2433853	2.637176	13.42761	.2576784	1.220060	1.831471
#1	7.645884	8.391059	.0947647	.0045210	2.303179	9.943770	.0677019
#2	7.910349	8.422368	.0997594	.0035370	2.301657	9.767048	.0687932
#3	7.908541	8.429583	.0983453	.0044998	2.312624	9.715616	.0663224

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-13 Acquired: 12/29/2024 7:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4798359	.7122716	.0843482
Stddev	.0018185	.0059111	.0033327
%RSD	.3789823	.8298920	3.951166
#1	.4793124	.7178657	.0877362
#2	.4783366	.7060877	.0842347
#3	.4818587	.7128613	.0810736

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2391.988	30025.12	2360.220	1511.928	1694.703
Stddev	6.189	97.87	24.935	1.493	2.474
%RSD	.2587321	.3259735	1.056476	.0987544	.1459593
#1	2386.106	29999.48	2331.453	1513.465	1694.345
#2	2398.444	30133.26	2375.648	1511.836	1697.336
#3	2391.414	29942.62	2373.560	1510.483	1692.428

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-14 Acquired: 12/29/2024 7:32:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1168396	-.023594	1.238782	.0616099	.0092609	67.59520
Stddev	.0051916	.004677	.000253	.0118642	.0043373	3.04108
%RSD	4.443333	19.82232	.0203866	19.25704	46.83478	4.498954
#1	.1144419	-.019303	1.239071	.0583509	.0128707	65.06421
#2	.1227966	-.028579	1.238668	.0747630	.0044495	70.96871
#3	.1132802	-.022900	1.238606	.0517157	.0104625	66.75269

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.149990	.0105639	.0076683	210.2881	.1915789	.0643101
Stddev	.051121	.0004225	.0001892	9.5962	.0054922	.0033021
%RSD	4.445307	3.999615	2.466933	4.563376	2.866801	5.134572
#1	1.106914	.0101535	.0076881	202.1715	.1902631	.0672457
#2	1.206480	.0109976	.0074700	220.8793	.1868642	.0607351
#3	1.136576	.0105406	.0078467	207.8135	.1976095	.0649494

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3075102	150.4575	12.00779	58.94271	.2018931	.0047704
Stddev	.0154167	6.6067	.50733	2.40277	.0001465	.0011831
%RSD	5.013389	4.391053	4.225011	4.076442	.0725579	24.80046
#1	.2969201	145.0344	11.58169	56.88716	.2019465	.0039840
#2	.3251972	157.8156	12.56900	61.58427	.2020055	.0061310
#3	.3004132	148.5226	11.87267	58.35670	.2017275	.0041961

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4911760	.1627078	1.817959	10.24887	F 11.59188	.0987406
Stddev	.0161026	.0014986	.054720	.69097	.03662	.0030905
%RSD	3.278383	.9210269	3.009964	6.741908	.3159348	3.129947
#1	.4862149	.1636255	1.807214	9.62940	11.56662	.0957946
#2	.5091754	.1609784	1.769409	10.99407	11.57514	.1019578
#3	.4781377	.1635193	1.877254	10.12314	11.63388	.0984693

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-14 Acquired: 12/29/2024 7:32:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100495	4.687602	11.03102	.0566316	.7146045	.1133573
Stddev	.0004479	.032600	.37040	.0008926	.0296234	.0063082
%RSD	4.457224	.6954505	3.357812	1.576216	4.145420	5.564851
#1	.0097665	4.684000	10.76294	.0564044	.6879527	.1076138
#2	.0105659	4.656952	11.45368	.0558745	.7464993	.1201088
#3	.0098160	4.721853	10.87645	.0576158	.7093615	.1123494

Elem	Li6707
Units	ppm
Avg	.0846054
Stddev	.0023217
%RSD	2.744167
#1	.0833372
#2	.0872850
#3	.0831940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2361.513	29948.94	2291.677	1522.137	1795.131
Stddev	10.820	688.15	87.922	38.714	6.382
%RSD	.4581995	2.297741	3.836570	2.543419	.3555208
#1	2362.436	30214.92	2364.537	1537.535	1796.779
#2	2371.843	30464.41	2194.019	1550.783	1800.527
#3	2350.262	29167.50	2316.473	1478.093	1788.086

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-15 Acquired: 12/29/2024 7:36:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1366038	-.031582	1.936084	.0752086	.0117498	75.94944
Stddev	.0032973	.004755	.004953	.0028437	.0068105	.43399
%RSD	2.413794	15.05508	.2558325	3.781022	57.96230	.5714251
#1	.1391171	-.032669	1.935103	.0731222	.0131371	75.88450
#2	.1328702	-.035698	1.931694	.0740559	.0177599	76.41224
#3	.1378239	-.026377	1.941454	.0784476	.0043525	75.55157

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.380072	.0121758	.0107422	375.8682	.2482758	.0666330
Stddev	.006212	.0001970	.0001203	1.7433	.0012539	.0014941
%RSD	.4501272	1.618303	1.120221	.4637980	.5050515	2.242325
#1	1.377748	.0124013	.0108181	375.8627	.2471736	.0682862
#2	1.387111	.0120894	.0106035	377.6142	.2496401	.0653790
#3	1.375358	.0120368	.0108051	374.1277	.2480138	.0662339

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3776713	178.9371	11.82863	156.0853	.2500111	.0050311
Stddev	.0079681	.7226	.07503	.9400	.0008152	.0004617
%RSD	2.109805	.4038186	.6342800	.6022110	.3260629	9.176581
#1	.3864307	178.8152	11.82112	155.8329	.2491592	.0049761
#2	.3708532	179.7128	11.90714	157.1257	.2500904	.0055178
#3	.3757301	178.2832	11.75765	155.2973	.2507837	.0045994

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7031714	.1954756	3.560030	10.28877	F 14.71210	.1103128
Stddev	.0165973	.0038395	.019742	.12877	.03213	.0012727
%RSD	2.360349	1.964190	.5545400	1.251558	.2183781	1.153729
#1	.6857074	.1995077	3.561952	10.35094	14.72660	.1112665
#2	.7187391	.1918632	3.578740	10.37466	14.67528	.1088676
#3	.7050679	.1950559	3.539397	10.14072	14.73442	.1108042

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-15 Acquired: 12/29/2024 7:36:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088638	6.629655	11.76899	.0480632	.6607938	.1533302
Stddev	.0004884	.014072	.11142	.0002567	.0067897	.0009598
%RSD	5.510147	.2122553	.9467013	.5341329	1.027500	.6259750
#1	.0083084	6.643300	11.74688	.0483591	.6557835	.1528767
#2	.0090565	6.615192	11.88980	.0479305	.6685212	.1544327
#3	.0092264	6.630472	11.67028	.0479000	.6580768	.1526811

Elem	Li6707
Units	ppm
Avg	.1027000
Stddev	.0026103
%RSD	2.541674
#1	.1050406
#2	.1031743
#3	.0998851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.979	30852.16	2398.811	1553.187	1719.578
Stddev	9.147	143.37	14.389	4.725	6.683
%RSD	.3758001	.4646930	.5998243	.3042005	.3886452
#1	2444.522	30732.54	2392.817	1548.023	1727.280
#2	2428.159	31011.08	2388.388	1554.244	1716.135
#3	2429.257	30812.88	2415.227	1557.294	1715.318

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-16 Acquired: 12/29/2024 7:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0919068	-.013970	1.218307	.0467966	.0066163	58.24132
Stddev	.0045378	.000930	.007048	.0079565	.0055814	.46034
%RSD	4.937362	6.654398	.5785178	17.00222	84.35884	.7903996
#1	.0928600	-.014875	1.210209	.0536801	.0129648	57.72643
#2	.0869682	-.013017	1.221650	.0486244	.0024803	58.38437
#3	.0958923	-.014019	1.223061	.0380853	.0044038	58.61315

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062315	.0096919	.0078480	599.7201	.1770514	.0706007
Stddev	.008023	.0001131	.0001101	4.7286	.0013827	.0012706
%RSD	.7552402	1.167144	1.403278	.7884699	.7809634	1.799743
#1	1.053174	.0097637	.0077508	594.4216	.1786360	.0715646
#2	1.065581	.0095615	.0078258	601.2275	.1764278	.0710765
#3	1.068189	.0097504	.0079676	603.5113	.1760903	.0691608

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3034269	145.9440	12.78613	206.2583	.1818357	.0044288
Stddev	.0042843	1.2922	.10448	1.8517	.0003299	.0016533
%RSD	1.411976	.8854131	.8171280	.8977353	.1814293	37.33118
#1	.3017837	144.4900	12.66899	204.1366	.1821807	.0036418
#2	.3082895	146.3812	12.81973	207.0900	.1815233	.0033160
#3	.3002074	146.9610	12.86968	207.5481	.1818031	.0063287

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9481166	.1287987	2.325056	7.422932	F 10.64367	.0916672
Stddev	.0192050	.0018708	.006508	.194353	.01656	.0023447
%RSD	2.025591	1.452466	.2799198	2.618280	.1556033	2.557820
#1	.9696178	.1305924	2.331850	7.220283	10.62512	.0889613
#2	.9326644	.1289443	2.318878	7.440752	10.64889	.0929434
#3	.9420675	.1268594	2.324439	7.607762	10.65699	.0930970

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-16 Acquired: 12/29/2024 7:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084067	4.036370	11.65860	.0594448	.6213400	.3637660
Stddev	.0006288	.010188	.07699	.0020213	.0032382	.0029478
%RSD	7.479288	.2523959	.6603986	3.400284	.5211557	.8103596
#1	.0077618	4.030140	11.72789	.0574734	.6180080	.3607337
#2	.0090180	4.048127	11.57572	.0593485	.6215368	.3639429
#3	.0084403	4.030843	11.67221	.0615125	.6244753	.3666214

Elem	Li6707
Units	ppm
Avg	.0823332
Stddev	.0023424
%RSD	2.845026
#1	.0826381
#2	.0798532
#3	.0845082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.458	28528.22	2235.786	1431.975	1620.756
Stddev	6.376	71.84	4.683	7.440	2.732
%RSD	.2849850	.2518102	.2094505	.5195625	.1685582
#1	2232.759	28451.09	2230.379	1425.334	1617.724
#2	2234.898	28540.34	2238.405	1430.575	1621.516
#3	2244.716	28593.22	2238.573	1440.015	1623.027

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-17 Acquired: 12/29/2024 7:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1704485	-.060332	2.731081	.0992729	.0441176	50.95662	1.295576
Stddev	.0034282	.001851	.008257	.0011031	.0041227	.19541	.006358
%RSD	2.011251	3.068177	.3023400	1.111188	9.344919	.3834757	.4907092
#1	.1715738	-.058308	2.735889	.1005009	.0407014	50.74388	1.290529
#2	.1665991	-.060750	2.721547	.0989517	.0486970	51.12811	1.302717
#3	.1731725	-.061938	2.735808	.0983659	.0429544	50.99788	1.293483

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142320	.0063184	338.2181	.0969678	.0303833	.8606686	222.4062
Stddev	.0000920	.0001685	1.7056	.0003054	.0006392	.0043157	1.2322
%RSD	.6466621	2.666849	.5042851	.3149104	2.103801	.5014340	.5540190
#1	.0142168	.0063872	336.3542	.0966194	.0307562	.8556975	221.3374
#2	.0143306	.0061264	339.7008	.0970951	.0296452	.8634559	223.7539
#3	.0141485	.0064417	338.5993	.0971889	.0307484	.8628525	222.1273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.802977	72.25676	.1703466	.0015646	.8062404	.1568743	1.508474
Stddev	.038127	.59963	.0009055	.0003158	.0568568	.0065042	.006324
%RSD	.4886163	.8298651	.5315602	20.18701	7.052085	4.146112	.4192157
#1	7.760243	71.65959	.1695383	.0018966	.7778899	.1571607	1.509849
#2	7.833510	72.85883	.1701764	.0015290	.8716980	.1502317	1.501576
#3	7.815177	72.25186	.1713251	.0012680	.7691332	.1632306	1.513997

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.021558	9.560984	.1148425	.0099132	3.829467	10.28449	.4440737
Stddev	.063449	.029245	.0023504	.0004300	.008474	.05530	.0046625
%RSD	.9036357	.3058781	2.046626	4.337119	.2212796	.5376884	1.049927
#1	6.973554	9.571806	.1128487	.0098166	3.837382	10.31834	.4387015
#2	7.093492	9.527870	.1142447	.0095397	3.820528	10.31445	.4470650
#3	6.997627	9.583275	.1174341	.0103832	3.830490	10.22068	.4464545

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-17 Acquired: 12/29/2024 7:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7298453	.2880738	.0775454
Stddev	.0147946	.0008203	.0023571
%RSD	2.027082	.2847449	3.039659
#1	.7210994	.2888207	.0748826
#2	.7469269	.2882048	.0783887
#3	.7215095	.2871959	.0793649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.950	29669.55	2282.398	1495.310	1770.987
Stddev	7.815	243.05	19.943	6.318	5.298
%RSD	.3331146	.8191897	.8737938	.4225540	.2991293
#1	2336.939	29870.07	2288.754	1498.329	1766.168
#2	2350.044	29399.24	2260.051	1488.048	1776.660
#3	2350.867	29739.33	2298.389	1499.552	1770.132

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-18 Acquired: 12/29/2024 7:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1587798	-.030626	7.492044	.0792946	.2507722	66.73649
Stddev	.0036023	.004104	.013651	.0015196	.0024612	.08535
%RSD	2.268753	13.39996	.1822123	1.916394	.9814552	.1278909
#1	.1620840	-.028441	7.476442	.0797663	.2480585	66.64876
#2	.1549394	-.028078	7.501795	.0805224	.2513981	66.81924
#3	.1593159	-.035361	7.497893	.0775951	.2528601	66.74148

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.485101	.0124410	.0085558	169.2591	.1064368	.0666123
Stddev	.001613	.0000250	.0000967	.3170	.0011893	.0003863
%RSD	.1085958	.2005202	1.130143	.1872619	1.117416	.5799913
#1	1.486328	.0124574	.0084549	168.8952	.1053556	.0662214
#2	1.485699	.0124534	.0085649	169.4066	.1062440	.0669939
#3	1.483274	.0124123	.0086477	169.4753	.1077107	.0666216

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6229749	171.3754	14.46313	49.43640	.1788509	.0028450
Stddev	.0019571	.4239	.00534	.16092	.0001354	.0012547
%RSD	.3141494	.2473415	.0369309	.3255124	.0757301	44.10104
#1	.6209762	171.0069	14.45733	49.29077	.1787138	.0026396
#2	.6230611	171.2806	14.46420	49.40927	.1789846	.0017057
#3	.6248875	171.8387	14.46785	49.60916	.1788544	.0041897

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5131689	.1660497	1.223441	8.406937	F 13.14979	.0946948
Stddev	.0089063	.0052693	.001600	.066113	.04115	.0025640
%RSD	1.735556	3.173307	.1307633	.7864055	.3129089	2.707619
#1	.5161013	.1703287	1.223551	8.419518	13.10231	.0957025
#2	.5031661	.1676561	1.224984	8.335438	13.17198	.0917800
#3	.5202393	.1601642	1.221790	8.465855	13.17507	.0966018

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-18 Acquired: 12/29/2024 7:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116402	3.762622	10.72411	1.821732	.5208398	.1460284
Stddev	.0004926	.006022	.01379	.005718	.0033467	.0002910
%RSD	4.231543	.1600571	.1286239	.3138867	.6425532	.1992711
#1	.0111977	3.756365	10.71330	1.815175	.5227004	.1463027
#2	.0121709	3.763124	10.73965	1.825683	.5228428	.1460593
#3	.0115519	3.768378	10.71938	1.824338	.5169763	.1457232

Elem	Li6707
Units	ppm
Avg	.1056015
Stddev	.0029508
%RSD	2.794251
#1	.1032005
#2	.1088957
#3	.1047083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2672.193	33535.71	2610.597	1697.695	1836.625
Stddev	15.038	44.33	3.161	5.618	7.249
%RSD	.5627696	.1321820	.1210807	.3309417	.3946778
#1	2689.215	33552.66	2612.108	1704.068	1844.954
#2	2666.655	33569.06	2606.964	1695.558	1833.180
#3	2660.708	33485.40	2612.719	1693.459	1831.742

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-19 Acquired: 12/29/2024 7:51:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1539405	-.021921	2.055378	.0829920	.0444455	68.44779
Stddev	.0088895	.006488	.005555	.0011248	.0047705	.25950
%RSD	5.774637	29.59687	.2702806	1.355364	10.73342	.3791254
#1	.1438982	-.022925	2.053419	.0819261	.0443728	68.15209
#2	.1571213	-.027848	2.051068	.0828821	.0397117	68.55362
#3	.1608020	-.014990	2.061648	.0841677	.0492519	68.63764

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408067	.0121600	.0089444	225.9861	.1138227	.0707517
Stddev	.005643	.0002444	.0001817	.6075	.0011291	.0001179
%RSD	.4007572	2.010008	2.031696	.2688040	.9919524	.1666768
#1	1.401577	.0119142	.0089834	225.6166	.1146245	.0707018
#2	1.410802	.0121628	.0087464	225.6545	.1143121	.0706670
#3	1.411821	.0124031	.0091035	226.6872	.1125315	.0708864

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3948208	163.4904	15.96119	30.27891	.1800402	.0047090
Stddev	.0100397	.4785	.06938	.26407	.0008140	.0001086
%RSD	2.542838	.2927017	.4346910	.8721357	.4521173	2.306860
#1	.4063319	162.9828	15.90149	29.97791	.1808093	.0045877
#2	.3902545	163.5552	15.94477	30.47168	.1801237	.0047419
#3	.3878759	163.9333	16.03731	30.38713	.1791877	.0047974

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5084565	.1499712	1.006061	8.412418	F 13.08662	.0860267
Stddev	.0044978	.0060983	.003248	.149754	.03393	.0012162
%RSD	.8846027	4.066288	.3228147	1.780149	.2592695	1.413723
#1	.5061103	.1548441	1.002327	8.367942	13.05349	.0874278
#2	.5056169	.1519370	1.007626	8.289941	13.08508	.0852439
#3	.5136423	.1431325	1.008230	8.579372	13.12130	.0854084

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-19 Acquired: 12/29/2024 7:51:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135334	3.936822	10.69493	.2281838	.4518470	.2007268
Stddev	.0007415	.014029	.11166	.0027146	.0017281	.0010254
%RSD	5.479178	.3563620	1.044048	1.189672	.3824605	.5108589
#1	.0142987	3.920625	10.56653	.2273999	.4498756	.2002502
#2	.0134832	3.945183	10.74896	.2259474	.4531005	.2000263
#3	.0128182	3.944658	10.76929	.2312041	.4525649	.2019037

Elem	Li6707
Units	ppm
Avg	.0992918
Stddev	.0005414
%RSD	.5452157
#1	.0989262
#2	.0990356
#3	.0999137

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2757.206	34590.51	2677.599	1754.647	1845.517
Stddev	4.802	84.77	27.930	6.387	.669
%RSD	.1741601	.2450715	1.043101	.3640101	.0362670
#1	2751.788	34535.78	2709.832	1760.999	1845.317
#2	2760.938	34547.59	2660.570	1748.225	1846.263
#3	2758.891	34688.16	2662.393	1754.718	1844.970

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/29/2024 7:55:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.140308	4.800212	24.62472	5.063462	4.961454	400.3039	9.972228
Stddev	.021131	.009044	.06507	.017746	.009966	6.3863	.164294
%RSD	.4110912	.1884099	.2642489	.3504636	.2008710	1.595365	1.647516
#1	5.122274	4.798594	24.69334	5.049399	4.952843	403.1428	10.05659
#2	5.163559	4.792086	24.56389	5.083400	4.972371	404.7784	10.07720
#3	5.135092	4.809956	24.61694	5.057588	4.959147	392.9903	9.78289

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5003622	2.481599	398.6445	15.41791	2.400548	14.63346	401.8132
Stddev	.0095114	.005695	5.9973	.12318	.007219	.24517	6.9035
%RSD	1.900894	.2294899	1.504422	.7989175	.3007120	1.675437	1.718076
#1	.5084723	2.486754	401.5605	15.52286	2.405664	14.76388	404.2422
#2	.5027209	2.475485	402.6262	15.44857	2.392291	14.78586	407.1739
#3	.4898935	2.482558	391.7468	15.28230	2.403689	14.35064	394.0236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.42599	395.5364	2.495868	1.270064	402.9175	2.437387	15.00201
Stddev	.23711	6.5525	.005385	.009836	5.3624	.043925	.10121
%RSD	1.643601	1.656599	.2157762	.7744802	1.330897	1.802121	.6746231
#1	14.54738	397.6576	2.501444	1.277531	407.7680	2.459254	15.11220
#2	14.57783	400.7654	2.490696	1.273742	403.8254	2.466087	14.98062
#3	14.15277	388.1861	2.495464	1.258918	397.1591	2.386821	14.91320

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.7139	5.003039	4.897165	4.956301	5.062166	4.773649	5.017874
Stddev	2.2514	.004057	.085958	.008566	.006428	.086017	.016403
%RSD	1.503773	.0810953	1.755255	.1728304	.1269750	1.801918	.3268921
#1	151.2278	4.998376	4.971620	4.946678	5.067380	4.855625	5.036587
#2	150.7871	5.004981	4.916779	4.959130	5.054984	4.781230	5.005982
#3	147.1267	5.005761	4.803095	4.963094	5.064133	4.684093	5.011053

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/29/2024 7:55:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.890569	4.687843	5.057244
Stddev	.084460	.067711	.080757
%RSD	1.727006	1.444399	1.596858
#1	4.924493	4.730554	5.091412
#2	4.952794	4.723202	5.115301
#3	4.794422	4.609772	4.965020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1843.265	23807.71	1970.137	1148.652	1559.736
Stddev	7.732	79.71	22.651	.815	10.033
%RSD	.4194491	.3348029	1.149738	.0709362	.6432311
#1	1838.572	23789.30	1952.184	1149.516	1550.647
#2	1852.188	23738.82	1962.641	1147.897	1570.501
#3	1839.034	23895.01	1995.587	1148.542	1558.059

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB037 Acquired: 12/29/2024 7:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004171	-.000151	.0002305	-.001563	-.001917	.0085760
Stddev	.004421	.003692	.0006320	.003296	.001191	.0277040
%RSD	105.9828	2439.372	274.1476	210.8187	62.13518	323.0421
#1	.000789	.002912	.0001303	-.001761	-.000607	.0357403
#2	-.007695	-.004250	-.000345	.001827	-.002209	.0096255
#3	-.005608	.000885	.000907	-.004756	-.002935	-.019638

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000486	.0000657	.0000254	.0128993	.0006833	.0001699
Stddev	.000187	.0000969	.0000428	.0291238	.0005985	.0001238
%RSD	38.49690	147.4845	168.3979	225.7777	87.58177	72.83457
#1	-.000308	.0001229	.0000033	-.019145	.0005954	.0001003
#2	-.000681	-.000046	-.000002	.020085	.0013209	.0000967
#3	-.000468	.000121	.000075	.037758	.0001337	.0003128

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002393	.0099732	.0003327	.0037057	.0003002	.0001253
Stddev	.002527	.0176129	.0008153	.0532237	.0003398	.0001785
%RSD	105.5948	176.6010	245.0231	1436.251	113.1979	142.4123
#1	-.004090	.0128269	.0012665	-.056806	.0000336	-.000081
#2	.000511	.0259850	-.000238	.043262	.0006828	.000225
#3	-.003600	-.008892	-.000030	.024661	.0001841	.000232

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415786	-.018388	.0029842	.1202954	.0037360	.0103404
Stddev	.0094558	.006012	.0004803	.0435456	.0024227	.0016576
%RSD	22.74188	32.69299	16.09663	36.19893	64.84727	16.03004
#1	.0523180	-.024347	.0035300	.1072436	.0055331	.0101720
#2	.0345027	-.012325	.0027969	.1688744	.0046940	.0120758
#3	.0379152	-.018492	.0026257	.0847682	.0009808	.0087735

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCB037 Acquired: 12/29/2024 7:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007120	.0019051	.0003104	.0011220	.0044244	.0001045
Stddev	.0001596	.0028207	.0001008	.0009543	.0014882	.0001989
%RSD	22.42026	148.0622	32.45989	85.05172	33.63600	190.2569
#1	.0005463	.0023217	.0002050	.0015842	.0045773	-.000122
#2	.0007250	-.001101	.0003206	.0000246	.0028657	.000251
#3	.0008647	.004494	.0004058	.0017572	.0058303	.000185

Elem	Li6707
Units	ppm
Avg	F .0270958
Stddev	.0040683
%RSD	15.01462
#1	.0245892
#2	.0317899
#3	.0249083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2057.591	25926.85	1975.636	1314.068	1857.923
Stddev	10.443	167.83	8.701	10.174	6.773
%RSD	.5075165	.6473027	.4403904	.7742243	.3645564
#1	2047.646	26069.50	1966.523	1324.756	1852.073
#2	2068.469	25741.93	1983.854	1304.501	1865.343
#3	2056.659	25969.12	1976.533	1312.949	1856.353

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-20 Acquired: 12/29/2024 8:03:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0766975	.0307425	.6724285	.0235605	-.003619	46.46861
Stddev	.0090901	.0059854	.0037362	.0091551	.002920	.12942
%RSD	11.85188	19.46954	.5556281	38.85791	80.68176	.2785182
#1	.0844772	.0308568	.6755793	.0206446	-.006847	46.59798
#2	.0667054	.0247007	.6683010	.0162184	-.002846	46.33913
#3	.0789098	.0366699	.6734052	.0338183	-.001163	46.46871

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.576160	.0083097	.0067142	F 2250.325	.0781788	.0959698
Stddev	.004071	.0000684	.0000712	32.979	.0005282	.0002135
%RSD	.2582800	.8234041	1.060275	1.465537	.6756679	.2224597
#1	1.580777	.0083839	.0067942	2264.188	.0787692	.0958957
#2	1.573086	.0082491	.0066580	2274.110	.0777509	.0962105
#3	1.574618	.0082961	.0066902	2212.677	.0780162	.0958033

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2649383	121.3364	19.09625	60.17673	.1684492	.0027818
Stddev	.0050006	.4300	.04128	.20322	.0006878	.0008469
%RSD	1.887440	.3544214	.2161562	.3377029	.4082993	30.44262
#1	.2602625	121.8206	19.13881	60.37651	.1683151	.0034388
#2	.2702102	120.9990	19.05638	59.97024	.1678383	.0018261
#3	.2643424	121.1896	19.09355	60.18344	.1691941	.0030806

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.391459	.0852032	.4871894	4.491174	9.378990	.0812555
Stddev	.033397	.0143655	.0035207	.143030	.003500	.0027124
%RSD	2.400125	16.86024	.7226607	3.184699	.0373207	3.338156
#1	1.423559	.0878534	.4911150	4.510603	9.377214	.0798747
#2	1.356901	.0980590	.4843113	4.623497	9.383023	.0795112
#3	1.393916	.0696971	.4861418	4.339423	9.376734	.0843805

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-20 Acquired: 12/29/2024 8:03:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000389	4.673208	8.156772	.0822705	.1856943	1.944307
Stddev	.000364	.017319	.055236	.0027505	.0025496	.004828
%RSD	93.46437	.3705955	.6771830	3.343212	1.373001	.2483319
#1	.000030	4.676958	8.220110	.0790945	.1861259	1.945183
#2	-.000618	4.654321	8.131604	.0838522	.1880005	1.948638
#3	-.000580	4.688344	8.118602	.0838648	.1829564	1.939101

Elem	Li6707
Units	ppm
Avg	.0790635
Stddev	.0029005
%RSD	3.668569
#1	.0821550
#2	.0786335
#3	.0764020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2464.869	30991.93	2570.834	1568.903	1504.731
Stddev	4.707	139.54	13.652	6.607	3.973
%RSD	.1909759	.4502589	.5310405	.4211042	.2640332
#1	2470.287	31119.86	2565.366	1568.202	1508.028
#2	2462.536	30843.12	2560.764	1562.675	1505.847
#3	2461.784	31012.81	2586.373	1575.832	1500.320

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-21 Acquired: 12/29/2024 8:07:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0966098	-.020541	1.030037	.0513932	.0101914	60.08708
Stddev	.0063312	.007334	.007238	.0058849	.0034181	.32101
%RSD	6.553328	35.70547	.7027268	11.45065	33.53884	.5342439
#1	.0914349	-.027523	1.024287	.0574254	.0129608	59.75477
#2	.1036693	-.021202	1.027659	.0510865	.0112421	60.39545
#3	.0947253	-.012899	1.038166	.0456677	.0063713	60.11103

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9146888	.0091871	.0058651	170.7042	.1686092	.0546822
Stddev	.0039529	.0002467	.0001083	.8786	.0017600	.0006634
%RSD	.4321627	2.684810	1.847180	.5146886	1.043829	1.213151
#1	.9101244	.0092318	.0059369	170.1167	.1668760	.0541028
#2	.9169671	.0094085	.0057405	171.7142	.1685567	.0545380
#3	.9169750	.0089212	.0059180	170.2817	.1703948	.0554059

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2726260	132.4728	8.466176	46.35163	.1778915	.0027544
Stddev	.0023821	.8220	.045545	.35967	.0007305	.0006251
%RSD	.8737744	.6204769	.5379689	.7759643	.4106738	22.69498
#1	.2744873	131.6031	8.413612	45.97278	.1772481	.0020349
#2	.2699414	133.2367	8.493906	46.68842	.1777408	.0030642
#3	.2734491	132.5787	8.491011	46.39370	.1786857	.0031641

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4267311	.1361199	1.586626	8.991159	F 10.60920	.1084154
Stddev	.0084679	.0027883	.008181	.073061	.06268	.0005200
%RSD	1.984358	2.048441	.5156316	.8125920	.5907677	.4796126
#1	.4221203	.1329120	1.580797	9.013890	10.56360	.1083705
#2	.4215692	.1374862	1.583102	9.050154	10.58335	.1079194
#3	.4365038	.1379616	1.595979	8.909435	10.68067	.1089564

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-21 Acquired: 12/29/2024 8:07:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096423	4.519279	10.73671	.0516317	.7011965	.1115237
Stddev	.0010282	.031351	.08314	.0007307	.0051641	.0009888
%RSD	10.66311	.6937189	.7743074	1.415250	.7364703	.8866484
#1	.0086128	4.489244	10.75459	.0513412	.7004356	.1118466
#2	.0106691	4.516795	10.80945	.0524630	.7066988	.1123108
#3	.0096450	4.551798	10.64608	.0510909	.6964550	.1104138

Elem	Li6707
Units	ppm
Avg	.0774566
Stddev	.0049540
%RSD	6.395905
#1	.0717365
#2	.0802607
#3	.0803726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2371.662	29870.01	2337.073	1524.739	1848.129
Stddev	12.447	138.57	9.793	9.757	12.155
%RSD	.5248364	.4639113	.4190266	.6399345	.6577040
#1	2385.570	29923.88	2332.253	1528.557	1861.486
#2	2367.851	29973.55	2330.624	1532.011	1845.186
#3	2361.567	29712.59	2348.342	1513.650	1837.716

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-22 Acquired: 12/29/2024 8:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1196768	-.054733	1.251377	.0957331	.0247505	84.81056
Stddev	.0009289	.002951	.005986	.0034430	.0049320	.21576
%RSD	.7761592	5.392214	.4783275	3.596458	19.92704	.2543998
#1	.1206467	-.056585	1.244820	.0991256	.0259757	85.03911
#2	.1195886	-.051330	1.252761	.0958321	.0193213	84.61042
#3	.1187952	-.056284	1.256549	.0922417	.0289544	84.78214

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.318342	.0128689	.0083853	55.91419	.1398653	.0485244
Stddev	.001945	.0001439	.0000996	.12896	.0004770	.0007867
%RSD	.1475248	1.118546	1.188142	.2306303	.3410551	1.621332
#1	1.320454	.0127709	.0083143	56.05921	.1399942	.0476432
#2	1.317945	.0130341	.0084992	55.81243	.1393371	.0491565
#3	1.316626	.0128015	.0083423	55.87092	.1402646	.0487733

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2947782	175.7487	8.981297	26.90187	.2343267	.0008243
Stddev	.0023310	.4835	.040876	.07223	.0010339	.0004257
%RSD	.7907512	.2751213	.4551214	.2684935	.4412248	51.64581
#1	.2930269	176.1848	9.027407	26.92546	.2341596	.0011005
#2	.2974239	175.2288	8.949509	26.82079	.2333865	.0003341
#3	.2938837	175.8326	8.966976	26.95935	.2354340	.0010384

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4238115	.1754721	1.776942	9.648780	F 14.48604	.1016870
Stddev	.0294282	.0052832	.005158	.109998	.02125	.0016848
%RSD	6.943710	3.010876	.2902828	1.140020	.1467130	1.656807
#1	.4457370	.1738928	1.771496	9.669331	14.46757	.1002494
#2	.3903660	.1813649	1.777575	9.529956	14.48129	.1012708
#3	.4353316	.1711586	1.781754	9.747054	14.50927	.1035409

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-22 Acquired: 12/29/2024 8:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059940	5.661101	12.37386	.0570362	.6698319	-.024448
Stddev	.0001277	.024343	.07394	.0025392	.0008442	.000131
%RSD	2.130612	.4299979	.5975377	4.451838	.1260268	.5377013
#1	.0059048	5.642688	12.45006	.0580518	.6691696	-.024587
#2	.0059369	5.651914	12.30241	.0541465	.6707825	-.024431
#3	.0061403	5.688700	12.36910	.0589104	.6695437	-.024325

Elem	Li6707
Units	ppm
Avg	.1115879
Stddev	.0008103
%RSD	.7261468
#1	.1106830
#2	.1122462
#3	.1118347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.390	33469.40	2606.880	1692.903	1861.026
Stddev	4.217	123.18	15.537	10.522	4.553
%RSD	.1579310	.3680412	.5960106	.6215325	.2446725
#1	2672.682	33502.68	2591.865	1700.628	1863.343
#2	2672.965	33572.52	2622.891	1697.161	1863.955
#3	2665.523	33333.00	2605.884	1680.919	1855.780

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-01 Acquired: 12/29/2024 8:15:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK33 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1692842	-.036037	.6442625	.1057371	.0283666	71.62462	.9619486
Stddev	.0056454	.001355	.0008681	.0046930	.0022644	.07151	.0017703
%RSD	3.334874	3.761180	.1347403	4.438385	7.982809	.0998356	.1840305
#1	.1719178	-.034833	.6433975	.1111512	.0296534	71.59068	.9613741
#2	.1731316	-.035772	.6451337	.1028294	.0257519	71.70678	.9605368
#3	.1628032	-.037505	.6442562	.1032308	.0296944	71.57640	.9639347

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125625	.0163896	81.37964	.0940253	.0806568	.1791052	195.2612
Stddev	.0002446	.0000903	.13821	.0005452	.0008106	.0059125	.2293
%RSD	1.946844	.5509879	.1698375	.5798226	1.004963	3.301132	.1174536
#1	.0126777	.0163985	81.50793	.0936016	.0807512	.1739653	195.0153
#2	.0127281	.0162952	81.39772	.0946403	.0798032	.1855667	195.4693
#3	.0122816	.0164752	81.23328	.0938339	.0814160	.1777836	195.2990

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.52133	30.83209	.1942588	.0038445	2.888224	.1579488	1.027294
Stddev	.03777	.06071	.0008427	.0009017	.030913	.0078802	.001237
%RSD	.1677231	.1969012	.4338207	23.45427	1.070311	4.989103	.1203705
#1	22.52778	30.81820	.1952213	.0028040	2.923898	.1669586	1.026232
#2	22.55546	30.89854	.1936535	.0043981	2.869329	.1545461	1.026998
#3	22.48075	30.77953	.1939016	.0043314	2.871444	.1523415	1.028651

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.693269	4.163469	.0858938	.0054045	3.702929	10.84291	.0250090
Stddev	.135032	.004532	.0042349	.0004726	.012567	.10217	.0009991
%RSD	2.017429	.1088608	4.930427	8.745329	.3393707	.9422493	3.995138
#1	6.563383	4.159062	.0877048	.0048613	3.710550	10.86381	.0261020
#2	6.832917	4.163228	.0810545	.0057213	3.688424	10.93301	.0241425
#3	6.683506	4.168117	.0889222	.0056310	3.709812	10.73191	.0247825

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-01 Acquired: 12/29/2024 8:15:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK33 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4314469	-.048970	.0504494
Stddev	.0037281	.000045	.0032133
%RSD	.8640962	.0920429	6.369349
#1	.4299157	-.049004	.0540108
#2	.4356968	-.048987	.0495699
#3	.4287281	-.048919	.0477674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.712	37512.96	2870.081	1908.589	1850.625
Stddev	11.722	207.69	13.520	13.673	7.409
%RSD	.3936543	.5536459	.4710796	.7163746	.4003600
#1	2989.475	37506.16	2865.122	1911.263	1855.889
#2	2977.630	37723.96	2859.740	1920.726	1853.834
#3	2966.032	37308.75	2885.380	1893.776	1842.152

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-02 Acquired: 12/29/2024 8:19:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1022675	-.046867	.9329767	.0850377	.0212233	67.17915
Stddev	.0100030	.005409	.0027079	.0015102	.0020451	.38612
%RSD	9.781209	11.54220	.2902441	1.775875	9.636106	.5747613
#1	.1133063	-.040655	.9329663	.0835704	.0232249	66.75304
#2	.0938038	-.050543	.9356899	.0865874	.0191373	67.50583
#3	.0996925	-.049402	.9302741	.0849553	.0213076	67.27859

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.237857	.0121551	.0065761	111.1942	.1261271	.0377335
Stddev	.007159	.0001712	.0000711	.6080	.0018174	.0001972
%RSD	.5783755	1.408569	1.081309	.5467744	1.440954	.5225268
#1	1.229890	.0119769	.0066575	110.5217	.1276111	.0375156
#2	1.243751	.0123183	.0065258	111.7049	.1241000	.0377855
#3	1.239931	.0121700	.0065452	111.3559	.1266702	.0378995

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2181599	171.7519	7.274459	36.10523	.1707996	.0006840
Stddev	.0015649	.9189	.020956	.13873	.0001061	.0010517
%RSD	.7173122	.5350001	.2880756	.3842268	.0621203	153.7588
#1	.2168786	170.7453	7.254650	35.95128	.1707339	.0009111
#2	.2199040	172.5456	7.296399	36.14389	.1709220	.0016036
#3	.2176971	171.9648	7.272329	36.22054	.1707430	-.000463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4850555	.1688976	1.349876	7.708511	F 11.16164	.0905250
Stddev	.0264754	.0057313	.005290	.162632	.00933	.0041634
%RSD	5.458222	3.393369	.3919156	2.109769	.0835628	4.599218
#1	.5143936	.1703184	1.345475	7.818564	11.16001	.0858000
#2	.4778299	.1737849	1.348409	7.785262	11.15324	.0921197
#3	.4629431	.1625895	1.355746	7.521707	11.17168	.0936554

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-02 Acquired: 12/29/2024 8:19:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075002	3.837846	12.09763	.0788890	.8694786	.0224525
Stddev	.0003542	.011455	.10783	.0005863	.0021677	.0002330
%RSD	4.722825	.2984760	.8913662	.7432164	.2493130	1.037864
#1	.0076247	3.844022	12.10772	.0787189	.8673852	.0226310
#2	.0071005	3.824628	12.20007	.0784065	.8717137	.0225377
#3	.0077753	3.844888	11.98511	.0795415	.8693367	.0221889

Elem	Li6707
Units	ppm
Avg	.1066487
Stddev	.0044013
%RSD	4.126877
#1	.1028282
#2	.1114614
#3	.1056567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2418.000	30477.32	2329.116	1546.057	1833.938
Stddev	9.454	99.22	15.930	12.168	6.453
%RSD	.3909893	.3255601	.6839458	.7870337	.3518562
#1	2410.693	30544.87	2334.273	1556.202	1828.803
#2	2414.629	30523.68	2311.246	1549.402	1831.829
#3	2428.677	30363.40	2341.828	1532.566	1841.181

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-03 Acquired: 12/29/2024 8:22:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910726	-.033371	.9703200	.0636944	.0116208	61.23206
Stddev	.0017766	.005946	.0012357	.0034324	.0024176	.06530
%RSD	1.950737	17.81842	.1273491	5.388876	20.80422	.1066458
#1	.0916404	-.027952	.9699718	.0644419	.0092667	61.21566
#2	.0924960	-.039732	.9716924	.0599499	.0140973	61.30400
#3	.0890816	-.032428	.9692957	.0666915	.0114984	61.17652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.151257	.0101901	.0071360	115.3862	.1122269	.0456599
Stddev	.002381	.0000169	.0000637	.1340	.0007128	.0001234
%RSD	.2068355	.1654538	.8930510	.1161409	.6351293	.2701707
#1	1.152190	.0101737	.0071861	115.2674	.1129030	.0456702
#2	1.153031	.0101892	.0071578	115.5315	.1114824	.0455317
#3	1.148551	.0102074	.0070643	115.3597	.1122955	.0457778

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1925802	138.0142	6.713374	32.08838	.1577390	.0000378
Stddev	.0081192	.0332	.007158	.02240	.0001089	.0011563
%RSD	4.216026	.0240334	.1066242	.0698101	.0690378	3058.478
#1	.1873391	138.0016	6.715877	32.09083	.1578252	-.000651
#2	.1884688	138.0519	6.718945	32.10946	.1576166	.001373
#3	.2019328	137.9892	6.705301	32.06486	.1577751	-.000608

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5536618	.1563511	1.311080	5.297548	F 14.68298	.0705816
Stddev	.0127914	.0047047	.005817	.146345	.01246	.0030139
%RSD	2.310331	3.009095	.4437081	2.762497	.0848862	4.270062
#1	.5494202	.1516881	1.315900	5.302967	14.66917	.0709306
#2	.5435299	.1562688	1.304618	5.441108	14.68639	.0674084
#3	.5680352	.1610965	1.312723	5.148569	14.69339	.0734058

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-03 Acquired: 12/29/2024 8:22:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062468	3.030294	11.66976	.1619859	.5913286	.0813851
Stddev	.0005839	.006609	.12067	.0018319	.0061093	.0009735
%RSD	9.347108	.2181081	1.034072	1.130915	1.033146	1.196190
#1	.0055744	3.035601	11.73661	.1639118	.5846249	.0820653
#2	.0066260	3.032390	11.74222	.1602653	.5927780	.0818202
#3	.0065400	3.022890	11.53046	.1617806	.5965828	.0802700

Elem	Li6707
Units	ppm
Avg	.0918710
Stddev	.0016352
%RSD	1.779897
#1	.0923798
#2	.0931913
#3	.0900419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.704	32461.46	2469.868	1646.752	1886.695
Stddev	9.899	141.47	9.436	10.910	6.799
%RSD	.3835832	.4358030	.3820514	.6625055	.3603866
#1	2587.547	32555.84	2465.025	1650.865	1891.508
#2	2585.212	32529.74	2463.837	1655.007	1889.662
#3	2569.354	32298.81	2480.742	1634.383	1878.917

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-04 Acquired: 12/29/2024 8:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1008248	-.041042	.6627047	.0668210	.0145535	74.86053	1.335199
Stddev	.0059925	.010541	.0036053	.0030348	.0016133	.28596	.001252
%RSD	5.943504	25.68312	.5440324	4.541655	11.08509	.3819875	.0937416
#1	.1063173	-.031982	.6666879	.0697942	.0126923	74.53370	1.334390
#2	.1017233	-.038532	.6617611	.0637282	.0155529	75.06467	1.334566
#3	.0944337	-.052611	.6596649	.0669407	.0154153	74.98323	1.336641

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116135	.0064045	182.3489	.1224149	.0489166	.1806502	161.5125
Stddev	.0001705	.0001393	.4616	.0011557	.0002799	.0091209	.6340
%RSD	1.468379	2.174614	.2531656	.9440662	.5722502	5.048917	.3925671
#1	.0115566	.0064085	181.8446	.1211655	.0490982	.1822539	160.9163
#2	.0118053	.0065418	182.4513	.1234455	.0490574	.1888628	162.1786
#3	.0114788	.0062633	182.7507	.1226338	.0485942	.1708338	161.4424

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.523899	38.17604	.1601268	.0002339	.5288246	.1815995	.9475899
Stddev	.025519	.27619	.0005580	.0013972	.0047601	.0025753	.0068417
%RSD	.2993799	.7234625	.3484780	597.3107	.9001267	1.418111	.7220056
#1	8.495553	37.89881	.1594850	.0018181	.5248536	.1787006	.9397582
#2	8.545044	38.45117	.1603980	-.000294	.5275190	.1824751	.9524038
#3	8.531099	38.17813	.1604974	-.000822	.5341013	.1836228	.9506077

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.772976	9.524708	.0798212	.0060137	2.404722	12.72167	.0576667
Stddev	.121060	.014700	.0005397	.0005324	.005957	.14184	.0018746
%RSD	2.097011	.1543395	.6761664	8.853096	.2477219	1.114952	3.250804
#1	5.709785	9.508082	.0796649	.0054423	2.398168	12.55877	.0585339
#2	5.696587	9.530055	.0793769	.0061031	2.406190	12.81785	.0555155
#3	5.912556	9.535986	.0804218	.0064958	2.409807	12.78839	.0589507

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-04 Acquired: 12/29/2024 8:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7882637	.0925738	.1178052
Stddev	.0007691	.0008829	.0010419
%RSD	.0975728	.9537084	.8844008
#1	.7875124	.0930920	.1182315
#2	.7882292	.0915544	.1185664
#3	.7890495	.0930750	.1166178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2444.993	30800.05	2393.423	1564.880	1808.984
Stddev	6.421	182.51	19.754	12.201	7.201
%RSD	.2625987	.5925577	.8253390	.7796706	.3980743
#1	2438.680	30947.66	2412.818	1572.825	1801.924
#2	2451.516	30856.49	2394.121	1570.983	1816.318
#3	2444.783	30595.98	2373.329	1550.832	1808.711

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-05 Acquired: 12/29/2024 8:30:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619006	-.034063	.2176605	.0526454	.0101304	73.71178	.9647368
Stddev	.0074381	.003002	.0017561	.0046951	.0017000	.39232	.0047984
%RSD	12.01623	8.813998	.8068265	8.918245	16.78079	.5322339	.4973788
#1	.0535831	-.035420	.2196857	.0580639	.0104620	74.15879	.9702669
#2	.0679141	-.030622	.2165574	.0500890	.0082891	73.55188	.9616749
#3	.0642045	-.036148	.2167386	.0497833	.0116402	73.42466	.9622687

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109343	.0040496	582.2718	.1114179	.0597427	.0699690	159.8238
Stddev	.0001005	.0001486	3.5047	.0004119	.0008842	.0008835	.5560
%RSD	.9190610	3.668589	.6018997	.3696920	1.479982	1.262671	.3478556
#1	.0110299	.0038932	586.3170	.1118192	.0588913	.0690002	160.4239
#2	.0109433	.0041888	580.3497	.1114383	.0596806	.0707302	159.7213
#3	.0108295	.0040669	580.1487	.1109962	.0606564	.0701766	159.3263

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.087145	78.03080	.1634852	-.000624	.8191129	.1743509	.4106533
Stddev	.042729	.47135	.0004026	.001036	.0040297	.0084502	.0018650
%RSD	.7019589	.6040526	.2462329	165.9460	.4919642	4.846667	.4541537
#1	6.136126	78.56416	.1631649	-.001801	.8146206	.1664108	.4085797
#2	6.057512	77.85801	.1633537	.000150	.8224093	.1832323	.4111866
#3	6.067796	77.67024	.1639371	-.000222	.8203090	.1734097	.4121935

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.200934	7.749017	.0762588	.0042068	2.322873	11.46558	.0372939
Stddev	.125132	.007601	.0007519	.0001731	.005325	.06966	.0007653
%RSD	2.405959	.0980892	.9859848	4.114393	.2292439	.6075861	2.052196
#1	5.060349	7.741033	.0760953	.0042852	2.319045	11.54054	.0364133
#2	5.242330	7.756165	.0770790	.0043268	2.320620	11.40282	.0376698
#3	5.300123	7.749853	.0756022	.0040084	2.328954	11.45339	.0377987

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-05 Acquired: 12/29/2024 8:30:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8611208	.4204635	.1298659
Stddev	.0087328	.0031600	.0023361
%RSD	1.014125	.7515572	1.798871
#1	.8687592	.4240904	.1286943
#2	.8516004	.4189962	.1325560
#3	.8630028	.4183039	.1283474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2380.796	30211.93	2344.385	1522.935	1713.734
Stddev	4.007	76.19	13.008	1.849	2.368
%RSD	.1683254	.2521748	.5548390	.1214024	.1381968
#1	2384.127	30124.24	2329.429	1524.401	1713.203
#2	2376.349	30261.87	2353.062	1523.547	1711.675
#3	2381.912	30249.68	2350.663	1520.858	1716.322

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-06 Acquired: 12/29/2024 8:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315051	-.014462	.0862549	.0265618	.0021783	55.79931	.5360826
Stddev	.0022665	.002123	.0020172	.0121711	.0046303	.07219	.0012509
%RSD	7.194099	14.67854	2.338634	45.82192	212.5693	.1293752	.2333413
#1	.0328593	-.016383	.0841882	.0144958	.0047734	55.75101	.5349512
#2	.0288885	-.014820	.0863579	.0388353	.0049290	55.76461	.5358706
#3	.0327675	-.012183	.0882187	.0263542	-.003168	55.88229	.5374259

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079282	.0020963	537.4638	.0857738	.0586668	.0695669	121.0589
Stddev	.0000522	.0002276	.4221	.0006934	.0008054	.0076199	.1595
%RSD	.6583456	10.85578	.0785294	.8083702	1.372795	10.95339	.1317646
#1	.0078824	.0018920	537.2304	.0861610	.0580058	.0781930	121.2268
#2	.0079172	.0020552	537.2099	.0861871	.0595638	.0637517	120.9093
#3	.0079850	.0023416	537.9510	.0849733	.0584308	.0667561	121.0406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.268391	87.48777	.1354961	-.000063	.9913578	.1213917	.2379943
Stddev	.007255	.14832	.0006572	.001291	.0199867	.0121545	.0020496
%RSD	.2219818	.1695346	.4850365	2035.266	2.016088	10.01266	.8611925
#1	3.272194	87.56193	.1347546	.001069	.9969950	.1075196	.2383012
#2	3.260025	87.58440	.1360068	.000209	.9691580	.1264815	.2398731
#3	3.272953	87.31700	.1357269	-.001468	1.007921	.1301738	.2358085

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.744752	7.277226	.0639051	.0024777	1.022701	10.25475	.0236048
Stddev	.066721	.019814	.0021919	.0008965	.007310	.04336	.0002807
%RSD	1.406204	.2722722	3.429928	36.17984	.7147769	.4228418	1.189229
#1	4.775824	7.265155	.0613766	.0018608	1.025334	10.30269	.0232931
#2	4.790270	7.266429	.0652653	.0020664	1.028330	10.24331	.0238377
#3	4.668162	7.300093	.0650735	.0035061	1.014439	10.21826	.0236837

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-06 Acquired: 12/29/2024 8:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9785920	.4648778	.0967133
Stddev	.0098276	.0016328	.0040199
%RSD	1.004258	.3512270	4.156491
#1	.9777303	.4666924	.0949695
#2	.9692236	.4635273	.0938598
#3	.9888220	.4644137	.1013107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2310.178	29257.02	2288.487	1471.308	1684.615
Stddev	2.826	52.86	1.140	4.774	2.417
%RSD	.1223447	.1806629	.0498281	.3244413	.1434586
#1	2313.096	29268.79	2288.768	1471.206	1686.963
#2	2309.985	29199.27	2287.232	1466.587	1682.135
#3	2307.453	29303.00	2289.460	1476.132	1684.747

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07 Acquired: 12/29/2024 8:38:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0456899	-.005706	.1155860	.0319493	-.002307	43.83857	.4715028
Stddev	.0085892	.002737	.0033335	.0039940	.005102	.12523	.0026411
%RSD	18.79880	47.96998	2.884046	12.50099	221.1786	.2856614	.5601428
#1	.0554508	-.005873	.1137429	.0364751	-.000712	43.95925	.4733007
#2	.0392874	-.008357	.1135810	.0304543	-.008015	43.70924	.4684705
#3	.0423314	-.002889	.1194342	.0289185	.001807	43.84722	.4727371

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076689	.0027902	722.2819	.0598370	.0624395	.1361059	126.2477
Stddev	.0002202	.0000675	2.0560	.0008581	.0012389	.0067191	.4802
%RSD	2.871693	2.418007	.2846484	1.433996	1.984151	4.936684	.3803772
#1	.0074885	.0027560	724.5132	.0588488	.0624603	.1383180	126.5539
#2	.0079143	.0027466	720.4642	.0602697	.0636678	.1414401	125.6942
#3	.0076038	.0028679	721.8682	.0603926	.0611903	.1285596	126.4950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.918446	138.6213	.1215027	.0003634	1.288002	.1110903	.2870076
Stddev	.020198	.3970	.0010167	.0014848	.014906	.0026269	.0022868
%RSD	.2550752	.2864116	.8367513	408.5615	1.157315	2.364647	.7967610
#1	7.914535	138.7685	.1223569	-.001338	1.303856	.1116796	.2843721
#2	7.900489	138.1717	.1217731	.001031	1.274271	.1082188	.2884659
#3	7.940313	138.9238	.1203782	.001397	1.285879	.1133724	.2881848

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.697027	8.690706	.0735771	.0044472	.8083433	10.31170	.0224297
Stddev	.187936	.011171	.0050396	.0005353	.0042602	.08079	.0023468
%RSD	4.001173	.1285369	6.849357	12.03750	.5270259	.7834470	10.46297
#1	4.562238	8.678634	.0793335	.0041336	.8082582	10.33182	.0247700
#2	4.911711	8.692807	.0699606	.0050653	.8041263	10.22276	.0200764
#3	4.617134	8.700677	.0714373	.0041426	.8126454	10.38053	.0224426

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07 Acquired: 12/29/2024 8:38:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6520557	.6555343	.0806253
Stddev	.0047212	.0017653	.0033093
%RSD	.7240555	.2692980	4.104500
#1	.6472413	.6575459	.0794117
#2	.6522479	.6542432	.0843701
#3	.6566779	.6548137	.0780942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.973	28484.95	2193.163	1432.484	1635.153
Stddev	4.908	38.21	15.436	8.118	.603
%RSD	.2186109	.1341449	.7038009	.5667181	.0368672
#1	2250.012	28527.39	2190.253	1441.549	1634.457
#2	2244.697	28474.17	2209.847	1430.020	1635.515
#3	2240.208	28453.28	2179.390	1425.883	1635.487

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-08 Acquired: 12/29/2024 8:42:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474717	-.005593	.1121183	.0215045	-.005403	42.39843	.4566553
Stddev	.0043619	.004896	.0021638	.0070915	.001662	.48596	.0039504
%RSD	9.188461	87.54164	1.929892	32.97668	30.75940	1.146185	.8650619
#1	.0488839	-.011234	.1133486	.0205678	-.004214	42.53109	.4562113
#2	.0509525	-.002441	.1133864	.0149279	-.004694	41.85991	.4529457
#3	.0425786	-.003104	.1096199	.0290178	-.007302	42.80428	.4608089

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072781	.0026978	701.6404	.0580828	.0608179	.1362173	122.6794
Stddev	.0001248	.0000802	7.3090	.0014645	.0003705	.0067510	1.3184
%RSD	1.714919	2.973949	1.041700	2.521328	.6092123	4.956043	1.074707
#1	.0074132	.0027891	703.7105	.0576066	.0605210	.1300936	123.0048
#2	.0071671	.0026660	693.5196	.0597260	.0612332	.1351017	121.2288
#3	.0072539	.0026384	707.6910	.0569156	.0606997	.1434566	123.8047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.693537	134.3414	.1169902	.0000482	1.244557	.1020613	.2819936
Stddev	.077600	1.5609	.0010146	.0006530	.009013	.0052128	.0016499
%RSD	1.008645	1.161917	.8672555	1356.019	.7242011	5.107518	.5850928
#1	7.706539	134.4489	.1161876	.0003438	1.242094	.0960496	.2816563
#2	7.610257	132.7294	.1166524	-.000700	1.237031	.1048062	.2837862
#3	7.763815	135.8457	.1181306	.000501	1.254545	.1053280	.2805384

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.302736	8.429749	.0727120	.0045573	.7866957	9.720720	.0216907
Stddev	.088223	.021636	.0018811	.0006819	.0060699	.063603	.0039068
%RSD	2.050385	.2566648	2.587013	14.96293	.7715653	.6542986	18.01142
#1	4.231332	8.437566	.0716956	.0043856	.7850135	9.783594	.0228457
#2	4.275514	8.405291	.0715579	.0039776	.7816444	9.656414	.0173366
#3	4.401361	8.446391	.0748826	.0053086	.7934293	9.722153	.0248898

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-08 Acquired: 12/29/2024 8:42:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6239787	.6377072	.0770308
Stddev	.0052705	.0071407	.0041385
%RSD	.8446575	1.119743	5.372551
#1	.6231211	.6409500	.0804933
#2	.6191897	.6295206	.0724472
#3	.6296254	.6426511	.0781518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.164	29187.86	2307.444	1467.400	1680.762
Stddev	9.198	105.27	22.453	8.593	6.170
%RSD	.4002543	.3606786	.9730527	.5856165	.3670720
#1	2307.429	29080.85	2284.245	1458.250	1687.550
#2	2289.033	29191.42	2329.067	1468.650	1675.497
#3	2298.029	29291.31	2309.021	1475.300	1679.238

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07LX5 Acquired: 12/29/2024 8:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003033	.0268094	.0248912	-.022331	-.016720	9.620057	.0947532
Stddev	.005956	.0014001	.0017330	.002463	.004805	.032163	.0011912
%RSD	196.3712	5.222326	6.962372	11.02762	28.73720	.3343308	1.257158
#1	-.008367	.0279860	.0228931	-.019892	-.021749	9.632250	.0957380
#2	-.004127	.0252609	.0259852	-.022285	-.012177	9.644339	.0934292
#3	.003394	.0271812	.0257953	-.024817	-.016233	9.583580	.0950925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015665	.0003334	165.1862	.0143254	.0402456	.0272736	27.13662
Stddev	.0000737	.0000900	.5198	.0001756	.0001479	.0048393	.04712
%RSD	4.706623	27.00796	.3146645	1.225766	.3674905	17.74359	.1736316
#1	.0016124	.0003275	164.7792	.0143367	.0400752	.0296208	27.12427
#2	.0016056	.0004262	165.0078	.0144951	.0403207	.0304917	27.18869
#3	.0014814	.0002465	165.7717	.0141444	.0403409	.0217083	27.09691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.584107	34.39712	.0229903	.0002006	.2551755	.0189706	.0660662
Stddev	.003457	.09402	.0002363	.0008696	.0223475	.0171081	.0003719
%RSD	.2182522	.2733488	1.027975	433.4216	8.757685	90.18251	.5629452
#1	1.584461	34.46701	.0230704	.0005609	.2524569	.0302485	.0658620
#2	1.580487	34.43411	.0227243	.0008322	.2343116	-.000715	.0658410
#3	1.587374	34.29022	.0231762	-.000791	.2787578	.027378	.0664954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7871495	2.117962	.0110487	.0027005	.2089546	2.234646	.0052150
Stddev	.1279413	.011718	.0009020	.0005997	.0010455	.015982	.0004000
%RSD	16.25375	.5532440	8.163923	22.20718	.5003269	.7151697	7.669761
#1	.9270905	2.105598	.0105021	.0026921	.2081319	2.217795	.0056671
#2	.7581835	2.128903	.0105541	.0021051	.2086009	2.236557	.0050709
#3	.6761746	2.119386	.0120898	.0033044	.2101310	2.249586	.0049070

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07LX5 Acquired: 12/29/2024 8:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1312897	.1495821	.0167291
Stddev	.0015205	.0002314	.0032050
%RSD	1.158124	.1547277	19.15818
#1	.1296365	.1493307	.0133590
#2	.1326282	.1496292	.0197384
#3	.1316044	.1497863	.0170900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2154.485	27287.63	2053.828	1379.864	1812.920
Stddev	5.264	213.53	4.736	10.651	4.364
%RSD	.2443103	.7825199	.2306086	.7719099	.2407214
#1	2158.650	27224.39	2048.716	1374.004	1817.911
#2	2156.235	27112.86	2058.066	1373.430	1811.028
#3	2148.569	27525.63	2054.702	1392.159	1809.822

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-09 Acquired: 12/29/2024 8:50:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292216	.0652087	.1470862	.1880732	.1598007	46.35990	3.993694
Stddev	.0035603	.0058745	.0011030	.0045600	.0039734	.11169	.012215
%RSD	2.755166	9.008726	.7498820	2.424567	2.486488	.2409172	.3058662
#1	.1331572	.0682755	.1458345	.1828785	.1601589	46.34370	4.001669
#2	.1262249	.0584355	.1475088	.1914152	.1556603	46.47881	3.999782
#3	.1282826	.0689151	.1479155	.1899259	.1635829	46.25720	3.979631

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0969621	.0998337	706.5398	.4197237	1.044559	.5354163	125.2086
Stddev	.0004485	.0001169	1.0311	.0004343	.001178	.0086150	.0387
%RSD	.4625105	.1171311	.1459435	.1034733	.1127755	1.609027	.0309132
#1	.0965064	.0999635	707.1631	.4202251	1.043741	.5283389	125.2528
#2	.0974029	.0998008	705.3496	.4194797	1.044028	.5329008	125.1922
#3	.0969769	.0997367	707.1068	.4194663	1.045909	.5450090	125.1808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.590792	135.4553	1.094390	.0636659	1.330060	.9920887	1.142870
Stddev	.009591	.3171	.001259	.0009155	.017452	.0106348	.003052
%RSD	.1116427	.2341293	.1150158	1.437931	1.312095	1.071957	.2670410
#1	8.601157	135.6609	1.095834	.0641561	1.315024	1.004316	1.142959
#2	8.588987	135.6150	1.093806	.0626097	1.325960	.986962	1.145877
#3	8.582232	135.0901	1.093529	.0642319	1.349197	.984988	1.139774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.412021	8.383226	.0695938	.0044694	.8109458	10.11885	.0237826
Stddev	.075541	.008474	.0017908	.0005454	.0069532	.07315	.0021009
%RSD	1.712171	.1010833	2.573233	12.20185	.8574140	.7229014	8.833928
#1	4.324810	8.375919	.0694399	.0038907	.8052661	10.07543	.0251170
#2	4.457114	8.392515	.0714566	.0049738	.8187001	10.20330	.0213609
#3	4.454138	8.381243	.0678849	.0045437	.8088710	10.07781	.0248700

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-09 Acquired: 12/29/2024 8:50:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6353741	.6439343	.0789395
Stddev	.0055396	.0021301	.0032549
%RSD	.8718689	.3308014	4.123243
#1	.6401569	.6454785	.0756905
#2	.6366611	.6415041	.0789278
#3	.6293042	.6448202	.0822002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2257.062	28716.81	2199.458	1437.351	1653.897
Stddev	2.931	69.49	13.765	3.067	3.104
%RSD	.1298635	.2419664	.6258226	.2133821	.1876790
#1	2256.100	28788.56	2211.929	1439.895	1655.222
#2	2260.353	28712.03	2184.689	1438.212	1656.119
#3	2254.733	28649.83	2201.758	1433.945	1650.351

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-10 Acquired: 12/29/2024 8:54:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0398607	-.014061	.0798754	.0367363	.0035067	50.13526	.4553321
Stddev	.0016917	.001625	.0032394	.0020593	.0031298	.23106	.0029788
%RSD	4.243915	11.55709	4.055606	5.605626	89.25184	.4608788	.6542116
#1	.0383257	-.012967	.0779379	.0350300	.0070409	50.13593	.4567050
#2	.0395821	-.013287	.0780732	.0390237	.0010852	49.90386	.4519144
#3	.0416744	-.015928	.0836152	.0361551	.0023942	50.36598	.4573770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079621	.0022503	424.6560	.0700712	.0624958	.1114654	128.7283
Stddev	.0001830	.0000618	2.6844	.0003446	.0008603	.0062009	.5871
%RSD	2.298345	2.745337	.6321293	.4917353	1.376653	5.563055	.4561130
#1	.0077869	.0023201	424.7580	.0704386	.0615142	.1062737	128.7429
#2	.0079475	.0022284	421.9221	.0700196	.0631191	.1183316	128.1340
#3	.0081520	.0022025	427.2879	.0697553	.0628541	.1097911	129.3080

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.077452	95.44932	.1438158	.0002097	.9093583	.1132318	.2639814
Stddev	.026680	.77395	.0009693	.0004763	.0148758	.0037680	.0013654
%RSD	.5254668	.8108465	.6739919	227.1357	1.635862	3.327664	.5172358
#1	5.078410	95.16421	.1428733	.0005554	.9259722	.1106375	.2625416
#2	5.050306	94.85837	.1437641	.0004073	.8972732	.1115040	.2652577
#3	5.103641	96.32538	.1448099	-.000334	.9048295	.1175538	.2641450

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.804761	5.496350	.0625017	.0030465	.4966630	10.16349	.0216781
Stddev	.092925	.015355	.0023863	.0005405	.0064416	.10894	.0013738
%RSD	2.442326	.2793605	3.817905	17.74261	1.296970	1.071885	6.337208
#1	3.900860	5.486474	.0606419	.0035685	.4892408	10.26235	.0214001
#2	3.715375	5.488537	.0651923	.0030820	.5007949	10.04669	.0231696
#3	3.798048	5.514040	.0616709	.0024892	.4999533	10.18143	.0204646

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-10 Acquired: 12/29/2024 8:54:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7920197	.4477689	.0879949
Stddev	.0086690	.0034923	.0022432
%RSD	1.094543	.7799400	2.549288
#1	.7928993	.4479010	.0891203
#2	.7829444	.4442123	.0894527
#3	.8002153	.4511932	.0854118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2272.965	28940.65	2235.257	1453.688	1742.516
Stddev	5.657	101.97	10.520	6.945	3.512
%RSD	.2488896	.3523403	.4706312	.4777202	.2015279
#1	2268.489	29052.61	2225.444	1461.379	1744.622
#2	2279.324	28853.10	2246.364	1451.808	1744.465
#3	2271.083	28916.25	2233.962	1447.877	1738.463

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-11 Acquired: 12/29/2024 8:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1345144	-.057868	2.834340	.0897822	.0242262	66.43290	1.789125
Stddev	.0045136	.002327	.013484	.0007726	.0032694	.31943	.007120
%RSD	3.355467	4.021664	.4757242	.8605706	13.49516	.4808384	.3979861
#1	.1394035	-.060547	2.826946	.0888902	.0265561	66.35422	1.787006
#2	.1305062	-.056348	2.826171	.0902159	.0256336	66.78432	1.797064
#3	.1336334	-.056709	2.849903	.0902406	.0204888	66.16015	1.783305

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118680	.0098701	53.01523	.1347700	.0426864	.4311525	168.2351
Stddev	.0002390	.0000817	.19711	.0007871	.0007139	.0067535	.8552
%RSD	2.014094	.8276364	.3718031	.5840282	1.672545	1.566390	.5083100
#1	.0121438	.0098248	52.87503	.1352950	.0432500	.4308252	167.6510
#2	.0117396	.0098212	53.24060	.1351499	.0418835	.4380637	169.2167
#3	.0117205	.0099644	52.93004	.1338650	.0429257	.4245686	167.8377

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.256806	22.30369	.1788605	.0021853	.5734303	.1965140	2.387564
Stddev	.041115	.10349	.0003995	.0009172	.0100497	.0067988	.010752
%RSD	.4441550	.4640018	.2233795	41.96993	1.752561	3.459677	.4503181
#1	9.250350	22.40097	.1792742	.0014404	.5845314	.1902829	2.387500
#2	9.300767	22.31514	.1784768	.0019058	.5649521	.1954940	2.398348
#3	9.219302	22.19495	.1788305	.0032097	.5708073	.2037651	2.376844

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.845787	8.271886	.0868626	.0076335	4.647960	11.56947	.1702780
Stddev	.189505	.024934	.0009320	.0003536	.009944	.11225	.0009732
%RSD	3.910717	.3014268	1.072960	4.631745	.2139477	.9702069	.5715558
#1	4.690636	8.255881	.0864548	.0072815	4.640091	11.53448	.1692910
#2	5.056997	8.259162	.0879290	.0079886	4.659137	11.69505	.1703060
#3	4.789728	8.300615	.0862041	.0076305	4.644653	11.47889	.1712369

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-11 Acquired: 12/29/2024 8:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8589591	.0039028	.0915258
Stddev	.0081063	.0003867	.0047630
%RSD	.9437308	9.907681	5.204027
#1	.8603082	.0040766	.0860291
#2	.8663061	.0041722	.0944358
#3	.8502629	.0034598	.0941126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.221	31150.22	2327.943	1569.362	1874.432
Stddev	6.430	144.93	10.210	2.683	6.709
%RSD	.2625313	.4652762	.4385847	.1709395	.3578964
#1	2456.645	31094.43	2328.296	1568.609	1880.339
#2	2445.414	31314.76	2317.561	1572.341	1875.818
#3	2445.604	31041.48	2337.972	1567.137	1867.138

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-12 Acquired: 12/29/2024 9:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1564253	-.011874	1.659731	.0799849	.0128347	82.51359
Stddev	.0029525	.003627	.002020	.0040225	.0016856	.10277
%RSD	1.887459	30.54146	.1217260	5.029104	13.13326	.1245470
#1	.1584542	-.007915	1.657626	.0819949	.0144112	82.53300
#2	.1530382	-.012671	1.661655	.0826063	.0110579	82.40250
#3	.1577837	-.015036	1.659911	.0753535	.0130350	82.60527

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.635465	.0124961	.0091861	430.8871	.1011377	.0964685
Stddev	.005153	.0001476	.0002021	.7742	.0007701	.0004810
%RSD	.1955435	1.181073	2.200497	.1796865	.7614383	.4985727
#1	2.632178	.0123644	.0089709	430.0431	.1017575	.0959472
#2	2.632812	.0124683	.0093719	431.5644	.1013799	.0965634
#3	2.641404	.0126556	.0092155	431.0538	.1002756	.0968949

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2725799	181.7218	24.99855	58.06355	.1771315	.0036344
Stddev	.0043254	.3818	.02169	.39186	.0004080	.0006237
%RSD	1.586838	.2100876	.0867723	.6748781	.2303353	17.16188
#1	.2765888	182.0721	25.00394	58.50775	.1768697	.0036068
#2	.2679956	181.3149	24.97468	57.76682	.1769232	.0030249
#3	.2731554	181.7784	25.01705	57.91607	.1776016	.0042714

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.109514	.1646434	.8016149	7.429804	F 17.10098	.1504900
Stddev	.053568	.0065874	.0032323	.083267	.02991	.0026132
%RSD	.8767966	4.001032	.4032208	1.120719	.1749000	1.736450
#1	6.133726	.1701635	.8038474	7.333990	17.08566	.1512421
#2	6.048115	.1664155	.8030889	7.484648	17.08183	.1526447
#3	6.146703	.1573512	.7979084	7.470775	17.13545	.1475833

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-12 Acquired: 12/29/2024 9:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080183	8.132806	11.27062	.0462049	.4687296	.9573578
Stddev	.0003941	.022671	.02881	.0015492	.0041503	.0039890
%RSD	4.914457	.2787660	.2556511	3.352854	.8854269	.4166675
#1	.0084403	8.108451	11.30233	.0448160	.4732571	.9539957
#2	.0076599	8.136669	11.24603	.0459231	.4651054	.9617655
#3	.0079546	8.153297	11.26351	.0478757	.4678263	.9563123

Elem	Li6707
Units	ppm
Avg	.0566364
Stddev	.0007292
%RSD	1.287588
#1	.0560695
#2	.0574591
#3	.0563806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2588.807	32620.01	2548.250	1645.172	1745.853
Stddev	7.053	71.84	13.790	2.901	3.111
%RSD	.2724320	.2202480	.5411576	.1763447	.1781659
#1	2586.481	32690.32	2541.409	1644.304	1744.469
#2	2583.211	32623.01	2564.123	1648.408	1743.675
#3	2596.729	32546.72	2539.218	1642.804	1749.416

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-13 Acquired: 12/29/2024 9:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0837015	-.028911	.4971667	.0565610	.0096347	72.38622
Stddev	.0050028	.003072	.0017670	.0042945	.0014256	.42547
%RSD	5.976982	10.62530	.3554138	7.592633	14.79631	.5877727
#1	.0884356	-.032063	.4953336	.0598726	.0111691	72.62063
#2	.0784674	-.028742	.4973073	.0581018	.0093839	72.64293
#3	.0842014	-.025927	.4988592	.0517087	.0083513	71.89511

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.018657	.0106892	.0053114	208.5193	.1189016	.0501962
Stddev	.006272	.0000540	.0001180	1.2835	.0015117	.0004807
%RSD	.6156757	.5051547	2.222039	.6155489	1.271401	.9575750
#1	1.023305	.0107507	.0054390	209.1763	.1205535	.0496445
#2	1.021142	.0106497	.0052061	209.3413	.1175871	.0505245
#3	1.011523	.0106672	.0052892	207.0402	.1185642	.0504197

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1377518	142.4597	6.598634	47.44462	.1427061	.0001182
Stddev	.0050579	.9886	.037609	.54505	.0004204	.0012020
%RSD	3.671776	.6939429	.5699551	1.148816	.2945674	1016.969
#1	.1435905	143.1587	6.616986	47.76128	.1431545	.0003655
#2	.1347093	142.8919	6.623545	47.75732	.1423210	.0011773
#3	.1349556	141.3287	6.555372	46.81525	.1426428	-.001188

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5790616	.1820146	.6565052	6.274315	F 13.00719	.0753018
Stddev	.0129118	.0138961	.0015878	.158883	.01033	.0036791
%RSD	2.229773	7.634616	.2418512	2.532268	.0793808	4.885759
#1	.5743381	.1977670	.6551034	6.169941	13.00234	.0770432
#2	.5691768	.1767841	.6561827	6.457166	13.00018	.0777867
#3	.5936700	.1714928	.6582294	6.195838	13.01904	.0710753

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-13 Acquired: 12/29/2024 9:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068180	2.340725	12.32978	.1018490	.7505999	.2551432
Stddev	.0000272	.003999	.03492	.0022020	.0045796	.0012082
%RSD	.3992000	.1708236	.2832182	2.162023	.6101237	.4735492
#1	.0068208	2.343378	12.35679	.0999827	.7548691	.2549994
#2	.0068437	2.342672	12.29035	.1012868	.7511677	.2564170
#3	.0067895	2.336126	12.34221	.1042777	.7457629	.2540134

Elem	Li6707
Units	ppm
Avg	.1293718
Stddev	.0038286
%RSD	2.959382
#1	.1249561
#2	.1313943
#3	.1317651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2432.831	30638.74	2373.375	1555.252	1802.393
Stddev	6.741	130.93	4.762	8.863	3.329
%RSD	.2770661	.4273492	.2006308	.5698477	.1846939
#1	2430.421	30615.84	2370.174	1560.180	1803.351
#2	2440.446	30520.76	2371.104	1545.021	1805.139
#3	2427.628	30779.61	2378.847	1560.556	1798.691

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-14 Acquired: 12/29/2024 9:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595398	-.020961	.2906604	.0434685	.0063952	59.99499	.7882688
Stddev	.0009629	.001450	.0023256	.0044836	.0012538	.29888	.0027369
%RSD	1.617163	6.916210	.8001256	10.31455	19.60558	.4981753	.3472002
#1	.0597819	-.019462	.2926009	.0469007	.0056387	60.29225	.7909953
#2	.0603585	-.022356	.2880825	.0451092	.0057044	59.99821	.7882895
#3	.0584790	-.021064	.2912976	.0383957	.0078424	59.69452	.7855217

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093862	.0040543	458.8850	.0938615	.0753089	.1663123	147.3956
Stddev	.0002546	.0000229	2.0194	.0007409	.0004194	.0047096	.4740
%RSD	2.712617	.5646266	.4400714	.7893754	.5569320	2.831793	.3215908
#1	.0095405	.0040326	461.0994	.0940277	.0748916	.1716092	147.8070
#2	.0095258	.0040782	458.4104	.0930516	.0757304	.1647305	147.5027
#3	.0090923	.0040520	457.1451	.0945052	.0753047	.1625972	146.8772

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.787630	107.8468	.1741432	-.000574	.9987198	.1668449	.5079608
Stddev	.029759	.5307	.0008479	.001185	.0202491	.0051093	.0024378
%RSD	.3821271	.4920580	.4868935	206.5954	2.027508	3.062300	.4799206
#1	7.817665	108.3703	.1749355	-.001511	.9922336	.1727001	.5097048
#2	7.787070	107.8611	.1742452	-.000968	1.021417	.1645436	.5051752
#3	7.758155	107.3092	.1732489	.000758	.982509	.1632910	.5090024

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.332798	8.241890	.0763181	.0065148	1.122607	11.19476	.0339201
Stddev	.010040	.011587	.0024122	.0004408	.008468	.09131	.0011263
%RSD	.1882596	.1405901	3.160735	6.766780	.7543061	.8156935	3.320507
#1	5.332273	8.232177	.0740735	.0063230	1.112834	11.29525	.0326211
#2	5.323031	8.254716	.0760121	.0070191	1.127219	11.17219	.0346243
#3	5.343089	8.238778	.0788687	.0062024	1.127767	11.11685	.0345149

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-14 Acquired: 12/29/2024 9:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8664480	.4746519	.1149428
Stddev	.0036503	.0035346	.0019507
%RSD	.4212950	.7446660	1.697134
#1	.8703711	.4786665	.1166120
#2	.8631517	.4732814	.1154181
#3	.8658212	.4720079	.1127984

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2300.636	29031.63	2259.776	1460.934	1705.572
Stddev	7.969	83.86	14.092	3.928	5.738
%RSD	.3463638	.2888481	.6236085	.2688367	.3364372
#1	2305.882	29128.45	2244.070	1459.783	1709.877
#2	2304.559	28984.63	2263.945	1465.308	1707.781
#3	2291.467	28981.82	2271.314	1457.710	1699.057

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-15 Acquired: 12/29/2024 9:13:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401388	-.012970	.1735171	.0303621	-.000708	49.55754	.5005643
Stddev	.0013860	.006919	.0025438	.0051507	.003210	.16476	.0017662
%RSD	3.453061	53.35063	1.465991	16.96428	453.1074	.3324615	.3528371
#1	.0408247	-.020867	.1756735	.0289877	.002850	49.74460	.5021326
#2	.0385436	-.010072	.1707118	.0360606	-.003385	49.43399	.4986511
#3	.0410481	-.007970	.1741661	.0260381	-.001590	49.49402	.5009093

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078598	.0024260	484.4675	.0761792	.0563004	.1122573	121.2544
Stddev	.0000888	.0000342	2.1192	.0007409	.0003291	.0073623	.5640
%RSD	1.129679	1.411813	.4374244	.9726263	.5845513	6.558423	.4651002
#1	.0079609	.0024652	486.8773	.0754759	.0561758	.1194419	121.8986
#2	.0077944	.0024016	482.8946	.0761090	.0566736	.1126006	120.8501
#3	.0078241	.0024113	483.6306	.0769528	.0560517	.1047293	121.0144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.484146	79.97138	.1258297	-.001063	.8496771	.1080504	.3838686
Stddev	.008594	.41480	.0004901	.000418	.0308011	.0016602	.0036997
%RSD	.2466624	.5186918	.3894669	39.29280	3.625038	1.536457	.9638074
#1	3.493195	80.35084	.1262531	-.001512	.8378086	.1068516	.3827715
#2	3.483147	80.03479	.1252929	-.000685	.8846469	.1073543	.3808414
#3	3.476094	79.52853	.1259431	-.000993	.8265758	.1099453	.3879928

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.100847	6.893580	.0637882	.0034294	1.075790	10.15184	.0236377
Stddev	.198079	.007855	.0018500	.0004281	.004231	.10599	.0002766
%RSD	4.830187	.1139538	2.900184	12.48261	.3933336	1.044092	1.170185
#1	4.328111	6.885633	.0659141	.0030986	1.079955	10.23407	.0239051
#2	3.964894	6.893766	.0625445	.0039129	1.071495	10.18924	.0233527
#3	4.009535	6.901341	.0629059	.0032767	1.075919	10.03222	.0236553

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-15 Acquired: 12/29/2024 9:13:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7503117	.5856585	.0963507
Stddev	.0032357	.0037323	.0016465
%RSD	.4312447	.6372788	1.708829
#1	.7466468	.5899247	.0944538
#2	.7515147	.5829966	.0974104
#3	.7527736	.5840541	.0971877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2280.624	28813.79	2237.873	1452.857	1738.159
Stddev	4.073	197.04	20.499	18.732	3.223
%RSD	.1785765	.6838457	.9159818	1.289347	.1854282
#1	2284.732	28750.54	2214.294	1449.195	1741.767
#2	2280.552	29034.69	2247.872	1473.150	1737.143
#3	2276.587	28656.14	2251.453	1436.226	1735.566

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-16 Acquired: 12/29/2024 9:17:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0725498	-.043884	1.094038	.0650756	.0169612	62.39982
Stddev	.0080151	.002635	.001087	.0034228	.0017566	.96677
%RSD	11.04769	6.004499	.0993332	5.259675	10.35674	1.549323
#1	.0775768	-.044407	1.093058	.0615728	.0149328	61.80216
#2	.0767660	-.046218	1.093848	.0652418	.0179858	61.88210
#3	.0633067	-.041026	1.095207	.0684123	.0179649	63.51520

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.041762	.0101385	.0054145	64.59509	.1230567	.0363305
Stddev	.015651	.0003416	.0000698	.88571	.0015097	.0009035
%RSD	1.502339	3.369060	1.288549	1.371178	1.226851	2.486831
#1	1.032227	.0099112	.0053535	63.93621	.1245183	.0373682
#2	1.033235	.0099729	.0054905	64.24710	.1231486	.0359047
#3	1.059825	.0105313	.0053994	65.60195	.1215031	.0357186

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2329752	135.4022	4.726718	25.33919	.1559264	-.000367
Stddev	.0103701	1.8190	.065667	.40437	.0004287	.000646
%RSD	4.451139	1.343375	1.389274	1.595836	.2749297	176.0396
#1	.2274487	134.1105	4.674437	24.93262	.1557619	-.001099
#2	.2265390	134.6138	4.705296	25.34362	.1556044	.000124
#3	.2449380	137.4823	4.800421	25.74133	.1564130	-.000126

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4848273	.1516342	1.277634	7.466725	F 11.94372	.0819034
Stddev	.0193400	.0056472	.011665	.154437	.02072	.0018632
%RSD	3.989051	3.724250	.9129811	2.068330	.1734476	2.274879
#1	.4899697	.1494277	1.291085	7.311911	11.93247	.0823173
#2	.4634358	.1474233	1.271518	7.467482	11.93107	.0835248
#3	.5010764	.1580516	1.270300	7.620781	11.96763	.0798680

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-16 Acquired: 12/29/2024 9:17:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058881	3.296769	11.14949	.0672628	.7742164	.0345068
Stddev	.0003151	.011811	.15705	.0020957	.0114894	.0013540
%RSD	5.350749	.3582471	1.408594	3.115676	1.483999	3.923762
#1	.0055323	3.285324	11.04259	.0648449	.7668746	.0331367
#2	.0061318	3.308914	11.07608	.0685577	.7683177	.0345396
#3	.0060001	3.296069	11.32980	.0683857	.7874570	.0358440

Elem	Li6707
Units	ppm
Avg	.0976861
Stddev	.0042584
%RSD	4.359309
#1	.0932896
#2	.0979771
#3	.1017915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.906	30242.32	2334.594	1537.770	1886.676
Stddev	8.076	90.42	31.210	7.204	5.812
%RSD	.3334639	.2989960	1.336869	.4684723	.3080440
#1	2412.616	30164.26	2363.159	1531.363	1881.088
#2	2427.254	30221.30	2339.341	1536.380	1892.689
#3	2425.848	30341.40	2301.282	1545.568	1886.251

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/29/2024 9:21:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.197273	4.863711	25.08263	5.165920	5.064732	415.2545	10.32467
Stddev	.010102	.007733	.02068	.010115	.004783	1.6654	.03817
%RSD	.1943683	.1590037	.0824521	.1957940	.0944321	.4010657	.3697196
#1	5.188197	4.868789	25.10620	5.166482	5.065256	413.3392	10.28060
#2	5.195466	4.867533	25.06752	5.175741	5.069231	416.3618	10.34637
#3	5.208157	4.854810	25.07417	5.155535	5.059709	416.0626	10.34705

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5238895	2.530988	411.5235	15.75652	2.442253	15.08171	414.2735
Stddev	.0013659	.002413	1.3947	.01611	.004040	.02902	2.1175
%RSD	.2607307	.0953249	.3389006	.1022358	.1654224	.1924059	.5111374
#1	.5248218	2.533027	409.9224	15.74010	2.446884	15.05159	411.8286
#2	.5223216	2.528325	412.1742	15.75716	2.439453	15.08404	415.5253
#3	.5245251	2.531614	412.4739	15.77229	2.440421	15.10949	415.4665

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.91130	408.4508	2.545134	1.300856	421.5028	2.507632	15.29885
Stddev	.07327	1.8048	.004151	.003655	1.1567	.014682	.02663
%RSD	.4913931	.4418548	.1631135	.2809544	.2744123	.5854885	.1740351
#1	14.82679	406.6002	2.549535	1.296887	420.9391	2.491264	15.27189
#2	14.95704	410.2059	2.544580	1.304083	420.7361	2.511996	15.32513
#3	14.95008	408.5464	2.541287	1.301599	422.8333	2.519638	15.29952

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.5323	5.088915	5.112882	5.062233	5.168297	4.984465	5.106403
Stddev	.5836	.010335	.014107	.006836	.007691	.013175	.000884
%RSD	.3776640	.2030817	.2759091	.1350480	.1488120	.2643206	.0173115
#1	153.8690	5.092204	5.111079	5.069138	5.175129	4.997474	5.106881
#2	154.9668	5.097204	5.127804	5.062094	5.169794	4.984790	5.106946
#3	154.7612	5.077336	5.099764	5.055467	5.159967	4.971130	5.105383

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/29/2024 9:21:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.040636	4.842643	5.223560
Stddev	.029157	.014095	.017601
%RSD	.5784301	.2910507	.3369617
#1	5.007058	4.826619	5.205767
#2	5.059544	4.848191	5.223950
#3	5.055305	4.853119	5.240963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1826.438	23553.58	1907.226	1141.443	1547.832
Stddev	2.623	28.04	7.926	3.326	1.473
%RSD	.1436312	.1190432	.4155813	.2913804	.0951471
#1	1824.168	23532.49	1898.084	1141.053	1546.132
#2	1825.835	23585.40	1911.414	1138.330	1548.675
#3	1829.310	23542.84	1912.179	1144.947	1548.689

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB038 Acquired: 12/29/2024 9:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002075	.0023083	.0002146	-.001584	-.001733	-.007862
Stddev	.002193	.0024703	.0015798	.003285	.004205	.018253
%RSD	105.7046	107.0151	736.3488	207.4096	242.5509	232.1837
#1	.000246	.0042540	.0019571	-.003359	-.000852	-.017827
#2	-.002358	.0031419	-.001124	-.003599	.001960	.013205
#3	-.004112	-.000471	-.000189	.002207	-.006309	-.018963

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001031	.0000325	.0000030	.0115542	.0001519	.0006208
Stddev	.001261	.0001170	.0000470	.0326807	.0002169	.0002755
%RSD	122.2986	359.5134	1574.684	282.8463	142.7691	44.38236
#1	-.002445	.0001352	-.000020	-.000222	-.000097	.0008465
#2	-.000628	-.000095	.000057	-.013606	.000297	.0003138
#3	-.000021	.000057	-.000029	.048491	.000256	.0007020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007898	.0196691	-.000335	-.039699	.0006646	-.000320
Stddev	.005901	.0344298	.001198	.064368	.0003955	.000762
%RSD	74.71422	175.0452	357.7008	162.1397	59.50395	238.1614
#1	-.007682	.0553204	-.001141	-.113998	.0006154	-.001103
#2	-.013903	.0170798	.001042	-.004247	.0010824	.000418
#3	-.002108	-.013393	-.000905	-.000851	.0002961	-.000274

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053329	-.015463	.0018140	.0985437	.0037841	.0104206
Stddev	.0326993	.005823	.0006880	.1490112	.0023970	.0022832
%RSD	613.1669	37.65721	37.92904	151.2133	63.34434	21.91010
#1	-.013243	-.012256	.0023987	-.068518	.0014006	.0114882
#2	.043089	-.011949	.0019875	.146408	.0037573	.0119743
#3	-.013847	-.022184	.0010558	.217741	.0061945	.0077992

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB038 Acquired: 12/29/2024 9:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000110	.0078613	.0007972	-.000651	.0063130	.0001100
Stddev	.000232	.0053847	.0010669	.000471	.0043470	.0001668
%RSD	210.4629	68.49691	133.8356	72.36834	68.85746	151.6605
#1	.000099	.0093361	-.000303	-.001167	.0076853	-.000051
#2	-.000360	.0018928	.001827	-.000246	.0014455	.000282
#3	-.000070	.0123549	.000867	-.000538	.0098083	.000100

Elem	Li6707
Units	ppm
Avg	F .0249573
Stddev	.0041886
%RSD	16.78319
#1	.0275405
#2	.0201245
#3	.0272069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2052.724	25919.58	1962.559	1321.433	1856.062
Stddev	2.664	190.54	25.048	13.210	4.848
%RSD	.1298014	.7351079	1.276293	.9996491	.2611926
#1	2054.925	25931.34	1936.446	1324.033	1859.583
#2	2049.761	25723.44	1986.385	1307.117	1850.533
#3	2053.485	26103.97	1964.846	1333.150	1858.071

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-17 Acquired: 12/29/2024 9:29:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1765136	-.085005	1.194571	.1577786	.0410142	63.22138
Stddev	.0067188	.000510	.001478	.0068778	.0029328	.23469
%RSD	3.806378	.6004565	.1237115	4.359119	7.150720	.3712189
#1	.1805017	-.085594	1.196010	.1569619	.0381559	63.45064
#2	.1802827	-.084722	1.193057	.1513456	.0440162	63.23187
#3	.1687565	-.084699	1.194645	.1650282	.0408705	62.98162

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.045709	.0164769	.0122982	122.7653	.1281666	.0265267
Stddev	.028375	.0001205	.0000644	.5085	.0019969	.0007068
%RSD	.7013672	.7313808	.5237704	.4142110	1.558022	2.664657
#1	4.070262	.0164909	.0123689	123.0594	.1268750	.0257424
#2	4.052221	.0163501	.0122429	123.0585	.1304666	.0267235
#3	4.014644	.0165898	.0122828	122.1782	.1271582	.0271143

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3117960	283.1814	24.00766	59.16553	.1886037	.0025319
Stddev	.0041353	1.5347	.10569	.34617	.0007217	.0005178
%RSD	1.326280	.5419365	.4402364	.5850866	.3826735	20.45009
#1	.3084802	284.7338	24.11291	59.27131	.1889684	.0031101
#2	.3164296	283.1454	24.00853	59.44647	.1877724	.0023747
#3	.3104781	281.6651	23.90154	58.77881	.1890703	.0021110

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6426746	.2579838	1.352377	6.119802	F 12.73554	.1126859
Stddev	.0149228	.0072486	.005044	.123695	.02545	.0049953
%RSD	2.321985	2.809692	.3729428	2.021230	.1998187	4.432974
#1	.6435573	.2497061	1.352851	6.218662	12.73740	.1146164
#2	.6571364	.2631957	1.347114	6.159651	12.70922	.1164280
#3	.6273300	.2610495	1.357167	5.981094	12.76001	.1070135

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-17 Acquired: 12/29/2024 9:29:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173016	3.119695	12.07464	.3096604	.6561920	-.083189
Stddev	.0004366	.005185	.15305	.0015540	.0035726	.001071
%RSD	2.523403	.1662145	1.267553	.5018472	.5444470	1.287628
#1	.0168131	3.121404	12.17170	.3082197	.6569455	-.084417
#2	.0174381	3.113871	11.89820	.3094543	.6523028	-.082708
#3	.0176537	3.123810	12.15400	.3113072	.6593279	-.082443

Elem	Li6707
Units	ppm
Avg	.0922920
Stddev	.0040455
%RSD	4.383332
#1	.0960974
#2	.0927354
#3	.0880430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2450.342	30788.15	2346.890	1563.280	1850.386
Stddev	3.147	12.79	25.800	1.863	1.056
%RSD	.1284385	.0415367	1.099334	.1191407	.0570842
#1	2453.836	30777.54	2330.102	1561.777	1849.702
#2	2447.728	30802.35	2376.598	1565.363	1851.602
#3	2449.463	30784.57	2333.971	1562.700	1849.853

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-18 Acquired: 12/29/2024 9:32:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0913650	-.055846	1.108576	.0798826	.0208985	73.01660
Stddev	.0052725	.004914	.003585	.0008672	.0062186	.28235
%RSD	5.770794	8.799449	.3233906	1.085610	29.75642	.3866955
#1	.0876087	-.050238	1.105306	.0806292	.0217127	72.71303
#2	.0890937	-.057896	1.108012	.0789314	.0143128	73.06540
#3	.0973924	-.059402	1.112409	.0800872	.0266699	73.27137

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.274816	.0112083	.0061248	57.65599	.1310920	.0382796
Stddev	.001614	.0001154	.0000997	.29328	.0007906	.0006210
%RSD	.1265981	1.029898	1.628231	.5086639	.6031011	1.622181
#1	1.272978	.0110864	.0062231	57.38992	.1308584	.0379424
#2	1.276004	.0112226	.0061276	57.60761	.1304444	.0389962
#3	1.275465	.0113159	.0060237	57.97045	.1319731	.0379001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2188351	152.6956	6.302788	27.57690	.1729118	-.000583
Stddev	.0052407	.2072	.020508	.12949	.0010632	.000325
%RSD	2.394822	.1357097	.3253848	.4695535	.6148642	55.77482
#1	.2155068	152.5958	6.285727	27.47362	.1717494	-.000525
#2	.2248761	152.5571	6.297095	27.53490	.1731512	-.000291
#3	.2161225	152.9338	6.325541	27.72217	.1738349	-.000933

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9404348	.1843497	1.132870	7.637484	F 10.80925	.0814979
Stddev	.0051183	.0114511	.003773	.042818	.01526	.0022704
%RSD	.5442518	6.211621	.3330478	.5606272	.1411958	2.785778
#1	.9384550	.1743194	1.130690	7.590027	10.79563	.0826716
#2	.9462473	.1819034	1.130694	7.673222	10.80636	.0788810
#3	.9366021	.1968263	1.137227	7.649204	10.82574	.0829412

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-18 Acquired: 12/29/2024 9:32:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055824	2.673578	13.03197	.0666020	.8731665	.0283098
Stddev	.0000981	.006310	.05920	.0014710	.0041710	.0008287
%RSD	1.757352	.2360091	.4542953	2.208615	.4776850	2.927099
#1	.0055913	2.671835	13.08664	.0649064	.8694979	.0275614
#2	.0054802	2.668323	13.04018	.0673633	.8777032	.0281678
#3	.0056758	2.680576	12.96909	.0675364	.8722984	.0292003

Elem	Li6707
Units	ppm
Avg	.1126183
Stddev	.0036650
%RSD	3.254374
#1	.1084405
#2	.1152917
#3	.1141228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.986	31098.97	2356.397	1579.200	1886.833
Stddev	7.958	63.97	5.351	7.069	9.273
%RSD	.3219126	.2057030	.2270993	.4476149	.4914534
#1	2473.067	31167.51	2352.868	1585.141	1890.934
#2	2479.348	31040.84	2353.768	1581.076	1893.349
#3	2463.543	31088.57	2362.554	1571.382	1876.217

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-19 Acquired: 12/29/2024 9:36:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0755300	-.050969	.4133089	.0779238	.0194811	69.81946	.9816947
Stddev	.0062652	.001135	.0017327	.0004341	.0059488	.27928	.0027746
%RSD	8.294936	2.226449	.4192189	.5571215	30.53615	.4000045	.2826350
#1	.0819290	-.049788	.4114658	.0779408	.0263498	70.14106	.9848567
#2	.0694079	-.052051	.4135563	.0783492	.0161120	69.63799	.9805606
#3	.0752531	-.051068	.4149045	.0774814	.0159817	69.67933	.9796667

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112948	.0041407	57.78398	.1044961	.0323312	.1036835	148.5449
Stddev	.0002127	.0001552	.19041	.0006085	.0004824	.0074745	.7147
%RSD	1.883288	3.748082	.3295179	.5822846	1.492186	7.208980	.4811330
#1	.0115344	.0041347	57.99211	.1042590	.0321712	.1102300	149.3289
#2	.0112220	.0039887	57.61855	.1051875	.0328733	.0955393	147.9297
#3	.0111281	.0042989	57.74127	.1040419	.0319491	.1052811	148.3762

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.652612	30.12035	.1348591	-.000935	.4942743	.1569216	.5362556
Stddev	.022112	.20879	.0016044	.000743	.0245596	.0062923	.0014642
%RSD	.4752582	.6931860	1.189664	79.51195	4.968823	4.009863	.2730363
#1	4.675236	30.34015	.1349228	-.000433	.4685548	.1550592	.5364438
#2	4.631051	29.92466	.1364307	-.001789	.4967875	.1517706	.5376166
#3	4.651549	30.09625	.1332238	-.000583	.5174808	.1639349	.5347064

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.282373	8.057798	.0747573	.0048975	2.084987	12.57545	.0344910
Stddev	.323726	.021446	.0021637	.0004645	.010804	.12396	.0017670
%RSD	9.862558	.2661536	2.894256	9.484122	.5181766	.9857603	5.123078
#1	2.950347	8.076446	.0753767	.0051781	2.082702	12.71831	.0326185
#2	3.299666	8.062585	.0765437	.0051530	2.075508	12.49628	.0361291
#3	3.597105	8.034363	.0723514	.0043613	2.096750	12.51176	.0347253

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-19 Acquired: 12/29/2024 9:36:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7314560	-.011623	.1077652
Stddev	.0023264	.000365	.0019711
%RSD	.3180568	3.137419	1.829040
#1	.7296437	-.011929	.1099722
#2	.7306449	-.011219	.1071435
#3	.7340795	-.011719	.1061800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2472.223	31213.21	2339.854	1581.190	1881.171
Stddev	.888	13.19	23.061	4.558	1.619
%RSD	.0359295	.0422587	.9855608	.2882668	.0860816
#1	2473.034	31212.20	2314.561	1576.656	1882.303
#2	2472.360	31226.88	2359.712	1581.143	1881.893
#3	2471.274	31200.56	2345.289	1585.772	1879.316

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-20 Acquired: 12/29/2024 9:40:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577274	-.046286	.1817945	.0692162	.0177554	64.84016	.8802262
Stddev	.0037795	.000247	.0022268	.0038562	.0012675	.26684	.0029952
%RSD	6.547123	.5346465	1.224900	5.571297	7.138456	.4115306	.3402771
#1	.0607448	-.046197	.1834474	.0736512	.0186992	65.05629	.8835110
#2	.0534882	-.046566	.1792623	.0673428	.0182524	64.92228	.8795213
#3	.0589493	-.046095	.1826738	.0666545	.0163148	64.54192	.8776463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101817	.0029302	107.2108	.0979964	.0514596	.1035847	157.2233
Stddev	.0000876	.0001547	.7517	.0008426	.0006095	.0060194	.6042
%RSD	.8600519	5.280480	.7011207	.8598090	1.184394	5.811128	.3843181
#1	.0101936	.0028135	107.7769	.0978670	.0517745	.1019647	157.8679
#2	.0102627	.0031057	107.4976	.0988962	.0507570	.1102484	157.1324
#3	.0100888	.0028714	106.3580	.0972260	.0518472	.0985410	156.6697

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.964113	47.88440	.1696886	-.000764	.7019132	.1540617	.3459976
Stddev	.030809	.12799	.0004148	.000852	.0191228	.0073762	.0008394
%RSD	.4423942	.2672960	.2444595	111.4353	2.724381	4.787822	.2426117
#1	6.976034	47.94798	.1693658	-.001181	.6941344	.1625571	.3451879
#2	6.987181	47.96816	.1701565	-.001327	.6879057	.1503419	.3468639
#3	6.929125	47.73706	.1695435	.000216	.7236995	.1492860	.3459410

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.593444	7.314372	.0671836	.0058313	.8307446	11.65500	.0225323
Stddev	.150341	.008374	.0026479	.0004604	.0039930	.05926	.0014154
%RSD	4.183751	.1144837	3.941297	7.895060	.4806540	.5084632	6.281499
#1	3.685094	7.324010	.0650542	.0053847	.8286614	11.71471	.0212694
#2	3.675300	7.310229	.0663481	.0063043	.8353484	11.65411	.0222652
#3	3.419937	7.308877	.0701485	.0058050	.8282239	11.59620	.0240621

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-20 Acquired: 12/29/2024 9:40:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8812662	.0097561	.0970181
Stddev	.0025157	.0006766	.0004439
%RSD	.2854622	6.935707	.4574982
#1	.8828603	.0102900	.0975304
#2	.8825722	.0099832	.0967748
#3	.8783661	.0089951	.0967492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.099	31234.12	2326.358	1583.090	1849.171
Stddev	6.411	141.52	15.313	11.291	3.475
%RSD	.2590128	.4530959	.6582411	.7132032	.1879398
#1	2480.292	31310.39	2322.249	1590.236	1850.694
#2	2477.072	31070.82	2313.519	1570.074	1851.624
#3	2467.934	31321.14	2343.306	1588.961	1845.194

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-21 Acquired: 12/29/2024 9:44:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0576275	-.032940	.1441331	.0555801	.0091121	63.78506	.5682605
Stddev	.0026285	.004847	.0015810	.0013610	.0013047	.94136	.0067567
%RSD	4.561253	14.71443	1.096877	2.448677	14.31884	1.475830	1.189022
#1	.0602239	-.038516	.1423241	.0549423	.0092976	62.73962	.5606956
#2	.0576907	-.030568	.1448249	.0571429	.0103142	64.05000	.5703895
#3	.0549680	-.029736	.1452501	.0546552	.0077246	64.56556	.5736962

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097069	.0023257	200.8423	.0960034	.0567525	.1467214	147.2588
Stddev	.0000182	.0000473	2.9566	.0006172	.0010976	.0086713	2.4397
%RSD	.1877040	2.033949	1.472099	.6428854	1.933933	5.910079	1.656741
#1	.0096958	.0023713	197.5335	.0963973	.0578365	.1371070	144.5610
#2	.0097279	.0023288	201.7682	.0952921	.0556419	.1491071	147.9050
#3	.0096970	.0022769	203.2251	.0963208	.0567790	.1539502	149.3103

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.164803	71.28481	.1679803	-.001145	.7457984	.1521912	.3727065
Stddev	.048415	1.25169	.0009491	.001717	.0144429	.0021001	.0024664
%RSD	1.529810	1.755895	.5650044	149.9757	1.936574	1.379928	.6617552
#1	3.110668	69.91428	.1689000	-.003112	.7328306	.1508893	.3747130
#2	3.179783	71.57262	.1680365	.000053	.7432007	.1510702	.3699529
#3	3.203958	72.36752	.1670043	-.000376	.7613639	.1546139	.3734536

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.397651	7.552836	.0694530	.0031428	.6645409	11.19052	.0220022
Stddev	.114188	.010584	.0023858	.0005902	.0061231	.06109	.0018760
%RSD	3.360789	.1401291	3.435097	18.77915	.9214047	.5459249	8.526303
#1	3.435689	7.563475	.0668206	.0030246	.6617500	11.12241	.0235492
#2	3.269299	7.542308	.0714727	.0026206	.6715622	11.24047	.0225417
#3	3.487964	7.552726	.0700657	.0037831	.6603104	11.20869	.0199155

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-21 Acquired: 12/29/2024 9:44:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8849170	.1052882	.1086022
Stddev	.0115840	.0008509	.0033272
%RSD	1.309049	.8082047	3.063613
#1	.8727126	.1043208	.1064466
#2	.8862783	.1059210	.1124340
#3	.8957603	.1056227	.1069258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2419.397	30567.11	2387.376	1546.169	1799.976
Stddev	7.448	129.47	21.229	7.050	3.052
%RSD	.3078250	.4235653	.8891994	.4559482	.1695773
#1	2426.835	30709.89	2411.630	1548.000	1802.558
#2	2419.417	30534.08	2372.176	1552.123	1800.762
#3	2411.940	30457.35	2378.321	1538.385	1796.608

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-22 Acquired: 12/29/2024 9:48:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1200459	-.008171	3.251104	.0539464	.0035097	54.00622	.9748201
Stddev	.0067169	.003982	.051965	.0061851	.0037939	.05998	.0031913
%RSD	5.595280	48.73280	1.598371	11.46529	108.0972	.1110612	.3273739
#1	.1276254	-.010458	3.191292	.0610825	.0030283	54.02713	.9778958
#2	.1148313	-.010481	3.276864	.0506291	-.000020	54.05294	.9750399
#3	.1176809	-.003573	3.285157	.0501275	.007521	53.93858	.9715245

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108373	.0125240	546.2091	.1220364	.0724624	.2415928	147.6248
Stddev	.0001679	.0002329	.9873	.0009985	.0016436	.0007696	.2902
%RSD	1.549672	1.859678	.1807581	.8182339	2.268210	.3185573	.1966126
#1	.0106592	.0122684	546.4196	.1212278	.0705715	.2407158	147.6182
#2	.0109928	.0125793	547.0742	.1217289	.0732668	.2421555	147.9183
#3	.0108599	.0127243	545.1335	.1231525	.0735488	.2419072	147.3379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.64420	297.2313	.2028836	.0022464	3.542175	.1474343	2.095713
Stddev	.02252	.7245	.0040325	.0006492	.035783	.0112938	.016319
%RSD	.1934011	.2437437	1.987575	28.90006	1.010196	7.660260	.7786946
#1	11.63997	297.4047	.1982389	.0016957	3.502097	.1603565	2.090276
#2	11.66854	297.8533	.2049208	.0029622	3.553511	.1424946	2.082805
#3	11.62411	296.4358	.2054910	.0020812	3.570917	.1394519	2.114056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.422497	6.711499	.1104246	.0109330	23.88090	10.49437	.0587853
Stddev	.094981	.105383	.0015766	.0006153	.39662	.04139	.0030865
%RSD	1.279642	1.570179	1.427754	5.627832	1.660827	.3943835	5.250459
#1	7.337260	6.590093	.1121991	.0116363	23.42499	10.45284	.0577003
#2	7.405346	6.765066	.1091852	.0104941	24.07118	10.49467	.0622677
#3	7.524885	6.779338	.1098895	.0106686	24.14652	10.53561	.0563877

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-22 Acquired: 12/29/2024 9:48:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK51 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6975757	.6509103	.0853840
Stddev	.0013468	.0006681	.0005805
%RSD	.1930691	.1026448	.6799181
#1	.6973399	.6514016	.0848121
#2	.6963623	.6511799	.0859728
#3	.6990248	.6501495	.0853671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2284.973	29078.94	2230.294	1462.064	1661.486
Stddev	26.213	80.25	8.738	10.625	24.959
%RSD	1.147187	.2759647	.3917647	.7267025	1.502235
#1	2315.095	29012.29	2235.672	1457.810	1689.842
#2	2272.486	29168.01	2234.997	1474.157	1651.770
#3	2267.338	29056.51	2220.212	1454.226	1642.845

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-01 Acquired: 12/29/2024 9:52:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK83 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1233367	-.051457	1.146149	.0730282	.0158817	76.46264	.7542926
Stddev	.0034284	.004756	.001498	.0032947	.0043399	.25504	.0018095
%RSD	2.779698	9.241791	.1306576	4.511477	27.32652	.3335487	.2398967
#1	.1218364	-.053176	1.146657	.0740449	.0201487	76.32939	.7539465
#2	.1272595	-.055114	1.144464	.0693450	.0160241	76.75671	.7562502
#3	.1209143	-.046081	1.147327	.0756947	.0114723	76.30183	.7526812

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111810	.0055486	76.06982	.1406871	.0424467	.2001638	157.8055
Stddev	.0000279	.0000750	.16122	.0005390	.0010387	.0023847	.8028
%RSD	.2500127	1.352263	.2119360	.3831064	2.446999	1.191363	.5086990
#1	.0111804	.0054693	75.91784	.1412014	.0416922	.2014947	157.1394
#2	.0111534	.0055581	76.23891	.1401265	.0420165	.1974107	158.6968
#3	.0112093	.0056185	76.05271	.1407334	.0436313	.2015860	157.5804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.142109	34.61391	.1588456	.0012221	.4872975	.1800297	1.300224
Stddev	.019547	.07840	.0006249	.0010017	.0125054	.0020224	.006990
%RSD	.3182460	.2265064	.3933795	81.96430	2.566269	1.123345	.5376320
#1	6.146017	34.70425	.1592042	.0000895	.4742875	.1786401	1.304167
#2	6.159407	34.57393	.1581241	.0015852	.4992283	.1790992	1.304351
#3	6.120903	34.56357	.1592086	.0019918	.4883766	.1823498	1.292152

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.512292	8.476119	.0789746	.0064680	3.937920	12.22092	.0427952
Stddev	.043379	.007891	.0036082	.0004054	.004803	.06520	.0009499
%RSD	.5774426	.0930924	4.568858	6.267097	.1219690	.5335298	2.219586
#1	7.560614	8.467036	.0753359	.0069358	3.943011	12.29414	.0424971
#2	7.476706	8.480046	.0825516	.0062469	3.933469	12.19948	.0438583
#3	7.499557	8.481276	.0790362	.0062213	3.937280	12.16914	.0420301

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-01 Acquired: 12/29/2024 9:52:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK83 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9018019	-.002044	.0745464
Stddev	.0038705	.000237	.0038011
%RSD	.4291940	11.58329	5.099005
#1	.8973507	-.001831	.0710978
#2	.9036800	-.002299	.0786221
#3	.9043749	-.002003	.0739195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.818	28988.65	2213.220	1473.527	1861.112
Stddev	6.071	280.14	8.142	13.850	3.348
%RSD	.2630629	.9663784	.3678962	.9399549	.1799191
#1	2301.079	29256.76	2215.217	1483.881	1857.581
#2	2309.514	28697.86	2204.266	1457.794	1861.512
#3	2312.860	29011.34	2220.179	1478.905	1864.242

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02 Acquired: 12/29/2024 9:56:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1592967	-.078212	.9144567	.1063208	.0307078	101.0851	.8202597
Stddev	.0059358	.001096	.0033477	.0077841	.0023368	.3013	.0025798
%RSD	3.726278	1.400772	.3660823	7.321367	7.609897	.2980839	.3145036
#1	.1598069	-.079245	.9106134	.1080239	.0324031	100.7406	.8177097
#2	.1531222	-.077063	.9167372	.1131124	.0316781	101.2157	.8228682
#3	.1649610	-.078327	.9160194	.0978262	.0280421	101.2992	.8202012

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145708	.0063779	85.99043	.1648680	.0446682	.1925151	206.8197
Stddev	.0002737	.0001278	.23411	.0011065	.0009777	.0090955	.6689
%RSD	1.878521	2.004282	.2722483	.6711467	2.188864	4.724570	.3234301
#1	.0148869	.0062781	85.87050	.1659047	.0436160	.1907818	206.0485
#2	.0144146	.0065220	86.26020	.1637029	.0455487	.2023525	207.2430
#3	.0144110	.0063336	85.84058	.1649965	.0448399	.1844110	207.1675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.920573	53.77694	.1920430	.0006944	.8322503	.2342220	1.172580
Stddev	.024980	.44861	.0006090	.0012539	.0392834	.0045365	.002506
%RSD	.3609507	.8342034	.3171043	180.5842	4.720149	1.936847	.2136864
#1	6.893597	53.26015	.1926247	.0017610	.8775025	.2394094	1.171275
#2	6.925216	54.06616	.1920944	.0010091	.8123390	.2309972	1.175469
#3	6.942905	54.00450	.1914100	-.000687	.8069095	.2322594	1.170996

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.901476	8.031408	.0920075	.0068241	3.761330	12.46504	.0751780
Stddev	.054514	.019663	.0051851	.0005731	.013988	.17790	.0034477
%RSD	.6124127	.2448210	5.635472	8.398635	.3718971	1.427200	4.586113
#1	8.956749	8.008726	.0860276	.0070304	3.745192	12.64725	.0758777
#2	8.899926	8.043606	.0952540	.0072656	3.768807	12.45608	.0714341
#3	8.847754	8.041894	.0947407	.0061764	3.769991	12.29178	.0782223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02 Acquired: 12/29/2024 9:56:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.418072	-.030181	.1103696
Stddev	.007677	.000903	.0007815
%RSD	.5413628	2.991221	.7080999
#1	1.409442	-.029881	.1110002
#2	1.420634	-.029467	.1094953
#3	1.424140	-.031196	.1106133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2292.472	28937.58	2204.909	1462.397	1804.281
Stddev	2.137	29.65	21.640	2.568	2.708
%RSD	.0932316	.1024588	.9814278	.1756194	.1500864
#1	2290.014	28912.53	2186.683	1463.887	1806.913
#2	2293.500	28929.89	2199.219	1463.872	1801.503
#3	2293.900	28970.31	2228.825	1459.431	1804.425

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-03 Acquired: 12/29/2024 9:59:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1528691	-.074626	.8968843	.1053420	.0266902	100.3369	.8092587
Stddev	.0036640	.005650	.0022062	.0014005	.0029762	.4854	.0058541
%RSD	2.396806	7.571710	.2459856	1.329472	11.15097	.4837353	.7233865
#1	.1552483	-.068404	.8977424	.1039130	.0241015	100.2960	.8084751
#2	.1486498	-.079439	.8943780	.1054009	.0260269	100.8415	.8154651
#3	.1547093	-.076034	.8985326	.1067121	.0299421	99.8734	.8038359

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142959	.0061668	85.52241	.1629260	.0437526	.1802285	204.7622
Stddev	.0000984	.0001752	.49262	.0044247	.0006881	.0069638	1.3933
%RSD	.6880775	2.841539	.5760140	2.715774	1.572724	3.863874	.6804644
#1	.0141849	.0059649	85.20362	.1641975	.0439319	.1744805	203.9779
#2	.0143722	.0062573	86.08979	.1580047	.0429925	.1879723	206.3709
#3	.0143306	.0062784	85.27381	.1665757	.0443332	.1782326	203.9379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.843647	53.42187	.1885738	.0015195	.8082200	.2345775	1.149710
Stddev	.033231	.31202	.0001931	.0015013	.0499854	.0085885	.034030
%RSD	.4855778	.5840765	.1023997	98.80459	6.184625	3.661267	2.959894
#1	6.842071	53.33846	.1887737	.0013065	.7510584	.2444898	1.157931
#2	6.877638	53.76712	.1883883	.0031158	.8298760	.2298904	1.112322
#3	6.811231	53.16002	.1885593	.0001360	.8437256	.2293523	1.178876

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.786168	7.881636	.0862209	.0063783	3.676302	12.36529	.0739754
Stddev	.130500	.022851	.0024800	.0007538	.017914	.08337	.0003444
%RSD	1.485285	.2899296	2.876339	11.81871	.4872856	.6742490	.4655470
#1	8.862892	7.907940	.0844702	.0072348	3.696061	12.32124	.0736910
#2	8.860123	7.866681	.0890588	.0058157	3.661122	12.31318	.0743583
#3	8.635488	7.870286	.0851337	.0060844	3.671723	12.46144	.0738768

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-03 Acquired: 12/29/2024 9:59:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.399181	-.030202	.1087144
Stddev	.007982	.001145	.0039539
%RSD	.5704689	3.791150	3.636912
#1	1.393800	-.029898	.1116232
#2	1.408352	-.031469	.1103073
#3	1.395391	-.029240	.1042125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2295.436	29069.81	2194.208	1465.836	1811.816
Stddev	10.323	551.62	7.963	24.157	9.736
%RSD	.4497219	1.897587	.3629030	1.648003	.5373468
#1	2285.327	28946.93	2202.501	1457.517	1803.142
#2	2305.960	29672.52	2186.623	1493.053	1822.347
#3	2295.021	28589.99	2193.499	1446.937	1809.961

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02LX5 Acquired: 12/29/2024 10:03:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0364706	-.013968	.1789533	.0159983	.0034825	21.88801	.1747742
Stddev	.0036664	.002382	.0008242	.0034888	.0010565	.45968	.0041469
%RSD	10.05307	17.05351	.4605604	21.80743	30.33778	2.100123	2.372735
#1	.0406972	-.016245	.1781473	.0199499	.0045033	21.43340	.1713642
#2	.0345686	-.011493	.1797946	.0133440	.0023935	21.87805	.1735679
#3	.0341460	-.014167	.1789181	.0147010	.0035508	22.35259	.1793906

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032493	.0010956	18.77134	.0347320	.0147852	.0304653	45.02127
Stddev	.0001262	.0000406	.34593	.0009311	.0005397	.0081590	.99946
%RSD	3.883439	3.707191	1.842888	2.680662	3.650110	26.78133	2.219962
#1	.0031556	.0011114	18.47375	.0356173	.0152166	.0211893	44.23256
#2	.0031995	.0010495	18.68938	.0337611	.0149590	.0336766	44.68599
#3	.0033928	.0011260	19.15089	.0348176	.0141801	.0365301	46.14526

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.519333	11.68708	.0377306	-.000181	.2155853	.0420927	.2579237
Stddev	.029006	.25447	.0003255	.000462	.0399405	.0013186	.0029035
%RSD	1.909114	2.177342	.8626710	255.2551	18.52655	3.132632	1.125717
#1	1.494115	11.44940	.0374708	-.000514	.2473845	.0426632	.2575279
#2	1.512854	11.65629	.0376254	-.000375	.1707573	.0405849	.2552384
#3	1.551031	11.95554	.0380957	.000346	.2286142	.0430300	.2610048

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.755041	1.599118	.0179480	.0016277	.7661763	2.815078	.0136849
Stddev	.164526	.005402	.0026788	.0004864	.0120878	.055325	.0015551
%RSD	9.374481	.3378305	14.92550	29.88436	1.577682	1.965317	11.36345
#1	1.621623	1.593537	.0199092	.0020909	.7547643	2.768661	.0121469
#2	1.704622	1.604322	.0148958	.0011210	.7649223	2.800273	.0136512
#3	1.938876	1.599497	.0190390	.0016713	.7788422	2.876299	.0152565

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-02LX5 Acquired: 12/29/2024 10:03:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3084785	-.007133	.0253206
Stddev	.0036813	.000297	.0033236
%RSD	1.193389	4.169129	13.12623
#1	.3061475	-.007383	.0246466
#2	.3065656	-.006804	.0223856
#3	.3127225	-.007211	.0289295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2122.172	27379.03	1982.407	1386.617	1866.089
Stddev	3.273	306.19	39.604	15.463	5.386
%RSD	.1542180	1.118337	1.997793	1.115127	.2886191
#1	2125.951	27278.17	2022.700	1387.315	1872.269
#2	2120.315	27722.93	1980.992	1401.718	1862.401
#3	2120.251	27135.99	1943.529	1370.817	1863.596

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-04 Acquired: 12/29/2024 10:07:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2411355	-.000950	.9324427	.2709352	.1992921	102.9707	4.444406
Stddev	.0041432	.002744	.0022039	.0032154	.0064199	.5067	.025728
%RSD	1.718219	288.7658	.2363620	1.186768	3.221338	.4920375	.5788958
#1	.2408785	-.000406	.9347533	.2676633	.1930674	102.3921	4.415072
#2	.2371268	.001481	.9303637	.2710514	.1989179	103.1852	4.455000
#3	.2454013	-.003925	.9322112	.2740909	.2058908	103.3349	4.463146

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1041753	.1033845	84.91127	.5437988	1.044252	.6026124	204.3371
Stddev	.0009683	.0001058	.33767	.0011995	.001205	.0048765	1.0105
%RSD	.9294868	.1023100	.3976767	.2205728	.1153921	.8092215	.4945189
#1	.1037557	.1033681	84.58900	.5430728	1.044936	.5977372	203.3500
#2	.1034876	.1034975	84.88232	.5431403	1.044960	.6074901	204.2919
#3	.1052826	.1032879	85.26248	.5451833	1.042861	.6026099	205.3695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.672128	52.81183	1.189908	.0661854	.8516568	1.143360	2.038015
Stddev	.026616	.31789	.001865	.0011044	.0110466	.011769	.001711
%RSD	.3469174	.6019231	.1567419	1.668601	1.297073	1.029359	.0839546
#1	7.643429	52.46654	1.191141	.0662025	.8435369	1.132625	2.037615
#2	7.676954	52.87662	1.190821	.0650725	.8471975	1.155944	2.039891
#3	7.696001	53.09233	1.187763	.0672811	.8642361	1.141512	2.036540

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.725520	7.883308	.0895922	.0059319	3.705864	12.15045	.0719382
Stddev	.295904	.019624	.0013695	.0003450	.012933	.13599	.0008548
%RSD	3.391245	.2489331	1.528607	5.815460	.3489946	1.119225	1.188258
#1	8.733481	7.904808	.0907601	.0063259	3.709601	12.02810	.0710922
#2	8.425715	7.878756	.0880849	.0057858	3.716518	12.12639	.0719208
#3	9.017362	7.866360	.0899315	.0056840	3.691474	12.29687	.0728016

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-04 Acquired: 12/29/2024 10:07:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.382336	-.030634	.1102531
Stddev	.008892	.000403	.0041335
%RSD	.6432376	1.315746	3.749103
#1	1.372268	-.030235	.1058288
#2	1.385625	-.031041	.1109146
#3	1.389115	-.030626	.1140160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2295.340	29070.79	2231.604	1468.990	1808.376
Stddev	8.175	230.79	11.173	15.903	5.619
%RSD	.3561572	.7938886	.5006830	1.082604	.3107251
#1	2303.397	28954.80	2244.124	1466.332	1811.779
#2	2287.052	28921.01	2222.647	1454.584	1801.890
#3	2295.571	29336.57	2228.040	1486.056	1811.458

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-05 Acquired: 12/29/2024 10:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK85 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1249998	-.061681	1.555606	.0883907	.0242262	92.32897	.9015656
Stddev	.0024847	.001936	.008561	.0058444	.0013031	.16305	.0020536
%RSD	1.987776	3.139543	.5502999	6.612037	5.378874	.1765955	.2277774
#1	.1257718	-.063914	1.559057	.0929473	.0256146	92.45452	.9023134
#2	.1222208	-.060464	1.545859	.0818013	.0230298	92.38770	.9031404
#3	.1270070	-.060664	1.561902	.0904234	.0240340	92.14469	.8992429

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133803	.0064486	96.77371	.1725471	.0474204	.1993367	186.4651
Stddev	.0001654	.0001670	.31664	.0016423	.0007257	.0102764	.2767
%RSD	1.235935	2.589631	.3271926	.9517806	1.530356	5.155294	.1483895
#1	.0132522	.0063157	96.88823	.1708622	.0473675	.2072746	186.6213
#2	.0135670	.0063940	97.01715	.1726360	.0467226	.2030062	186.6284
#3	.0133219	.0066361	96.41574	.1741431	.0481711	.1877292	186.1456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.481998	44.13943	.1852222	.0017847	.8161606	.2077391	1.324096
Stddev	.017073	.09113	.0014191	.0005012	.0322903	.0080537	.010583
%RSD	.2633917	.2064678	.7661497	28.08256	3.956364	3.876853	.7992923
#1	6.480678	44.24236	.1840297	.0012064	.8492940	.2121269	1.312072
#2	6.499692	44.10690	.1848451	.0020920	.8144025	.2126462	1.328217
#3	6.465623	44.06902	.1867917	.0020559	.7847852	.1984443	1.331999

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.779053	7.595473	.0809204	.0070488	3.455636	14.77245	.0457184
Stddev	.082501	.040895	.0005110	.0005757	.011647	.03560	.0007488
%RSD	1.217005	.5384173	.6314735	8.168107	.3370441	.2410205	1.637813
#1	6.852638	7.602001	.0814917	.0065876	3.461462	14.80115	.0457659
#2	6.689864	7.551707	.0807627	.0076941	3.442226	14.73261	.0449470
#3	6.794659	7.632712	.0805069	.0068648	3.463220	14.78359	.0464423

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-05 Acquired: 12/29/2024 10:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK85 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.010375	.0249952	.1026113
Stddev	.003106	.0011810	.0046301
%RSD	.3073939	4.725017	4.512228
#1	1.012093	.0250534	.1073805
#2	1.006789	.0261461	.0981342
#3	1.012242	.0237862	.1023191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.496	29414.83	2226.465	1490.595	1819.657
Stddev	15.355	153.21	7.388	15.681	9.869
%RSD	.6543770	.5208679	.3318269	1.052016	.5423701
#1	2362.982	29564.40	2218.352	1508.679	1828.375
#2	2343.905	29421.89	2232.805	1480.764	1821.653
#3	2332.601	29258.22	2228.239	1482.342	1808.942

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-06 Acquired: 12/29/2024 10:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK86 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1656048	-.048194	4.921117	.0838863	.0161077	71.00871
Stddev	.0032711	.005217	.010030	.0018697	.0063092	.63015
%RSD	1.975265	10.82551	.2038258	2.228845	39.16855	.8874207
#1	.1620933	-.051523	4.928624	.0820822	.0102166	70.31793
#2	.1661556	-.050879	4.909725	.0837614	.0227650	71.55210
#3	.1685656	-.042181	4.925001	.0858153	.0153415	71.15608

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.504550	.0127694	.0124169	283.5139	.2037945	.0619562
Stddev	.009938	.0000132	.0000838	1.6250	.0007713	.0006871
%RSD	.6605185	.1035673	.6747374	.5731512	.3784631	1.108986
#1	1.493867	.0127545	.0123261	281.6449	.2046620	.0625555
#2	1.513519	.0127739	.0124333	284.5919	.2035353	.0621069
#3	1.506263	.0127798	.0124912	284.3049	.2031863	.0612063

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5660878	191.8301	9.665492	93.50267	.2278862	.0020162
Stddev	.0074538	.9674	.060975	.53920	.0004234	.0005320
%RSD	1.316726	.5043188	.6308536	.5766728	.1858124	26.38729
#1	.5575495	190.7993	9.600687	92.89524	.2282397	.0017136
#2	.5694179	192.7184	9.721732	93.92476	.2274169	.0026305
#3	.5712961	191.9727	9.674056	93.68801	.2280020	.0017045

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017044	.1815149	3.670253	7.809590	F 10.77297	.1051379
Stddev	.009610	.0046911	.010386	.161437	.01289	.0013663
%RSD	.9449084	2.584439	.2829902	2.067160	.1196305	1.299556
#1	1.011507	.1869283	3.677093	7.630137	10.75841	.1057826
#2	1.011485	.1786391	3.658302	7.855619	10.78293	.1060625
#3	1.028141	.1789773	3.675365	7.943013	10.77756	.1035685

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-06 Acquired: 12/29/2024 10:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK86 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097227	4.512212	11.15645	.2666851	1.272298	.3001483
Stddev	.0010122	.016640	.02533	.0009318	.010075	.0035223
%RSD	10.41127	.3687663	.2270013	.3493954	.7918483	1.173520
#1	.0107598	4.528232	11.13596	.2672200	1.260768	.2960820
#2	.0096710	4.513387	11.14863	.2672261	1.276728	.3021089
#3	.0087373	4.495016	11.18477	.2656091	1.279400	.3022541

Elem	Li6707
Units	ppm
Avg	.0981979
Stddev	.0024416
%RSD	2.486437
#1	.1004981
#2	.0956359
#3	.0984596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.043	29522.43	2294.652	1484.934	1733.047
Stddev	6.533	54.49	4.569	4.438	6.567
%RSD	.2782320	.1845700	.1991355	.2988583	.3789325
#1	2346.398	29515.86	2299.914	1480.775	1729.718
#2	2342.489	29579.91	2292.362	1489.606	1728.812
#3	2355.241	29471.53	2291.680	1484.422	1740.612

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-07 Acquired: 12/29/2024 10:19:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK87 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2685946	-.071176	9.626683	.1262062	.0320724	75.36338
Stddev	.0016311	.004542	.024577	.0059933	.0062475	.19320
%RSD	.6072609	6.380835	.2552991	4.748780	19.47930	.2563566
#1	.2687502	-.076029	9.622333	.1192860	.0352098	75.42283
#2	.2668912	-.067028	9.604572	.1297192	.0248780	75.51986
#3	.2701422	-.070472	9.653145	.1296133	.0361295	75.14744

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.501729	.0168202	.0243133	255.4310	.3351786	.0753791
Stddev	.004958	.0000373	.0000920	.4704	.0020791	.0005196
%RSD	.1981932	.2216121	.3782156	.1841677	.6202938	.6892794
#1	2.501717	.0168325	.0243804	255.3222	.3327824	.0747848
#2	2.506693	.0167784	.0242085	255.9463	.3365042	.0757473
#3	2.496777	.0168498	.0243511	255.0245	.3362492	.0756052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9285068	245.9109	10.80360	67.07870	.2949829	.0088960
Stddev	.0064540	.5690	.03496	.16782	.0012773	.0014230
%RSD	.6950907	.2313910	.3236311	.2501768	.4329903	15.99604
#1	.9232197	246.1453	10.81648	67.12969	.2962627	.0082095
#2	.9356988	246.3252	10.83030	67.21511	.2937082	.0105321
#3	.9266018	245.2621	10.76403	66.89131	.2949777	.0079464

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.292009	.2353315	7.670243	7.397578	F 16.53636	.1471694
Stddev	.029599	.0014374	.026572	.126547	.02937	.0006825
%RSD	2.290958	.6107837	.3464267	1.710650	.1776386	.4637270
#1	1.283273	.2343491	7.642249	7.542005	16.52834	.1469317
#2	1.324993	.2346641	7.673363	7.344592	16.51182	.1466377
#3	1.267760	.2369812	7.695118	7.306137	16.56891	.1479390

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-07 Acquired: 12/29/2024 10:19:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK87 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137810	4.661565	11.80805	.5758863	.7632760	.3106510
Stddev	.0003297	.013714	.07311	.0007441	.0022913	.0029608
%RSD	2.392732	.2941911	.6191862	.1292098	.3001982	.9531089
#1	.0140241	4.660074	11.81319	.5755671	.7609457	.3081637
#2	.0139133	4.648658	11.87845	.5767368	.7655263	.3098632
#3	.0134057	4.675964	11.73250	.5753551	.7633561	.3139261

Elem	Li6707
Units	ppm
Avg	.0973769
Stddev	.0025896
%RSD	2.659399
#1	.0964133
#2	.0954072
#3	.1003102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.882	31799.21	2468.906	1606.198	1790.449
Stddev	6.623	116.82	6.994	8.207	5.515
%RSD	.2621864	.3673574	.2832742	.5109842	.3080260
#1	2518.618	31876.46	2465.867	1607.250	1784.895
#2	2531.583	31856.35	2463.947	1613.830	1795.924
#3	2527.446	31664.83	2476.906	1597.516	1790.526

Reviewed By:mohan
On:12/31/2024
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Sample Name: P5038-08 Acquired: 12/29/2024 10:23:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1538966	-.009643	3.986125	.0489522	.0024219	39.53245
Stddev	.0066611	.009953	.009339	.0055039	.0023120	1.54949
%RSD	4.328311	103.2092	.2342942	11.24346	95.46161	3.919536
#1	.1612569	-.015360	3.987334	.0552839	-.000226	41.31873
#2	.1521503	.001849	3.976240	.0453112	.004042	38.72778
#3	.1482826	-.015420	3.994800	.0462617	.003449	38.55085

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.164688	.0094416	.0119854	F 1572.924	.1632433	.0733182
Stddev	.045420	.0003836	.0000961	59.788	.0006520	.0021325
%RSD	3.899791	4.062329	.8020308	3.801042	.3994093	2.908560
#1	1.217069	.0098833	.0118756	1641.958	.1635750	.0708614
#2	1.140770	.0092484	.0120261	1538.927	.1636629	.0746902
#3	1.136224	.0091930	.0120545	1537.887	.1624922	.0744031

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5245599	154.8078	9.943752	164.6355	.1524235	.0048103
Stddev	.0198198	5.7044	.370702	5.5107	.0012734	.0004388
%RSD	3.778371	3.684839	3.727986	3.347218	.8354533	9.122353
#1	.5471786	161.3812	10.37157	170.9844	.1538870	.0044065
#2	.5162703	151.8857	9.74216	161.8301	.1518144	.0052773
#3	.5102307	151.1565	9.71753	161.0920	.1515689	.0047472

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550642	.1186817	3.504607	4.464777	9.752653	.0900612
Stddev	.057139	.0080220	.014075	.296462	.022245	.0043686
%RSD	3.684886	6.759239	.4016184	6.640018	.2280950	4.850675
#1	1.616572	.1174480	3.497318	4.791176	9.755509	.0934806
#2	1.515489	.1113480	3.495670	4.390950	9.729118	.0915633
#3	1.519864	.1272490	3.520831	4.212205	9.773332	.0851398

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-08 Acquired: 12/29/2024 10:23:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042620	3.156286	8.912947	.2609471	.4340379	.9605944
Stddev	.0006094	.009406	.365775	.0009670	.0164655	.0375835
%RSD	14.29857	.2980060	4.103858	.3705659	3.793574	3.912529
#1	.0038685	3.152690	9.334047	.2619680	.4525772	1.003983
#2	.0049639	3.149208	8.674157	.2608284	.4284201	.939647
#3	.0039534	3.166959	8.730638	.2600450	.4211164	.938153

Elem	Li6707
Units	ppm
Avg	.0662939
Stddev	.0028241
%RSD	4.259928
#1	.0650157
#2	.0695311
#3	.0643350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.441	28344.87	2271.845	1422.289	1561.635
Stddev	6.618	115.16	84.614	4.244	5.382
%RSD	.2947380	.4062818	3.724444	.2984143	.3446497
#1	2241.726	28429.90	2174.145	1427.189	1558.616
#2	2253.082	28213.82	2321.370	1419.801	1567.849
#3	2241.515	28390.91	2320.020	1419.875	1558.440

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-09 Acquired: 12/29/2024 10:27:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK89 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1406203	-.011168	2.583803	.0608821	.0122679	56.40210	1.086853
Stddev	.0040338	.002207	.001802	.0056075	.0024150	.41504	.005928
%RSD	2.868554	19.75793	.0697394	9.210386	19.68539	.7358532	.5453880
#1	.1422597	-.009078	2.585725	.0550280	.0094812	56.18719	1.082627
#2	.1435763	-.010951	2.582151	.0614131	.0137506	56.88052	1.093629
#3	.1360250	-.013476	2.583534	.0662052	.0135719	56.13859	1.084304

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103267	.0085371	477.3869	.1092156	.0888589	.2772755	147.5961
Stddev	.0000797	.0001371	3.4678	.0002679	.0013263	.0042307	.8314
%RSD	.7717646	1.605574	.7264197	.2452937	1.492614	1.525797	.5632638
#1	.0104015	.0084442	476.1135	.1095183	.0900462	.2817084	147.0264
#2	.0102429	.0084726	481.3114	.1091194	.0874274	.2732812	148.5501
#3	.0103356	.0086945	474.7359	.1090091	.0891029	.2768370	147.2118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.24517	57.16875	.1375759	.0030480	.9172028	.1343191	1.387778
Stddev	.10640	.28425	.0003076	.0006688	.0029864	.0073139	.002516
%RSD	.6979434	.4972086	.2236088	21.94088	.3255965	5.445177	.1812717
#1	15.15529	56.97306	.1373627	.0023268	.9137803	.1291096	1.386165
#2	15.36266	57.49480	.1374364	.0036477	.9185486	.1311673	1.390677
#3	15.21755	57.03840	.1379285	.0031696	.9192795	.1426805	1.386493

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.908302	9.688170	.0709724	.0078019	1.741439	10.61502	.1325433
Stddev	.162901	.013494	.0010039	.0001393	.004759	.08329	.0015445
%RSD	2.757160	.1392870	1.414546	1.785897	.2732901	.7846574	1.165308
#1	5.734136	9.702339	.0720020	.0078231	1.743504	10.61260	.1307726
#2	6.056919	9.675470	.0699963	.0076532	1.735996	10.69950	.1332441
#3	5.933850	9.686702	.0709188	.0079295	1.744817	10.53297	.1336132

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-09 Acquired: 12/29/2024 10:27:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK89 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4002728	.2481174	.0545767
Stddev	.0067628	.0019966	.0053437
%RSD	1.689556	.8046923	9.791210
#1	.3949918	.2477666	.0484484
#2	.4078952	.2502662	.0582640
#3	.3979314	.2463195	.0570177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2562.680	32295.05	2495.183	1628.922	1734.301
Stddev	11.417	88.64	18.105	.644	6.147
%RSD	.4455218	.2744618	.7255964	.0395464	.3544531
#1	2571.882	32203.88	2495.575	1628.491	1737.497
#2	2566.255	32380.92	2476.885	1628.613	1738.191
#3	2549.903	32300.33	2513.089	1629.663	1727.214

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-10 Acquired: 12/29/2024 10:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK90 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1328312	-.035634	2.983320	.0708411	.0149485	59.06932
Stddev	.0061003	.002058	.007376	.0046470	.0035271	.81416
%RSD	4.592512	5.774976	.2472381	6.559822	23.59474	1.378310
#1	.1364715	-.036429	2.980648	.0655905	.0168616	58.64568
#2	.1362336	-.033298	2.977653	.0744249	.0171056	60.00795
#3	.1257886	-.037177	2.991660	.0725079	.0108782	58.55434

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.685441	.0107802	.0115356	108.4661	.1530169	.0609111
Stddev	.027226	.0000749	.0002374	1.6488	.0010029	.0015330
%RSD	1.615381	.6951951	2.057759	1.520071	.6554067	2.516782
#1	1.669854	.0107457	.0113588	107.6779	.1519404	.0617750
#2	1.716879	.0108662	.0114425	110.3610	.1531855	.0591411
#3	1.669591	.0107287	.0118054	107.3593	.1539248	.0618171

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4548804	146.3078	9.311278	29.56934	.1884845	.0050815
Stddev	.0133340	2.0975	.123175	.40631	.0011912	.0005977
%RSD	2.931329	1.433603	1.322859	1.374080	.6319688	11.76157
#1	.4465857	144.8956	9.226583	29.40422	.1888250	.0055530
#2	.4702614	148.7179	9.452581	30.03221	.1871602	.0044093
#3	.4477940	145.3098	9.254671	29.27159	.1894683	.0052823

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4641181	.1550573	2.521647	6.273491	F 12.15923	.0875269
Stddev	.0368849	.0134239	.012912	.171945	.03309	.0042989
%RSD	7.947310	8.657361	.5120290	2.740815	.2721010	4.911479
#1	.4369512	.1396553	2.533989	6.082749	12.14353	.0866806
#2	.5061087	.1612472	2.508233	6.416592	12.13692	.0921860
#3	.4492945	.1642695	2.522721	6.321133	12.19724	.0837141

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-10 Acquired: 12/29/2024 10:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK90 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088157	4.606687	11.97780	.1126465	.6613159	.1093212
Stddev	.0006143	.010041	.09615	.0009162	.0075020	.0018758
%RSD	6.968207	.2179623	.8027577	.8133191	1.134405	1.715811
#1	.0087970	4.608614	11.96978	.1129140	.6532306	.1089622
#2	.0082109	4.595822	12.07771	.1116263	.6680514	.1113505
#3	.0094391	4.615625	11.88590	.1133991	.6626655	.1076509

Elem	Li6707
Units	ppm
Avg	.0757954
Stddev	.0003835
%RSD	.5060265
#1	.0758140
#2	.0761694
#3	.0754030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.898	30841.47	2355.256	1560.046	1867.508
Stddev	2.851	90.02	25.326	6.086	3.391
%RSD	.1166652	.2918820	1.075309	.3901143	.1815699
#1	2446.421	30787.71	2349.001	1553.068	1871.362
#2	2444.468	30791.31	2333.644	1562.812	1864.981
#3	2440.805	30945.40	2383.124	1564.257	1866.181

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-11 Acquired: 12/29/2024 10:34:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK91 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1834101	-.047819	7.239401	.1006954	.0209422	74.55087
Stddev	.0030158	.008466	.070410	.0105074	.0027010	.31109
%RSD	1.644314	17.70396	.9725921	10.43485	12.89728	.4172813
#1	.1851910	-.049323	7.319061	.0959177	.0224832	74.55885
#2	.1851113	-.055433	7.185492	.0934258	.0178234	74.85789
#3	.1799280	-.038702	7.213649	.1127427	.0225198	74.23587

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.333473	.0141682	.0164830	150.0241	.1867149	.0722104
Stddev	.008822	.0000965	.0002872	.8358	.0007954	.0019677
%RSD	.3780629	.6814131	1.742077	.5571066	.4259737	2.724999
#1	2.331462	.0141797	.0167742	149.7589	.1859088	.0744804
#2	2.343126	.0142585	.0162001	150.9604	.1874991	.0709893
#3	2.325829	.0140664	.0164746	149.3532	.1867368	.0711616

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6321895	195.1072	12.33515	35.57396	.2490285	.0053083
Stddev	.0045895	.9229	.06097	.18190	.0032386	.0008892
%RSD	.7259668	.4730131	.4943036	.5113172	1.300473	16.75102
#1	.6305351	194.3428	12.32874	35.56481	.2527073	.0062020
#2	.6373769	196.1324	12.39907	35.76026	.2466079	.0044237
#3	.6286567	194.8463	12.27763	35.39681	.2477701	.0052993

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5947492	.2053123	3.297495	7.871563	F 16.00183	.1070314
Stddev	.0203751	.0100977	.008855	.033375	.17840	.0017340
%RSD	3.425829	4.918235	.2685340	.4239892	1.114853	1.620076
#1	.6128701	.1999688	3.293164	7.835761	16.20657	.1077956
#2	.5726938	.1990091	3.307682	7.877115	15.87982	.1082520
#3	.5986839	.2169590	3.291640	7.901814	15.91910	.1050466

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-11 Acquired: 12/29/2024 10:34:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK91 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119797	5.468034	12.60415	.1566915	.7014033	.1724713
Stddev	.0003105	.054766	.05667	.0016279	.0026645	.0023496
%RSD	2.591713	1.001575	.4496509	1.038939	.3798776	1.362319
#1	.0123370	5.529847	12.54080	.1585401	.7011540	.1733888
#2	.0118262	5.425561	12.62158	.1554722	.7041837	.1742237
#3	.0117758	5.448695	12.65006	.1560621	.6988723	.1698013

Elem	Li6707
Units	ppm
Avg	.0973842
Stddev	.0036012
%RSD	3.697987
#1	.0964551
#2	.1013589
#3	.0943385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2513.459	31697.80	2484.977	1611.740	1824.922
Stddev	15.246	154.26	10.429	12.720	14.072
%RSD	.6065730	.4866511	.4196942	.7892394	.7711009
#1	2495.881	31574.52	2485.438	1602.164	1808.889
#2	2521.425	31648.09	2474.325	1606.883	1835.224
#3	2523.073	31870.78	2495.168	1626.173	1830.652

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-12 Acquired: 12/29/2024 10:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK92 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1523182	-.026699	2.966116	.0656466	.0111992	62.99618
Stddev	.0045835	.007177	.006528	.0020127	.0035833	.23124
%RSD	3.009128	26.88201	.2200727	3.065895	31.99575	.3670681
#1	.1534359	-.027635	2.973215	.0635147	.0119523	63.22146
#2	.1472793	-.033362	2.960372	.0659113	.0072993	63.00767
#3	.1562395	-.019099	2.964762	.0675138	.0143462	62.75941

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.804895	.0111578	.0115823	156.0384	.1422893	.0661642
Stddev	.004148	.0000433	.0000866	.8885	.0006366	.0003603
%RSD	.2298174	.3877217	.7478633	.5694144	.4473850	.5446170
#1	1.809683	.0111105	.0115642	157.0485	.1428290	.0661466
#2	1.802389	.0111953	.0116765	155.6893	.1415872	.0658130
#3	1.802614	.0111678	.0115061	155.3775	.1424515	.0665331

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4275536	149.7053	12.21931	30.59472	.1748555	.0054258
Stddev	.0028194	.7543	.02850	.09254	.0011049	.0011159
%RSD	.6594173	.5038471	.2332775	.3024770	.6318871	20.56614
#1	.4262173	150.5442	12.24195	30.69798	.1761299	.0044925
#2	.4256508	149.0829	12.22867	30.56687	.1741671	.0051232
#3	.4307926	149.4888	12.18730	30.51930	.1742694	.0066618

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5697627	.1653586	2.157207	5.866103	F 12.15732	.0829762
Stddev	.0277365	.0119938	.012757	.051400	.03846	.0019433
%RSD	4.868082	7.253220	.5913893	.8762225	.3163615	2.342048
#1	.5591798	.1602342	2.161407	5.915497	12.19136	.0847490
#2	.5488756	.1567782	2.142879	5.869905	12.11560	.0808984
#3	.6012327	.1790634	2.167336	5.812908	12.16500	.0832812

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-12 Acquired: 12/29/2024 10:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK92 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091527	2.926356	11.45146	.1381972	.6096173	.1905678
Stddev	.0003062	.016356	.06687	.0017347	.0033493	.0016740
%RSD	3.345660	.5589265	.5839647	1.255222	.5494140	.8784491
#1	.0091703	2.942809	11.50463	.1377557	.6133550	.1922415
#2	.0094497	2.910099	11.47338	.1367260	.6086088	.1905685
#3	.0088380	2.926159	11.37638	.1401100	.6068881	.1888934

Elem	Li6707
Units	ppm
Avg	.0807825
Stddev	.0042899
%RSD	5.310497
#1	.0846927
#2	.0814612
#3	.0761937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2473.890	31154.25	2366.140	1579.489	1845.788
Stddev	2.335	115.38	13.236	10.780	3.385
%RSD	.0943725	.3703523	.5593773	.6825077	.1834130
#1	2474.716	31231.15	2370.316	1588.897	1843.024
#2	2475.699	31210.02	2351.321	1581.845	1849.564
#3	2471.254	31021.58	2376.785	1567.726	1844.776

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-13 Acquired: 12/29/2024 10:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0709108	-.079413	.3493220	.1035401	.0276648	108.5363	.9678007
Stddev	.0072877	.003402	.0032990	.0036159	.0039866	.3579	.0040816
%RSD	10.27730	4.284103	.9444042	3.492244	14.41047	.3297597	.4217381
#1	.0767746	-.083069	.3505209	.1077152	.0254857	108.5575	.9702081
#2	.0732058	-.076341	.3455912	.1014816	.0322660	108.8831	.9701059
#3	.0627518	-.078830	.3518540	.1014235	.0252426	108.1682	.9630880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160423	.0036749	142.8016	.1488590	.0340748	.1141491	226.3360
Stddev	.0001254	.0001577	.1713	.0001754	.0006887	.0027091	.5546
%RSD	.7818508	4.291309	.1199837	.1178054	2.021041	2.373309	.2450448
#1	.0160945	.0036479	142.6321	.1489550	.0332927	.1155188	226.3374
#2	.0161333	.0035324	142.9748	.1489654	.0345903	.1110286	226.8899
#3	.0158992	.0038443	142.7981	.1486566	.0343414	.1158999	225.7807

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.836275	52.65323	.1847389	-.001854	.5263373	.2391386	.5319362
Stddev	.008275	.24377	.0013218	.000539	.0344574	.0084357	.0025893
%RSD	.2157127	.4629802	.7155045	29.05198	6.546638	3.527552	.4867726
#1	3.845461	52.64363	.1841678	-.001580	.4925370	.2464873	.5337547
#2	3.833963	52.90166	.1837986	-.001507	.5614162	.2410013	.5330823
#3	3.829403	52.41439	.1862502	-.002474	.5250587	.2299272	.5289716

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.429517	6.155086	.0902414	.0047164	2.463398	15.11938	.0312986
Stddev	.129875	.017016	.0007818	.0003230	.014227	.02468	.0034592
%RSD	2.392022	.2764537	.8663157	6.847888	.5775308	.1632468	11.05236
#1	5.469343	6.142555	.0893432	.0044190	2.471834	15.13993	.0279377
#2	5.284393	6.148246	.0906125	.0046702	2.446972	15.12621	.0348484
#3	5.534816	6.174458	.0907685	.0050600	2.471387	15.09200	.0311098

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-13 Acquired: 12/29/2024 10:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8267543	.0521969	.1455585
Stddev	.0063670	.0009668	.0005590
%RSD	.7701239	1.852183	.3840030
#1	.8330838	.0511496	.1456742
#2	.8268287	.0523857	.1449507
#3	.8203503	.0530553	.1460505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2343.890	29604.60	2233.091	1497.172	1825.102
Stddev	12.044	17.13	2.825	5.268	6.582
%RSD	.5138589	.0578652	.1265081	.3518387	.3606375
#1	2357.374	29612.76	2231.347	1493.862	1831.979
#2	2334.198	29584.92	2231.576	1494.407	1824.464
#3	2340.099	29616.13	2236.351	1503.246	1818.862

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV039 Acquired: 12/29/2024 10:46:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV039 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.195062	4.809963	24.75647	5.113146	5.021666	415.2927	10.41219
Stddev	.004554	.015943	.04193	.008224	.016059	4.1570	.10491
%RSD	.0876640	.3314616	.1693617	.1608400	.3197882	1.000980	1.007614
#1	5.191014	4.823262	24.75332	5.107199	5.007094	419.8598	10.52672
#2	5.194180	4.792289	24.71620	5.109708	5.038883	414.2886	10.38913
#3	5.199993	4.814338	24.79988	5.122531	5.019022	411.7297	10.32072

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5368841	2.498584	408.4193	15.39664	2.405817	14.93398	413.5394
Stddev	.0049647	.002653	4.6219	.00807	.004609	.13598	4.5616
%RSD	.9247146	.1061629	1.131665	.0524319	.1915948	.9105156	1.103058
#1	.5426088	2.497246	413.4832	15.39876	2.403795	15.08900	418.6205
#2	.5337603	2.496868	407.3471	15.38772	2.402564	14.87808	412.2009
#3	.5342831	2.501640	404.4278	15.40344	2.411092	14.83487	409.7968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.90748	408.4210	2.514141	1.279351	432.3119	2.510280	15.13199
Stddev	.13733	4.8194	.000882	.001231	5.2410	.015513	.05692
%RSD	.9211908	1.180018	.0350903	.0962152	1.212323	.6179889	.3761761
#1	15.05472	413.6324	2.515062	1.280730	438.1829	2.514919	15.17878
#2	14.88486	407.5060	2.514058	1.278364	430.6478	2.522944	15.14857
#3	14.78287	404.1247	2.513303	1.278959	428.1049	2.492976	15.06862

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.5462	5.021740	5.179747	5.003264	5.127075	5.071128	5.030394
Stddev	1.4987	.011286	.055567	.005808	.011128	.042280	.011371
%RSD	.9697582	.2247476	1.072780	.1160766	.2170523	.8337368	.2260485
#1	156.1615	5.019036	5.234934	4.996564	5.130178	5.118060	5.018986
#2	154.2766	5.012052	5.123807	5.006855	5.114725	5.036015	5.030469
#3	153.2006	5.034133	5.180500	5.006373	5.136323	5.059310	5.041728

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV039 Acquired: 12/29/2024 10:46:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV039 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.087420	4.774801	5.244703
Stddev	.044298	.050058	.044226
%RSD	.8707292	1.048378	.8432530
#1	5.137085	4.828164	5.294258
#2	5.073186	4.767358	5.230613
#3	5.051989	4.728882	5.209239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1849.863	24146.68	1875.707	1168.279	1567.307
Stddev	1.589	101.42	21.268	8.100	3.555
%RSD	.0859100	.4200096	1.133856	.6933666	.2267918
#1	1850.581	24039.09	1851.176	1160.753	1566.552
#2	1850.967	24160.43	1888.967	1167.231	1571.179
#3	1848.042	24240.52	1886.979	1176.852	1564.191

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB039 Acquired: 12/29/2024 10:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB039 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002748	.0001796	.0011675	.0021872	-.000909	.0359448
Stddev	.003518	.0006986	.0012771	.0040288	.001896	.0183086
%RSD	128.0049	389.0694	109.3902	184.2059	208.6675	50.93538
#1	.001114	.0009478	-.000200	.0003691	-.003001	.0387192
#2	-.003590	-.000417	.001372	.0068046	.000695	.0527080
#3	-.005768	.000008	.002330	-.000612	-.000420	.0164074

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000013	-.000186	.0000066	-.034275	.0000563	-.000171
Stddev	.002837	.000097	.0000506	.017068	.0007700	.000301
%RSD	22357.35	52.28711	763.4056	49.79866	1367.376	175.5404
#1	-.001780	-.000264	.0000153	-.032624	.0008383	-.000005
#2	.003260	-.000077	.0000523	-.052108	.0000318	.000009
#3	-.001518	-.000216	-.000048	-.018092	-.000701	-.000519

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006660	.0114364	-.000238	-.066504	.0001797	.0009629
Stddev	.009136	.0239371	.000514	.088803	.0002176	.0008097
%RSD	137.1810	209.3062	215.9257	133.5290	121.0593	84.09037
#1	-.002879	.0226386	.000045	-.089912	.0003040	.0018270
#2	-.017080	.0277183	-.000831	.031657	.0003066	.0008401
#3	-.000021	-.016048	.000072	-.141259	-.000072	.0002216

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129713	-.012288	.0030037	.2112007	.0015996	.0104454
Stddev	.0368740	.003542	.0011845	.1857852	.0016259	.0017805
%RSD	284.2727	28.82624	39.43610	87.96617	101.6440	17.04581
#1	.0291331	-.015428	.0039658	.1041184	.0019073	.0084826
#2	-.029224	-.008448	.0033646	.4257269	.0030497	.0108971
#3	.039005	-.012988	.0016807	.1037570	-.000158	.0119566

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB039 Acquired: 12/29/2024 10:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB039 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003043	.0060664	.0011194	-.000821	.0015868	.0001074
Stddev	.0006104	.0030945	.0006390	.000614	.0010836	.0002485
%RSD	200.5794	51.01037	57.08436	74.74343	68.28768	231.3946
#1	.0008551	.0096123	.0005052	-.000339	.0014304	.0003127
#2	-.000352	.0039113	.0017806	-.001512	.0005899	-.000169
#3	.000410	.0046757	.0010725	-.000612	.0027400	.000178

Elem	Li6707
Units	ppm
Avg	F .0273869
Stddev	.0038766
%RSD	14.15505
#1	.0282542
#2	.0307564
#3	.0231501

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.286	25263.05	1926.149	1277.714	1826.388
Stddev	4.617	581.97	40.791	27.480	1.458
%RSD	.2276392	2.303640	2.117754	2.150696	.0798434
#1	2031.271	25335.14	1951.109	1281.281	1826.935
#2	2022.967	25805.61	1879.076	1303.236	1824.736
#3	2030.618	24648.39	1948.261	1248.625	1827.494

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-14 Acquired: 12/29/2024 10:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0611934	-.057479	.3608399	.0759536	.0195777	90.72917	.8362698
Stddev	.0066274	.004896	.0037418	.0043973	.0023537	.23638	.0017991
%RSD	10.83031	8.518623	1.036977	5.789426	12.02215	.2605291	.2151384
#1	.0638207	-.058696	.3646728	.0757349	.0222399	90.59922	.8347937
#2	.0661044	-.061651	.3571964	.0716697	.0187202	91.00201	.8382738
#3	.0536551	-.052088	.3606505	.0804561	.0177730	90.58627	.8357418

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126153	.0033110	139.1555	.1239819	.0380519	.1254876	176.8538
Stddev	.0001028	.0001142	.4633	.0022154	.0003757	.0045933	.4370
%RSD	.8150160	3.449526	.3329696	1.786871	.9874117	3.660326	.2470820
#1	.0127258	.0032725	138.7115	.1229757	.0379545	.1222760	176.6677
#2	.0125226	.0032210	139.6360	.1265218	.0377345	.1307488	177.3530
#3	.0125974	.0034395	139.1190	.1224481	.0384668	.1234379	176.5407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.404346	56.38898	.1518761	-.000007	.5500119	.1846302	.5052112
Stddev	.004646	.33275	.0008897	.000374	.0195809	.0027942	.0016772
%RSD	.1364772	.5901034	.5857767	5380.036	3.560087	1.513398	.3319818
#1	3.401066	56.02345	.1528923	.000416	.5424543	.1852492	.5070709
#2	3.409663	56.67429	.1514985	-.000293	.5722454	.1815784	.5038132
#3	3.402309	56.46919	.1512376	-.000143	.5353361	.1870629	.5047493

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.664641	6.206869	.0747555	.0051683	2.901489	15.77039	.0336388
Stddev	.144954	.014852	.0002200	.0008703	.007813	.08460	.0018948
%RSD	2.558928	.2392837	.2942934	16.83931	.2692846	.5364680	5.632744
#1	5.559147	6.224004	.0749109	.0060124	2.909030	15.86803	.0348844
#2	5.829927	6.197690	.0745037	.0042740	2.902006	15.71898	.0314583
#3	5.604850	6.198912	.0748518	.0052185	2.893429	15.72415	.0345738

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-14 Acquired: 12/29/2024 10:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7716541	.0621945	.1123443
Stddev	.0037577	.0004535	.0033927
%RSD	.4869731	.7291651	3.019911
#1	.7683076	.0617416	.1162321
#2	.7757193	.0626486	.1108178
#3	.7709355	.0621932	.1099830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2318.358	29367.88	2231.524	1487.720	1827.208
Stddev	7.757	30.76	15.975	11.997	8.066
%RSD	.3345920	.1047418	.7158954	.8063695	.4414516
#1	2320.503	29339.63	2214.907	1474.452	1827.030
#2	2324.816	29400.65	2246.769	1497.803	1835.362
#3	2309.753	29363.35	2232.895	1490.904	1819.233

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-15 Acquired: 12/29/2024 10:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0246149	.0173120	.9586343	-.008694	-.018197	28.26668
Stddev	.0040187	.0005594	.0047370	.005160	.003736	.14819
%RSD	16.32647	3.231206	.4941447	59.35426	20.52902	.5242611
#1	.0243688	.0167171	.9584662	-.012821	-.020725	28.20821
#2	.0287511	.0173914	.9539835	-.010354	-.013906	28.43518
#3	.0207249	.0178274	.9634531	-.002908	-.019960	28.15664

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2690827	.0053056	.0085298	F 1555.835	.0677257	.0590086
Stddev	.0013788	.0002212	.0001008	20.753	.0003942	.0013628
%RSD	.5124188	4.168319	1.181527	1.333901	.5820990	2.309428
#1	.2686685	.0055318	.0085344	1556.088	.0675690	.0593102
#2	.2706212	.0050899	.0086281	1576.461	.0674339	.0575203
#3	.2679585	.0052951	.0084267	1534.957	.0681742	.0601953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0706961	85.53559	8.453333	F 824.8211	.0939927	.0010028
Stddev	.0094000	.59356	.043118	6.4167	.0007745	.0017989
%RSD	13.29637	.6939359	.5100767	.7779447	.8239688	179.3836
#1	.0598553	85.13810	8.427034	821.5403	.0947309	.0007004
#2	.0756493	86.21788	8.503095	832.2148	.0931864	.0029337
#3	.0765836	85.25080	8.429871	820.7082	.0940607	-.000626

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.849849	.1147369	1.532544	2.629501	3.102724	.0917250
Stddev	.025866	.0052344	.002583	.044132	.008223	.0006017
%RSD	1.398259	4.562103	.1685218	1.678340	.2650106	.6560211
#1	1.877731	.1103355	1.529904	2.597529	3.112206	.0918110
#2	1.845179	.1133502	1.535066	2.679852	3.097562	.0922791
#3	1.826636	.1205251	1.532662	2.611121	3.098405	.0910848

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-15 Acquired: 12/29/2024 10:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007328	16.56685	8.905453	.0362777	.3016026	.4957150
Stddev	.0002936	.02813	.065781	.0010328	.0031940	.0030873
%RSD	40.06978	.1697761	.7386614	2.846936	1.058993	.6228007
#1	.0009323	16.59899	8.952650	.0359167	.3020491	.4966508
#2	.0003956	16.54672	8.933395	.0374425	.3045498	.4982260
#3	.0008705	16.55485	8.830313	.0354738	.2982089	.4922680

Elem	Li6707
Units	ppm
Avg	.0531105
Stddev	.0026996
%RSD	5.083029
#1	.0519126
#2	.0562018
#3	.0512172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1957.698	25253.04	1977.732	1250.913	1467.509
Stddev	1.534	39.88	14.018	5.903	.441
%RSD	.0783727	.1579356	.7087887	.4718622	.0300582
#1	1958.661	25222.89	1972.580	1250.897	1468.001
#2	1955.929	25237.96	1967.019	1245.019	1467.378
#3	1958.505	25298.26	1993.597	1256.824	1467.149

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-16 Acquired: 12/29/2024 11:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176371	.0140166	.1617259	-.002882	-.017020	48.21293
Stddev	.0049344	.0025771	.0021851	.006107	.001763	.10947
%RSD	27.97735	18.38595	1.351110	211.8551	10.35741	.2270454
#1	.0119726	.0128254	.1634149	.000673	-.015629	48.26168
#2	.0199371	.0169738	.1592581	.000614	-.019002	48.08756
#3	.0210016	.0122506	.1625048	-.009934	-.016429	48.28956

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3196599	.0057358	.0032419	F 1172.239	.0654796	.0541930
Stddev	.0015000	.0001476	.0000637	2.206	.0006029	.0003601
%RSD	.4692350	2.573340	1.965016	.1881497	.9206883	.6644194
#1	.3179294	.0056640	.0033078	1171.199	.0658684	.0542930
#2	.3204631	.0056378	.0032373	1170.747	.0647852	.0544925
#3	.3205872	.0059055	.0031807	1174.773	.0657853	.0537935

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564447	82.99534	4.863700	352.8307	.0938233	-.000831
Stddev	.0066493	.11697	.011067	1.2016	.0008051	.001307
%RSD	11.78019	.1409352	.2275346	.3405685	.8581295	157.2940
#1	.0556579	83.01080	4.868716	352.8353	.0947419	-.001954
#2	.0634524	82.87140	4.851013	351.6267	.0934884	-.001142
#3	.0502238	83.10381	4.871369	354.0300	.0932398	.000603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.541651	.1260446	.5527041	1.087712	2.250861	.1200972
Stddev	.045405	.0063571	.0022931	.109377	.013676	.0015125
%RSD	2.945242	5.043558	.4148848	10.05572	.6075793	1.259377
#1	1.496468	.1268616	.5520223	1.154013	2.250337	.1214925
#2	1.587276	.1193185	.5552608	.961467	2.237454	.1203091
#3	1.541209	.1319537	.5508293	1.147654	2.264791	.1184899

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-16 Acquired: 12/29/2024 11:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189100	20.99610	17.02075	.0213921	1.563211	.6863325
Stddev	.0002442	.07183	.01500	.0004435	.002844	.0007492
%RSD	1.291125	.3421326	.0881376	2.072988	.1819530	.1091626
#1	.0187718	20.94766	17.03783	.0218317	1.564019	.6860098
#2	.0191919	20.96202	17.01467	.0209449	1.560050	.6857986
#3	.0187663	21.07863	17.00974	.0213996	1.565563	.6871889

Elem	Li6707
Units	ppm
Avg	.0379729
Stddev	.0019670
%RSD	5.179899
#1	.0367962
#2	.0402436
#3	.0368788

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2053.916	26285.77	2031.794	1314.497	1579.211
Stddev	3.272	185.24	15.266	6.519	4.782
%RSD	.1593012	.7047061	.7513583	.4959534	.3027855
#1	2057.479	26348.77	2030.200	1317.575	1578.021
#2	2053.223	26431.29	2047.794	1318.907	1584.475
#3	2051.046	26077.25	2017.387	1307.008	1575.137

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-17 Acquired: 12/29/2024 11:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271956	.0189710	.4774734	-.008877	-.021347	19.92270
Stddev	.0067793	.0095361	.0013082	.007640	.009146	.15864
%RSD	24.92785	50.26658	.2739928	86.05642	42.84412	.7962916
#1	.0216588	.0081208	.4784477	-.001497	-.024813	19.90668
#2	.0251717	.0227709	.4779860	-.016752	-.010975	20.08874
#3	.0347563	.0260214	.4759864	-.008383	-.028253	19.77267

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2475342	.0053350	.0070128	F 1689.370	.0535791	.0542078
Stddev	.0028548	.0001996	.0000753	11.841	.0011427	.0015347
%RSD	1.153286	3.741725	1.073759	.7009108	2.132779	2.831100
#1	.2489637	.0055493	.0069848	1702.170	.0544113	.0547520
#2	.2493918	.0051543	.0069555	1687.132	.0540497	.0524752
#3	.2442470	.0053015	.0070981	1678.807	.0522762	.0553962

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406501	97.01151	8.029091	F 915.7076	.0987436	.0000102
Stddev	.0123015	.77729	.075183	9.0081	.0010613	.0001265
%RSD	30.26179	.8012370	.9363811	.9837290	1.074783	1245.153
#1	.0334073	97.24668	8.049692	918.6708	.0996327	-.000080
#2	.0336893	97.64406	8.091825	922.8609	.0990294	.000155
#3	.0548537	96.14379	7.945755	905.5912	.0975687	-.000045

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064698	.0949013	1.321424	3.401904	2.315112	.1114523
Stddev	.025269	.0023135	.004638	.191121	.008527	.0026772
%RSD	1.223866	2.437819	.3510042	5.618058	.3683304	2.402135
#1	2.080240	.0975566	1.317206	3.371371	2.319499	.1083634
#2	2.078314	.0933198	1.326391	3.606454	2.305285	.1128882
#3	2.035541	.0938276	1.320675	3.227888	2.320553	.1131052

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-17 Acquired: 12/29/2024 11:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027180	37.22664	8.113977	.0260299	.1487740	.7117497
Stddev	.0005498	.03971	.111801	.0037597	.0011028	.0084189
%RSD	20.22673	.1066819	1.377886	14.44387	.7412508	1.182847
#1	.0028110	37.26271	8.138875	.0265997	.1475009	.7145337
#2	.0032153	37.18408	8.211230	.0294722	.1493892	.7184240
#3	.0021277	37.23313	7.991825	.0220178	.1494321	.7022914

Elem	Li6707
Units	ppm
Avg	.0457894
Stddev	.0040020
%RSD	8.740037
#1	.0445823
#2	.0502560
#3	.0425298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1943.856	25050.50	1989.126	1240.722	1472.094
Stddev	4.367	103.89	16.017	5.653	2.713
%RSD	.2246487	.4147025	.8052380	.4556137	.1842915
#1	1941.445	25151.81	1991.315	1247.185	1469.468
#2	1948.897	25055.47	1972.127	1238.282	1474.886
#3	1941.226	24944.21	2003.936	1236.699	1471.928

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-18 Acquired: 12/29/2024 11:09:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0717461	.0149197	1.921346	.0052331	-.010892	31.64852
Stddev	.0039385	.0034956	.002746	.0034275	.002531	.12104
%RSD	5.489524	23.42939	.1429371	65.49724	23.23663	.3824389
#1	.0759633	.0110005	1.920873	.0027962	-.013022	31.74788
#2	.0681633	.0177155	1.918867	.0091522	-.011559	31.68397
#3	.0711117	.0160429	1.924298	.0037508	-.008094	31.51372

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7835182	.0072116	.0074208	F 1193.853	.0694548	.0644951
Stddev	.0017489	.0000350	.0000662	1.733	.0007106	.0006718
%RSD	.2232083	.4856229	.8925803	.1451966	1.023043	1.041617
#1	.7816234	.0071720	.0074973	1195.128	.0686360	.0649330
#2	.7850705	.0072385	.0073819	1194.550	.0699093	.0637217
#3	.7838606	.0072244	.0073832	1191.879	.0698191	.0648307

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488040	99.42872	6.215166	660.6550	.1124601	.0004100
Stddev	.0128393	.18476	.014890	1.5216	.0004863	.0026376
%RSD	5.160427	.1858209	.2395790	.2303242	.4323876	643.2536
#1	.2574337	99.59161	6.232250	661.8219	.1121517	.0031007
#2	.2549293	99.46659	6.208307	661.2093	.1130206	-.002171
#3	.2340491	99.22796	6.204941	658.9339	.1122079	.000301

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.605327	.0783757	1.601667	4.608698	4.663638	.0957474
Stddev	.018703	.0085709	.025422	.108944	.005595	.0023670
%RSD	1.165080	10.93566	1.587194	2.363884	.1199656	2.472081
#1	1.599028	.0867791	1.578717	4.644859	4.660241	.0945173
#2	1.590587	.0696466	1.628993	4.694963	4.660577	.0942488
#3	1.626367	.0787014	1.597292	4.486271	4.670095	.0984761

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-18 Acquired: 12/29/2024 11:09:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037344	25.67317	8.523713	.0729158	.2895140	2.031526
Stddev	.0007735	.04088	.028693	.0030035	.0025065	.003175
%RSD	20.71281	.1592508	.3366252	4.119102	.8657532	.1562755
#1	.0037893	25.67545	8.523430	.0737255	.2902085	2.030646
#2	.0029349	25.63120	8.552547	.0695905	.2916001	2.035048
#3	.0044790	25.71288	8.495163	.0754314	.2867335	2.028884

Elem	Li6707
Units	ppm
Avg	.0568538
Stddev	.0038380
%RSD	6.750555
#1	.0567162
#2	.0607587
#3	.0530865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2106.933	27004.07	2111.072	1340.173	1534.682
Stddev	4.300	322.05	16.137	21.431	4.406
%RSD	.2040755	1.192598	.7644219	1.599146	.2870787
#1	2102.870	27135.61	2109.073	1355.719	1531.112
#2	2111.436	26637.07	2096.027	1315.725	1539.606
#3	2106.493	27239.53	2128.116	1349.074	1533.328

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-19 Acquired: 12/29/2024 11:13:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509329	-.005007	.3328749	.0176842	-.000053	39.07800
Stddev	.0039558	.003286	.0008065	.0058090	.001850	.12268
%RSD	7.766709	65.63409	.2422894	32.84851	3519.848	.3139413
#1	.0495350	-.005723	.3324554	.0226113	-.002115	38.97577
#2	.0478658	-.007876	.3323646	.0112789	.001463	39.04420
#3	.0553979	-.001422	.3338047	.0191624	.000495	39.21404

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4617626	.0050969	.0025724	110.5081	.0632599	.0345135
Stddev	.0018104	.0000686	.0001138	.3416	.0005260	.0005429
%RSD	.3920584	1.346465	4.422535	.3090894	.8315564	1.573046
#1	.4596890	.0050186	.0025324	110.2308	.0633569	.0350744
#2	.4625699	.0051470	.0024840	110.4037	.0626921	.0339905
#3	.4630289	.0051249	.0027008	110.8896	.0637307	.0344756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0975365	73.64601	3.006120	19.73753	.0601364	.0004491
Stddev	.0037734	.24181	.003176	.26195	.0006828	.0004080
%RSD	3.868686	.3283398	.1056495	1.327165	1.135491	90.84974
#1	.0966139	73.67673	3.002735	19.44121	.0608981	.0009201
#2	.0943099	73.87098	3.006590	19.93826	.0599320	.0002249
#3	.1016856	73.39030	3.009035	19.83311	.0595791	.0002024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6124418	.0845020	.6490727	5.445468	F 10.56630	.0620018
Stddev	.0069860	.0031783	.0020754	.166778	.01280	.0011168
%RSD	1.140673	3.761154	.3197496	3.062697	.1211808	1.801275
#1	.6200294	.0824662	.6492879	5.291047	10.55989	.0609141
#2	.6062764	.0881643	.6510322	5.423026	10.55796	.0631456
#3	.6110197	.0828754	.6468981	5.622330	10.58104	.0619457

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-19 Acquired: 12/29/2024 11:13:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072967	4.822975	9.151279	.0234443	.6678706	.2699265
Stddev	.0004584	.021352	.086615	.0018242	.0010087	.0013206
%RSD	6.282865	.4427051	.9464831	7.781044	.1510329	.4892419
#1	.0067713	4.837119	9.100782	.0216252	.6681512	.2690731
#2	.0076158	4.798414	9.101762	.0252736	.6687094	.2692587
#3	.0075028	4.833392	9.251292	.0234341	.6667513	.2714476

Elem	Li6707
Units	ppm
Avg	.0264189
Stddev	.0026597
%RSD	10.06749
#1	.0254021
#2	.0294370
#3	.0244176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.485	28626.59	2175.002	1437.035	1895.758
Stddev	7.299	170.18	6.220	11.235	5.691
%RSD	.3230248	.5944859	.2859965	.7818397	.3001810
#1	2253.291	28496.17	2172.699	1433.113	1889.308
#2	2257.633	28564.51	2182.046	1428.286	1897.896
#3	2267.531	28819.10	2170.262	1449.706	1900.070

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-20 Acquired: 12/29/2024 11:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1107658	-.063387	.8093759	.0974766	.0289278	81.27042	1.037122
Stddev	.0059568	.004453	.0009735	.0014950	.0049121	.09756	.001509
%RSD	5.377823	7.024597	.1202795	1.533663	16.98064	.1200390	.1455343
#1	.1147996	-.058269	.8083768	.0957514	.0337343	81.22586	1.037403
#2	.1039240	-.066370	.8094293	.0982879	.0291327	81.38230	1.038471
#3	.1135739	-.065521	.8103216	.0983905	.0239164	81.20311	1.035492

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130863	.0061713	50.39930	.1256063	.0374910	.2026203	179.3223
Stddev	.0000722	.0001278	.14932	.0001649	.0002335	.0065229	.1035
%RSD	.5514982	2.070241	.2962681	.1312909	.6229012	3.219250	.0577309
#1	.0131681	.0062842	50.53141	.1254363	.0375522	.2075482	179.2856
#2	.0130590	.0060326	50.42919	.1257657	.0372330	.1952234	179.4392
#3	.0130318	.0061970	50.23730	.1256168	.0376878	.2050894	179.2421

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.584602	25.32149	.1780460	-.001051	.3942018	.1820958	.9270182
Stddev	.014707	.17201	.0009370	.000462	.0139038	.0083652	.0023296
%RSD	.1713159	.6792886	.5262571	43.96432	3.527069	4.593871	.2512986
#1	8.572741	25.12366	.1777664	-.000969	.3955427	.1731782	.9296807
#2	8.601058	25.40511	.1790909	-.000635	.4073866	.1833399	.9253547
#3	8.580008	25.43570	.1772806	-.001548	.3796762	.1897694	.9260193

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.416203	8.156610	.0939240	.0079409	3.875401	13.67214	.0432597
Stddev	.094485	.011583	.0008318	.0003047	.006599	.14875	.0010346
%RSD	1.122657	.1420072	.8856343	3.836986	.1702676	1.087972	2.391659
#1	8.525276	8.158673	.0945477	.0081005	3.882348	13.64192	.0432241
#2	8.363846	8.167023	.0929795	.0075896	3.869218	13.83368	.0422434
#3	8.359488	8.144134	.0942446	.0081327	3.874637	13.54082	.0443117

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-20 Acquired: 12/29/2024 11:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6412146	-.040921	.0848018
Stddev	.0025175	.000601	.0043244
%RSD	.3926101	1.468459	5.099359
#1	.6386593	-.040738	.0810178
#2	.6412920	-.040433	.0895154
#3	.6436924	-.041592	.0838724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.667	30819.25	2366.635	1555.934	1869.508
Stddev	3.474	150.84	23.379	12.301	1.860
%RSD	.1422407	.4894366	.9878713	.7905581	.0995159
#1	2446.222	30648.34	2354.429	1542.423	1869.559
#2	2439.279	30875.59	2351.884	1566.484	1867.622
#3	2442.500	30933.80	2393.591	1558.894	1871.342

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-21 Acquired: 12/29/2024 11:21:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1640063	-.040362	1.497652	.0855218	.0188596	67.44177	1.253244
Stddev	.0068642	.004227	.006829	.0015450	.0032756	.16476	.002943
%RSD	4.185330	10.47330	.4559611	1.806549	17.36832	.2442999	.2348357
#1	.1718653	-.044442	1.501884	.0872554	.0213147	67.60187	1.255872
#2	.1609680	-.040641	1.501298	.0850196	.0151403	67.27272	1.250064
#3	.1591856	-.036002	1.489774	.0842904	.0201237	67.45071	1.253795

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121456	.0096500	84.03725	.1128528	.0645636	.3463057	161.9150
Stddev	.0004163	.0001698	.18964	.0009001	.0001600	.0069935	.4272
%RSD	3.427941	1.759323	.2256616	.7976228	.2477659	2.019450	.2638154
#1	.0117505	.0098427	84.23050	.1118146	.0645640	.3525568	162.3795
#2	.0121059	.0095225	83.85143	.1134152	.0644034	.3476075	161.5390
#3	.0125804	.0095847	84.02981	.1133286	.0647233	.3387528	161.8264

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.81851	28.32313	.2059586	.0003004	.4518404	.1540209	1.282646
Stddev	.04285	.02317	.0009596	.0005985	.0261696	.0020496	.007490
%RSD	.3342790	.0818106	.4659122	199.2401	5.791786	1.330714	.5839126
#1	12.86065	28.34504	.2063138	-.000390	.4257575	.1536697	1.291278
#2	12.77498	28.32546	.2066899	.000617	.4516678	.1562234	1.278787
#3	12.81989	28.29888	.2048721	.000674	.4780959	.1521696	1.277872

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.915609	8.788951	.0934676	.0082478	3.889047	11.56280	.0832709
Stddev	.017045	.018406	.0026691	.0009696	.009593	.01476	.0006834
%RSD	.2464757	.2094252	2.855640	11.75587	.2466745	.1276519	.8206867
#1	6.919352	8.790033	.0951699	.0071671	3.892303	11.57962	.0825633
#2	6.897004	8.806792	.0903914	.0090416	3.896589	11.55202	.0833221
#3	6.930473	8.770028	.0948415	.0085348	3.878250	11.55676	.0839272

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-21 Acquired: 12/29/2024 11:21:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6633332	.0137278	.0715386
Stddev	.0010840	.0007594	.0033296
%RSD	.1634092	5.532182	4.654296
#1	.6643459	.0133918	.0738762
#2	.6634637	.0131943	.0677264
#3	.6621898	.0145973	.0730134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.755	32375.32	2505.533	1641.642	1861.686
Stddev	4.000	86.59	5.630	2.951	3.004
%RSD	.1550462	.2674456	.2246987	.1797291	.1613706
#1	2575.678	32474.99	2510.289	1638.318	1859.434
#2	2579.916	32332.29	2506.992	1642.658	1860.528
#3	2583.672	32318.68	2499.316	1643.951	1865.097

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-01 Acquired: 12/29/2024 11:25:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1648721	-.035984	1.395085	.0804139	.1091790	73.61744
Stddev	.0042846	.005767	.003959	.0018313	.0039090	.44299
%RSD	2.598764	16.02685	.2837565	2.277328	3.580373	.6017519
#1	.1697063	-.029438	1.390624	.0801125	.1065388	73.30724
#2	.1615432	-.038196	1.396454	.0787521	.1073285	73.42030
#3	.1633670	-.040317	1.398178	.0823772	.1136696	74.12478

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.555380	.0134487	.0084524	146.0422	.1343699	.1195585
Stddev	.009106	.0002265	.0001341	.9460	.0003918	.0004748
%RSD	.5854770	1.684508	1.586328	.6477468	.2916101	.3970894
#1	1.553349	.0131957	.0084477	145.8001	.1348110	.1195359
#2	1.547461	.0136329	.0083207	145.2408	.1340621	.1190954
#3	1.565331	.0135174	.0085887	147.0857	.1342365	.1200441

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3182116	166.1415	15.10107	44.04538	.2447685	-.000148
Stddev	.0058193	.7986	.06665	.32165	.0013763	.000765
%RSD	1.828738	.4806961	.4413720	.7302805	.5622798	517.1944
#1	.3161030	165.6567	15.06827	43.68071	.2432552	.000275
#2	.3137405	165.7044	15.05717	44.28874	.2451050	.000312
#3	.3247911	167.0632	15.17777	44.16670	.2459453	-.001031

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.955210	.2156122	2.033248	11.73756	F 13.42522	.6703748
Stddev	.010205	.0129044	.007123	.13004	.02840	.0010046
%RSD	.3453368	5.985012	.3503327	1.107906	.2115134	.1498493
#1	2.943467	.2031464	2.041456	11.62361	13.39368	.6713715
#2	2.960233	.2147756	2.029603	11.70985	13.43322	.6693626
#3	2.961931	.2289145	2.028685	11.87923	13.44876	.6703904

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-01 Acquired: 12/29/2024 11:25:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177113	6.477408	11.22452	.3329507	1.079430	.1532464
Stddev	.0006184	.015526	.05646	.0031764	.007337	.0007376
%RSD	3.491719	.2396995	.5030252	.9540209	.6796741	.4812964
#1	.0174938	6.460134	11.16102	.3316167	1.077672	.1524108
#2	.0184091	6.490203	11.24346	.3306588	1.073131	.1538066
#3	.0172310	6.481885	11.26907	.3365765	1.087485	.1535219

Elem	Li6707
Units	ppm
Avg	.1091954
Stddev	.0039229
%RSD	3.592500
#1	.1052427
#2	.1092559
#3	.1130877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2428.390	30591.19	2330.841	1557.277	1787.327
Stddev	6.749	66.29	7.007	4.132	2.295
%RSD	.2779121	.2167114	.3006311	.2653631	.1284149
#1	2421.222	30516.20	2338.870	1552.737	1784.687
#2	2434.621	30615.38	2325.955	1558.277	1788.852
#3	2429.327	30642.00	2327.699	1560.818	1788.442

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-02 Acquired: 12/29/2024 11:29:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864996	-.033330	1.534099	.0607841	.0108774	77.71659
Stddev	.0032487	.005221	.004974	.0080100	.0042628	3.93124
%RSD	1.741936	15.66368	.3242072	13.17773	39.18966	5.058430
#1	.1877351	-.027344	1.528497	.0515359	.0060968	73.20615
#2	.1828144	-.036939	1.535806	.0652979	.0142831	79.52848
#3	.1889492	-.035708	1.537995	.0655186	.0122523	80.41516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.269556	.0143513	.0072608	152.5645	.1181898	.0787011
Stddev	.064683	.0006109	.0001694	7.6633	.0004127	.0037864
%RSD	5.094942	4.257023	2.332877	5.022996	.3491956	4.811090
#1	1.195461	.0136463	.0074060	143.7497	.1184550	.0830498
#2	1.298460	.0147270	.0070747	156.2997	.1184000	.0769185
#3	1.314748	.0146805	.0073017	157.6439	.1177143	.0761351

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2893934	148.1109	8.680454	34.69560	.2411300	-.001923
Stddev	.0104204	7.8587	.459014	1.80258	.0010136	.001447
%RSD	3.600769	5.305953	5.287899	5.195419	.4203638	75.25453
#1	.2774656	139.1341	8.157733	32.65278	.2403914	-.003542
#2	.2967287	151.4501	8.865879	35.37138	.2407129	-.001469
#3	.2939858	153.7486	9.017748	36.06264	.2422856	-.000757

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.162136	.2023782	1.307258	10.03361	F 11.76293	.1246135
Stddev	.035725	.0107062	.007533	.67518	.03037	.0078775
%RSD	3.074117	5.290213	.5762089	6.729153	.2581512	6.321557
#1	1.122312	.1908968	1.311667	9.27019	11.73153	.1155452
#2	1.172731	.2041493	1.311546	10.27837	11.76512	.1285319
#3	1.191366	.2120884	1.298560	10.55227	11.79215	.1297634

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-02 Acquired: 12/29/2024 11:29:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162510	5.800143	10.77796	.0688187	1.007999	.2480618
Stddev	.0002591	.008623	.43492	.0014749	.054596	.0115096
%RSD	1.594321	.1486699	4.035260	2.143223	5.416293	4.639830
#1	.0160384	5.794270	10.28969	.0676149	.945407	.2347782
#2	.0161751	5.796116	10.92039	.0704640	1.032783	.2543383
#3	.0165396	5.810043	11.12381	.0683773	1.045808	.2550687

Elem	Li6707
Units	ppm
Avg	.1113753
Stddev	.0089385
%RSD	8.025599
#1	.1016472
#2	.1132526
#3	.1192261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2478.204	31306.82	2454.157	1585.681	1795.052
Stddev	4.543	73.00	108.497	1.843	2.020
%RSD	.1833000	.2331731	4.420937	.1162135	.1125284
#1	2483.376	31299.95	2572.739	1587.640	1796.468
#2	2476.376	31383.01	2429.869	1585.421	1795.948
#3	2474.860	31237.49	2359.863	1583.982	1792.739

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03 Acquired: 12/29/2024 11:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2105207	-.033601	1.204795	.0520813	.0079584	90.78683	1.412850
Stddev	.0022034	.005156	.003731	.0012584	.0013902	.65009	.012172
%RSD	1.046643	15.34441	.3096880	2.416209	17.46854	.7160611	.8615050
#1	.2084005	-.037687	1.201330	.0531429	.0083718	91.51838	1.426500
#2	.2103629	-.035307	1.204309	.0524098	.0064084	90.56679	1.408925
#3	.2127988	-.027808	1.208745	.0506912	.0090950	90.27532	1.403125

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142404	.0068829	190.5964	.1353175	.1189999	.3739672	136.8034
Stddev	.0002176	.0001011	1.3870	.0005300	.0005049	.0001922	1.0528
%RSD	1.527939	1.468137	.7277117	.3916741	.4243112	.0513921	.7695751
#1	.0143711	.0069056	192.1405	.1350458	.1185138	.3741745	137.9760
#2	.0143609	.0067724	190.1926	.1349785	.1195218	.3737949	136.4948
#3	.0139892	.0069706	189.4562	.1359283	.1189642	.3739323	135.9394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.846277	43.93638	.2656636	-.001569	1.399858	.2777803	1.590070
Stddev	.035087	.36781	.0006765	.000485	.009848	.0066963	.004349
%RSD	.7239981	.8371346	.2546591	30.92909	.7035072	2.410636	.2734836
#1	4.881521	44.31861	.2657258	-.001030	1.400601	.2764180	1.588141
#2	4.845959	43.90559	.2649582	-.001972	1.389660	.2718699	1.587019
#3	4.811350	43.58493	.2663070	-.001704	1.409314	.2850529	1.595049

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22673	7.032493	.0982358	.0232429	3.679496	10.89159	.0617037
Stddev	.05111	.016250	.0026370	.0002245	.013270	.06497	.0013016
%RSD	.4997549	.2310669	2.684382	.9659098	.3606448	.5964785	2.109448
#1	10.22229	7.020246	.1010898	.0230340	3.667563	10.95941	.0629057
#2	10.27992	7.026305	.0958896	.0234803	3.677139	10.88544	.0618841
#3	10.17799	7.050927	.0977279	.0232145	3.693787	10.82992	.0603213

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-03 Acquired: 12/29/2024 11:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8262022	.3314309	.2207476
Stddev	.0052853	.0024245	.0056196
%RSD	.6397154	.7315244	2.545706
#1	.8322347	.3341329	.2269328
#2	.8239867	.3307147	.2159559
#3	.8223851	.3294453	.2193542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2398.550	30259.52	2333.874	1533.077	1771.092
Stddev	6.757	97.77	24.020	7.414	5.720
%RSD	.2817287	.3231031	1.029184	.4836256	.3229629
#1	2398.130	30289.58	2310.672	1530.751	1769.309
#2	2405.508	30150.24	2332.314	1527.104	1777.491
#3	2392.013	30338.72	2358.635	1541.376	1766.475

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-04 Acquired: 12/29/2024 11:36:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2041845	-.034741	1.191097	.0500619	.0125979	89.74890	1.399241
Stddev	.0100323	.000968	.002437	.0013554	.0035165	.11035	.003002
%RSD	4.913346	2.787452	.2045736	2.707471	27.91363	.1229594	.2145733
#1	.2053656	-.033999	1.189745	.0485577	.0154550	89.85912	1.397490
#2	.2135740	-.034387	1.193910	.0504396	.0136681	89.63841	1.397526
#3	.1936140	-.035837	1.189637	.0511885	.0086706	89.74916	1.402708

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143545	.0069216	188.2120	.1346314	.1184400	.3595652	134.8717
Stddev	.0001034	.0000448	.7719	.0000708	.0001964	.0151714	.3952
%RSD	.7202830	.6475805	.4101341	.0525975	.1658537	4.219363	.2929876
#1	.0144647	.0069717	189.0749	.1346123	.1186465	.3441337	135.0794
#2	.0142596	.0068854	187.5870	.1347097	.1184178	.3600994	134.4160
#3	.0143391	.0069076	187.9742	.1345720	.1182555	.3744623	135.1196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.781420	43.26953	.2644160	-.001049	1.429844	.2707441	1.591287
Stddev	.011757	.13311	.0006931	.000781	.012640	.0012958	.009991
%RSD	.2458827	.3076205	.2621204	74.47210	.8839800	.4786149	.6278362
#1	4.790240	43.21502	.2644478	-.000267	1.440266	.2695745	1.589586
#2	4.768073	43.17234	.2650926	-.001830	1.433482	.2705207	1.602019
#3	4.785948	43.42124	.2637075	-.001051	1.415785	.2721371	1.582256

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04544	6.994756	.0953741	.0232887	3.667507	11.09258	.0611440
Stddev	.06138	.015465	.0015332	.0008258	.010578	.10082	.0013514
%RSD	.6110684	.2210907	1.607601	3.545955	.2884149	.9089357	2.210259
#1	10.03087	7.012603	.0971383	.0236617	3.679105	11.20542	.0624249
#2	9.99266	6.986340	.0946204	.0238622	3.665025	11.06098	.0612755
#3	10.11280	6.985324	.0943636	.0223422	3.658392	11.01134	.0597317

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-04 Acquired: 12/29/2024 11:36:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8217319	.3273453	.2205885
Stddev	.0036740	.0022595	.0022922
%RSD	.4471093	.6902546	1.039119
#1	.8174979	.3296867	.2205783
#2	.8240809	.3271716	.2183015
#3	.8236168	.3251776	.2228858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.513	30365.51	2297.902	1532.231	1789.630
Stddev	.417	66.02	16.279	5.637	3.073
%RSD	.0172296	.2174177	.7084332	.3679147	.1716950
#1	2421.986	30425.05	2279.121	1537.460	1790.289
#2	2421.198	30376.97	2307.975	1526.259	1786.281
#3	2421.355	30294.51	2306.610	1532.975	1792.320

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03LX5 Acquired: 12/29/2024 11:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0396153	.0037532	.2425032	.0010519	-.007270	20.65230	.3208060
Stddev	.0077308	.0016945	.0016763	.0023385	.001932	.05216	.0000261
%RSD	19.51458	45.14822	.6912323	222.3183	26.57506	.2525515	.0081330
#1	.0458452	.0018139	.2438004	.0033193	-.005243	20.62456	.3208353
#2	.0309636	.0049477	.2430986	-.001352	-.009091	20.71246	.3207852
#3	.0420372	.0044981	.2406105	.001188	-.007477	20.61987	.3207975

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032718	.0013322	43.63623	.0311115	.0388662	.0740074	31.41400
Stddev	.0002196	.0000290	.13559	.0004020	.0002756	.0057339	.04904
%RSD	6.710209	2.176545	.3107317	1.292101	.7091948	7.747703	.1560953
#1	.0031680	.0013179	43.79001	.0307399	.0390621	.0726440	31.43810
#2	.0031235	.0013655	43.53383	.0310564	.0389856	.0803001	31.35757
#3	.0035240	.0013130	43.58487	.0315382	.0385510	.0690782	31.44631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.111819	10.06541	.0525960	-.001157	.3081974	.0516559	.3705992
Stddev	.003574	.05324	.0005850	.000541	.0345606	.0043051	.0012092
%RSD	.3214893	.5289533	1.112277	46.76903	11.21377	8.334146	.3262776
#1	1.111824	10.12685	.0523268	-.001566	.2846352	.0521627	.3697028
#2	1.115390	10.03663	.0521940	-.000543	.3478720	.0556852	.3701204
#3	1.108241	10.03276	.0532671	-.001360	.2920851	.0471199	.3719745

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.203412	1.402539	.0200583	.0062128	.7482006	2.739633	.0124196
Stddev	.013611	.002119	.0013809	.0001844	.0022884	.010500	.0014349
%RSD	.6177219	.1510700	6.884217	2.968381	.3058533	.3832735	11.55307
#1	2.219128	1.402147	.0216127	.0060466	.7485639	2.750530	.0108281
#2	2.195590	1.400644	.0195888	.0064112	.7457523	2.738787	.0136141
#3	2.195517	1.404827	.0189735	.0061805	.7502856	2.729581	.0128167

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03LX5 Acquired: 12/29/2024 11:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2076602	.0743667	.0481129
Stddev	.0021907	.0006185	.0062222
%RSD	1.054940	.8316888	12.93256
#1	.2051703	.0750351	.0409889
#2	.2085185	.0738145	.0508671
#3	.2092917	.0742506	.0524827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2145.750	27142.63	2014.945	1371.587	1851.443
Stddev	4.281	38.65	4.293	1.958	4.126
%RSD	.1995248	.1423970	.2130688	.1427872	.2228502
#1	2147.208	27138.04	2010.278	1372.730	1853.899
#2	2140.930	27183.37	2018.727	1372.706	1846.680
#3	2149.111	27106.48	2015.831	1369.326	1853.751

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-05 Acquired: 12/29/2024 11:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2909902	.0433645	1.207172	.2100527	.1782434	92.14099	4.896455
Stddev	.0020503	.0054247	.004840	.0030079	.0046810	.28232	.016424
%RSD	.7045981	12.50952	.4009360	1.431957	2.626162	.3063962	.3354301
#1	.2933214	.0490185	1.212726	.2067602	.1738457	91.95379	4.888442
#2	.2894668	.0382026	1.203860	.2107417	.1777206	92.00346	4.885575
#3	.2901825	.0428724	1.204929	.2126563	.1831638	92.46572	4.915347

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1007091	.1048927	185.7323	.4961008	1.120336	.7657150	134.5510
Stddev	.0004501	.0002959	.7855	.0011103	.001580	.0083259	.4710
%RSD	.4468978	.2820900	.4229142	.2238078	.1409875	1.087340	.3500732
#1	.1007903	.1045805	185.2150	.4961961	1.120789	.7566350	134.2280
#2	.1002240	.1051691	185.3458	.4971603	1.121640	.7675189	134.3336
#3	.1011131	.1049284	186.6362	.4949459	1.118580	.7729911	135.0915

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.576279	42.67636	1.261334	.0628741	1.418721	1.155685	2.386343
Stddev	.022137	.19690	.001588	.0009024	.041678	.013957	.004100
%RSD	.3969876	.4613862	.1259221	1.435264	2.937689	1.207687	.1718116
#1	5.562737	42.46328	1.262369	.0621500	1.438136	1.162017	2.382688
#2	5.564275	42.71419	1.262128	.0638851	1.370878	1.139684	2.390777
#3	5.601826	42.85159	1.259506	.0625872	1.447149	1.165354	2.385566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.901121	6.854917	.0893535	.0229302	3.550027	10.86151	.0599425
Stddev	.097054	.011883	.0029697	.0005397	.013342	.02510	.0016371
%RSD	.9802364	.1733468	3.323560	2.353759	.3758339	.2310644	2.731164
#1	9.791627	6.868637	.0920388	.0224981	3.564793	10.85325	.0597981
#2	9.976552	6.847896	.0861640	.0227572	3.546454	10.84159	.0583824
#3	9.935184	6.848218	.0898576	.0235352	3.538836	10.88970	.0616471

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-05 Acquired: 12/29/2024 11:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8175352	.3216274	.2184017
Stddev	.0067762	.0019652	.0036824
%RSD	.8288585	.6110159	1.686055
#1	.8191198	.3199448	.2151537
#2	.8101071	.3211502	.2224022
#3	.8233787	.3237873	.2176492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2374.513	30114.27	2306.263	1520.079	1764.127
Stddev	3.449	93.75	.539	4.452	3.191
%RSD	.1452550	.3113088	.0233857	.2928697	.1808773
#1	2373.301	30123.34	2306.271	1523.120	1760.443
#2	2378.405	30016.32	2306.799	1514.969	1765.909
#3	2371.834	30203.15	2305.720	1522.147	1766.028

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-06 Acquired: 12/29/2024 11:48:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1506460	-.030701	.7489585	.0770290	.0143253	72.42220
Stddev	.0019269	.002943	.0028452	.0094028	.0048466	1.11345
%RSD	1.279114	9.584799	.3798831	12.20677	33.83221	1.537438
#1	.1503742	-.033838	.7517818	.0747842	.0193299	72.81792
#2	.1488693	-.028002	.7490016	.0689518	.0139920	71.16494
#3	.1526944	-.030264	.7460920	.0873510	.0096540	73.28374

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9493367	.0130226	.0086716	481.7246	.1146936	.0984510
Stddev	.0150473	.0002529	.0001664	8.6168	.0009225	.0002155
%RSD	1.585037	1.942244	1.919169	1.788732	.8042786	.2188697
#1	.9565152	.0132454	.0086341	485.8122	.1144479	.0985714
#2	.9320444	.0127477	.0088536	471.8247	.1157140	.0985794
#3	.9594505	.0130747	.0085271	487.5368	.1139188	.0982022

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2856382	181.8383	13.40137	78.10754	.1985743	-.001244
Stddev	.0112424	3.4139	.21261	1.41057	.0003062	.000321
%RSD	3.935889	1.877453	1.586455	1.805940	.1541892	25.84073
#1	.2886133	183.0040	13.46478	78.22133	.1982258	-.001477
#2	.2732075	177.9942	13.16427	76.64352	.1986971	-.000877
#3	.2950939	184.5168	13.57506	79.45777	.1988000	-.001378

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7332545	.1701956	1.511773	9.212932	F 11.72969	.1077072
Stddev	.0183365	.0062454	.011234	.256645	.01362	.0044972
%RSD	2.500706	3.669520	.7431035	2.785707	.1161085	4.175399
#1	.7464003	.1633698	1.504576	9.386948	11.73323	.1089124
#2	.7410557	.1756237	1.524718	8.918185	11.71464	.1027301
#3	.7123073	.1715933	1.506026	9.333663	11.74118	.1114789

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-06 Acquired: 12/29/2024 11:48:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101899	2.464003	10.71233	.0674189	.7708068	.2502141
Stddev	.0003230	.006164	.12045	.0019533	.0129888	.0046643
%RSD	3.169529	.2501784	1.124442	2.897298	1.685094	1.864113
#1	.0103596	2.460123	10.74829	.0663361	.7726979	.2531426
#2	.0103926	2.460775	10.57799	.0696739	.7569761	.2448353
#3	.0098174	2.471111	10.81070	.0662468	.7827464	.2526643

Elem	Li6707
Units	ppm
Avg	.1148092
Stddev	.0022416
%RSD	1.952467
#1	.1167448
#2	.1123531
#3	.1153295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.628	32552.05	2491.136	1636.760	1644.718
Stddev	7.786	83.01	20.473	14.245	4.101
%RSD	.3046472	.2550066	.8218509	.8702973	.2493569
#1	2555.321	32538.76	2481.297	1640.613	1644.890
#2	2563.563	32476.48	2514.672	1620.985	1648.731
#3	2548.000	32640.90	2477.440	1648.682	1640.534

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-07 Acquired: 12/29/2024 11:52:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1399053	-.039014	1.550787	.0964781	.0229710	81.88201	1.266834
Stddev	.0057876	.004590	.009284	.0060588	.0022164	.22857	.002990
%RSD	4.136805	11.76533	.5986339	6.279961	9.648520	.2791469	.2360535
#1	.1350883	-.036718	1.540116	.1022392	.0205727	81.96122	1.270008
#2	.1463255	-.044299	1.555245	.0901601	.0249437	82.06044	1.266425
#3	.1383021	-.036026	1.557002	.0970352	.0233967	81.62437	1.264069

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136341	.0074770	197.1699	.1954228	.0914578	.2338865	194.8979
Stddev	.0002240	.0000890	.3666	.0012136	.0018669	.0111977	.3127
%RSD	1.642678	1.189790	.1859291	.6209956	2.041284	4.787645	.1604584
#1	.0136606	.0073753	197.2824	.1965734	.0893369	.2223685	195.0699
#2	.0133981	.0075400	197.4670	.1941548	.0921840	.2345574	195.0868
#3	.0138437	.0075158	196.7602	.1955400	.0928525	.2447336	194.5369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.79117	42.28712	.2239713	-.000550	.4559079	.1792324	.8556506
Stddev	.03472	.35762	.0004739	.000131	.0096766	.0030662	.0056965
%RSD	.2198456	.8457011	.2115878	23.84139	2.122491	1.710712	.6657499
#1	15.81838	42.40207	.2234712	-.000568	.4468270	.1808472	.8584598
#2	15.80306	42.57313	.2240291	-.000671	.4660866	.1811537	.8490951
#3	15.75207	41.88616	.2244137	-.000411	.4548101	.1756964	.8593968

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.656791	7.651388	.0972083	.0089956	2.089981	11.05976	.0427431
Stddev	.005789	.033585	.0016159	.0000788	.011271	.02678	.0019756
%RSD	.0668727	.4389362	1.662337	.8764438	.5392690	.2421283	4.622102
#1	8.659120	7.614246	.0989745	.0090857	2.077124	11.08590	.0436382
#2	8.650200	7.660303	.0958039	.0089614	2.094659	11.06099	.0404783
#3	8.661053	7.679616	.0968466	.0089396	2.098159	11.03239	.0441127

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-07 Acquired: 12/29/2024 11:52:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7047171	.0870721	.0794033
Stddev	.0037346	.0003663	.0047643
%RSD	.5299381	.4206651	6.000070
#1	.7038888	.0872035	.0742970
#2	.7014662	.0866583	.0801838
#3	.7087963	.0873546	.0837291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.220	33309.62	2521.388	1673.944	1754.134
Stddev	7.877	152.54	7.600	5.437	6.580
%RSD	.2992546	.4579317	.3014066	.3248112	.3751176
#1	2637.637	33446.29	2519.063	1680.024	1760.421
#2	2635.840	33145.07	2515.221	1672.259	1754.684
#3	2623.184	33337.50	2529.878	1669.548	1747.296

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-08 Acquired: 12/29/2024 11:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1085371	-.051557	.3322985	.0989145	.0245282	76.73336	.8309117
Stddev	.0047974	.001750	.0029239	.0060239	.0024778	.88492	.0104337
%RSD	4.420014	3.393382	.8799086	6.090036	10.10186	1.153237	1.255694
#1	.1138520	-.053050	.3303457	.0922470	.0255765	75.86790	.8199012
#2	.1045274	-.051989	.3308897	.1005319	.0263096	77.63653	.8406523
#3	.1072319	-.049632	.3356601	.1039646	.0216986	76.69565	.8321817

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121202	.0051332	58.26791	.1001898	.0680909	.1620809	172.5502
Stddev	.0002791	.0001901	.60170	.0013117	.0011463	.0018453	2.2855
%RSD	2.302717	3.703054	1.032638	1.309219	1.683449	1.138535	1.324518
#1	.0118086	.0052043	57.73490	.1000081	.0675988	.1630042	170.3390
#2	.0123471	.0049178	58.92038	.0989784	.0672729	.1632823	174.9033
#3	.0122050	.0052775	58.14845	.1015829	.0694011	.1599561	172.4081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.95483	21.50061	.1296703	-.000555	.3150998	.1748555	.4954004
Stddev	.19224	.16799	.0011943	.000705	.0128561	.0088777	.0036835
%RSD	1.285463	.7813096	.9209872	127.0995	4.080013	5.077147	.7435356
#1	14.77118	21.31943	.1294212	.000201	.3144061	.1850414	.4926784
#2	15.15463	21.65120	.1286203	-.001196	.3026046	.1687632	.4995918
#3	14.93866	21.53120	.1309695	-.000669	.3282887	.1707619	.4939309

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.102462	4.727131	.0846772	.0068857	1.391493	11.60939	.0256170
Stddev	.095003	.013332	.0022015	.0008195	.007551	.13423	.0012035
%RSD	1.861899	.2820259	2.599910	11.90092	.5426232	1.156187	4.698006
#1	5.015357	4.716965	.0823297	.0078272	1.390522	11.48268	.0254768
#2	5.203764	4.722202	.0866957	.0063334	1.384475	11.75005	.0268845
#3	5.088265	4.742225	.0850062	.0064964	1.399482	11.59544	.0244898

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-08 Acquired: 12/29/2024 11:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7097651	-.030206	.0592102
Stddev	.0074563	.001451	.0027075
%RSD	1.050525	4.804957	4.572625
#1	.7034827	-.028678	.0606433
#2	.7180047	-.031566	.0608998
#3	.7078077	-.030374	.0560874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2469.130	31291.28	2388.484	1582.570	1850.118
Stddev	3.598	149.28	28.376	10.625	3.617
%RSD	.1457123	.4770666	1.188020	.6713718	.1954969
#1	2472.212	31212.94	2408.028	1584.758	1853.904
#2	2470.000	31197.47	2355.937	1571.022	1849.752
#3	2465.176	31463.42	2401.487	1591.931	1846.698

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-09 Acquired: 12/29/2024 12:00:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783106	-.046687	.2820330	.0841770	.0189688	63.18860	.8230266
Stddev	.0043245	.004358	.0030026	.0060494	.0022048	.29823	.0042815
%RSD	5.522277	9.334971	1.064629	7.186548	11.62332	.4719753	.5202084
#1	.0786049	-.047024	.2789914	.0836356	.0189275	62.84860	.8181124
#2	.0738465	-.042170	.2821126	.0904790	.0211940	63.31124	.8250158
#3	.0824805	-.050866	.2849950	.0784165	.0167849	63.40597	.8259516

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107361	.0049343	58.85921	.0992838	.0551668	.1177367	159.1171
Stddev	.0001850	.0000905	.09987	.0010674	.0002564	.0099141	.5644
%RSD	1.723003	1.833223	.1696706	1.075066	.4647863	8.420552	.3546949
#1	.0105639	.0048838	58.75494	.1003526	.0549607	.1130373	158.6166
#2	.0107127	.0048804	58.95400	.0982178	.0554539	.1291267	159.0060
#3	.0109317	.0050388	58.86871	.0992810	.0550858	.1110462	159.7288

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.67892	15.97016	.1018087	-.000978	.3438307	.1597800	.4435554
Stddev	.03849	.05390	.0006077	.001392	.0430375	.0076624	.0016902
%RSD	.2813616	.3375209	.5969033	142.3555	12.51707	4.795620	.3810536
#1	13.63509	16.01064	.1019860	-.001393	.3786916	.1636482	.4416411
#2	13.69447	15.99085	.1011320	.000574	.2957283	.1509545	.4441836
#3	13.70720	15.90897	.1023080	-.002115	.3570721	.1647372	.4448416

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.476813	8.141818	.0827563	.0086395	1.286628	10.89814	.0251230
Stddev	.086391	.012430	.0014595	.0004048	.003589	.00769	.0003413
%RSD	2.484785	.1526744	1.763661	4.685660	.2789130	.0705738	1.358474
#1	3.453647	8.137017	.0844122	.0082383	1.290080	10.89207	.0251687
#2	3.404366	8.132504	.0816567	.0086322	1.282917	10.90679	.0247612
#3	3.572425	8.155933	.0821999	.0090479	1.286887	10.89555	.0254392

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-09 Acquired: 12/29/2024 12:00:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8158000	-.021780	.0442469
Stddev	.0060012	.000612	.0011987
%RSD	.7356262	2.811657	2.709055
#1	.8088770	-.021683	.0443917
#2	.8195236	-.021222	.0429824
#3	.8189994	-.022435	.0453666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.933	31434.21	2390.203	1596.021	1844.354
Stddev	4.137	45.07	2.801	9.810	3.275
%RSD	.1666879	.1433859	.1171926	.6146615	.1775942
#1	2486.681	31426.94	2388.252	1598.708	1846.931
#2	2479.103	31482.48	2393.413	1604.208	1845.463
#3	2480.016	31393.22	2388.945	1585.148	1840.668

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-10 Acquired: 12/29/2024 12:04:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1356070	-.041126	2.009774	.0758896	.0148933	69.97983
Stddev	.0047041	.002819	.004340	.0016949	.0049491	1.14955
%RSD	3.468944	6.853879	.2159289	2.233426	33.23008	1.642684
#1	.1364686	-.044377	2.005182	.0777305	.0166081	70.36492
#2	.1305316	-.039356	2.010334	.0755447	.0093149	68.68718
#3	.1398207	-.039646	2.013807	.0743936	.0187569	70.88739

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.612992	.0125466	.0093784	102.5768	.1386867	.0605495
Stddev	.029241	.0000763	.0000389	1.7090	.0009636	.0006172
%RSD	1.812831	.6081813	.4143278	1.666066	.6948052	1.019330
#1	1.626660	.0124910	.0093390	103.5528	.1381332	.0607594
#2	1.579420	.0125152	.0094166	100.6035	.1381276	.0610344
#3	1.632896	.0126336	.0093796	103.5742	.1397994	.0598547

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3545577	152.9395	7.940535	32.63469	.2321507	-.000157
Stddev	.0112460	2.7859	.126480	.53694	.0004438	.001184
%RSD	3.171836	1.821571	1.592842	1.645290	.1911863	755.0247
#1	.3579724	154.2618	7.998844	32.94091	.2325906	.000307
#2	.3420001	149.7387	7.795418	32.01470	.2317030	-.001502
#3	.3637006	154.8180	8.027342	32.94845	.2321586	.000725

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4883876	.1890152	2.029590	8.708387	F 16.69263	.1048719
Stddev	.0240571	.0073100	.006186	.232824	.05033	.0029434
%RSD	4.925812	3.867435	.3047739	2.673556	.3015175	2.806677
#1	.5156372	.1906299	2.036305	8.946290	16.66191	.1046483
#2	.4700898	.1810328	2.024124	8.480999	16.66526	.1020467
#3	.4794359	.1953828	2.028342	8.697873	16.75071	.1079208

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-10 Acquired: 12/29/2024 12:04:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105792	5.356806	10.50782	.1223048	.9865862	.1170030
Stddev	.0007032	.015617	.06767	.0015312	.0142074	.0027316
%RSD	6.647193	.2915328	.6439816	1.251913	1.440061	2.334602
#1	.0105519	5.347874	10.55568	.1217188	.9911989	.1186685
#2	.0098900	5.347706	10.43040	.1211531	.9706455	.1138506
#3	.0112957	5.374839	10.53739	.1240424	.9979141	.1184899

Elem	Li6707
Units	ppm
Avg	.1001253
Stddev	.0034624
%RSD	3.458098
#1	.0993228
#2	.0971346
#3	.1039185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2536.370	32256.03	2441.518	1624.310	1811.219
Stddev	5.855	139.49	20.338	8.419	5.130
%RSD	.2308443	.4324524	.8330001	.5183194	.2832166
#1	2541.892	32271.59	2434.089	1623.778	1816.721
#2	2530.231	32387.09	2464.526	1632.982	1806.568
#3	2536.988	32109.41	2425.940	1616.169	1810.369

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-11 Acquired: 12/29/2024 12:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2208109	-.051942	2.200420	.0943984	.0213237	81.49054
Stddev	.0055251	.006386	.003393	.0066766	.0016115	.33160
%RSD	2.502190	12.29396	.1541975	7.072832	7.557491	.4069139
#1	.2231831	-.048853	2.204196	.0942412	.0197088	81.87129
#2	.2144958	-.047688	2.199436	.0878018	.0229318	81.33516
#3	.2247537	-.059285	2.197628	.1011523	.0213304	81.26516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.835196	.0147350	.0098110	132.7356	.1394305	.0701949
Stddev	.010173	.0002263	.0000427	.7576	.0006787	.0004804
%RSD	.5543038	1.535834	.4353604	.5707892	.4867989	.6843942
#1	1.846648	.0148500	.0098074	133.5474	.1402125	.0698251
#2	1.827207	.0148807	.0098555	132.6121	.1389947	.0707379
#3	1.831733	.0144743	.0097703	132.0472	.1390843	.0700217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4444893	184.9330	11.24992	32.63292	.2375076	.0006993
Stddev	.0043726	.9437	.05686	.22296	.0009058	.0011630
%RSD	.9837272	.5102789	.5054306	.6832509	.3813773	166.2977
#1	.4489375	185.9998	11.31413	32.87559	.2377356	.0019076
#2	.4401965	184.2072	11.22966	32.43711	.2365096	-.000412
#3	.4443339	184.5921	11.20596	32.58606	.2382777	.000603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7475362	.2666485	1.344976	7.745261	F 17.01683	.1093186
Stddev	.0493905	.0020569	.008048	.088465	.03183	.0015070
%RSD	6.607103	.7713766	.5983611	1.142179	.1870452	1.378533
#1	.7837501	.2676071	1.336197	7.801672	16.99545	.1101614
#2	.7675846	.2680510	1.346727	7.790809	17.05341	.1075787
#3	.6912738	.2642873	1.352004	7.643304	17.00162	.1102155

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-11 Acquired: 12/29/2024 12:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103132	4.002423	11.02966	.1509072	.9497779	.2045503
Stddev	.0009017	.000780	.05538	.0039746	.0035997	.0006730
%RSD	8.742931	.0194886	.5020833	2.633833	.3790025	.3290228
#1	.0107023	4.002232	11.09063	.1470118	.9477215	.2050151
#2	.0109551	4.001756	11.01587	.1549566	.9539344	.2048572
#3	.0092824	4.003281	10.98248	.1507532	.9476779	.2037785

Elem	Li6707
Units	ppm
Avg	.1348568
Stddev	.0019806
%RSD	1.468670
#1	.1371382
#2	.1338544
#3	.1335778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.929	32963.90	2502.931	1663.587	1824.487
Stddev	6.130	81.17	14.765	1.838	3.361
%RSD	.2346951	.2462408	.5899225	.1105088	.1841960
#1	2605.831	32870.22	2485.949	1664.859	1820.872
#2	2618.091	33008.00	2510.109	1664.423	1827.515
#3	2611.866	33013.46	2512.734	1661.479	1825.074

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV040 Acquired: 12/29/2024 12:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV040 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.017978	4.741310	24.44424	5.066486	4.999728	410.4564	10.22416
Stddev	.021263	.010338	.05573	.012093	.012720	2.1022	.05333
%RSD	.4237427	.2180497	.2279698	.2386918	.2544091	.5121497	.5216283
#1	4.994864	4.745690	24.49635	5.079336	4.986186	408.6241	10.18848
#2	5.022363	4.729502	24.38549	5.064794	5.001574	409.9937	10.19853
#3	5.036707	4.748737	24.45089	5.055327	5.011424	412.7513	10.28547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5191936	2.466421	403.3511	15.19199	2.382794	14.79323	406.6497
Stddev	.0032923	.003727	1.4876	.04785	.005850	.05185	2.1928
%RSD	.6341220	.1510991	.3688163	.3149483	.2455055	.3505036	.5392261
#1	.5158199	2.470464	402.3520	15.16619	2.389427	14.74572	404.9235
#2	.5223980	2.463122	402.6405	15.24720	2.378371	14.78543	405.9087
#3	.5193628	2.465678	405.0607	15.16257	2.380585	14.84854	409.1170

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.65055	401.8042	2.483706	1.258430	422.2192	2.472441	14.93592
Stddev	.05505	1.6691	.003482	.006846	4.6535	.007653	.10504
%RSD	.3757724	.4154005	.1401813	.5439904	1.102143	.3095206	.7032875
#1	14.61476	400.7499	2.487708	1.253640	424.0913	2.463616	14.92657
#2	14.62296	400.9341	2.481379	1.266271	416.9213	2.476463	15.04533
#3	14.71395	403.7286	2.482030	1.255380	425.6451	2.477243	14.83587

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.9298	4.955085	5.049592	4.974813	5.005398	4.911621	4.944573
Stddev	.6521	.003986	.030792	.006898	.017443	.026935	.012071
%RSD	.4320489	.0804437	.6097944	.1386615	.3484835	.5484019	.2441333
#1	150.3215	4.959079	5.014346	4.970503	5.017267	4.886936	4.954764
#2	150.8497	4.951107	5.071267	4.971166	4.985371	4.940349	4.931242
#3	151.6183	4.955068	5.063165	4.982769	5.013556	4.907578	4.947714

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV040 Acquired: 12/29/2024 12:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV040 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.989205	4.698872	5.192508
Stddev	.025974	.018020	.039395
%RSD	.5205976	.3834926	.7586818
#1	4.966432	4.679896	5.156576
#2	4.983689	4.700965	5.186315
#3	5.017494	4.715753	5.234632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.058	23650.44	1869.792	1140.590	1537.886
Stddev	2.849	18.90	5.814	3.714	4.016
%RSD	.1579319	.0799075	.3109691	.3256192	.2611532
#1	1801.015	23671.94	1876.439	1140.953	1533.368
#2	1804.498	23636.44	1865.650	1136.709	1539.239
#3	1806.662	23642.93	1867.287	1144.110	1541.051

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB040 Acquired: 12/29/2024 12:24:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB040 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005652	.0003731	.0044236	-.001528	.0002508	.0942839
Stddev	.001549	.0020353	.0015731	.004629	.0028090	.0199500
%RSD	27.40924	545.4483	35.56287	303.0079	1120.126	21.15952
#1	-.003863	.0016676	.0059182	-.006645	-.001892	.1017894
#2	-.006546	-.001973	.0045703	-.000304	-.000787	.0716697
#3	-.006547	.001425	.0027822	.002366	.003431	.1093926

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002900	.0001811	.0003207	.0465001	.0017992	.0005077
Stddev	.0006720	.0000889	.0000981	.0454341	.0003589	.0001531
%RSD	231.7344	49.11735	30.57918	97.70759	19.94788	30.15124
#1	-.000280	.0001684	.0002099	.0928782	.0017697	.0004036
#2	.000118	.0000992	.0003962	.0020728	.0021720	.0006835
#3	.001031	.0002757	.0003561	.0445492	.0014560	.0004360

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009646	.0523445	.0018692	-.005832	.0006835	-.000398
Stddev	.006300	.0352522	.0012603	.112774	.0001819	.000161
%RSD	65.31356	67.34654	67.42506	1933.691	26.60959	40.32345
#1	-.002390	.0864954	.0022597	-.075648	.0004907	-.000520
#2	-.013729	.0544525	.0028881	-.066120	.0008519	-.000216
#3	-.012819	.0160856	.0004599	.124272	.0007079	-.000459

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0778930	-.019712	.0029607	-.134630	.0055497	.0137790
Stddev	.0335216	.016198	.0002217	.076402	.0009266	.0029618
%RSD	43.03545	82.17226	7.488282	56.74968	16.69638	21.49528
#1	.1114992	-.012023	.0029129	-.050945	.0045108	.0149023
#2	.0444566	-.038323	.0032024	-.200656	.0058475	.0104198
#3	.0777233	-.008791	.0027668	-.152289	.0062908	.0160147

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCB040 Acquired: 12/29/2024 12:24:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB040 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012940	.0018048	.0030774	.0002450	.0000911	.0008393
Stddev	.0005717	.0013499	.0010730	.0014280	.0013472	.0003890
%RSD	44.18017	74.79184	34.86762	582.9766	1478.217	46.35010
#1	.0016952	.0028922	.0028455	.0018641	.0008579	.0010242
#2	.0015473	.0022282	.0042474	-.000294	.0008800	.0003923
#3	.0006394	.0002940	.0021393	-.000835	-.001464	.0011013

Elem	Li6707
Units	ppm
Avg	F .0327141
Stddev	.0073782
%RSD	22.55347
#1	.0272610
#2	.0297719
#3	.0411094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2046.745	26006.62	1915.385	1311.553	1850.856
Stddev	1.281	130.63	11.976	7.599	2.691
%RSD	.0625717	.5022876	.6252666	.5793615	.1454090
#1	2045.282	26052.88	1922.458	1318.971	1850.600
#2	2047.287	26107.82	1922.140	1311.902	1848.302
#3	2047.665	25859.16	1901.558	1303.786	1853.666

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-12 Acquired: 12/29/2024 12:28:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2229142	-.050346	1.576592	.0933495	.0162739	71.99741
Stddev	.0062047	.000455	.016514	.0076317	.0016466	1.53945
%RSD	2.783464	.9028531	1.047438	8.175412	10.11780	2.138200
#1	.2296448	-.050746	1.593384	.0891642	.0153818	70.97148
#2	.2174222	-.050440	1.560371	.1021582	.0152660	73.76756
#3	.2216755	-.049852	1.576021	.0887261	.0181740	71.25320

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.634250	.0131783	.0083503	110.0502	.1405146	.0597847
Stddev	.036312	.0002105	.0001416	2.2281	.0007561	.0031906
%RSD	2.221923	1.597715	1.695857	2.024613	.5381139	5.336741
#1	1.614884	.0130005	.0084765	108.7129	.1397969	.0616304
#2	1.676140	.0134108	.0081971	112.6223	.1404429	.0561006
#3	1.611727	.0131237	.0083773	108.8154	.1413041	.0616232

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4763933	180.4047	12.69150	23.72372	.1794629	.0001087
Stddev	.0166729	4.3242	.29029	.52118	.0023176	.0001205
%RSD	3.499827	2.396960	2.287278	2.196868	1.291422	110.7878
#1	.4675572	177.9621	12.49665	23.40150	.1808813	.0000815
#2	.4956245	185.3975	13.02513	24.32501	.1767883	.0000042
#3	.4659981	177.8545	12.55273	23.44464	.1807190	.0002405

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7071274	.2041940	1.075063	7.801339	F 11.68715	.1073815
Stddev	.0116738	.0216603	.008294	.314953	.10919	.0070490
%RSD	1.650873	10.60773	.7715106	4.037163	.9342481	6.564491
#1	.7076427	.1942753	1.070817	7.717861	11.78156	.1043798
#2	.7185351	.2290376	1.069751	8.149621	11.56758	.1154345
#3	.6952046	.1892690	1.084620	7.536535	11.71231	.1023300

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-12 Acquired: 12/29/2024 12:28:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116648	3.003090	11.32518	.4206415	.8102112	.1023988
Stddev	.0006004	.023432	.13790	.0075902	.0209325	.0019297
%RSD	5.147312	.7802612	1.217654	1.804445	2.583588	1.884518
#1	.0112754	3.025428	11.23142	.4255693	.7956103	.1006205
#2	.0113627	2.978699	11.48353	.4119007	.8341934	.1044507
#3	.0123562	3.005142	11.26061	.4244547	.8008299	.1021251

Elem	Li6707
Units	ppm
Avg	.1161115
Stddev	.0005285
%RSD	.4551635
#1	.1163013
#2	.1155143
#3	.1165189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2590.890	32997.86	2462.493	1664.110	1833.882
Stddev	19.111	178.37	29.834	12.293	14.367
%RSD	.7376309	.5405498	1.211551	.7386996	.7834326
#1	2575.005	33087.89	2488.459	1672.506	1821.756
#2	2612.099	33113.28	2429.903	1669.823	1849.750
#3	2585.565	32792.42	2469.116	1650.000	1830.140

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-13 Acquired: 12/29/2024 12:32:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1883002	-.040943	1.017661	.1144745	.0267535	85.04222
Stddev	.0055495	.003819	.005133	.0009584	.0027136	.54597
%RSD	2.947143	9.328643	.5043548	.8372253	10.14311	.6419982
#1	.1836724	-.040259	1.013087	.1155631	.0236705	84.45916
#2	.1944526	-.045058	1.016684	.1141029	.0278100	85.12612
#3	.1867754	-.037512	1.023212	.1137576	.0287799	85.54139

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.010526	.0144119	.0106895	73.27581	.1281373	.0812271
Stddev	.013406	.0001707	.0001554	.29687	.0003384	.0008359
%RSD	.6667753	1.184257	1.453447	.4051368	.2641079	1.029124
#1	1.995894	.0142156	.0105131	72.93628	.1281959	.0803449
#2	2.013466	.0145253	.0108062	73.40472	.1284426	.0820074
#3	2.022217	.0144947	.0107490	73.48643	.1277734	.0813291

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3478879	202.6567	22.29902	26.77846	.1930635	.0015036
Stddev	.0023715	1.4913	.14872	.21578	.0014642	.0006035
%RSD	.6816893	.7358638	.6669271	.8058007	.7584015	40.13820
#1	.3484696	201.0979	22.13458	26.57106	.1914525	.0008180
#2	.3499144	202.8025	22.33838	26.76256	.1943134	.0017381
#3	.3452796	204.0698	22.42409	27.00175	.1934246	.0019547

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4663299	.1907208	.7617234	8.271652	F 10.85481	.1123801
Stddev	.0079304	.0069096	.0029957	.067733	.08182	.0008359
%RSD	1.700591	3.622901	.3932783	.8188520	.7537749	.7437808
#1	.4601366	.1942421	.7611244	8.229903	10.76197	.1115963
#2	.4752680	.1951604	.7649734	8.235252	10.88605	.1122843
#3	.4635850	.1827599	.7590725	8.349802	10.91640	.1132598

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-13 Acquired: 12/29/2024 12:32:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171122	2.674240	11.31797	.1086617	.6111856	-.002182
Stddev	.0004976	.017168	.07767	.0017665	.0029602	.000680
%RSD	2.907840	.6419611	.6862458	1.625649	.4843378	31.16227
#1	.0165390	2.655129	11.23580	.1107006	.6078228	-.001841
#2	.0173652	2.688355	11.39017	.1076932	.6123367	-.001740
#3	.0174325	2.679238	11.32794	.1075914	.6133974	-.002965

Elem	Li6707
Units	ppm
Avg	.1159671
Stddev	.0001855
%RSD	.1599194
#1	.1161745
#2	.1159092
#3	.1158174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2835.866	35737.28	2666.389	1807.860	1830.938
Stddev	2.326	125.70	7.883	2.238	5.377
%RSD	.0820055	.3517352	.2956322	.1237681	.2936658
#1	2838.549	35592.63	2675.462	1806.265	1837.144
#2	2834.624	35799.23	2662.487	1806.898	1827.696
#3	2834.425	35819.97	2661.218	1810.418	1827.973

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-14 Acquired: 12/29/2024 12:36:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1654765	-.044725	.5028190	.1088158	.0245190	80.99432	1.624035
Stddev	.0072152	.005213	.0006998	.0015256	.0047005	.13111	.001587
%RSD	4.360244	11.65668	.1391799	1.401991	19.17090	.1618768	.0977082
#1	.1572001	-.038978	.5020259	.1070748	.0193017	80.96063	1.624352
#2	.1687875	-.046046	.5030815	.1094541	.0258313	81.13899	1.625439
#3	.1704419	-.049151	.5033497	.1099186	.0284238	80.88335	1.622313

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130234	.0095557	50.12590	.1122853	.0694918	.2538386	181.3376
Stddev	.0001351	.0000850	.10515	.0007742	.0005405	.0028393	.0199
%RSD	1.037472	.8897427	.2097753	.6895293	.7777852	1.118542	.0109724
#1	.0131793	.0095406	50.04488	.1120880	.0698245	.2521742	181.3146
#2	.0129411	.0096473	50.24472	.1116288	.0697826	.2571170	181.3492
#3	.0129497	.0094793	50.08809	.1131391	.0688681	.2522246	181.3490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.27685	21.29329	.1782579	.0012532	.5603446	.1692876	.6335748
Stddev	.02207	.17103	.0007614	.0006293	.0121093	.0035586	.0028067
%RSD	.0990867	.8031933	.4271242	50.21685	2.161042	2.102106	.4429975
#1	22.30134	21.49019	.1785404	.0016940	.5521508	.1678311	.6341353
#2	22.27075	21.18177	.1773956	.0005325	.5546292	.1666883	.6305301
#3	22.25847	21.20789	.1788376	.0015331	.5742538	.1733434	.6360590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.074919	9.219823	.1028195	.0173625	2.270185	10.91722	.0620210
Stddev	.039054	.008737	.0011484	.0003416	.010350	.01332	.0011870
%RSD	.5520024	.0947595	1.116949	1.967389	.4559180	.1220002	1.913795
#1	7.079111	9.211856	.1027317	.0176926	2.259595	10.90579	.0606593
#2	7.111707	9.229166	.1017174	.0170104	2.280278	10.91403	.0628367
#3	7.033938	9.218447	.1040093	.0173846	2.270682	10.93185	.0625670

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-14 Acquired: 12/29/2024 12:36:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5250930	-.019387	.0950496
Stddev	.0040841	.000805	.0027479
%RSD	.7777963	4.152552	2.891071
#1	.5222942	-.019757	.0945675
#2	.5297796	-.018463	.0925746
#3	.5232053	-.019941	.0980067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2834.494	35512.94	2700.860	1799.428	1825.208
Stddev	4.265	96.76	7.849	8.303	1.921
%RSD	.1504556	.2724690	.2905979	.4614503	.1052515
#1	2830.725	35449.27	2692.435	1789.841	1823.926
#2	2833.634	35465.26	2707.965	1804.333	1824.280
#3	2839.123	35624.29	2702.181	1804.110	1827.417

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-15 Acquired: 12/29/2024 12:39:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0872317	-.017822	.2505435	.0554820	.0097729	54.47388	1.081400
Stddev	.0059079	.001334	.0012624	.0036141	.0008148	.03191	.001704
%RSD	6.772633	7.482441	.5038484	6.513962	8.337772	.0585877	.1575693
#1	.0940120	-.017455	.2505176	.0594940	.0104094	54.50536	1.081431
#2	.0844927	-.019301	.2518186	.0524813	.0088546	54.44155	1.079681
#3	.0831904	-.016711	.2492943	.0544708	.0100548	54.47473	1.083088

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095186	.0035947	155.1269	.0824498	.0599364	.1481724	137.2677
Stddev	.0001730	.0002124	.2193	.0007891	.0002740	.0059850	.3113
%RSD	1.817106	5.908654	.1413687	.9571240	.4571457	4.039186	.2268132
#1	.0093432	.0033870	155.3753	.0816599	.0602493	.1521752	137.2718
#2	.0096890	.0035857	154.9601	.0832382	.0598201	.1510499	136.9543
#3	.0095235	.0038115	155.0452	.0824512	.0597397	.1412922	137.5769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.854893	48.42146	.1261493	.0000673	.5554256	.1361247	.3717808
Stddev	.007430	.18262	.0006907	.0007170	.0145157	.0031542	.0023923
%RSD	.0753902	.3771562	.5474883	1065.991	2.613444	2.317147	.6434807
#1	9.849871	48.21108	.1269463	.0003647	.5482342	.1360755	.3717122
#2	9.851381	48.51414	.1257261	.0005877	.5721331	.1329954	.3694235
#3	9.863428	48.53917	.1257756	-.000751	.5459095	.1393032	.3742067

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.731612	6.735057	.0810287	.0053199	1.062350	10.10093	.0299975
Stddev	.015747	.007589	.0005728	.0002946	.006023	.06362	.0004836
%RSD	.3327942	.1126726	.7068883	5.537482	.5669180	.6298588	1.611951
#1	4.713824	6.732183	.0804799	.0055712	1.056149	10.13099	.0294753
#2	4.737242	6.729325	.0809834	.0049957	1.062723	10.14394	.0300875
#3	4.743769	6.743662	.0816228	.0053927	1.068177	10.02784	.0304297

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-15 Acquired: 12/29/2024 12:39:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7347183	.0302813	.0665386
Stddev	.0066195	.0004665	.0037204
%RSD	.9009528	1.540415	5.591369
#1	.7280925	.0303618	.0654745
#2	.7347308	.0307022	.0634662
#3	.7413314	.0297798	.0706751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2505.632	31744.33	2416.190	1593.502	1782.319
Stddev	6.575	70.43	13.596	5.372	5.455
%RSD	.2624086	.2218653	.5626874	.3371236	.3060645
#1	2511.767	31678.33	2411.106	1590.102	1787.139
#2	2498.691	31736.17	2405.869	1599.695	1776.397
#3	2506.437	31818.48	2431.595	1590.710	1783.422

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-16 Acquired: 12/29/2024 12:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1067388	-.028978	1.347296	.0644654	.0128059	58.63271
Stddev	.0029954	.006436	.008161	.0024666	.0031520	.18204
%RSD	2.806329	22.21160	.6057674	3.826266	24.61344	.3104671
#1	.1077529	-.025744	1.338392	.0617005	.0149157	58.68121
#2	.1090956	-.036390	1.354422	.0652558	.0143195	58.78559
#3	.1033680	-.024799	1.349074	.0664401	.0091827	58.43134

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.290533	.0107326	.0082643	159.2148	.1480958	.0554935
Stddev	.005793	.0001053	.0000626	.2961	.0008176	.0011544
%RSD	.4488670	.9811336	.7568395	.1859546	.5520524	2.080325
#1	1.294732	.0107627	.0082677	159.3949	.1475851	.0546887
#2	1.292942	.0108196	.0082001	159.3764	.1490388	.0568162
#3	1.283924	.0106156	.0083250	158.8731	.1476636	.0549755

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3051429	143.9264	7.611971	33.79656	.1622576	.0009066
Stddev	.0045181	.3999	.023174	.23449	.0006008	.0010121
%RSD	1.480635	.2778484	.3044450	.6938168	.3702592	111.6412
#1	.3006342	144.0968	7.624842	33.98386	.1620341	.0012271
#2	.3096703	144.2128	7.625852	33.87224	.1629381	-.000227
#3	.3051242	143.4695	7.585218	33.53358	.1618006	.001720

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4472532	.1531866	1.603527	11.48887	F 15.43443	.1076470
Stddev	.0216298	.0107417	.000629	.21239	.08482	.0015750
%RSD	4.836153	7.012163	.0392333	1.848670	.5495380	1.463081
#1	.4714151	.1504422	1.602813	11.52683	15.36786	.1064249
#2	.4406499	.1440833	1.603770	11.26006	15.52993	.1094244
#3	.4296947	.1650342	1.603999	11.67972	15.40551	.1070917

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-16 Acquired: 12/29/2024 12:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087183	4.790827	11.05230	.1262703	.8604264	.1064447
Stddev	.0007156	.017839	.06528	.0018701	.0075712	.0002531
%RSD	8.208653	.3723676	.5906254	1.481028	.8799327	.2377405
#1	.0084582	4.787857	11.12147	.1282015	.8691613	.1064580
#2	.0095276	4.809966	10.99177	.1244680	.8563727	.1061853
#3	.0081691	4.774659	11.04368	.1261415	.8557452	.1066909

Elem	Li6707
Units	ppm
Avg	.0767609
Stddev	.0031321
%RSD	4.080292
#1	.0734479
#2	.0796735
#3	.0771612

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.719	30785.40	2356.889	1556.681	1798.086
Stddev	12.452	158.55	17.296	5.435	11.078
%RSD	.5116614	.5150209	.7338370	.3491403	.6160849
#1	2446.777	30736.36	2337.583	1555.417	1808.997
#2	2421.977	30657.17	2362.114	1551.990	1786.849
#3	2432.401	30962.68	2370.970	1562.637	1798.413

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-17 Acquired: 12/29/2024 12:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1342784	-.037180	1.697102	.0764161	.0133778	66.81106
Stddev	.0033651	.001202	.002356	.0031530	.0027012	.87317
%RSD	2.506061	3.233935	.1388024	4.126126	20.19151	1.306931
#1	.1375294	-.038443	1.697013	.0736804	.0125273	67.15000
#2	.1308098	-.036049	1.694792	.0757035	.0112042	67.46396
#3	.1344962	-.037049	1.699501	.0798644	.0164018	65.81924

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.490218	.0120416	.0098429	157.1646	.1833571	.0602746
Stddev	.020193	.0002430	.0000759	2.0218	.0068800	.0010758
%RSD	1.355029	2.018128	.7706519	1.286432	3.752259	1.784804
#1	1.501040	.0121801	.0097729	158.3321	.1912978	.0594183
#2	1.502693	.0121838	.0098323	158.3317	.1791769	.0599235
#3	1.466921	.0117610	.0099235	154.8300	.1795967	.0614821

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3698778	159.9773	8.443056	37.99480	.2017005	.0006117
Stddev	.0090816	2.2303	.115171	.46263	.0003219	.0020308
%RSD	2.455303	1.394115	1.364090	1.217610	.1596007	331.9844
#1	.3594307	161.3264	8.505751	38.13332	.2016707	-.000579
#2	.3758880	161.2025	8.513279	38.37235	.2013945	.002957
#3	.3743148	157.4030	8.310140	37.47874	.2020362	-.000542

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5281262	.1699769	1.812147	11.41601	F 18.94652	.1123456
Stddev	.0147186	.0098307	.060736	.12893	.01857	.0019976
%RSD	2.786938	5.783579	3.351621	1.129345	.0980072	1.778110
#1	.5427398	.1630233	1.881829	11.43100	18.94749	.1123866
#2	.5283340	.1812241	1.770438	11.53678	18.96458	.1143224
#3	.5133049	.1656833	1.784173	11.28024	18.92748	.1103278

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-17 Acquired: 12/29/2024 12:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088746	4.442074	10.89926	.1518324	.9060320	.1281303
Stddev	.0007549	.000630	.17959	.0009279	.0110530	.0010014
%RSD	8.506592	.0141929	1.647747	.6111559	1.219939	.7815156
#1	.0080693	4.441384	10.99746	.1520624	.9102435	.1286197
#2	.0089883	4.442217	11.00833	.1526236	.9143601	.1287929
#3	.0095662	4.442621	10.69198	.1508110	.8934923	.1269784

Elem	Li6707
Units	ppm
Avg	.0886132
Stddev	.0029296
%RSD	3.306099
#1	.0909434
#2	.0895718
#3	.0853243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.376	31004.32	2457.377	1565.621	1783.401
Stddev	2.463	1025.72	41.437	50.981	1.013
%RSD	.0992710	3.308327	1.686216	3.256295	.0568295
#1	2481.202	29824.43	2440.134	1506.807	1784.531
#2	2479.005	31504.72	2427.346	1597.211	1783.097
#3	2483.922	31683.80	2504.651	1592.846	1782.574

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-18 Acquired: 12/29/2024 12:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1809183	-.056287	23.10486	.1040864	-.004216	77.83528
Stddev	.0009398	.005050	.00550	.0004831	.003106	.05782
%RSD	.5194698	8.971855	.0237842	.4641127	73.67255	.0742840
#1	.1814019	-.061914	23.10039	.1037460	-.000756	77.81554
#2	.1815178	-.054799	23.11099	.1046393	-.005128	77.78992
#3	.1798351	-.052148	23.10320	.1038740	-.006764	77.90039

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.692456	.0144818	.0100296	143.0889	.1688467	.0677576
Stddev	.001319	.0000988	.0001055	.2282	.0007353	.0001514
%RSD	.0779398	.6820045	1.052114	.1594833	.4354771	.2234355
#1	1.692312	.0145948	.0101090	142.8722	.1681287	.0679119
#2	1.691214	.0144383	.0099098	143.3271	.1695981	.0677516
#3	1.693841	.0144123	.0100700	143.0676	.1688134	.0676093

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4901691	201.1417	11.35914	37.10639	.1979764	.0006276
Stddev	.0014354	.5577	.01034	.08809	.0001674	.0009386
%RSD	.2928410	.2772861	.0910305	.2373907	.0845312	149.5659
#1	.4915732	200.5667	11.35315	37.00573	.1979224	.0000372
#2	.4902296	201.1780	11.35318	37.14408	.1978428	.0001356
#3	.4887043	201.6804	11.37108	37.16936	.1981642	.0017099

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5709787	.2084003	1.450122	11.64451	F 19.40464	.1226183
Stddev	.0204597	.0102422	.002491	.11262	.02348	.0025880
%RSD	3.583264	4.914686	.1717634	.9671690	.1210092	2.110586
#1	.5797219	.1971225	1.448661	11.62389	19.42038	.1196309
#2	.5856140	.2171234	1.452997	11.76602	19.37765	.1241764
#3	.5476001	.2109548	1.448706	11.54362	19.41589	.1240476

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-18 Acquired: 12/29/2024 12:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081041	3.591261	11.16418	4.518022	.9262273	.0835145
Stddev	.0001912	.019050	.04277	.002407	.0044602	.0007453
%RSD	2.359631	.5304663	.3831391	.0532858	.4815457	.8924571
#1	.0083249	3.583060	11.21249	4.516427	.9298035	.0842706
#2	.0079948	3.577685	11.13111	4.516848	.9276488	.0834925
#3	.0079926	3.613039	11.14895	4.520791	.9212296	.0827804

Elem	Li6707
Units	ppm
Avg	.1049750
Stddev	.0007591
%RSD	.7231540
#1	.1041477
#2	.1051376
#3	.1056396

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.953	32697.21	2433.473	1639.530	1771.448
Stddev	6.169	131.71	4.173	12.056	3.572
%RSD	.2391066	.4028266	.1714927	.7353390	.2016496
#1	2572.842	32709.83	2429.023	1641.468	1767.501
#2	2583.149	32559.63	2434.097	1626.622	1772.384
#3	2583.869	32822.15	2437.299	1650.499	1774.459

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-19 Acquired: 12/29/2024 12:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1340549	-.045234	.3882660	.0814560	.0201787	74.84162
Stddev	.0047642	.006494	.0009022	.0024428	.0022109	.29476
%RSD	3.553923	14.35579	.2323543	2.998892	10.95669	.3938464
#1	.1359292	-.052665	.3884484	.0790727	.0196065	74.50792
#2	.1286386	-.042388	.3890630	.0839542	.0226195	74.95046
#3	.1375969	-.040649	.3872866	.0813411	.0183102	75.06649

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.163615	.0129414	.0056906	345.6504	.1214987	.0653973
Stddev	.005602	.0001103	.0000633	1.1406	.0005630	.0007974
%RSD	.4813916	.8522290	1.112498	.3299898	.4633371	1.219263
#1	1.158543	.0130264	.0056457	344.3839	.1220879	.0650100
#2	1.169627	.0129810	.0057630	345.9710	.1209663	.0663143
#3	1.162675	.0128168	.0056630	346.5965	.1214420	.0648675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1594089	191.1283	9.805713	86.08434	.1617276	-.003846
Stddev	.0011037	.3813	.034213	.30435	.0006513	.000391
%RSD	.6923563	.1995113	.3489040	.3535430	.4026867	10.16467
#1	.1604961	190.6892	9.767086	85.78747	.1613879	-.003648
#2	.1582894	191.3193	9.817854	86.06992	.1624785	-.003593
#3	.1594413	191.3764	9.832200	86.39564	.1613165	-.004296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6706738	.1950146	.5005641	8.269493	F 10.12547	.1085548
Stddev	.0140200	.0088956	.0022698	.029650	.05292	.0009908
%RSD	2.090438	4.561507	.4534443	.3585517	.5226723	.9127079
#1	.6799300	.2045844	.5008107	8.238920	10.09783	.1078157
#2	.6545434	.1869977	.4981812	8.298126	10.18649	.1096806
#3	.6775479	.1934618	.5027006	8.271435	10.09209	.1081680

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-19 Acquired: 12/29/2024 12:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047903	1.522854	10.28942	.0804056	1.002363	.0833732
Stddev	.0006507	.016347	.02594	.0016965	.010672	.0002739
%RSD	13.58458	1.073455	.2521364	2.109964	1.064699	.3284745
#1	.0041301	1.513685	10.31788	.0800569	.990399	.0830854
#2	.0048096	1.541728	10.26709	.0822494	1.005788	.0836306
#3	.0054312	1.513150	10.28328	.0789105	1.010902	.0834035

Elem	Li6707
Units	ppm
Avg	.1026334
Stddev	.0032814
%RSD	3.197189
#1	.1047182
#2	.0988510
#3	.1043309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.265	32509.06	2513.894	1630.325	1711.243
Stddev	4.393	182.67	16.231	13.582	4.030
%RSD	.1719270	.5619180	.6456570	.8330764	.2355244
#1	2560.125	32613.74	2518.070	1640.325	1714.816
#2	2554.095	32615.31	2527.629	1635.787	1706.874
#3	2551.575	32298.13	2495.983	1614.862	1712.039

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-20 Acquired: 12/29/2024 12:58:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0924503	-.008844	.3215010	.0300048	-.009369	42.49653
Stddev	.0038663	.004448	.0039971	.0015173	.002047	.32621
%RSD	4.182049	50.29838	1.243249	5.056864	21.85187	.7676196
#1	.0881789	-.008613	.3202765	.0312839	-.011629	42.82994
#2	.0934614	-.004516	.3182595	.0283284	-.008843	42.48161
#3	.0957106	-.013404	.3259671	.0304020	-.007637	42.17803

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7108178	.0086238	.0045638	F 1669.592	.0685946	.0779018
Stddev	.0051695	.0000379	.0001405	21.383	.0009917	.0005378
%RSD	.7272640	.4392262	3.077440	1.280713	1.445743	.6902933
#1	.7162575	.0086498	.0044317	1645.086	.0688200	.0782337
#2	.7102265	.0085803	.0047113	1679.235	.0694541	.0781903
#3	.7059693	.0086412	.0045484	1684.454	.0675096	.0772813

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2139938	137.1449	10.23367	233.9645	.1361015	-.003653
Stddev	.0080333	1.2320	.05682	1.5250	.0005334	.000490
%RSD	3.753986	.8983285	.5551828	.6518077	.3918861	13.42110
#1	.2085562	138.5110	10.29767	235.7252	.1366532	-.003314
#2	.2232209	136.8058	10.21418	233.1052	.1360627	-.003429
#3	.2102042	136.1180	10.18917	233.0630	.1355886	-.004215

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.531545	.1197574	.4986937	7.849540	6.364877	.1134410
Stddev	.024204	.0079811	.0026653	.169938	.026176	.0012349
%RSD	1.580360	6.664365	.5344515	2.164948	.4112560	1.088599
#1	1.521695	.1270283	.4957382	7.960547	6.335003	.1139292
#2	1.513819	.1112181	.5009146	7.934169	6.375831	.1143572
#3	1.559121	.1210259	.4994285	7.653904	6.383796	.1120366

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-20 Acquired: 12/29/2024 12:58:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014898	2.225103	8.764361	.0424555	.4191292	1.109052
Stddev	.0004844	.000442	.053986	.0018702	.0057757	.010446
%RSD	32.51693	.0198467	.6159673	4.405030	1.378018	.9418891
#1	.0009372	2.225235	8.708421	.0419227	.4250570	1.120082
#2	.0016911	2.225463	8.816153	.0445342	.4188120	1.107767
#3	.0018412	2.224610	8.768510	.0409095	.4135187	1.099309

Elem	Li6707
Units	ppm
Avg	.0902054
Stddev	.0026889
%RSD	2.980830
#1	.0920089
#2	.0914924
#3	.0871149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2198.746	28103.67	2225.440	1413.451	1528.664
Stddev	2.688	36.79	9.406	2.191	1.647
%RSD	.1222300	.1308999	.4226557	.1549773	.1077401
#1	2200.406	28065.38	2229.609	1411.706	1530.181
#2	2195.645	28138.75	2214.670	1412.737	1526.912
#3	2200.187	28106.89	2232.040	1415.909	1528.898

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-21 Acquired: 12/29/2024 13:02:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274895	.0278705	.1746076	-.004274	-.013004	30.02291
Stddev	.0067863	.0045276	.0024500	.003104	.003195	.17497
%RSD	24.68678	16.24504	1.403155	72.62163	24.57203	.5827818
#1	.0334670	.0231748	.1741946	-.000691	-.011431	29.93936
#2	.0201126	.0282280	.1723903	-.006004	-.016680	30.22399
#3	.0288889	.0322088	.1772378	-.006127	-.010899	29.90539

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4050573	.0055059	.0043659	F 1119.509	.0617868	.0726938
Stddev	.0015184	.0001562	.0000800	4.458	.0007035	.0011235
%RSD	.3748669	2.836821	1.832318	.3982534	1.138508	1.545504
#1	.4048366	.0055698	.0044486	1115.765	.0618288	.0720534
#2	.4066741	.0056200	.0043603	1124.441	.0610634	.0720370
#3	.4036614	.0053279	.0042889	1118.322	.0624684	.0739911

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1245141	80.22416	10.89033	60.13003	.1047061	-.000267
Stddev	.0061084	.21782	.03142	.13208	.0021115	.001284
%RSD	4.905804	.2715137	.2885195	.2196608	2.016595	480.8751
#1	.1221481	80.13222	10.87291	60.14372	.1022694	.000411
#2	.1314516	80.47288	10.92661	60.25473	.1058504	.000536
#3	.1199426	80.06739	10.87149	59.99164	.1059984	-.001748

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7527352	.0556039	.3050671	8.840641	3.839629	.0817646
Stddev	.0146529	.0056850	.0013962	.019923	.022135	.0024127
%RSD	1.946623	10.22418	.4576566	.2253611	.5764872	2.950757
#1	.7585287	.0557247	.3036449	8.854826	3.815867	.0792937
#2	.7360713	.0498595	.3064357	8.849234	3.843354	.0841145
#3	.7636056	.0612277	.3051208	8.817863	3.859664	.0818857

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-21 Acquired: 12/29/2024 13:02:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005745	1.038950	7.837981	.0314935	.3712300	.6788051
Stddev	.0004034	.012570	.037135	.0026503	.0050628	.0052347
%RSD	70.22372	1.209923	.4737859	8.415363	1.363795	.7711693
#1	.0001164	1.032718	7.808665	.0339913	.3752028	.6734552
#2	.0008768	1.030713	7.879740	.0317758	.3655295	.6839166
#3	.0007304	1.053419	7.825539	.0287133	.3729578	.6790435

Elem	Li6707
Units	ppm
Avg	.0613235
Stddev	.0029008
%RSD	4.730311
#1	.0588911
#2	.0645340
#3	.0605456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2290.369	29168.27	2310.158	1461.121	1612.021
Stddev	7.685	169.38	15.654	8.951	5.263
%RSD	.3355540	.5806893	.6776207	.6125827	.3264882
#1	2283.119	28974.80	2302.863	1455.767	1608.800
#2	2298.426	29240.24	2299.483	1456.142	1618.095
#3	2289.561	29289.79	2328.128	1471.454	1609.169

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-01 Acquired: 12/29/2024 13:06:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1197117	-.049067	1.321207	.0753226	.0215167	56.24883
Stddev	.0031436	.002562	.005437	.0014360	.0032981	.05862
%RSD	2.625938	5.221145	.4115396	1.906478	15.32816	.1042115
#1	.1205215	-.046699	1.319438	.0736962	.0198765	56.18115
#2	.1223711	-.051787	1.316874	.0758559	.0193602	56.28192
#3	.1162424	-.048716	1.327308	.0764156	.0253133	56.28341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.260335	.0121174	.0069148	81.22893	.1046241	.0393890
Stddev	.001398	.0002173	.0000666	.07589	.0011035	.0004055
%RSD	.1108910	1.793389	.9623912	.0934245	1.054714	1.029558
#1	1.258854	.0123368	.0069046	81.21111	.1055027	.0396543
#2	1.261630	.0121132	.0069859	81.31214	.1049839	.0389222
#3	1.260522	.0119022	.0068540	81.16354	.1033856	.0395905

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2621529	158.6888	5.894173	29.18119	.1687054	-.002335
Stddev	.0039457	.5395	.024516	.08406	.0005476	.000928
%RSD	1.505094	.3399972	.4159331	.2880623	.3245934	39.74311
#1	.2629611	158.2376	5.868015	29.11132	.1681607	-.003034
#2	.2656319	158.5424	5.897882	29.15779	.1692559	-.002689
#3	.2578657	159.2864	5.916624	29.27448	.1686997	-.001282

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4784384	.1593709	1.246088	8.416025	F 13.99765	.0963211
Stddev	.0048470	.0069048	.006470	.070260	.03299	.0009099
%RSD	1.013089	4.332561	.5192069	.8348381	.2356592	.9446876
#1	.4840302	.1672264	1.248225	8.474941	13.98087	.0958503
#2	.4754370	.1566246	1.251220	8.338264	13.97643	.0973699
#3	.4758480	.1542618	1.238820	8.434871	14.03565	.0957430

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-01 Acquired: 12/29/2024 13:06:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101414	4.667761	12.02608	.0685496	.7296040	.0647640
Stddev	.0003359	.015444	.11473	.0011058	.0048955	.0010228
%RSD	3.311967	.3308717	.9539899	1.613059	.6709768	1.579198
#1	.0105239	4.651608	12.10034	.0672870	.7261652	.0652892
#2	.0098947	4.669293	11.89395	.0693453	.7274379	.0654175
#3	.0100056	4.682382	12.08396	.0690165	.7352088	.0635853

Elem	Li6707
Units	ppm
Avg	.0739207
Stddev	.0028708
%RSD	3.883650
#1	.0718565
#2	.0771991
#3	.0727066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2460.261	31251.58	2334.867	1587.355	1834.348
Stddev	4.264	138.24	21.462	12.334	5.717
%RSD	.1732986	.4423508	.9192120	.7769942	.3116893
#1	2463.615	31092.01	2317.256	1574.770	1838.876
#2	2461.705	31327.79	2358.773	1587.873	1836.244
#3	2455.463	31334.95	2328.572	1599.421	1827.923

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-02 Acquired: 12/29/2024 13:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1319510	-.046094	1.367687	.0705784	.0158329	57.57790
Stddev	.0061180	.002715	.004447	.0020601	.0040097	.62805
%RSD	4.636565	5.891027	.3251169	2.918926	25.32536	1.090786
#1	.1389158	-.046088	1.370045	.0683484	.0162682	57.85278
#2	.1294929	-.043382	1.362558	.0724106	.0196072	56.85927
#3	.1274444	-.048813	1.370458	.0709763	.0116233	58.02165

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494370	.0112788	.0069920	85.05820	.1059433	.0489461
Stddev	.018984	.0001763	.0000860	1.14039	.0002074	.0009940
%RSD	1.270389	1.563280	1.230338	1.340720	.1957310	2.030718
#1	1.498878	.0114350	.0070770	85.37770	.1057087	.0486900
#2	1.473537	.0113137	.0069050	83.79213	.1060189	.0500430
#3	1.510694	.0110876	.0069939	86.00476	.1061022	.0481052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2482302	152.0231	6.886669	33.17827	.1683380	-.002104
Stddev	.0026217	1.6674	.079781	.46202	.0009325	.000244
%RSD	1.056174	1.096787	1.158479	1.392552	.5539212	11.61059
#1	.2506626	152.6042	6.918521	33.22637	.1694121	-.001871
#2	.2454532	150.1430	6.795883	32.69408	.1678666	-.002359
#3	.2485747	153.3223	6.945603	33.61436	.1677354	-.002083

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4379995	.1720118	1.375485	7.396858	F 11.49266	.0872333
Stddev	.0404092	.0021180	.002340	.221101	.02246	.0019891
%RSD	9.225854	1.231322	.1701257	2.989127	.1954025	2.280201
#1	.4019229	.1699955	1.372792	7.607005	11.49261	.0876037
#2	.4304105	.1718211	1.376644	7.166228	11.47023	.0850850
#3	.4816651	.1742187	1.377019	7.417340	11.51514	.0890111

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-02 Acquired: 12/29/2024 13:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078888	3.088788	12.11966	.0716289	.6776970	.0636247
Stddev	.0004534	.008261	.01971	.0008229	.0127070	.0014300
%RSD	5.746976	.2674505	.1626487	1.148794	1.875024	2.247618
#1	.0075471	3.097248	12.14191	.0724582	.6836159	.0644221
#2	.0077162	3.080741	12.10438	.0708126	.6631103	.0619738
#3	.0084031	3.088376	12.11269	.0716159	.6863647	.0644783

Elem	Li6707
Units	ppm
Avg	.0829527
Stddev	.0042671
%RSD	5.144041
#1	.0780367
#2	.0856988
#3	.0851226

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2502.404	31716.48	2417.756	1608.626	1859.898
Stddev	9.156	135.25	15.140	7.028	8.065
%RSD	.3659014	.4264278	.6262038	.4368708	.4336392
#1	2512.862	31730.20	2414.765	1609.961	1868.731
#2	2495.826	31844.35	2434.169	1614.890	1858.038
#3	2498.524	31574.90	2404.335	1601.027	1852.925

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-03 Acquired: 12/29/2024 13:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1331616	-.052700	1.113804	.0717797	.0199220	67.40234
Stddev	.0017590	.004299	.002207	.0011676	.0014752	.05444
%RSD	1.320976	8.156798	.1981897	1.626659	7.405040	.0807706
#1	.1334697	-.057368	1.115762	.0712263	.0204515	67.40157
#2	.1312689	-.051827	1.114238	.0731211	.0182551	67.34829
#3	.1347462	-.048905	1.111412	.0709917	.0210594	67.45717

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.297147	.0116467	.0054467	75.42991	.1132844	.0452996
Stddev	.002435	.0000910	.0000117	.09221	.0007744	.0004892
%RSD	.1877539	.7810886	.2141092	.1222506	.6835995	1.079926
#1	1.299900	.0116651	.0054556	75.53318	.1139419	.0455752
#2	1.295276	.0115479	.0054335	75.35582	.1134805	.0455888
#3	1.296264	.0117271	.0054511	75.40071	.1124308	.0447347

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2033929	156.1813	5.966315	28.43174	.1470591	-.002013
Stddev	.0088007	.2646	.008942	.15311	.0006912	.000988
%RSD	4.326943	.1693945	.1498824	.5385175	.4700251	49.09013
#1	.1959907	155.9324	5.976244	28.51736	.1474755	-.003069
#2	.2131238	156.1524	5.958896	28.25497	.1474407	-.001859
#3	.2010642	156.4591	5.963806	28.52289	.1462612	-.001111

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5552038	.1837664	.9233785	6.557081	F 10.71180	.0871094
Stddev	.0232758	.0074416	.0004170	.036531	.02030	.0006801
%RSD	4.192302	4.049497	.0451544	.5571234	.1894882	.7807904
#1	.5483279	.1851066	.9237483	6.554701	10.73398	.0870654
#2	.5811430	.1904469	.9234607	6.521798	10.69416	.0864524
#3	.5361406	.1757458	.9229266	6.594744	10.70725	.0878105

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-03 Acquired: 12/29/2024 13:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060620	2.496742	12.79324	.0619285	.7032696	.0637256
Stddev	.0001361	.013076	.03747	.0006883	.0048168	.0005139
%RSD	2.245193	.5237119	.2928517	1.111422	.6849133	.8064698
#1	.0061209	2.508458	12.75063	.0611513	.6978915	.0640865
#2	.0059063	2.482636	12.80804	.0624611	.7047306	.0639530
#3	.0061587	2.499131	12.82104	.0621730	.7071868	.0631372

Elem	Li6707
Units	ppm
Avg	.1135782
Stddev	.0027037
%RSD	2.380448
#1	.1151076
#2	.1151704
#3	.1104564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.323	32405.06	2417.332	1643.959	1861.361
Stddev	9.050	223.67	7.200	7.737	7.054
%RSD	.3518156	.6902444	.2978312	.4706613	.3789804
#1	2568.875	32197.83	2409.301	1637.395	1856.983
#2	2582.591	32375.17	2419.485	1641.991	1869.498
#3	2565.505	32642.18	2423.208	1652.490	1857.600

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-04 Acquired: 12/29/2024 13:18:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877772	-.043296	.2477107	.0690203	.0153540	57.65282	.7398913
Stddev	.0034928	.005245	.0023813	.0019974	.0013036	.05390	.0011169
%RSD	3.979144	12.11366	.9613182	2.893878	8.489934	.0934948	.1509581
#1	.0859699	-.042930	.2503161	.0684295	.0138979	57.62363	.7391692
#2	.0855584	-.048714	.2471693	.0673849	.0157521	57.61982	.7393270
#3	.0918033	-.038244	.2456468	.0712464	.0164121	57.71503	.7411779

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104073	.0035521	168.8525	.0924065	.0442299	.1303270	157.5998
Stddev	.0000292	.0000549	.1714	.0006628	.0006833	.0047142	.1748
%RSD	.2810193	1.544556	.1015184	.7172377	1.544767	3.617247	.1108831
#1	.0103890	.0035858	168.6836	.0921774	.0444481	.1258190	157.4456
#2	.0103918	.0034888	168.8476	.0931534	.0447774	.1352235	157.7896
#3	.0104410	.0035816	169.0263	.0918886	.0434642	.1299383	157.5642

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.119540	44.33737	.1210145	-.002823	.5349967	.1468984	.4358465
Stddev	.003481	.28415	.0004671	.000265	.0097216	.0032203	.0012749
%RSD	.0679902	.6408731	.3859943	9.392272	1.817133	2.192191	.2925046
#1	5.117322	44.02614	.1215469	-.003103	.5452088	.1494800	.4352540
#2	5.117746	44.58294	.1206736	-.002791	.5258541	.1479253	.4373098
#3	5.123552	44.40302	.1208231	-.002576	.5339271	.1432899	.4349757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.947436	6.269541	.0713450	.0067255	1.209367	11.84995	.0309354
Stddev	.137180	.018870	.0024410	.0004939	.012622	.08792	.0002290
%RSD	4.654217	.3009819	3.421462	7.343272	1.043721	.7419831	.7403169
#1	3.013308	6.288390	.0741314	.0070090	1.220085	11.92016	.0308745
#2	2.789744	6.269584	.0695835	.0070122	1.212562	11.75133	.0307429
#3	3.039255	6.250650	.0703203	.0061552	1.195454	11.87835	.0311887

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-04 Acquired: 12/29/2024 13:18:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5373757	.0452445	.0832573
Stddev	.0041206	.0006373	.0020036
%RSD	.7667964	1.408630	2.406477
#1	.5326222	.0448899	.0822029
#2	.5399310	.0448634	.0855679
#3	.5395741	.0459803	.0820012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2513.229	31860.18	2440.003	1607.928	1811.758
Stddev	7.200	86.61	12.232	3.938	4.488
%RSD	.2864972	.2718458	.5013260	.2449197	.2477147
#1	2520.758	31956.65	2434.166	1610.053	1814.232
#2	2506.410	31834.79	2454.061	1603.384	1806.578
#3	2512.518	31789.10	2431.783	1610.347	1814.465

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-05 Acquired: 12/29/2024 13:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0762927	-.027911	.2026168	.0495780	.0054364	50.07307	.6297732
Stddev	.0021784	.007519	.0012237	.0027149	.0110073	.17790	.0041279
%RSD	2.855307	26.94007	.6039315	5.475972	202.4726	.3552854	.6554617
#1	.0757368	-.036494	.2012266	.0508339	-.006192	49.89254	.6260374
#2	.0744460	-.024750	.2030929	.0464625	.015695	50.24823	.6342048
#3	.0786951	-.022488	.2035308	.0514375	.006806	50.07843	.6290772

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096156	.0031937	354.6832	.0833587	.0577604	.1430283	150.2946
Stddev	.0000565	.0000407	.9877	.0004732	.0004051	.0052006	.5169
%RSD	.5880173	1.275693	.2784780	.5676663	.7012760	3.636064	.3439149
#1	.0096038	.0032161	354.1793	.0839050	.0582267	.1451247	149.7665
#2	.0096771	.0031466	355.8212	.0830822	.0575585	.1468535	150.7995
#3	.0095659	.0032182	354.0491	.0830887	.0574959	.1371067	150.3177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.953004	98.48915	.1261965	-.003759	.8300690	.1314698	.4361233
Stddev	.020635	.30660	.0008134	.000723	.0519866	.0056329	.0039094
%RSD	.3466300	.3113059	.6445288	19.22291	6.262922	4.284575	.8964078
#1	5.932582	98.41996	.1266047	-.004121	.8096202	.1377888	.4399312
#2	5.952584	98.82444	.1252599	-.004229	.7914161	.1269752	.4363191
#3	5.973845	98.22306	.1267250	-.002927	.8891707	.1296454	.4321196

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.407241	7.166936	.0707123	.0051258	.9174170	10.93795	.0335568
Stddev	.096238	.012445	.0035491	.0007114	.0076014	.05228	.0014882
%RSD	2.824515	.1736393	5.019079	13.87862	.8285614	.4779826	4.434925
#1	3.504396	7.152852	.0669772	.0059416	.9087622	10.94108	.0318570
#2	3.311947	7.171513	.0711195	.0046347	.9230095	10.98860	.0341880
#3	3.405379	7.176445	.0740403	.0048010	.9204795	10.88418	.0346254

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-05 Acquired: 12/29/2024 13:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6309131	.1737727	.0812373
Stddev	.0059894	.0009906	.0027550
%RSD	.9493198	.5700329	3.391294
#1	.6259426	.1739550	.0843461
#2	.6292337	.1746594	.0802674
#3	.6375629	.1727036	.0790985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2375.127	30451.89	2289.665	1521.248	1706.557
Stddev	1.732	38.83	14.037	11.510	2.810
%RSD	.0729296	.1275183	.6130742	.7566190	.1646794
#1	2375.216	30473.90	2291.288	1516.758	1705.103
#2	2376.814	30407.05	2274.887	1512.660	1709.797
#3	2373.353	30474.71	2302.821	1534.326	1704.772

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-06 Acquired: 12/29/2024 13:26:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548886	-.012540	.1281716	.0316717	.0020059	40.16087	.4659586
Stddev	.0052961	.005485	.0016005	.0031269	.0050567	.45459	.0044547
%RSD	9.648821	43.73717	1.248677	9.872717	252.0954	1.131929	.9560375
#1	.0583682	-.006209	.1282218	.0330687	-.001470	40.21812	.4676083
#2	.0487936	-.015577	.1297463	.0280899	.007807	40.58413	.4693533
#3	.0575041	-.015835	.1265466	.0338565	-.000320	39.68037	.4609144

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078421	.0026152	445.7969	.0638571	.0591770	.1234549	125.0066
Stddev	.0003189	.0001850	4.2879	.0006334	.0004661	.0083488	1.4504
%RSD	4.065940	7.074368	.9618437	.9919641	.7876367	6.762646	1.160245
#1	.0075839	.0024091	446.8602	.0631922	.0586689	.1169415	125.3113
#2	.0081985	.0026697	449.4530	.0639256	.0592774	.1328666	126.2804
#3	.0077439	.0027668	441.0774	.0644535	.0595848	.1205566	123.4281

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.466271	142.1684	.1060363	-.003117	.9046956	.1138812	.3357867
Stddev	.061433	1.6944	.0010023	.000878	.0098403	.0092602	.0040203
%RSD	1.123855	1.191827	.9452349	28.16139	1.087690	8.131501	1.197267
#1	5.496424	142.4712	.1049202	-.002196	.9160198	.1235842	.3311449
#2	5.506801	143.6909	.1068594	-.003210	.8998422	.1051385	.3381613
#3	5.395588	140.3430	.1063295	-.003944	.8982249	.1129210	.3380538

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.449505	5.155505	.0637380	.0036047	.7226377	9.759770	.0265229
Stddev	.032488	.017412	.0021193	.0004732	.0014849	.080339	.0021656
%RSD	1.326295	.3377343	3.325091	13.12842	.2054795	.8231646	8.164815
#1	2.440591	5.146100	.0644888	.0030583	.7209342	9.784977	.0288281
#2	2.485519	5.144817	.0653798	.0038700	.7233215	9.824482	.0245312
#3	2.422405	5.175597	.0613455	.0038857	.7236575	9.669850	.0262094

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-06 Acquired: 12/29/2024 13:26:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5969235	.2475438	.0637432
Stddev	.0084313	.0022933	.0027298
%RSD	1.412452	.9264045	4.282564
#1	.6005763	.2479562	.0634949
#2	.6029124	.2496028	.0665887
#3	.5872818	.2450723	.0611459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.085	29231.68	2242.961	1470.674	1669.680
Stddev	3.214	239.51	17.615	12.978	3.201
%RSD	.1413931	.8193608	.7853648	.8824569	.1917379
#1	2275.455	29500.85	2244.987	1485.250	1671.460
#2	2269.427	29152.10	2224.420	1460.373	1665.984
#3	2274.374	29042.09	2259.476	1466.399	1671.596

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-07 Acquired: 12/29/2024 13:29:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028587	-.021594	.2080800	.0458114	.0061904	34.69539
Stddev	.0031440	.006486	.0011827	.0065498	.0069819	.19516
%RSD	3.056619	30.03645	.5683695	14.29734	112.7858	.5624980
#1	.1022696	-.016770	.2091745	.0533744	.0135322	34.79831
#2	.1000510	-.019044	.2068255	.0420482	-.000365	34.81754
#3	.1062556	-.028967	.2082399	.0420116	.005404	34.47031

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2979096	.0093074	.0037593	F 1036.992	.0649120	.0523799
Stddev	.0032839	.0000564	.0000552	7.591	.0009223	.0005435
%RSD	1.102298	.6063157	1.469453	.7320006	1.420905	1.037691
#1	.2985280	.0093163	.0038194	1041.619	.0658402	.0520916
#2	.3008403	.0092470	.0037477	1041.126	.0649002	.0530068
#3	.2943605	.0093588	.0037108	1028.232	.0639956	.0520411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1697700	160.8954	6.184163	237.7446	.0973532	-.003948
Stddev	.0039417	1.0470	.034618	1.5020	.0015530	.000340
%RSD	2.321781	.6507441	.5597816	.6317613	1.595240	8.607613
#1	.1743208	160.9873	6.202831	239.0013	.0988699	-.004174
#2	.1675601	161.8934	6.205441	238.1513	.0974233	-.004114
#3	.1674290	159.8054	6.144219	236.0811	.0957663	-.003557

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.126589	.1439893	.4730402	3.647017	5.563102	.0902108
Stddev	.004950	.0066750	.0017268	.236180	.003902	.0042521
%RSD	.4393958	4.635753	.3650520	6.475973	.0701445	4.713534
#1	1.132271	.1516614	.4717019	3.773360	5.559203	.0892787
#2	1.124291	.1407933	.4724292	3.793152	5.567008	.0948516
#3	1.123206	.1395132	.4749894	3.374540	5.563095	.0865020

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-07 Acquired: 12/29/2024 13:29:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023031	1.286235	7.724860	.0334269	.6569276	.6500375
Stddev	.0006793	.005578	.035939	.0019658	.0040901	.0059650
%RSD	29.49392	.4336470	.4652406	5.880888	.6226130	.9176354
#1	.0023846	1.287134	7.752688	.0332396	.6556422	.6538679
#2	.0029379	1.291309	7.684285	.0354796	.6615060	.6530798
#3	.0015867	1.280263	7.737608	.0315614	.6536346	.6431648

Elem	Li6707
Units	ppm
Avg	.0650584
Stddev	.0036123
%RSD	5.552414
#1	.0609096
#2	.0667593
#3	.0675063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.165	29499.60	2362.901	1474.051	1613.666
Stddev	1.492	137.80	15.317	4.490	2.429
%RSD	.0644427	.4671385	.6482328	.3045879	.1505178
#1	2316.882	29384.19	2345.215	1473.130	1616.368
#2	2314.179	29462.44	2371.615	1470.093	1611.663
#3	2314.435	29652.17	2371.873	1478.930	1612.968

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-08 Acquired: 12/29/2024 13:33:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1210616	-.045820	.5781732	.0695096	.0190283	58.83156	.7031509
Stddev	.0062219	.002851	.0009025	.0057484	.0024455	.15885	.0044185
%RSD	5.139483	6.222244	.1560989	8.269906	12.85162	.2700005	.6283885
#1	.1140638	-.046556	.5777222	.0758023	.0215611	58.66902	.6992860
#2	.1259698	-.048231	.5775851	.0681922	.0188433	58.83923	.7021987
#3	.1231510	-.042673	.5792124	.0645343	.0166807	58.98643	.7079678

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107166	.0053160	40.81535	.0959720	.0407858	.1931569	138.3146
Stddev	.0002661	.0001663	.16636	.0014980	.0007406	.0024682	.4453
%RSD	2.482665	3.127994	.4075801	1.560858	1.815802	1.277798	.3219615
#1	.0107043	.0052499	40.70786	.0970943	.0416409	.1956170	137.8092
#2	.0109887	.0051930	40.73123	.0942710	.0403679	.1931731	138.6494
#3	.0104570	.0055052	41.00697	.0965508	.0403486	.1906807	138.4853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.697448	16.97328	.1357379	-.001719	.3007604	.1407238	.6386461
Stddev	.018685	.07681	.0011464	.000400	.0227023	.0107760	.0042460
%RSD	.2789818	.4525423	.8445686	23.25459	7.548307	7.657537	.6648372
#1	6.684295	16.90030	.1370533	-.001307	.3269128	.1293881	.6369378
#2	6.689214	17.05342	.1352088	-.001744	.2861241	.1508355	.6355204
#3	6.718835	16.96613	.1349517	-.002105	.2892442	.1419477	.6434801

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.064270	5.551602	.0835792	.0071912	3.286436	11.42822	.0420685
Stddev	.064925	.020477	.0026102	.0008828	.015682	.07956	.0013572
%RSD	1.070609	.3688478	3.123032	12.27582	.4771774	.6961698	3.226124
#1	6.090583	5.535057	.0817804	.0081284	3.280161	11.51096	.0405420
#2	5.990319	5.545246	.0865730	.0070698	3.274864	11.35228	.0431386
#3	6.111907	5.574503	.0823843	.0063754	3.304284	11.42143	.0425250

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-08 Acquired: 12/29/2024 13:33:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL35 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5471522	-.044766	.0448677
Stddev	.0024716	.000414	.0007505
%RSD	.4517189	.9239524	1.672680
#1	.5468210	-.044718	.0440258
#2	.5497727	-.045201	.0451107
#3	.5448629	-.044378	.0454665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.637	31647.67	2345.766	1600.306	1867.254
Stddev	6.501	111.06	10.672	7.122	3.075
%RSD	.2592539	.3509118	.4549350	.4450278	.1646954
#1	2509.517	31715.81	2333.464	1605.379	1868.494
#2	2500.403	31519.52	2352.535	1603.376	1863.752
#3	2512.991	31707.67	2351.299	1592.164	1869.516

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-09 Acquired: 12/29/2024 13:37:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1587184	-.065931	.6264107	.0920617	.0224093	69.74242	.7727388
Stddev	.0041039	.001364	.0011248	.0049181	.0031283	.23084	.0026439
%RSD	2.585670	2.069097	.1795572	5.342169	13.95971	.3309896	.3421421
#1	.1591367	-.066037	.6256385	.0924798	.0211739	69.48601	.7696880
#2	.1625972	-.067239	.6277012	.0869479	.0200875	69.80755	.7741676
#3	.1544213	-.064517	.6258924	.0967574	.0259667	69.93370	.7743609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130232	.0068949	52.55343	.1126688	.0488207	.2021567	172.5902
Stddev	.0002505	.0001931	.15746	.0001344	.0002407	.0072753	1.0287
%RSD	1.923153	2.801058	.2996276	.1193133	.4930304	3.598840	.5960489
#1	.0132550	.0067556	52.49349	.1126350	.0490214	.1942443	171.6181
#2	.0127575	.0068137	52.43475	.1125545	.0485539	.2085573	172.4851
#3	.0130570	.0071153	52.73207	.1128169	.0488870	.2036685	173.6675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.580422	21.80632	.1634382	-.002428	.3121535	.1798980	.7308212
Stddev	.036064	.10057	.0010246	.000497	.0311404	.0059531	.0021291
%RSD	.4757482	.4611872	.6268848	20.46786	9.975985	3.309130	.2913285
#1	7.553375	21.86498	.1634867	-.002539	.3129490	.1762739	.7307978
#2	7.566524	21.69020	.1644377	-.002860	.2806229	.1766516	.7329619
#3	7.621367	21.86379	.1623903	-.001885	.3428885	.1867686	.7287039

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.644733	6.307637	.0850255	.0068893	2.916405	11.60209	.0424343
Stddev	.018062	.019906	.0007117	.0001312	.010734	.07781	.0002857
%RSD	.2718240	.3155867	.8370336	1.904200	.3680497	.6706617	.6733601
#1	6.655977	6.317031	.0851637	.0067971	2.919291	11.68287	.0421214
#2	6.623898	6.284772	.0856580	.0068312	2.904524	11.52764	.0426815
#3	6.654322	6.321108	.0842549	.0070395	2.925401	11.59577	.0424999

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-09 Acquired: 12/29/2024 13:37:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL36 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4732891	-.051145	.0551341
Stddev	.0006433	.000908	.0042580
%RSD	.1359223	1.775840	7.723047
#1	.4730685	-.050364	.0507689
#2	.4727851	-.050929	.0553573
#3	.4740137	-.052142	.0592762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.355	32364.74	2433.287	1645.675	1880.874
Stddev	11.387	63.00	12.629	3.333	8.227
%RSD	.4416279	.1946677	.5190142	.2025263	.4373912
#1	2591.435	32308.33	2419.936	1643.650	1889.325
#2	2570.657	32432.73	2445.043	1643.852	1880.405
#3	2572.972	32353.18	2434.882	1649.521	1872.892

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-10 Acquired: 12/29/2024 13:41:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1363971	-.052004	.5121795	.0852201	.0204748	71.66926	.7461304
Stddev	.0035742	.006335	.0017914	.0033569	.0039781	1.13438	.0114446
%RSD	2.620456	12.18098	.3497647	3.939129	19.42901	1.582793	1.533857
#1	.1326542	-.055388	.5141651	.0820177	.0181316	70.36231	.7329779
#2	.1367625	-.055928	.5106845	.0887127	.0250679	72.39832	.7538191
#3	.1397746	-.044696	.5116889	.0849298	.0182249	72.24715	.7515942

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127456	.0069631	72.17968	.1038302	.0570965	.1886536	166.8684
Stddev	.0002296	.0002265	.95000	.0005357	.0016626	.0054283	2.4223
%RSD	1.801757	3.252114	1.316156	.5159008	2.911891	2.877404	1.451626
#1	.0124829	.0070042	71.09946	.1037814	.0589042	.1885541	164.1132
#2	.0128458	.0067189	72.88514	.1033206	.0556328	.1941310	168.6631
#3	.0129082	.0071662	72.55444	.1043886	.0567524	.1832757	167.8290

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.257981	20.22383	.1447521	-.002938	.3052990	.1654690	.5854001
Stddev	.118242	.32038	.0007088	.000845	.0260105	.0006664	.0009384
%RSD	1.431857	1.584152	.4896807	28.75126	8.519674	.4027381	.1603004
#1	8.121566	19.86738	.1444081	-.003807	.3004949	.1661988	.5851992
#2	8.331138	20.48780	.1442809	-.002120	.3333767	.1648928	.5864227
#3	8.321238	20.31629	.1455672	-.002886	.2820255	.1653153	.5845784

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.188054	3.964833	.0847154	.0060922	2.081226	11.94473	.0515312
Stddev	.273819	.007967	.0016828	.0002698	.003631	.15734	.0018441
%RSD	5.277866	.2009372	1.986388	4.428698	.1744846	1.317273	3.578526
#1	5.065696	3.955738	.0835798	.0057840	2.077228	11.76675	.0534809
#2	5.501716	3.968185	.0839177	.0062072	2.084319	12.06535	.0512976
#3	4.996749	3.970576	.0866487	.0062855	2.082131	12.00209	.0498151

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-10 Acquired: 12/29/2024 13:41:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5349358	-.041979	.0466456
Stddev	.0095867	.001081	.0009099
%RSD	1.792131	2.575149	1.950725
#1	.5240373	-.040864	.0459812
#2	.5420652	-.042050	.0462729
#3	.5387050	-.043023	.0476827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2644.360	33395.05	2560.008	1691.626	1838.961
Stddev	5.375	170.79	24.363	4.472	1.711
%RSD	.2032649	.5114293	.9516807	.2643611	.0930179
#1	2638.153	33269.08	2588.037	1690.289	1838.693
#2	2647.413	33589.45	2548.081	1696.613	1840.789
#3	2647.513	33326.63	2543.908	1687.974	1837.400

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV041 Acquired: 12/29/2024 13:45:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV041 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.056291	4.781238	24.69992	5.108647	5.038781	413.6713	10.41146
Stddev	.009698	.024883	.11199	.037497	.043371	.3820	.01915
%RSD	.1918017	.5204250	.4534042	.7339849	.8607466	.0923375	.1839656
#1	5.066761	4.809960	24.82280	5.151875	5.086634	413.9642	10.42523
#2	5.047616	4.767511	24.60359	5.084915	5.002063	413.8105	10.41956
#3	5.054496	4.766241	24.67338	5.089149	5.027645	413.2393	10.38958

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5331225	2.494850	407.2735	15.38267	2.410805	14.89473	409.5154
Stddev	.0051788	.013099	.8237	.03156	.013333	.02848	.2933
%RSD	.9714075	.5250374	.2022552	.2051399	.5530570	.1912055	.0716201
#1	.5385048	2.509888	407.1630	15.34894	2.425884	14.92667	409.7141
#2	.5326880	2.485925	408.1469	15.41148	2.400574	14.88553	409.1785
#3	.5281746	2.488738	406.5106	15.38757	2.405956	14.87198	409.6535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.79856	403.7564	2.514272	1.274291	432.6960	2.509069	15.21114
Stddev	.03662	.5350	.013732	.003834	5.1058	.008356	.04945
%RSD	.2474514	.1325085	.5461615	.3008891	1.180006	.3330318	.3250693
#1	14.83344	404.2572	2.529977	1.273309	438.5840	2.501368	15.21277
#2	14.80182	403.8193	2.508313	1.271043	429.4921	2.507886	15.16090
#3	14.76042	403.1928	2.504526	1.278520	430.0117	2.517954	15.25976

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.3422	5.015528	5.172371	5.018720	5.099585	5.037025	4.993800
Stddev	.2229	.026654	.044457	.036531	.020500	.050542	.025082
%RSD	.1463473	.5314369	.8595086	.7278890	.4019853	1.003418	.5022658
#1	152.4990	5.045342	5.216373	5.059866	5.112179	5.091148	5.022437
#2	152.4407	4.994002	5.173267	4.990101	5.075930	5.028872	4.975733
#3	152.0870	5.007239	5.127473	5.006192	5.110644	4.991054	4.983229

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV041 Acquired: 12/29/2024 13:45:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV041 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.091669	4.718194	5.214369
Stddev	.025403	.012237	.001786
%RSD	.4989088	.2593647	.0342456
#1	5.088622	4.712556	5.214804
#2	5.118458	4.732234	5.212406
#3	5.067927	4.709792	5.215897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1799.304	23550.27	1841.136	1135.696	1533.001
Stddev	12.385	86.71	14.721	5.258	6.410
%RSD	.6883291	.3682037	.7995387	.4629650	.4181578
#1	1785.478	23642.50	1824.893	1136.634	1525.872
#2	1809.384	23537.90	1844.918	1140.423	1538.290
#3	1803.049	23470.40	1853.597	1130.033	1534.840

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB041 Acquired: 12/29/2024 13:49:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB041 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003390	-.002572	.0012873	-.001952	-.001855	.0236713
Stddev	.004425	.002287	.0007874	.006807	.003118	.0395473
%RSD	130.5290	88.91751	61.16468	348.7894	168.1159	167.0685
#1	-.008213	-.004346	.0020298	.004177	.001507	-.014367
#2	.000483	.000009	.0013705	-.000754	-.002419	.020808
#3	-.002441	-.003378	.0004617	-.009278	-.004652	.064572

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000269	-.000068	-.000018	.0045391	.0009827	.0002131
Stddev	.000437	.000040	.000054	.0870301	.0005540	.0001758
%RSD	162.1358	59.82345	302.4497	1917.347	56.37155	82.50084
#1	.000226	-.000103	-.000049	-.074516	.0015978	.0000106
#2	-.000601	-.000076	-.000049	.097797	.0008275	.0003268
#3	-.000433	-.000024	.000044	-.009664	.0005229	.0003020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004154	.0154584	-.000358	-.068139	-.000202	-.000321
Stddev	.001290	.0116430	.001863	.096340	.000387	.001065
%RSD	31.06249	75.31787	520.0000	141.3881	191.6594	331.3052
#1	-.003291	.0124059	.000578	-.147890	.000244	-.001221
#2	-.003535	.0056459	-.002504	-.095429	-.000446	.000854
#3	-.005638	.0283236	.000851	.038902	-.000404	-.000598

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410389	-.012904	.0015489	-.601944	.0040409	.0109750
Stddev	.0180839	.012713	.0005196	.172777	.0009789	.0009958
%RSD	44.06534	98.51780	33.54988	28.70323	24.22468	9.073286
#1	.0396048	-.020203	.0021454	-.787448	.0029230	.0120223
#2	.0597971	-.020284	.0013069	-.572779	.0044549	.0108623
#3	.0237147	.001775	.0011943	-.445606	.0047447	.0100403

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB041 Acquired: 12/29/2024 13:49:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB041 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007660	.0051243	.0016161	.0002983	.0000941	.0001943
Stddev	.0002665	.0028302	.0016877	.0017778	.0013540	.0004573
%RSD	34.79654	55.23059	104.4315	596.0302	1439.503	235.3791
#1	.0010349	.0083911	.0020315	.0021493	.0007629	.0004123
#2	.0005019	.0035684	-.000241	-.001396	-.001464	.0005018
#3	.0007610	.0034134	.003057	.000141	.000984	-.000331

Elem	Li6707
Units	ppm
Avg	F .0165822
Stddev	.0046035
%RSD	27.76184
#1	.0155287
#2	.0216211
#3	.0125967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.131	25699.63	1889.333	1298.751	1845.979
Stddev	4.144	113.64	26.915	4.362	3.161
%RSD	.2035257	.4421779	1.424551	.3358898	.1712287
#1	2040.164	25619.72	1870.197	1296.372	1847.077
#2	2031.884	25649.46	1877.694	1296.095	1842.416
#3	2036.347	25829.72	1920.108	1303.786	1848.444

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-11 Acquired: 12/29/2024 13:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL38 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046386	-.037854	.2869788	.0646179	.0138223	65.68953	.7122060
Stddev	.0018251	.004221	.0015771	.0020358	.0031410	.26239	.0043489
%RSD	1.744164	11.15068	.5495684	3.150533	22.72424	.3994382	.6106251
#1	.1040218	-.042031	.2886989	.0624656	.0102033	65.38664	.7075792
#2	.1066922	-.033590	.2866368	.0665127	.0154244	65.84743	.7128288
#3	.1032019	-.037941	.2856008	.0648755	.0158392	65.83451	.7162099

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119575	.0060562	163.8382	.0790948	.0581470	.1873530	158.9539
Stddev	.0001487	.0000860	.4560	.0007869	.0003088	.0022697	1.0120
%RSD	1.243667	1.419178	.2782956	.9948685	.5311333	1.211459	.6366886
#1	.0118354	.0059623	163.3348	.0784120	.0585028	.1897510	157.7870
#2	.0121231	.0060756	163.9563	.0799554	.0579895	.1852381	159.4819
#3	.0119140	.0061309	164.2234	.0789170	.0579486	.1870700	159.5927

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.764447	20.09545	.1249508	-.003888	.3886329	.1394353	.5770369
Stddev	.032386	.18734	.0006724	.000318	.0163121	.0041743	.0050439
%RSD	.4171011	.9322266	.5381470	8.185110	4.197300	2.993697	.8740998
#1	7.727427	20.09083	.1256699	-.003729	.4074273	.1350475	.5797899
#2	7.778377	19.91047	.1243376	-.004254	.3781577	.1433569	.5712156
#3	7.787537	20.28506	.1248448	-.003681	.3803137	.1399016	.5801052

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.700105	3.396516	.0936840	.0028251	.8723948	10.91694	.0284744
Stddev	.167769	.012845	.0027214	.0001195	.0033507	.12051	.0018237
%RSD	6.213428	.3781953	2.904840	4.229250	.3840760	1.103891	6.404806
#1	2.620299	3.381871	.0936812	.0027225	.8687341	10.84632	.0270143
#2	2.892879	3.405876	.0909640	.0029563	.8753098	11.05609	.0305186
#3	2.587137	3.401800	.0964067	.0027965	.8731404	10.84842	.0278903

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-11 Acquired: 12/29/2024 13:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL38 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3570647	.0290824	.0490208
Stddev	.0059077	.0010483	.0016568
%RSD	1.654515	3.604449	3.379715
#1	.3589070	.0300690	.0503529
#2	.3618317	.0279818	.0495437
#3	.3504554	.0291965	.0471656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2732.144	34718.72	2632.147	1748.311	1808.485
Stddev	2.295	140.99	23.469	17.264	3.197
%RSD	.0839984	.4061010	.8916461	.9874627	.1767572
#1	2734.155	34615.94	2640.187	1732.654	1811.464
#2	2729.644	34879.45	2605.714	1766.825	1805.108
#3	2732.633	34660.77	2650.540	1745.454	1808.883

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-12 Acquired: 12/29/2024 13:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0497483	.0088059	.1953001	.0119836	-.006099	49.32492
Stddev	.0072955	.0040651	.0008353	.0039011	.002577	.55484
%RSD	14.66475	46.16318	.4277235	32.55401	42.24814	1.124873
#1	.0578335	.0080019	.1948460	.0162829	-.009070	49.95263
#2	.0477540	.0052028	.1947901	.0109987	-.004767	49.12214
#3	.0436574	.0132128	.1962641	.0086693	-.004462	48.89999

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5909520	.0081488	.0040261	F 969.2609	.0681674	.0598101
Stddev	.0065733	.0002175	.0001107	8.7461	.0002669	.0008297
%RSD	1.112325	2.668701	2.750239	.9023473	.3915952	1.387293
#1	.5980805	.0080496	.0039039	979.1643	.0678601	.0607388
#2	.5896452	.0079986	.0041199	966.0228	.0683007	.0591417
#3	.5851302	.0083982	.0040545	962.5956	.0683414	.0595499

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1546076	103.5133	6.192823	65.37028	.0964482	-.001783
Stddev	.0054577	.9504	.055010	.68028	.0013479	.000741
%RSD	3.530013	.9181159	.8882798	1.040654	1.397555	41.56897
#1	.1546702	104.5380	6.252508	66.15544	.0964312	-.002005
#2	.1491189	103.3411	6.181807	64.99829	.0951088	-.002389
#3	.1600337	102.6608	6.144156	64.95712	.0978045	-.000957

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8595886	.0791774	.4983028	4.233795	3.160369	.0949579
Stddev	.0224512	.0036231	.0020600	.174421	.004319	.0020522
%RSD	2.611860	4.575865	.4134071	4.119725	.1366612	2.161121
#1	.8855123	.0758418	.4965971	4.401564	3.156557	.0957697
#2	.8467932	.0830319	.5005915	4.246412	3.159489	.0964799
#3	.8464602	.0786585	.4977199	4.053408	3.165060	.0926240

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-12 Acquired: 12/29/2024 13:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000325	1.685669	9.771570	.0279195	.1761419	.8080709
Stddev	.000441	.008709	.134516	.0002181	.0042232	.0079510
%RSD	135.7919	.5166617	1.376604	.7813054	2.397619	.9839461
#1	.000020	1.675667	9.923030	.0279189	.1808817	.8172047
#2	-.000822	1.689764	9.725666	.0277017	.1747653	.8043087
#3	-.000173	1.691576	9.666016	.0281380	.1727789	.8026992

Elem	Li6707
Units	ppm
Avg	.0672410
Stddev	.0028676
%RSD	4.264621
#1	.0668804
#2	.0702718
#3	.0645708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.423	29716.28	2361.338	1495.325	1640.586
Stddev	2.366	84.43	28.171	8.459	2.410
%RSD	.1009401	.2841062	1.193029	.5657025	.1469111
#1	2342.572	29812.82	2330.119	1503.992	1639.084
#2	2347.090	29679.75	2369.031	1487.091	1643.366
#3	2343.608	29656.27	2384.864	1494.891	1639.307

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-13 Acquired: 12/29/2024 14:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0511684	.0074604	.1921937	.0223379	-.012578	47.11181
Stddev	.0026804	.0074308	.0011688	.0034620	.002481	.06793
%RSD	5.238335	99.60336	.6081137	15.49838	19.72403	.1441968
#1	.0508234	.0099993	.1932373	.0187511	-.015441	47.08707
#2	.0540047	.0132889	.1924129	.0226029	-.011053	47.05972
#3	.0486773	-.000907	.1909308	.0256599	-.011241	47.18865

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6525964	.0085575	.0044259	F 1379.727	.0672917	.0838395
Stddev	.0009738	.0001277	.0001468	2.936	.0006437	.0011715
%RSD	.1492164	1.491754	3.316825	.2128220	.9565841	1.397367
#1	.6535941	.0086403	.0042746	1383.102	.0678963	.0849684
#2	.6516485	.0084105	.0045677	1378.319	.0673638	.0826295
#3	.6525467	.0086219	.0044354	1377.759	.0666149	.0839206

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2773936	120.2914	9.103851	139.9246	.1279905	-.003191
Stddev	.0031190	.3356	.027875	.3317	.0013996	.000839
%RSD	1.124387	.2790169	.3061851	.2370730	1.093520	26.30443
#1	.2780492	119.9039	9.071732	139.6247	.1292294	-.003607
#2	.2801326	120.4794	9.118099	139.8682	.1282698	-.002225
#3	.2739989	120.4908	9.121722	140.2809	.1264723	-.003741

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234210	.0842246	.3812619	6.136520	3.714180	.1173798
Stddev	.013035	.0115463	.0012937	.094261	.005829	.0026186
%RSD	1.056142	13.70889	.3393242	1.536071	.1569445	2.230853
#1	1.248127	.0713971	.3827172	6.164948	3.711150	.1193646
#2	1.232216	.0937859	.3802423	6.031317	3.710489	.1183628
#3	1.222287	.0874910	.3808261	6.213296	3.720900	.1144119

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-13 Acquired: 12/29/2024 14:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001943	1.960659	9.532052	.0333385	.2985452	.8459238
Stddev	.000847	.021241	.015139	.0019480	.0006652	.0009439
%RSD	43.61888	1.083354	.1588169	5.843120	.2228125	.1115849
#1	-.002557	1.965882	9.537340	.0312671	.2978740	.8465327
#2	-.000976	1.978802	9.514979	.0351337	.2985574	.8464023
#3	-.002295	1.937294	9.543838	.0336147	.2992042	.8448365

Elem	Li6707
Units	ppm
Avg	.0829599
Stddev	.0029368
%RSD	3.539969
#1	.0844464
#2	.0848562
#3	.0795771

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2231.824	28308.66	2234.935	1429.286	1539.075
Stddev	6.688	145.52	10.174	11.957	7.380
%RSD	.2996664	.5140608	.4552358	.8365389	.4795389
#1	2228.687	28203.62	2233.295	1418.458	1537.197
#2	2239.504	28247.60	2225.680	1427.283	1547.213
#3	2227.281	28474.77	2245.829	1442.118	1532.815

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-14 Acquired: 12/29/2024 14:05:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1762978	.0146428	.2730821	.0302784	-.001277	40.26757
Stddev	.0039635	.0062731	.0039705	.0019512	.004881	.65428
%RSD	2.248174	42.84096	1.453954	6.444301	382.3463	1.624839
#1	.1807496	.0121916	.2728376	.0291295	.002689	39.51705
#2	.1731526	.0099654	.2771692	.0291744	-.006727	40.71783
#3	.1749912	.0217714	.2692395	.0325314	.000209	40.56782

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5720466	.0076997	.0043761	F 1239.332	.0679560	.1317598
Stddev	.0103603	.0001742	.0000619	20.975	.0009656	.0007990
%RSD	1.811099	2.262037	1.413702	1.692450	1.420961	.6064089
#1	.5603200	.0078433	.0044173	1215.182	.0689422	.1314931
#2	.5799599	.0077498	.0043050	1252.998	.0679134	.1311282
#3	.5758598	.0075059	.0044061	1249.817	.0670123	.1326580

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3235200	129.3482	13.54995	154.5596	.1519648	.0009783
Stddev	.0124452	2.0228	.22800	2.1223	.0005308	.0004833
%RSD	3.846801	1.563855	1.682646	1.373099	.3492953	49.40333
#1	.3129421	127.0482	13.28898	152.1841	.1519563	.0006654
#2	.3203851	130.8510	13.71046	156.2687	.1514383	.0015349
#3	.3372329	130.1453	13.65042	155.2259	.1524998	.0007345

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.384566	.0975894	.4529013	3.576662	F 11.43732	.0958519
Stddev	.006741	.0145447	.0011498	.232767	.05217	.0026422
%RSD	.4868648	14.90396	.2538668	6.507947	.4561661	2.756565
#1	1.386307	.1118404	.4541793	3.375174	11.41753	.0928452
#2	1.377125	.0981601	.4525736	3.831459	11.39793	.0978039
#3	1.390266	.0827678	.4519510	3.523352	11.49649	.0969066

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-14 Acquired: 12/29/2024 14:05:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062643	4.042001	9.037434	.0347041	.4177296	1.111795
Stddev	.0008124	.023450	.118247	.0026238	.0071106	.022526
%RSD	12.96825	.5801591	1.308410	7.560381	1.702200	2.026076
#1	.0053264	4.038887	8.903237	.0332091	.4095215	1.086021
#2	.0067150	4.020263	9.082723	.0331695	.4220118	1.127711
#3	.0067513	4.066852	9.126343	.0377337	.4216553	1.121653

Elem	Li6707
Units	ppm
Avg	.0660072
Stddev	.0048124
%RSD	7.290691
#1	.0604522
#2	.0689094
#3	.0686599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.285	29876.30	2392.720	1501.235	1562.005
Stddev	5.425	142.87	21.621	9.307	1.293
%RSD	.2306364	.4781930	.9036142	.6199411	.0827660
#1	2352.628	29819.73	2414.328	1495.410	1561.526
#2	2346.696	29770.39	2371.086	1496.327	1561.020
#3	2357.530	30038.80	2392.748	1511.969	1563.469

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-15 Acquired: 12/29/2024 14:08:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0408037	.0184141	.4169295	.0122800	-.011862	29.60411	.7122840
Stddev	.0027865	.0078509	.0023061	.0031277	.003278	.44159	.0087247
%RSD	6.829123	42.63545	.5531102	25.46956	27.63555	1.491642	1.224894
#1	.0439925	.0267231	.4144746	.0134945	-.015468	30.10241	.7223030
#2	.0388373	.0111199	.4172638	.0087273	-.011054	29.26128	.7063599
#3	.0395814	.0173993	.4190502	.0146183	-.009063	29.44865	.7081892

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054685	.0044333	628.3178	.0707620	.0512028	.1242482	80.94848
Stddev	.0001535	.0001849	9.1457	.0001872	.0007604	.0018598	1.10263
%RSD	2.807026	4.171405	1.455586	.2645568	1.485161	1.496803	1.362135
#1	.0056242	.0042585	638.5933	.0706146	.0503795	.1225649	82.16965
#2	.0053173	.0044145	621.0697	.0709726	.0518789	.1262446	80.02588
#3	.0054639	.0046269	625.2904	.0706987	.0513499	.1239351	80.64992

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.701726	210.3695	.0824350	-.000627	.8793035	.0750204	.6260731
Stddev	.095820	2.5510	.0008486	.000592	.0411853	.0048172	.0039314
%RSD	1.429785	1.212618	1.029409	94.42095	4.683855	6.421242	.6279428
#1	6.810105	213.2505	.0829758	-.001044	.9232516	.0792256	.6218241
#2	6.628247	208.3974	.0828723	.000051	.8730664	.0697645	.6295815
#3	6.666827	209.4607	.0814570	-.000889	.8415925	.0760710	.6268137

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.926966	6.333004	.0986370	.0053727	9.875478	7.848213	.0480700
Stddev	.258494	.009900	.0027122	.0003800	.029630	.104208	.0033239
%RSD	5.246509	.1563219	2.749687	7.073516	.3000359	1.327788	6.914627
#1	5.160961	6.323904	.1017687	.0050631	9.903978	7.968332	.0444627
#2	4.649489	6.331563	.0970877	.0057969	9.844834	7.782008	.0510089
#3	4.970448	6.343545	.0970545	.0052582	9.877622	7.794298	.0487383

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-15 Acquired: 12/29/2024 14:08:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4022731	.3865417	.0237392
Stddev	.0068146	.0051608	.0038819
%RSD	1.694035	1.335131	16.35251
#1	.4101186	.3924273	.0217307
#2	.3988742	.3827905	.0212729
#3	.3978264	.3844071	.0282138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2160.030	27437.14	2128.593	1377.589	1698.105
Stddev	7.812	70.39	31.919	1.582	4.711
%RSD	.3616529	.2565630	1.499549	.1148740	.2774293
#1	2164.177	27388.13	2092.259	1376.448	1701.881
#2	2151.019	27517.80	2152.117	1379.396	1692.826
#3	2164.894	27405.49	2141.405	1376.923	1699.607

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-16 Acquired: 12/29/2024 14:12:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0817407	-.011763	.7564696	.0429823	-.000323	54.66846	.8795697
Stddev	.0021367	.003460	.0003664	.0073485	.003395	.16568	.0036291
%RSD	2.613956	29.41064	.0484393	17.09655	1051.891	.3030619	.4126036
#1	.0842040	-.011580	.7568849	.0426916	-.000760	54.47741	.8754222
#2	.0806284	-.015311	.7563317	.0504718	.003269	54.75527	.8811240
#3	.0803896	-.008399	.7561921	.0357834	-.003478	54.77269	.8821628

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092053	.0158384	535.0461	.1023217	.0548158	.1921622	131.9817
Stddev	.0002004	.0000615	1.3143	.0004934	.0002926	.0100145	.5760
%RSD	2.176866	.3885471	.2456469	.4821600	.5338761	5.211464	.4364405
#1	.0093675	.0158543	533.6073	.1017533	.0551114	.2007687	131.3276
#2	.0089813	.0158905	535.3473	.1026382	.0548095	.1945474	132.4134
#3	.0092672	.0157705	536.1837	.1025737	.0545262	.1811705	132.2039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.057473	277.1827	.1499463	-.000181	.9315463	.1200824	3.200738
Stddev	.014610	1.1766	.0003503	.000645	.0186520	.0055967	.022766
%RSD	.1613017	.4244911	.2336431	356.5641	2.002263	4.660693	.7112771
#1	9.046170	275.8332	.1500568	-.000736	.9446768	.1219031	3.224582
#2	9.073970	277.7218	.1502281	-.000333	.9101962	.1138021	3.179230
#3	9.052279	277.9933	.1495541	.000527	.9397658	.1245420	3.198401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.825338	6.649202	.0953248	.0067045	12.17178	12.07158	.0629220
Stddev	.079219	.011054	.0027942	.0010368	.02835	.04036	.0021369
%RSD	1.641738	.1662468	2.931186	15.46385	.2329406	.3343273	3.396194
#1	4.843944	6.660865	.0931086	.0055074	12.19484	12.06383	.0617575
#2	4.738472	6.638879	.0984636	.0073003	12.18038	12.03566	.0653882
#3	4.893599	6.647863	.0944023	.0073059	12.14013	12.11525	.0616201

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-16 Acquired: 12/29/2024 14:12:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5774146	.2115147	.0562555
Stddev	.0080950	.0007139	.0011241
%RSD	1.401940	.3374935	1.998267
#1	.5688364	.2106930	.0556062
#2	.5849193	.2118695	.0575536
#3	.5784881	.2119817	.0556068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.872	28204.48	2186.034	1417.267	1630.004
Stddev	5.629	121.38	4.948	12.430	2.561
%RSD	.2542578	.4303537	.2263631	.8770118	.1571108
#1	2219.378	28124.14	2181.865	1403.083	1632.647
#2	2214.111	28145.19	2191.502	1422.459	1629.830
#3	2208.128	28344.10	2184.733	1426.259	1627.534

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-17 Acquired: 12/29/2024 14:16:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1695391	-.040387	1.595379	.0979402	.0225483	75.04595	1.474916
Stddev	.0071255	.004154	.004016	.0046197	.0025569	.23667	.002233
%RSD	4.202872	10.28564	.2517148	4.716845	11.33955	.3153728	.1513654
#1	.1777400	-.044301	1.599923	.0994247	.0220421	74.87676	1.472479
#2	.1660158	-.036029	1.593905	.1016351	.0253204	74.94469	1.476863
#3	.1648617	-.040832	1.592308	.0927607	.0202824	75.31641	1.475406

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134236	.0111951	100.5889	.1403368	.0590542	.2762464	179.8745
Stddev	.0001625	.0000655	.0858	.0006763	.0006871	.0066111	.2948
%RSD	1.210755	.5851306	.0853335	.4819284	1.163589	2.393198	.1638941
#1	.0133401	.0112344	100.4963	.1409941	.0592582	.2701598	179.7807
#2	.0136109	.0112315	100.6658	.1403732	.0596163	.2832800	179.6380
#3	.0133198	.0111195	100.6046	.1396430	.0582882	.2752994	180.2048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.87656	47.01231	.2358928	-.000225	.5447743	.1875961	1.074357
Stddev	.03578	.19798	.0011010	.000726	.0170459	.0063103	.001211
%RSD	.2405405	.4211340	.4667312	323.1904	3.128992	3.363747	.1127037
#1	14.83897	46.79002	.2370253	.000470	.5539280	.1832424	1.073432
#2	14.88049	47.07719	.2358267	-.000979	.5552880	.1948329	1.075727
#3	14.91021	47.16971	.2348263	-.000165	.5251070	.1847130	1.073912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.473368	7.305103	.1075747	.0091968	4.894302	13.03636	.1550390
Stddev	.151281	.007974	.0038037	.0008078	.020842	.08980	.0008571
%RSD	2.763947	.1091566	3.535853	8.783741	.4258487	.6888806	.5528400
#1	5.357080	7.314310	.1039486	.0101239	4.906721	13.12872	.1542806
#2	5.418623	7.300411	.1072415	.0088225	4.870239	12.94935	.1559689
#3	5.644400	7.300587	.1115340	.0086440	4.905945	13.03102	.1548676

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-17 Acquired: 12/29/2024 14:16:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7450982	.0215761	.0774429
Stddev	.0078821	.0003753	.0036611
%RSD	1.057857	1.739313	4.727433
#1	.7440431	.0212593	.0816680
#2	.7377968	.0219905	.0752081
#3	.7534547	.0214783	.0754526

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.726	31991.40	2434.862	1621.940	1813.526
Stddev	5.877	138.76	3.501	10.794	6.088
%RSD	.2332551	.4337468	.1438056	.6655075	.3357197
#1	2514.162	32083.60	2431.133	1632.822	1806.502
#2	2519.142	31831.81	2438.079	1611.236	1816.778
#3	2525.873	32058.78	2435.376	1621.763	1817.297

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-18 Acquired: 12/29/2024 14:20:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1263082	-.036404	.7399476	.0998346	.0234986	82.94359	1.807840
Stddev	.0015296	.001150	.0034940	.0029838	.0026461	.04078	.001699
%RSD	1.211003	3.158212	.4721895	2.988751	11.26058	.0491620	.0939860
#1	.1280657	-.036106	.7359139	.0964674	.0258252	82.93778	1.806186
#2	.1255815	-.037673	.7420303	.1008862	.0240505	82.98696	1.807753
#3	.1252775	-.035432	.7418987	.1021502	.0206201	82.90603	1.809581

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128686	.0081157	114.8085	.1223480	.0652825	.1584734	188.1100
Stddev	.0000696	.0001334	.3329	.0013545	.0002612	.0017560	.5716
%RSD	.5411021	1.643363	.2899468	1.107071	.4001356	1.108059	.3038792
#1	.0129084	.0081573	114.8997	.1215507	.0650606	.1573829	188.6010
#2	.0127882	.0079665	114.4396	.1215815	.0652166	.1604991	188.2466
#3	.0129092	.0082233	115.0864	.1239119	.0655704	.1575383	187.4825

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.25236	36.95324	.1913094	-.000881	.5100828	.1788100	.7254632
Stddev	.01955	.18292	.0008232	.000364	.0178161	.0016524	.0019536
%RSD	.1015565	.4949939	.4302923	41.27411	3.492789	.9240951	.2692954
#1	19.23196	37.12382	.1912260	-.001000	.5011649	.1777205	.7261292
#2	19.27094	36.76008	.1905311	-.000473	.4984867	.1807113	.7232636
#3	19.25418	36.97582	.1921711	-.001170	.5305969	.1779983	.7269967

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.839607	7.280306	.1006297	.0055404	3.062695	13.25157	.0801780
Stddev	.034868	.025356	.0044792	.0006316	.005796	.13368	.0019048
%RSD	.9081209	.3482788	4.451210	11.39916	.1892391	1.008788	2.375730
#1	3.816613	7.251597	.0964157	.0058994	3.058213	13.26630	.0808352
#2	3.879726	7.299634	.1053339	.0059106	3.069240	13.11113	.0816672
#3	3.822481	7.289689	.1001396	.0048112	3.060631	13.37727	.0780316

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-18 Acquired: 12/29/2024 14:20:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL45 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6225619	.0016037	.0857163
Stddev	.0028051	.0015368	.0040199
%RSD	.4505787	95.82851	4.689746
#1	.6203524	.0002312	.0849343
#2	.6257178	.0013158	.0900697
#3	.6216154	.0032642	.0821449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2570.334	32532.97	2489.149	1650.935	1810.882
Stddev	9.939	69.81	19.637	3.136	8.294
%RSD	.3866903	.2145786	.7889048	.1899566	.4580109
#1	2578.925	32457.10	2488.183	1651.747	1820.093
#2	2572.629	32594.49	2509.251	1653.586	1808.545
#3	2559.448	32547.32	2470.013	1647.473	1804.007

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-19 Acquired: 12/29/2024 14:24:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0695408	-.022829	.2460604	.0513881	.0092204	64.41671	.9203340
Stddev	.0029620	.006192	.0026841	.0039606	.0026576	.12070	.0037518
%RSD	4.259445	27.12369	1.090823	7.707163	28.82252	.1873674	.4076570
#1	.0724621	-.024394	.2453935	.0475667	.0121599	64.44078	.9201136
#2	.0665396	-.016004	.2490150	.0511229	.0085140	64.28580	.9166973
#3	.0696206	-.028087	.2437726	.0554745	.0069875	64.52357	.9241911

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105857	.0035850	521.8059	.0948279	.0607539	.1026849	152.4091
Stddev	.0000887	.0000993	1.0794	.0007903	.0016280	.0005694	.5981
%RSD	.8380730	2.770353	.2068647	.8333797	2.679693	.5544665	.3924488
#1	.0106808	.0035823	521.6781	.0956594	.0607391	.1032690	151.9318
#2	.0105710	.0034871	520.7960	.0947378	.0623893	.1026542	152.2155
#3	.0105052	.0036857	522.9435	.0940865	.0591333	.1021315	153.0801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.074040	63.49784	.1525961	-.002397	.8035346	.1418425	.3648506
Stddev	.010851	.27277	.0017470	.000445	.0273597	.0046010	.0006029
%RSD	.1786396	.4295800	1.144836	18.55648	3.404914	3.243723	.1652516
#1	6.080465	63.44001	.1545929	-.002822	.7988600	.1377792	.3650318
#2	6.061512	63.25863	.1513495	-.001935	.8329304	.1409100	.3641779
#3	6.080142	63.79490	.1518460	-.002435	.7788134	.1468383	.3653421

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.998731	5.503676	.0784487	.0017363	1.771900	12.78030	.0395197
Stddev	.028745	.011827	.0019754	.0005274	.005008	.00882	.0012851
%RSD	.9585869	.2148980	2.518106	30.37357	.2826224	.0690224	3.251881
#1	2.983385	5.491744	.0783785	.0013961	1.769584	12.78765	.0404353
#2	2.980916	5.515396	.0804584	.0014691	1.777646	12.78273	.0400731
#3	3.031893	5.503888	.0765094	.0023438	1.768469	12.77051	.0380505

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-19 Acquired: 12/29/2024 14:24:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7053397	.2846842	.0868894
Stddev	.0030797	.0006865	.0041995
%RSD	.4366216	.2411592	4.833198
#1	.7069833	.2839816	.0866638
#2	.7017869	.2847176	.0911972
#3	.7072489	.2853535	.0828072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2325.485	29485.32	2255.174	1483.754	1698.534
Stddev	5.172	23.67	4.317	3.394	4.969
%RSD	.2224038	.0802830	.1914162	.2287303	.2925374
#1	2329.276	29511.06	2255.833	1487.667	1702.397
#2	2319.593	29464.49	2250.566	1481.972	1692.928
#3	2327.584	29480.40	2259.124	1481.622	1700.276

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-20 Acquired: 12/29/2024 14:28:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0782344	-.034754	.3125316	.0618018	.0056353	73.11139
Stddev	.0041747	.002913	.0051810	.0093318	.0020687	.94062
%RSD	5.336197	8.381757	1.657748	15.09956	36.70849	1.286554
#1	.0795955	-.032472	.3070101	.0561939	.0052158	72.06739
#2	.0735490	-.038035	.3132979	.0566372	.0078816	73.89284
#3	.0815587	-.033756	.3172867	.0725742	.0038086	73.37392

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8756954	.0118009	.0047033	F 949.3930	.1023823	.0792245
Stddev	.0133151	.0000755	.0001256	9.3956	.0008243	.0004178
%RSD	1.520514	.6401888	2.670962	.9896457	.8051251	.5273066
#1	.8606647	.0117688	.0045903	938.6698	.1026658	.0796854
#2	.8860126	.0117466	.0048386	956.1821	.1030275	.0788708
#3	.8804088	.0118872	.0046810	953.3271	.1014537	.0791174

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744416	186.7112	10.30272	222.6506	.2195415	-.004601
Stddev	.0070821	2.2478	.12326	2.6219	.0005842	.000362
%RSD	4.059847	1.203901	1.196376	1.177569	.2661173	7.874631
#1	.1677801	184.2186	10.16668	219.7745	.2191836	-.004466
#2	.1736646	188.5844	10.40698	224.9074	.2192253	-.005011
#3	.1818801	187.3306	10.33451	223.2698	.2202157	-.004325

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.382308	.1635982	.6441631	7.870186	6.510786	.1253133
Stddev	.025615	.0170905	.0018013	.101821	.007269	.0032176
%RSD	1.853037	10.44664	.2796349	1.293755	.1116492	2.567646
#1	1.392292	.1438642	.6462431	7.755551	6.516357	.1227961
#2	1.401427	.1733581	.6431178	7.904883	6.513437	.1242052
#3	1.353205	.1735723	.6431285	7.950123	6.502563	.1289385

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-20 Acquired: 12/29/2024 14:28:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016715	1.617741	12.70165	.0430712	.9640291	.7500838
Stddev	.0006810	.009436	.04457	.0013840	.0129730	.0069208
%RSD	40.74374	.5832694	.3509383	3.213260	1.345704	.9226660
#1	.0010178	1.625155	12.66348	.0424927	.9514566	.7420980
#2	.0023769	1.607120	12.69083	.0420702	.9773686	.7543366
#3	.0016196	1.620948	12.75064	.0446505	.9632622	.7538168

Elem	Li6707
Units	ppm
Avg	.1276140
Stddev	.0039899
%RSD	3.126540
#1	.1234093
#2	.1280856
#3	.1313471

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.806	28880.19	2278.859	1450.178	1578.859
Stddev	3.471	115.73	7.742	2.104	2.619
%RSD	.1526675	.4007185	.3397512	.1450992	.1658934
#1	2274.561	28840.49	2287.796	1448.307	1580.198
#2	2276.838	28789.54	2274.568	1449.771	1580.538
#3	2270.020	29010.55	2274.212	1452.456	1575.841

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-21 Acquired: 12/29/2024 14:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0775159	-.037747	.3133435	.0666166	.0112412	73.57494
Stddev	.0069558	.003292	.0016913	.0052542	.0045674	.07635
%RSD	8.973377	8.720285	.5397468	7.887283	40.63094	.1037697
#1	.0800338	-.037257	.3114617	.0713244	.0060159	73.51041
#2	.0828621	-.034727	.3147365	.0609484	.0132348	73.55518
#3	.0696518	-.041256	.3138323	.0675769	.0144729	73.65922

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8770808	.0117233	.0047288	F 955.6724	.1048709	.0778625
Stddev	.0002466	.0001038	.0001510	1.0689	.0012540	.0013309
%RSD	.0281141	.8855763	3.193258	.1118495	1.195733	1.709313
#1	.8770425	.0116133	.0046741	955.6549	.1034266	.0763404
#2	.8768556	.0118196	.0048995	954.6123	.1055036	.0784403
#3	.8773443	.0117369	.0046128	956.7500	.1056826	.0788069

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1869769	188.0753	10.37772	224.1941	.2192290	-.003787
Stddev	.0026639	.1373	.02821	.5716	.0005377	.000764
%RSD	1.424738	.0729949	.2718512	.2549673	.2452640	20.17150
#1	.1853313	187.9222	10.36595	223.6493	.2191861	-.004145
#2	.1900503	188.1874	10.35731	224.1436	.2197868	-.004307
#3	.1855489	188.1162	10.40992	224.7892	.2187140	-.002910

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.400028	.1530772	.6617554	7.860841	6.522518	.1277447
Stddev	.018241	.0110473	.0015346	.113572	.009344	.0010333
%RSD	1.302927	7.216790	.2318910	1.444778	.1432516	.8088642
#1	1.402064	.1414254	.6611615	7.917280	6.521590	.1287395
#2	1.417166	.1633996	.6606065	7.730105	6.532291	.1266768
#3	1.380854	.1544067	.6634981	7.935136	6.513673	.1278179

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-21 Acquired: 12/29/2024 14:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021468	1.625742	12.65751	.0419573	.9767793	.7552829
Stddev	.0007685	.007247	.04935	.0012859	.0049737	.0008269
%RSD	35.79648	.4457845	.3898707	3.064784	.5091936	.1094847
#1	.0012616	1.626256	12.70924	.0429560	.9710552	.7557209
#2	.0026429	1.632719	12.65235	.0405064	.9792362	.7543291
#3	.0025359	1.618251	12.61095	.0424095	.9800464	.7557988

Elem	Li6707
Units	ppm
Avg	.1298807
Stddev	.0039898
%RSD	3.071918
#1	.1253127
#2	.1316466
#3	.1326828

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2278.360	28703.08	2299.015	1433.881	1581.096
Stddev	3.095	51.72	7.207	1.824	3.709
%RSD	.1358513	.1802000	.3134695	.1272260	.2346037
#1	2275.773	28643.37	2290.982	1434.918	1578.749
#2	2277.517	28731.80	2301.150	1434.951	1579.167
#3	2281.789	28734.07	2304.913	1431.775	1585.373

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 12/29/2024 14:35:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092478	.0234875	.0689264	-.015881	-.013225	16.95333	.2019843
Stddev	.0038373	.0050616	.0036425	.001992	.003873	.02555	.0015674
%RSD	41.49400	21.55033	5.284590	12.54609	29.28926	.1506946	.7759910
#1	.0049538	.0266160	.0663098	-.015961	-.017351	16.97358	.2030475
#2	.0104484	.0261987	.0730865	-.013849	-.012658	16.92463	.2027210
#3	.0123412	.0176478	.0673830	-.017832	-.009666	16.96178	.2001843

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028795	.0007458	224.8855	.0255285	.0449126	.0346705	44.83975
Stddev	.0000851	.0001420	.0547	.0005098	.0004154	.0024168	.09798
%RSD	2.954979	19.04484	.0243409	1.996796	.9248777	6.970643	.2185098
#1	.0028724	.0008117	224.8790	.0258876	.0448775	.0344108	44.73756
#2	.0029680	.0005828	224.9431	.0257528	.0445159	.0372066	44.84880
#3	.0027983	.0008428	224.8342	.0249450	.0453445	.0323941	44.93289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.469449	53.12556	.0433379	-.000849	.3516462	.0429468	.1786519
Stddev	.006716	.22734	.0004498	.000347	.0153748	.0068309	.0006659
%RSD	.2719780	.4279227	1.037898	40.87422	4.372221	15.90548	.3727521
#1	2.461898	52.86600	.0436823	-.001218	.3355326	.0351692	.1794055
#2	2.471694	53.22139	.0435024	-.000798	.3532496	.0456985	.1781426
#3	2.474756	53.28929	.0428290	-.000530	.3661565	.0479726	.1784076

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230650	1.264961	.0267322	.0021101	.3407171	3.154183	.0104881
Stddev	.117675	.002086	.0028872	.0003068	.0033430	.010222	.0017611
%RSD	9.562048	.1648966	10.80033	14.53737	.9811540	.3240764	16.79129
#1	1.204452	1.266411	.0298338	.0024034	.3368589	3.149238	.0091149
#2	1.128282	1.265903	.0262401	.0021356	.3425397	3.165938	.0124737
#3	1.359217	1.262571	.0241227	.0017915	.3427527	3.147374	.0098758

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 12/29/2024 14:35:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2351703	.1740724	.0221481
Stddev	.0053266	.0006197	.0021449
%RSD	2.264977	.3559845	9.684401
#1	.2326251	.1735034	.0196715
#2	.2412920	.1739812	.0234094
#3	.2315938	.1747326	.0233633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2081.207	26429.06	2016.952	1334.732	1742.859
Stddev	4.685	131.39	5.275	11.230	6.115
%RSD	.2250980	.4971328	.2615454	.8413842	.3508546
#1	2084.084	26292.62	2013.193	1324.227	1748.873
#2	2083.736	26439.84	2014.680	1333.400	1743.056
#3	2075.802	26554.73	2022.983	1346.568	1736.648

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-22 Acquired: 12/29/2024 14:39:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1573522	.0446435	.3474021	.2262735	.1788207	76.47766
Stddev	.0057262	.0054556	.0034828	.0018023	.0041102	.21817
%RSD	3.639094	12.22037	1.002534	.7965237	2.298498	.2852733
#1	.1537314	.0483789	.3482326	.2248113	.1753157	76.72957
#2	.1543713	.0471688	.3435791	.2282871	.1833444	76.35413
#3	.1639539	.0383827	.3503946	.2257222	.1778019	76.34929

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.393443	.0988347	.1050893	F 948.8755	.4572576	1.101779
Stddev	.006944	.0001996	.0001578	1.5059	.0000218	.001929
%RSD	.1580596	.2019110	.1501621	.1587069	.0047615	.1750444
#1	4.401411	.0990317	.1052534	947.1874	.4572821	1.100800
#2	4.390237	.0988397	.1049387	950.0811	.4572502	1.100537
#3	4.388681	.0986327	.1050758	949.3579	.4572405	1.104001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5753239	188.1361	11.10089	222.2246	1.234222	.0634325
Stddev	.0079693	.3536	.01777	.3102	.000811	.0007242
%RSD	1.385187	.1879665	.1601092	.1395916	.0657375	1.141683
#1	.5731468	188.4900	11.11160	222.5036	1.235059	.0625966
#2	.5841555	188.1356	11.11069	222.2797	1.234170	.0638714
#3	.5686694	187.7827	11.08037	221.8906	1.233439	.0638295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494748	1.036053	1.622182	7.770983	6.478050	.1205584
Stddev	.012244	.011542	.006594	.128913	.002460	.0034856
%RSD	.8191386	1.114033	.4065203	1.658904	.0379754	2.891201
#1	1.507007	1.026732	1.628761	7.892959	6.477821	.1193950
#2	1.482519	1.048963	1.615572	7.783886	6.480616	.1244770
#3	1.494718	1.032462	1.622214	7.636103	6.475712	.1178034

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-22 Acquired: 12/29/2024 14:39:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012726	1.657923	12.58981	.0437888	.9652253	.7474165
Stddev	.0003759	.002642	.04273	.0015369	.0038310	.0019084
%RSD	29.54051	.1593522	.3394002	3.509681	.3969067	.2553386
#1	.0009592	1.659871	12.62451	.0443766	.9665600	.7459255
#2	.0011691	1.654916	12.54208	.0420448	.9609055	.7467566
#3	.0016894	1.658982	12.60283	.0449450	.9682106	.7495673

Elem	Li6707
Units	ppm
Avg	.1309144
Stddev	.0024191
%RSD	1.847834
#1	.1284369
#2	.1310360
#3	.1332705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2267.002	28943.27	2294.972	1450.610	1575.366
Stddev	10.178	108.30	6.672	8.507	7.152
%RSD	.4489689	.3741732	.2907191	.5864735	.4539866
#1	2274.107	28858.04	2287.352	1440.787	1580.959
#2	2271.558	28906.65	2297.794	1455.609	1577.831
#3	2255.342	29065.14	2299.768	1455.434	1567.308

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5090-12A Acquired: 12/29/2024 14:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7482044	-.097013	2.121333	.4657746	.0576704	66.58197
Stddev	.0048627	.008194	.004892	.0039256	.0035457	.50346
%RSD	.6499194	8.446452	.2305943	.8428156	6.148161	.7561475
#1	.7523328	-.103723	2.126844	.4658184	.0617449	67.11901
#2	.7428442	-.099435	2.119651	.4696782	.0559808	66.50623
#3	.7494361	-.087881	2.117504	.4618273	.0552855	66.12067

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.842029	.0212973	.0099585	258.3634	.1218416	.0267974
Stddev	.028786	.0001203	.0001109	1.7372	.0002676	.0003137
%RSD	.7492418	.5647943	1.113961	.6723729	.2196326	1.170624
#1	3.865293	.0213622	.0100438	260.3237	.1221038	.0264751
#2	3.850957	.0213713	.0099987	257.7517	.1215689	.0268154
#3	3.809837	.0211585	.0098331	257.0148	.1218522	.0271017

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146564	372.5494	9.008463	43.39898	.2669461	-.004203
Stddev	.002832	2.3368	.050595	.40410	.0007219	.000098
%RSD	.2469710	.6272473	.5616372	.9311332	.2704404	2.322140
#1	1.144646	374.7900	9.058180	43.82985	.2676432	-.004162
#2	1.145230	372.7314	9.010176	43.33868	.2662016	-.004315
#3	1.149816	370.1270	8.957034	43.02842	.2669935	-.004133

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8390744	.1833908	3.809480	9.063208	F 15.97092	.1914378
Stddev	.0183134	.0056202	.013406	.112141	.02453	.0022262
%RSD	2.182578	3.064599	.3519216	1.237321	.1536030	1.162871
#1	.8577831	.1898464	3.820219	9.154748	15.99478	.1897054
#2	.8382564	.1795880	3.813766	9.096753	15.94577	.1906594
#3	.8211836	.1807379	3.794455	8.938122	15.97220	.1939487

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5090-12A Acquired: 12/29/2024 14:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060691	2.855836	8.165682	.1550968	.9878128	-.027708
Stddev	.0003183	.006201	.081241	.0013493	.0130495	.000840
%RSD	5.244594	.2171459	.9949026	.8699515	1.321047	3.032982
#1	.0057395	2.848902	8.248668	.1541676	.9941390	-.026894
#2	.0063747	2.857755	8.162072	.1566445	.9964934	-.028572
#3	.0060933	2.860851	8.086308	.1544784	.9728060	-.027658

Elem	Li6707
Units	ppm
Avg	.0881515
Stddev	.0014191
%RSD	1.609795
#1	.0870161
#2	.0897424
#3	.0876962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.084	31671.23	2423.645	1586.996	1781.995
Stddev	10.142	119.68	28.177	7.526	5.490
%RSD	.4081143	.3778703	1.162572	.4742398	.3080851
#1	2496.427	31709.75	2398.547	1587.547	1788.181
#2	2476.891	31537.04	2418.265	1579.209	1777.702
#3	2481.935	31766.90	2454.124	1594.231	1780.103

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5063-07A Acquired: 12/29/2024 14:47:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0519343	.0043603	.1589740	.0882699	.0925522	47.82329	.4926528
Stddev	.0053960	.0015559	.0051252	.0029268	.0066470	.25298	.0017272
%RSD	10.38995	35.68281	3.223902	3.315706	7.181867	.5289984	.3505880
#1	.0518889	.0043403	.1585270	.0874429	.0848912	48.02988	.4946468
#2	.0573529	.0028145	.1540869	.0858456	.0959781	47.54113	.4916920
#3	.0465612	.0059261	.1643080	.0915212	.0967874	47.89887	.4916197

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076522	.0031096	597.6018	.0732481	.0700655	.4893387	117.6200
Stddev	.0001118	.0001161	1.9835	.0002556	.0010917	.0024627	.4823
%RSD	1.460974	3.733691	.3319156	.3489269	1.558072	.5032689	.4100562
#1	.0077811	.0031930	599.0502	.0732783	.0697276	.4920962	118.1668
#2	.0075815	.0029770	595.3411	.0729788	.0691827	.4873584	117.2548
#3	.0075940	.0031588	598.4142	.0734873	.0712862	.4885615	117.4385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.042419	92.14864	.1160811	.0140592	.9763894	.1040379	.9975554
Stddev	.030089	.05546	.0009023	.0010843	.0137738	.0070697	.0062602
%RSD	.3327582	.0601891	.7773048	7.712369	1.410691	6.795305	.6275562
#1	9.074729	92.12317	.1162070	.0128578	.9841989	.1121849	1.001707
#2	9.015199	92.11049	.1151224	.0143547	.9604855	.1004114	1.000604
#3	9.037329	92.21226	.1169138	.0149651	.9844836	.0995173	.990355

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.078678	4.984644	.0845446	.0021054	1.276959	10.63542	.0309999
Stddev	.155899	.025348	.0009900	.0003116	.006734	.08545	.0017301
%RSD	3.069672	.5085215	1.171026	14.79859	.5273499	.8034079	5.580926
#1	5.257574	4.979625	.0835604	.0018116	1.270755	10.72435	.0324816
#2	5.006598	4.962181	.0845330	.0020725	1.284121	10.55394	.0314196
#3	4.971863	5.012126	.0855404	.0024321	1.276001	10.62797	.0290986

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5063-07A Acquired: 12/29/2024 14:47:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6057862	.3249609	.0689929
Stddev	.0130443	.0009787	.0009371
%RSD	2.153287	.3011657	1.358232
#1	.5908341	.3253844	.0684913
#2	.6148368	.3238417	.0684135
#3	.6116877	.3256564	.0700741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2378.599	30021.58	2347.703	1500.333	1669.803
Stddev	5.739	63.90	15.322	5.453	3.078
%RSD	.2412701	.2128317	.6526584	.3634658	.1843245
#1	2384.606	30061.97	2334.641	1495.486	1672.445
#2	2378.019	30054.86	2364.569	1499.276	1670.541
#3	2373.172	29947.92	2343.900	1506.238	1666.423

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5084-13A Acquired: 12/29/2024 14:51:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106085	.0116627	.8848142	.1661811	.1011541	75.89065	.9183421
Stddev	.0053949	.0061631	.0064245	.0091809	.0017297	.15668	.0036287
%RSD	4.877498	52.84488	.7260836	5.524630	1.709948	.2064596	.3951367
#1	.1158043	.0161959	.8848528	.1739155	.1000341	75.90542	.9201888
#2	.1050344	.0046451	.8783705	.1685926	.1002820	76.03942	.9206761
#3	.1109867	.0141471	.8912193	.1560351	.1031463	75.72710	.9141615

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117054	.0058345	266.6812	.1476285	.0766335	.3262082	167.8894
Stddev	.0002630	.0002108	.7779	.0001888	.0009105	.0085340	.4182
%RSD	2.246420	3.612888	.2917025	.1279100	1.188096	2.616110	.2490772
#1	.0115690	.0056533	266.5613	.1477991	.0768446	.3218889	167.6313
#2	.0120085	.0060659	267.5121	.1474256	.0756360	.3206975	168.3718
#3	.0115386	.0057844	265.9701	.1476607	.0774199	.3360384	167.6650

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.164210	62.24695	.1830466	.0109163	.5651628	.1722249	.7617315
Stddev	.028303	.19324	.0002504	.0002408	.0076641	.0104138	.0024019
%RSD	.3466728	.3104405	.1367860	2.206266	1.356093	6.046617	.3153270
#1	8.182337	62.13471	.1832745	.0109468	.5740021	.1653168	.7629582
#2	8.178698	62.47009	.1827786	.0106616	.5611153	.1671552	.7632723
#3	8.131597	62.13607	.1830866	.0111403	.5603709	.1842028	.7589639

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.405251	7.605701	.0937210	.0052935	1.243162	10.05092	.1018622
Stddev	.068148	.023730	.0034883	.0008773	.015911	.07521	.0027557
%RSD	1.063940	.3120089	3.721977	16.57307	1.279861	.7482595	2.705275
#1	6.408314	7.584484	.0903428	.0062950	1.233594	9.99367	.1002287
#2	6.335623	7.601293	.0935104	.0049244	1.234362	10.13610	.1003142
#3	6.471816	7.631326	.0973098	.0046610	1.261528	10.02300	.1050438

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5084-13A Acquired: 12/29/2024 14:51:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7756781	.1540985	.0912802
Stddev	.0036341	.0007878	.0008922
%RSD	.4685075	.5112420	.9774364
#1	.7794735	.1534500	.0911147
#2	.7722302	.1538702	.0922435
#3	.7753306	.1549752	.0904823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2520.648	32054.08	2492.713	1612.243	1748.112
Stddev	8.961	108.06	13.967	2.741	5.885
%RSD	.3554895	.3371317	.5602999	.1699876	.3366244
#1	2510.722	31987.59	2499.288	1609.363	1741.339
#2	2523.081	32178.77	2476.672	1614.818	1751.025
#3	2528.141	31995.88	2502.178	1612.547	1751.972

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5091-07A Acquired: 12/29/2024 14:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1563254	-.015196	2.773560	.2495446	.0266792	75.68661
Stddev	.0018049	.004205	.003599	.0041246	.0031338	.37539
%RSD	1.154595	27.67060	.1297778	1.652831	11.74628	.4959854
#1	.1560185	-.010859	2.773280	.2452564	.0274421	75.37011
#2	.1582641	-.019255	2.777291	.2534833	.0232344	75.58835
#3	.1546936	-.015474	2.770109	.2498940	.0293612	76.10136

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.219705	.0151057	.0236713	191.8499	.1488807	.0528406
Stddev	.016639	.0001070	.0001076	.7641	.0012291	.0004666
%RSD	.7495844	.7080585	.4546398	.3982933	.8255794	.8829499
#1	2.206563	.0151058	.0237833	191.4975	.1501565	.0531009
#2	2.214140	.0149987	.0235687	191.3256	.1477043	.0531190
#3	2.238413	.0152126	.0236619	192.7267	.1487814	.0523020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3213014	219.1432	9.872336	42.48889	.2225487	.0132782
Stddev	.0023859	1.1561	.053770	.32503	.0018036	.0005749
%RSD	.7425648	.5275401	.5446576	.7649721	.8104367	4.329693
#1	.3237775	218.3173	9.824420	42.45883	.2244247	.0126205
#2	.3211092	218.6478	9.862099	42.17993	.2223940	.0136847
#3	.3190174	220.4644	9.930489	42.82790	.2208275	.0135295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6319976	.1871687	5.374306	11.16825	F 26.66695	.1234402
Stddev	.0145817	.0076167	.014959	.11642	.03052	.0014573
%RSD	2.307237	4.069433	.2783417	1.042408	.1144658	1.180547
#1	.6253534	.1958988	5.363770	11.03790	26.65701	.1220463
#2	.6487181	.1818800	5.367719	11.26189	26.64264	.1233207
#3	.6219213	.1837273	5.391428	11.20497	26.70121	.1249535

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5091-07A Acquired: 12/29/2024 14:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100702	4.700652	8.622999	.1352173	.7489119	.1464977
Stddev	.0010406	.025525	.022509	.0026191	.0064544	.0009592
%RSD	10.33341	.5430086	.2610332	1.936978	.8618310	.6547839
#1	.0109567	4.705268	8.634296	.1381135	.7452825	.1469373
#2	.0089245	4.673134	8.597079	.1345235	.7450893	.1453974
#3	.0103295	4.723554	8.637623	.1330149	.7563639	.1471583

Elem	Li6707
Units	ppm
Avg	.0987699
Stddev	.0015917
%RSD	1.611568
#1	.0970179
#2	.1001270
#3	.0991648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.869	32018.93	2495.114	1620.603	1769.846
Stddev	5.016	53.66	4.930	4.635	4.160
%RSD	.1978163	.1675754	.1975736	.2859859	.2350756
#1	2534.631	31957.60	2490.438	1623.180	1769.038
#2	2531.588	32042.02	2500.263	1623.376	1766.149
#3	2541.389	32057.18	2494.640	1615.252	1774.352

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5086-07A Acquired: 12/29/2024 14:58:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865731	-.018166	.2201254	.2003282	.1088387	73.64460	.5929245
Stddev	.0074972	.004860	.0028608	.0066805	.0008403	.31926	.0005517
%RSD	8.660013	26.75319	1.299641	3.334779	.7720848	.4335178	.0930466
#1	.0851688	-.016722	.2199900	.1950335	.1098063	73.27900	.5934476
#2	.0798774	-.023584	.2173346	.2078339	.1082914	73.78635	.5929779
#3	.0946733	-.014191	.2230515	.1981172	.1084185	73.86844	.5923481

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253536	.0033484	249.1310	.1295266	.0566135	.4493850	208.3362
Stddev	.0001707	.0000576	1.0597	.0012771	.0006258	.0062189	.5726
%RSD	.6733478	1.720659	.4253406	.9859399	1.105347	1.383865	.2748533
#1	.0253515	.0033267	247.9453	.1294511	.0572493	.4486312	207.6965
#2	.0251840	.0034138	249.4621	.1308398	.0559982	.4559465	208.8007
#3	.0255254	.0033048	249.9855	.1282890	.0565929	.4435774	208.5114

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.147805	78.68746	.1934038	.0116224	.7144769	.1825265	1.368802
Stddev	.014229	.51444	.0007426	.0011717	.0115886	.0130267	.005873
%RSD	.3430565	.6537793	.3839463	10.08150	1.621969	7.136891	.4290312
#1	4.132700	78.14037	.1941245	.0110669	.7215464	.1795328	1.362118
#2	4.160957	79.16143	.1934458	.0129685	.7207814	.1967895	1.371158
#3	4.149757	78.76058	.1926411	.0108317	.7011028	.1712572	1.373132

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.70183	8.432399	.1220166	.0022396	.7515406	9.335412	.0263091
Stddev	.09060	.019809	.0011968	.0008459	.0029390	.010109	.0028578
%RSD	.8465447	.2349123	.9808795	37.76956	.3910652	.1082826	10.86243
#1	10.59733	8.439601	.1220965	.0030161	.7532089	9.336289	.0232086
#2	10.75003	8.409996	.1207818	.0013382	.7532657	9.345054	.0268811
#3	10.75814	8.447598	.1231715	.0023644	.7481471	9.324894	.0288377

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5086-07A Acquired: 12/29/2024 14:58:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9801603	.0189684	.1042786
Stddev	.0029120	.0002300	.0017600
%RSD	.2970966	1.212511	1.687819
#1	.9779350	.0191043	.1036027
#2	.9790898	.0187028	.1062764
#3	.9834560	.0190980	.1029567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2561.310	32491.52	2540.682	1628.658	1764.152
Stddev	3.203	63.25	4.586	7.594	3.993
%RSD	.1250626	.1946540	.1804936	.4662457	.2263387
#1	2562.089	32423.45	2536.450	1635.874	1762.517
#2	2564.052	32502.66	2540.041	1629.364	1768.703
#3	2557.789	32548.46	2545.554	1620.736	1761.236

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5089-01A Acquired: 12/29/2024 15:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6143939	-.010037	1.631049	.1890944	.1116075	71.48615
Stddev	.0036927	.006091	.004036	.0066033	.0056254	1.75397
%RSD	.6010330	60.68756	.2474657	3.492042	5.040369	2.453581
#1	.6120908	-.016924	1.627612	.1918552	.1111748	72.04511
#2	.6186532	-.007833	1.630042	.1815588	.1062108	69.52082
#3	.6124378	-.005355	1.635494	.1938692	.1174367	72.89252

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.449383	.0117914	.0071671	39.44354	.1704611	.0806135
Stddev	.032006	.0001663	.0001662	.85991	.0004279	.0020619
%RSD	2.208234	1.410225	2.318352	2.180109	.2510195	2.557817
#1	1.459768	.0119759	.0071533	39.75320	.1708594	.0790054
#2	1.413475	.0116530	.0073398	38.47169	.1705152	.0829381
#3	1.474908	.0117454	.0070083	40.10574	.1700088	.0798970

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7970199	149.7355	8.483049	20.44949	.2028421	.0136241
Stddev	.0123784	3.5016	.186254	.56980	.0003069	.0006022
%RSD	1.553084	2.338505	2.195607	2.786364	.1513175	4.419868
#1	.7978307	151.1114	8.548852	20.78053	.2027962	.0133460
#2	.7842560	145.7550	8.272826	19.79155	.2025608	.0132113
#3	.8089730	152.3402	8.627471	20.77639	.2031694	.0143151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4227603	.1920867	2.497116	7.906988	F 13.01580	.0776889
Stddev	.0219683	.0079381	.005583	.234680	.04709	.0032463
%RSD	5.196395	4.132546	.2235805	2.968011	.3618172	4.178601
#1	.4011780	.1832482	2.500352	8.035758	12.97594	.0785490
#2	.4450953	.1944029	2.500327	7.636112	13.00369	.0740992
#3	.4220077	.1986091	2.490669	8.049094	13.06776	.0804185

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5089-01A Acquired: 12/29/2024 15:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148294	4.540636	8.656840	.0572546	1.068605	.1398781
Stddev	.0005031	.018150	.217376	.0014212	.025433	.0032903
%RSD	3.392494	.3997200	2.511031	2.482198	2.380021	2.352259
#1	.0154070	4.527408	8.746300	.0578816	1.076527	.1405332
#2	.0144869	4.533172	8.409009	.0556278	1.040153	.1363095
#3	.0145943	4.561328	8.815211	.0582545	1.089134	.1427915

Elem	Li6707
Units	ppm
Avg	.0671764
Stddev	.0046948
%RSD	6.988757
#1	.0699651
#2	.0617561
#3	.0698081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2469.939	31291.88	2397.246	1575.725	1825.307
Stddev	4.486	118.97	55.118	8.907	1.617
%RSD	.1816137	.3801980	2.299203	.5652855	.0885642
#1	2468.905	31292.98	2379.045	1570.833	1826.034
#2	2474.851	31172.36	2459.162	1570.336	1826.432
#3	2466.060	31410.30	2353.530	1586.006	1823.454

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5083-03A Acquired: 12/29/2024 15:06:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1385777	-.012461	2.487664	.1858050	.0253545	73.12727
Stddev	.0033771	.001043	.009315	.0058930	.0024154	.27910
%RSD	2.436953	8.367126	.3744439	3.171610	9.526504	.3816699
#1	.1347107	-.012547	2.495920	.1805836	.0280922	72.98519
#2	.1409461	-.013458	2.477565	.1846368	.0235241	72.94779
#3	.1400765	-.011378	2.489506	.1921946	.0244474	73.44883

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.516747	.0123416	.0085758	80.24768	.2191616	.0442363
Stddev	.009238	.0001281	.0001512	.23530	.0005667	.0004617
%RSD	.6090868	1.038078	1.763617	.2932137	.2585938	1.043630
#1	1.513209	.0121940	.0086718	80.12539	.2189608	.0447392
#2	1.509800	.0124059	.0086540	80.09872	.2187225	.0438317
#3	1.527231	.0124247	.0084014	80.51895	.2198014	.0441380

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2985752	172.2956	6.276718	32.22240	.1972611	.0142581
Stddev	.0093150	.7981	.023566	.22039	.0008892	.0011448
%RSD	3.119799	.4632252	.3754577	.6839656	.4507585	8.028922
#1	.3005752	171.7830	6.261443	32.14371	.1982648	.0144899
#2	.2884227	171.8885	6.264851	32.05216	.1965719	.0130152
#3	.3067277	173.2151	6.303859	32.47134	.1969466	.0152693

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4653500	.1941312	2.264407	6.889711	F 13.37925	.1020821
Stddev	.0180540	.0143647	.022542	.108042	.03006	.0020693
%RSD	3.879668	7.399492	.9954929	1.568158	.2246835	2.027088
#1	.4552189	.1789630	2.287395	6.838566	13.38815	.1005712
#2	.4861943	.2075281	2.242339	6.816738	13.34574	.1012346
#3	.4546368	.1959026	2.263487	7.013828	13.40385	.1044407

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5083-03A Acquired: 12/29/2024 15:06:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063168	2.452445	8.762382	.1377136	.8774394	.0289534
Stddev	.0004459	.017371	.030103	.0028919	.0057209	.0008420
%RSD	7.058731	.7083013	.3435433	2.099942	.6520013	2.908068
#1	.0067023	2.445560	8.780400	.1401199	.8754176	.0291777
#2	.0058285	2.439572	8.727631	.1345054	.8730039	.0296605
#3	.0064196	2.472203	8.779116	.1385157	.8838966	.0280220

Elem	Li6707
Units	ppm
Avg	.0890806
Stddev	.0028187
%RSD	3.164223
#1	.0913224
#2	.0859162
#3	.0900031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.444	32677.89	2495.124	1652.281	1820.139
Stddev	8.356	69.29	3.268	10.459	7.426
%RSD	.3229554	.2120386	.1309791	.6330045	.4079697
#1	2579.425	32755.24	2498.308	1641.220	1814.263
#2	2596.101	32656.96	2491.778	1662.010	1828.485
#3	2586.806	32621.49	2495.286	1653.614	1817.668

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV042 Acquired: 12/29/2024 15:10:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV042 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.090020	4.807838	24.71948	5.135367	5.066547	410.1758	10.29799
Stddev	.029011	.018462	.10910	.028833	.029267	1.6829	.04398
%RSD	.5699612	.3839908	.4413379	.5614679	.5776582	.4102844	.4270992
#1	5.056564	4.791206	24.62946	5.113290	5.048414	411.5610	10.33825
#2	5.108223	4.827702	24.84081	5.167988	5.100311	410.6634	10.30467
#3	5.105272	4.804606	24.68816	5.124822	5.050915	408.3030	10.25105

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5107891	2.501004	405.2529	15.33546	2.418587	14.80594	406.6695
Stddev	.0026980	.011399	1.4368	.01571	.011666	.04938	1.5710
%RSD	.5282105	.4557677	.3545423	.1024369	.4823654	.3335374	.3863152
#1	.5123104	2.493257	406.6587	15.35351	2.411373	14.83030	408.1878
#2	.5123828	2.514093	405.3131	15.32492	2.432046	14.83840	406.7702
#3	.5076739	2.495663	403.7870	15.32794	2.412341	14.74910	405.0506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.68733	401.2110	2.519926	1.267237	419.4469	2.480565	15.20779
Stddev	.04900	1.6274	.011016	.001630	2.1343	.017196	.07684
%RSD	.3336365	.4056220	.4371428	.1285891	.5088255	.6932196	.5052739
#1	14.73121	402.4857	2.514056	1.266526	419.5178	2.497356	15.17161
#2	14.69634	401.7694	2.532634	1.269101	421.5449	2.481349	15.29604
#3	14.63445	399.3779	2.513088	1.266084	417.2781	2.462991	15.15571

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.0623	5.022297	4.974374	5.031421	5.145387	4.814200	5.013641
Stddev	.5504	.017467	.031731	.030484	.019080	.024758	.023538
%RSD	.3667649	.3477804	.6378905	.6058664	.3708116	.5142722	.4694787
#1	149.9504	5.005812	5.003812	5.020170	5.134527	4.835775	4.992613
#2	150.6600	5.040603	4.978546	5.065931	5.167418	4.819656	5.039068
#3	149.5765	5.020477	4.940763	5.008162	5.134216	4.787169	5.009240

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV042 Acquired: 12/29/2024 15:10:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV042 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.044952	4.670210	5.137119
Stddev	.024247	.013418	.010926
%RSD	.4806097	.2873056	.2126918
#1	5.068708	4.671110	5.148964
#2	5.045905	4.683156	5.134957
#3	5.020243	4.656365	5.127435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.725	23578.20	1916.660	1138.151	1537.161
Stddev	10.986	35.67	12.611	6.156	5.798
%RSD	.6080867	.1512863	.6579795	.5408608	.3772034
#1	1802.461	23544.56	1908.070	1139.476	1535.624
#2	1798.511	23574.44	1910.771	1131.441	1532.286
#3	1819.205	23615.60	1931.138	1143.537	1543.573

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB042 Acquired: 12/29/2024 15:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB042 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002390	-.001376	.0015866	.0009529	-.001983	.0235569	-.001825
Stddev	.005665	.002815	.0009105	.0062868	.003624	.0071187	.001312
%RSD	237.0132	204.5625	57.38974	659.7395	182.7133	30.21897	71.88299
#1	.001805	-.000440	.0018184	.0059107	-.003610	.0154589	-.003187
#2	-.008834	.000852	.0023588	.0030663	.002169	.0263843	-.001716
#3	-.000141	-.004540	.0005825	-.006118	-.004509	.0288276	-.000571

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000330	-.000009	-.063369	.0005909	-.000001	-.006092	.0361883
Stddev	.0001803	.000042	.025210	.0005956	.000064	.003146	.0391295
%RSD	546.1321	476.5195	39.78346	100.8013	5667.294	51.64041	108.1275
#1	.0001577	.000034	-.036008	.0003443	.000058	-.009596	.0790295
#2	.0001151	-.000012	-.085658	.0012702	.000007	-.005170	.0023340
#3	-.000174	-.000049	-.068440	.0001582	-.000068	-.003510	.0272016

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016971	-.014885	-.000242	.0001312	.0137558	-.001935	.0016951
Stddev	.0009069	.113480	.000249	.0021491	.0078256	.009994	.0005117
%RSD	53.43709	762.3970	102.7556	1637.765	56.88969	516.4043	30.18706
#1	.0018384	.106160	-.000486	-.002277	.0153530	.005276	.0014521
#2	.0025251	-.118868	.000011	.001853	.0052548	.002262	.0022830
#3	.0007279	-.031946	-.000252	.000818	.0206597	-.013344	.0013501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.634322	.0025813	.0086768	.0001695	.0031886	.0002454	-.000252
Stddev	.123152	.0011067	.0009902	.0002445	.0045971	.0001079	.000711
%RSD	19.41472	42.87507	11.41241	144.2669	144.1745	43.96872	281.7365
#1	-.533891	.0019567	.0098118	.0003411	.0014717	.0001839	-.000563
#2	-.771724	.0019280	.0082290	.0002779	-.000303	.0003700	-.000755
#3	-.597350	.0038591	.0079896	-.000110	.008397	.0001823	.000561

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB042 Acquired: 12/29/2024 15:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB042 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0037700	.0003237	.0017397
Stddev	.0029819	.0001641	.0046890
%RSD	79.09565	50.68346	269.5373
#1	.0052052	.0001549	-.003587
#2	.0003419	.0004826	.003564
#3	.0057630	.0003337	.005243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2067.723	26083.92	2008.492	1315.678	1869.303
Stddev	3.560	202.42	24.552	16.631	4.988
%RSD	.1721803	.7760466	1.222420	1.264097	.2668313
#1	2063.956	26122.06	2003.423	1323.356	1863.726
#2	2071.032	25865.14	2035.183	1296.594	1873.339
#3	2068.180	26264.56	1986.869	1327.083	1870.843

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Prep Standard - Chemical Standard Summary

Order ID : P5063

Test : Metals CLP Full

Prepbatch ID : PB165507,

Sequence ID/Qc Batch ID: LB134069,LB134116,

Standard ID :
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP83510,MP83511,MP83512,MP83513,MP83514,MP83726,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M6028,M6030,M6121,M6125,M6126,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83498	12/09/2024	01/31/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83502	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83504	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83508	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/06/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83512	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83514	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3559	SE 100PPM	MP83726	12/18/2024	01/06/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/20/2024

FROM 1.00000ml of M5962 + 9.00000ml of MP83500 = Final Quantity: 10.000 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 #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	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 #
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	01/31/2025	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.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

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	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

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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.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

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.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

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

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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.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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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Fax : 908 789 8922

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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 #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/03/2024 / kareem	06/11/2024 / kareem	M5960

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

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.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

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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.	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 #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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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-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Selenium, Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

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ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

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**

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 12, 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

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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

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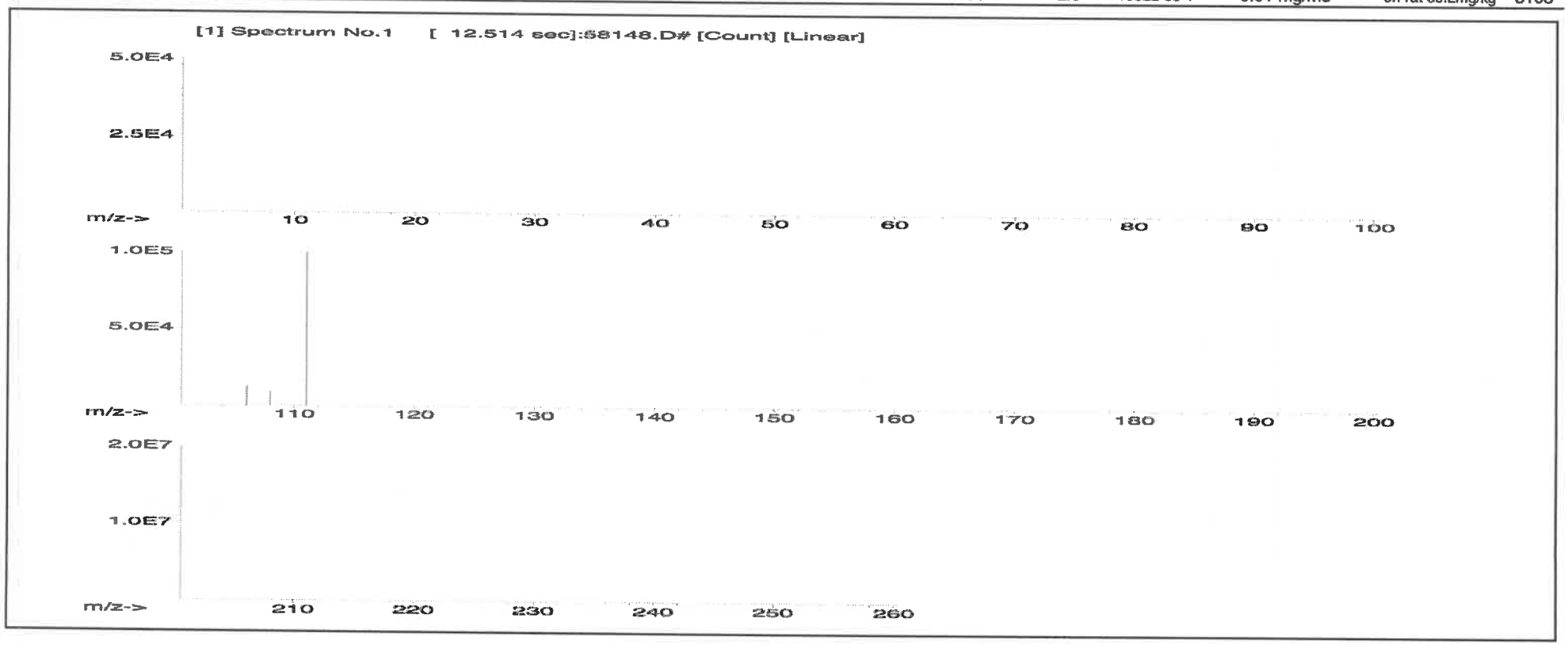
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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:	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

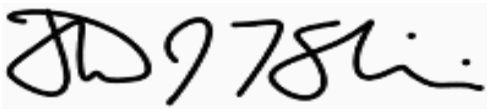
- Sealed TCT Bag Open Date: _____

- 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.

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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

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

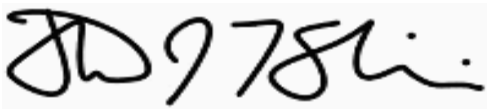
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

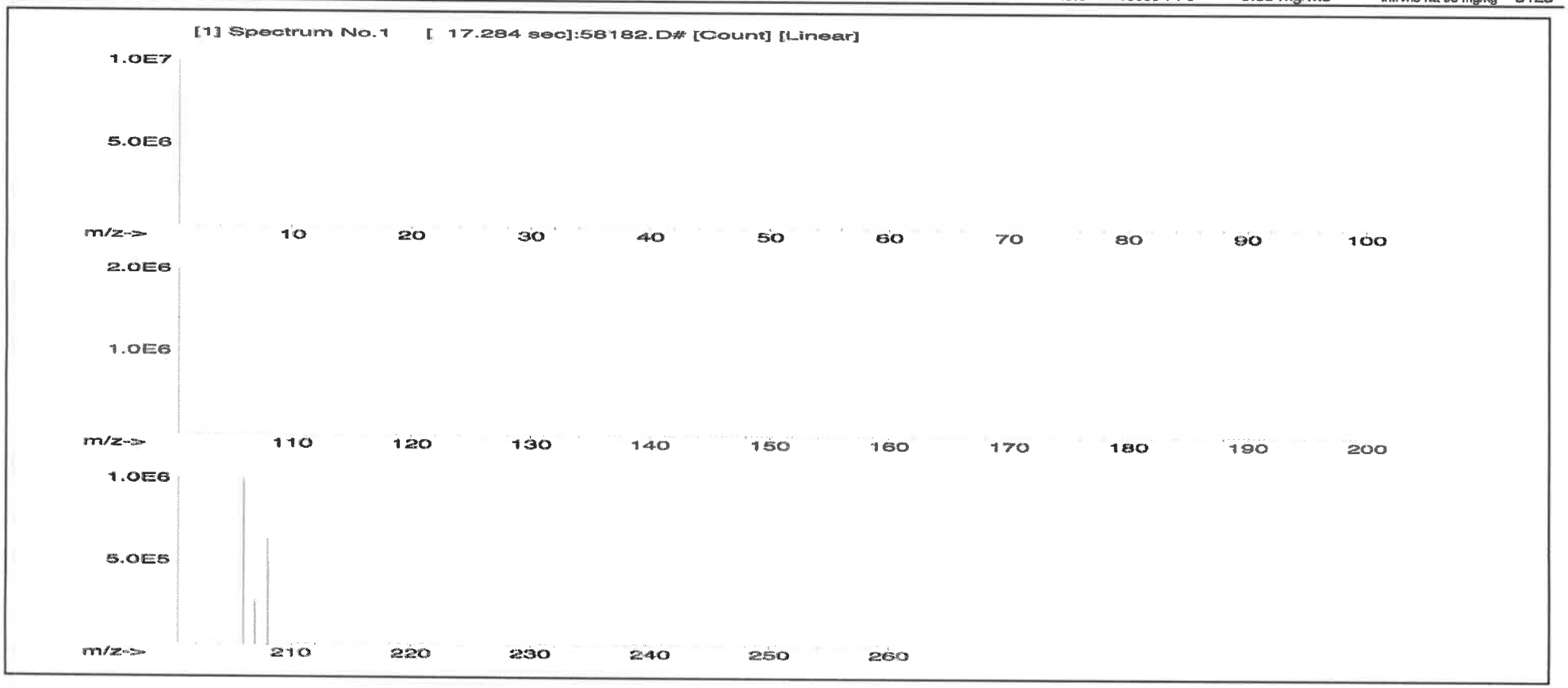
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

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	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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.

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 BH

Certified Reference Material CRM

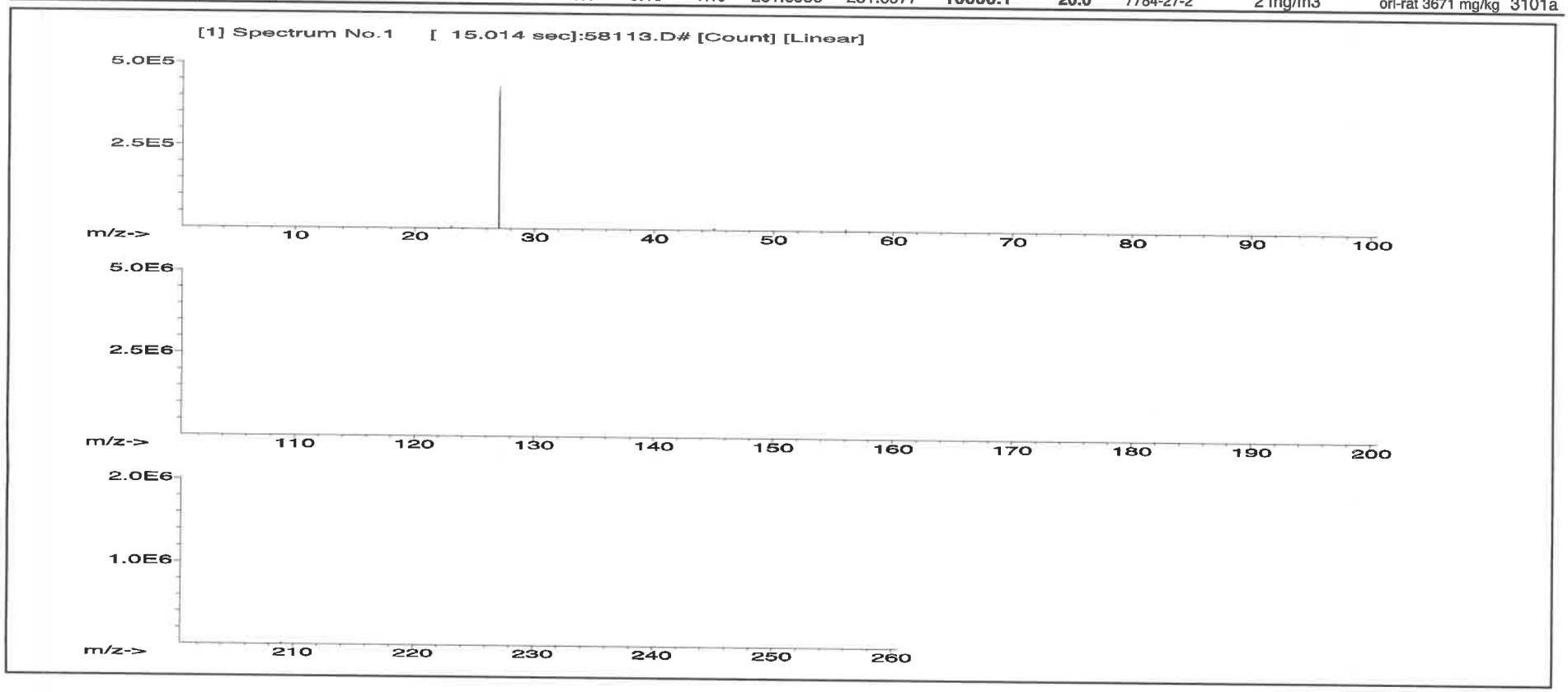
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**070622**	**Solvent:**	20370011	Nitric Acid	
Description:	**Aluminum (Al)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070625				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	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. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<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).

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.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

848

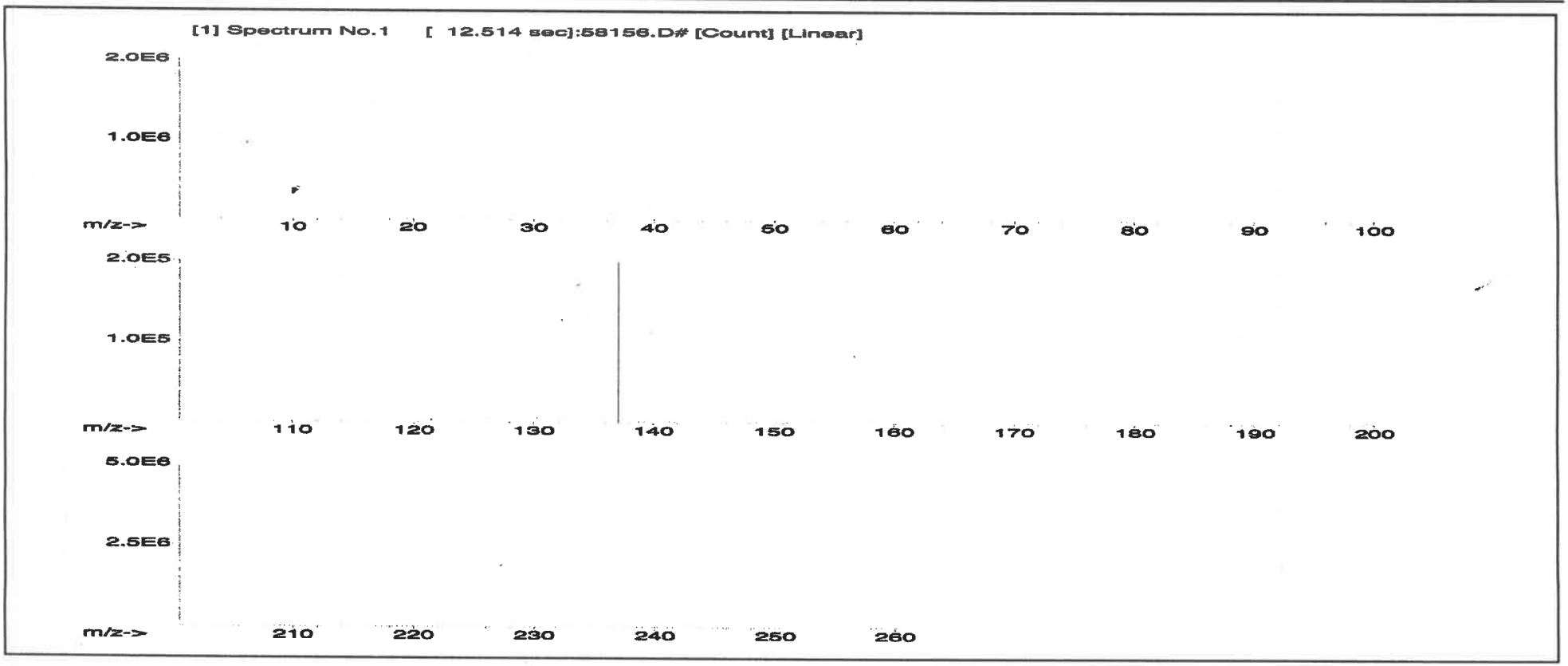
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

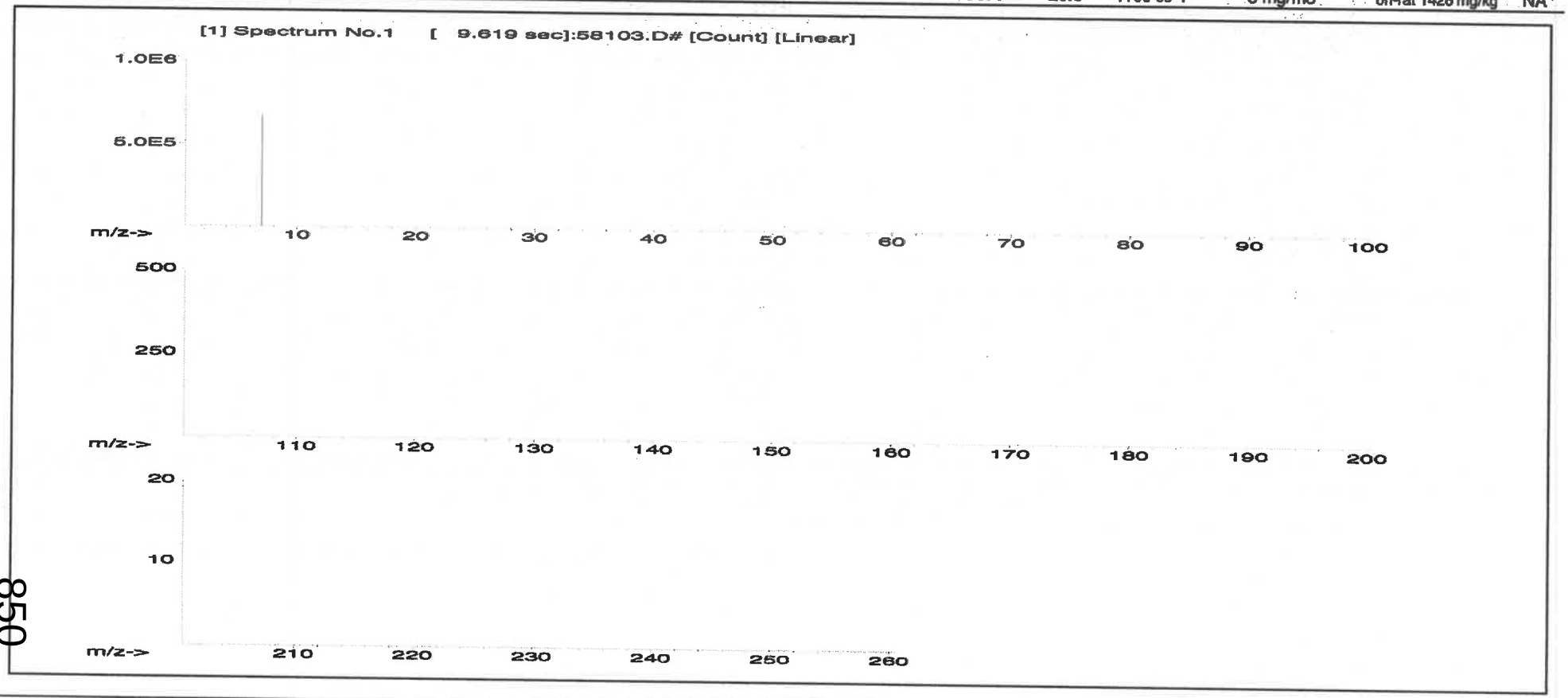
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



850

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

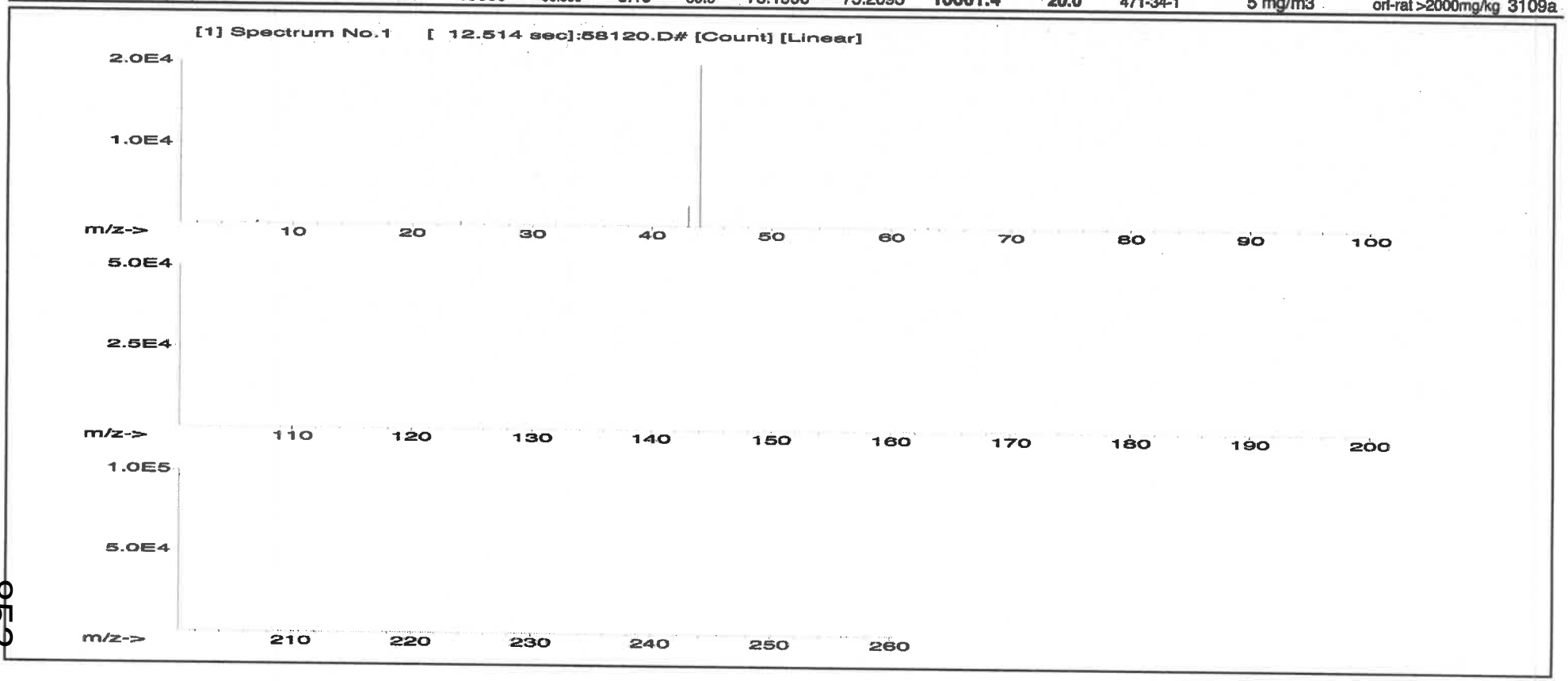
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



852

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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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

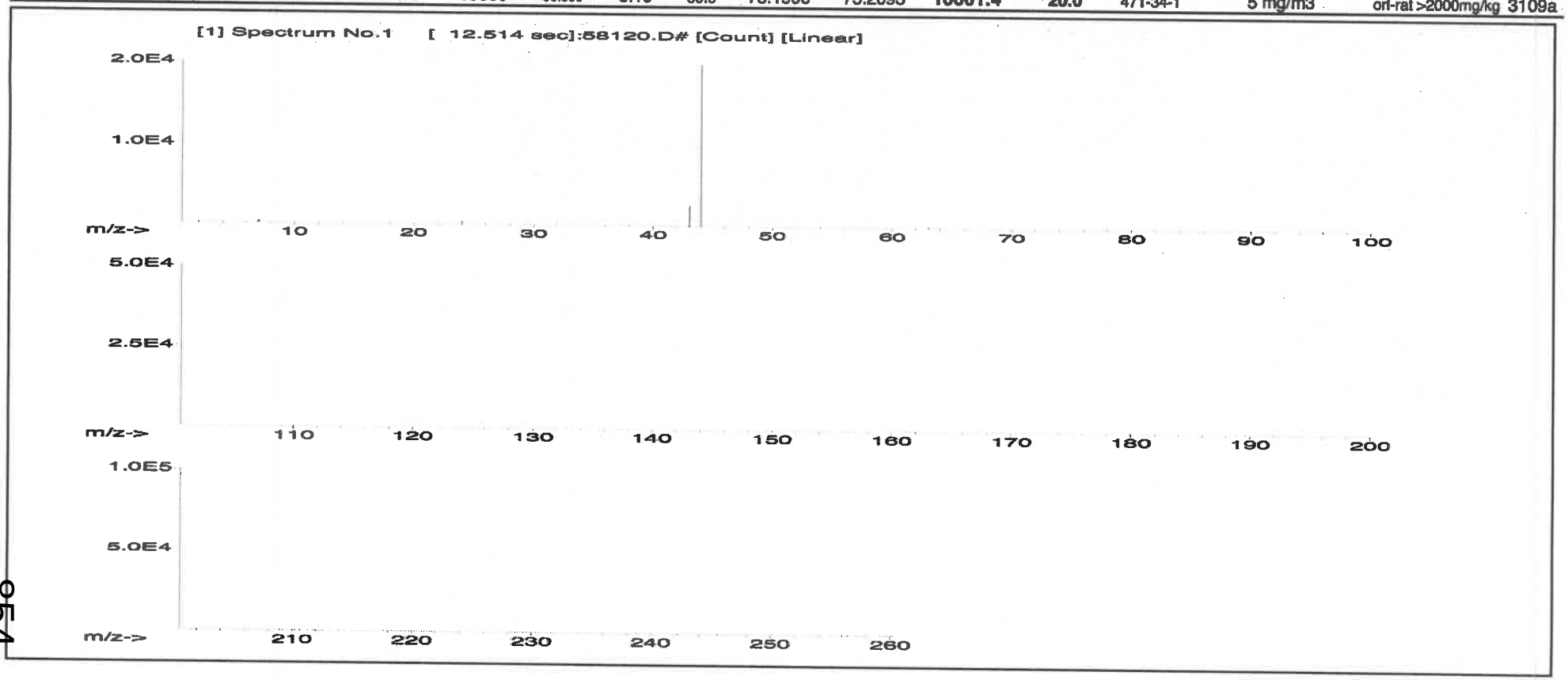
	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



854

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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MS513 R:03/17/23 BE

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

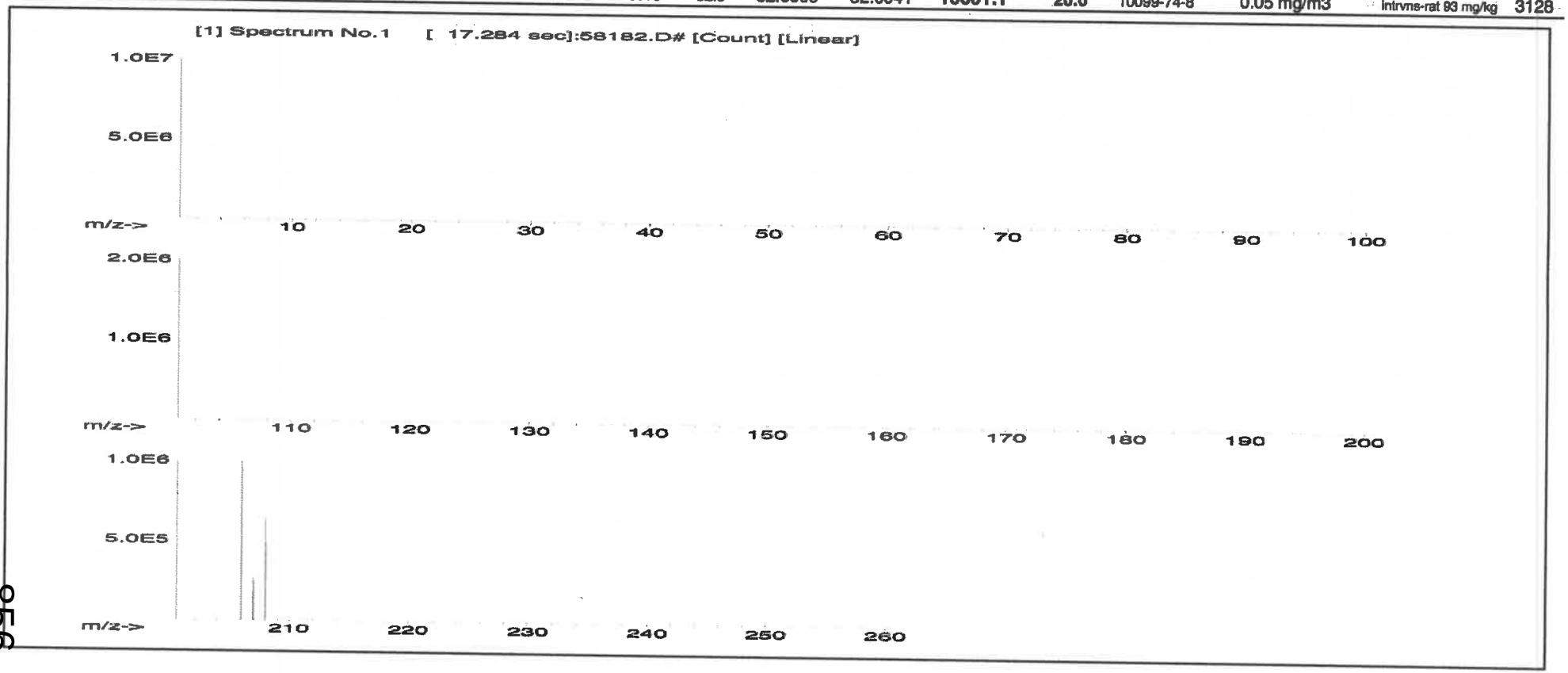
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

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	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



856

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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IC87

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M5514 , M5515 R: 03/17/23

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858

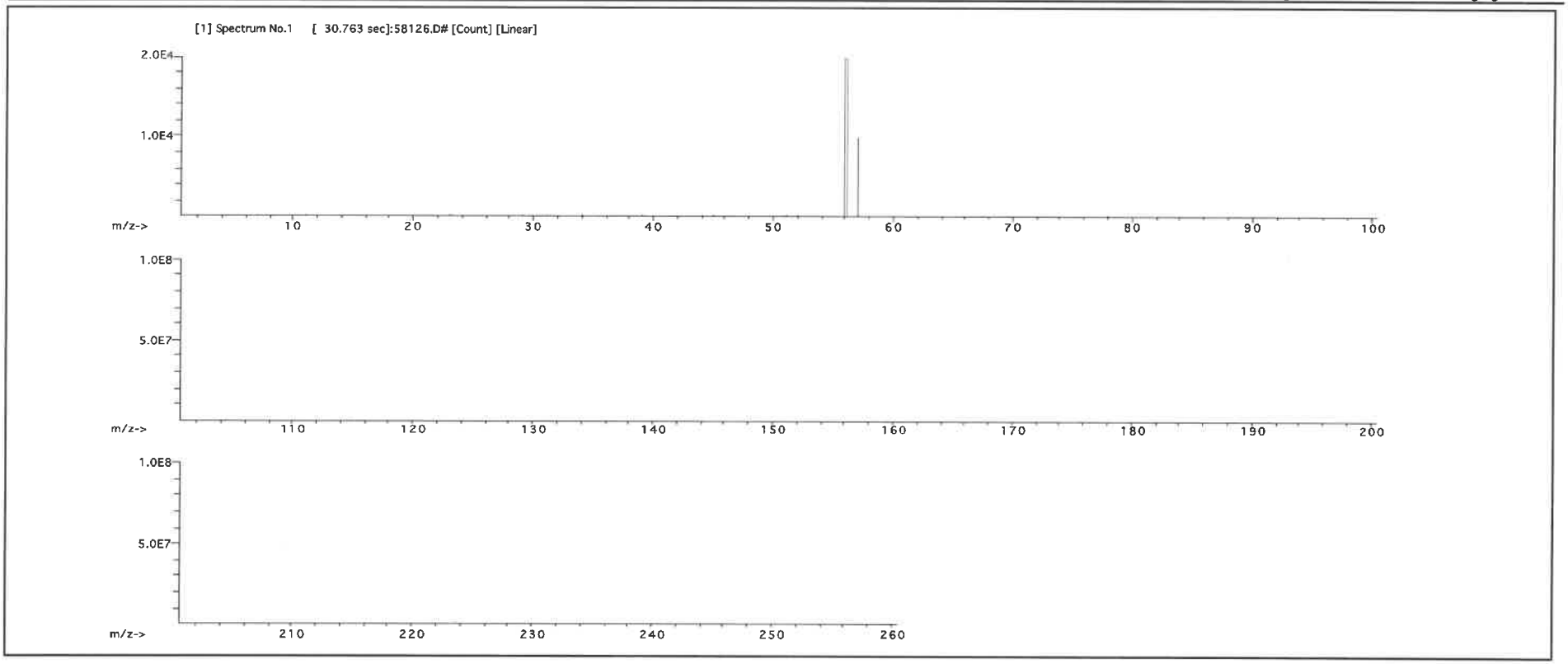
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**		**Solvent:**	20510011	Nitric Acid
Description:	**Iron (Fe)**		7.0%	350.0 (mL)	Nitric Acid
Expiration Date:	092125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	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



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:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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M5519. M5520 (BH) R:03/17/23

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860

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

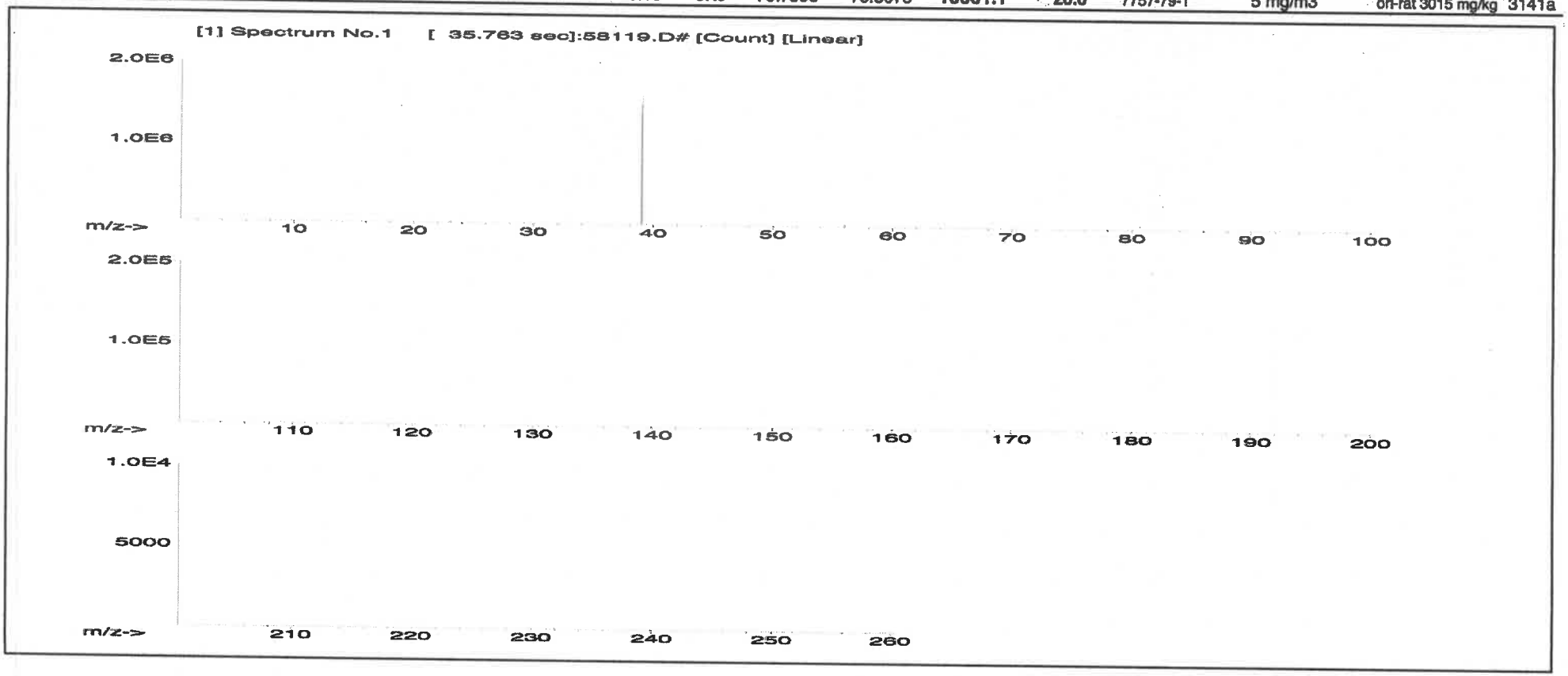
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

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	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



861

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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M5658 R ! 8/25/23

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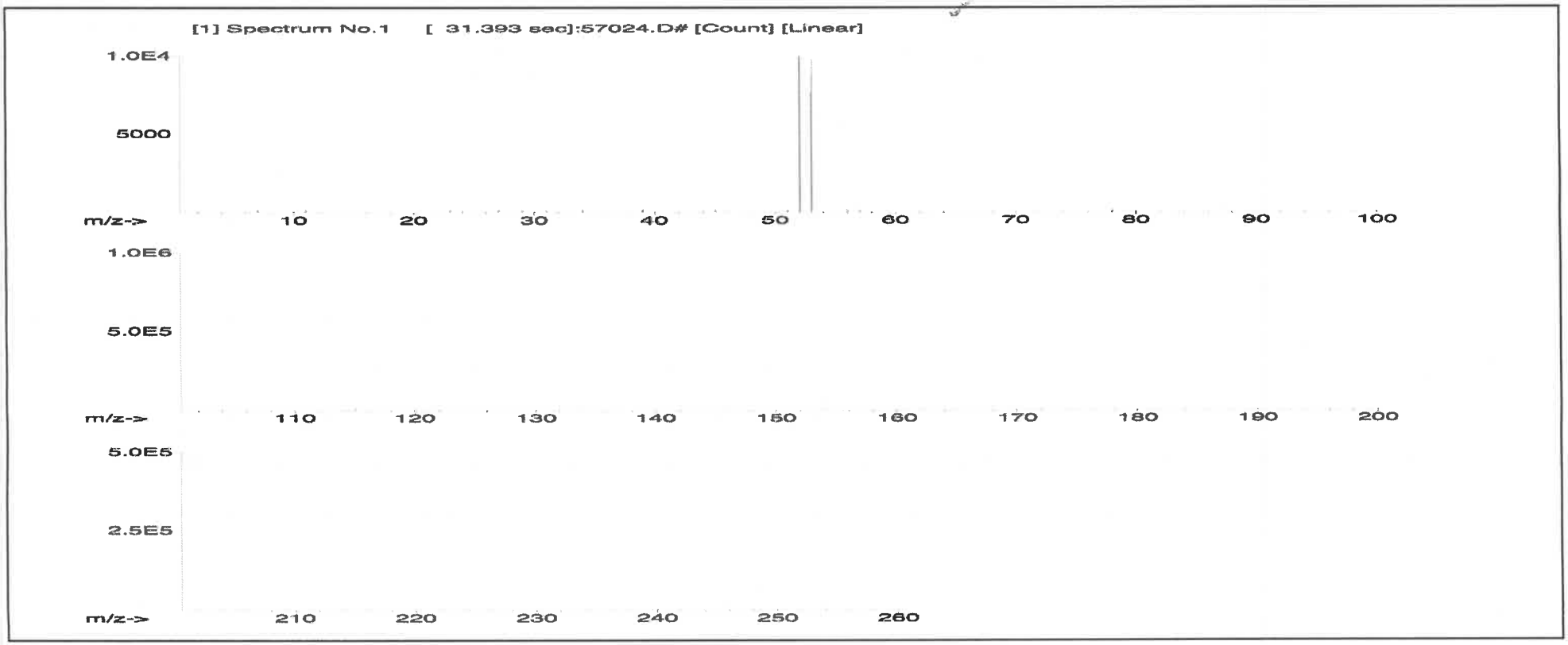
862

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



863

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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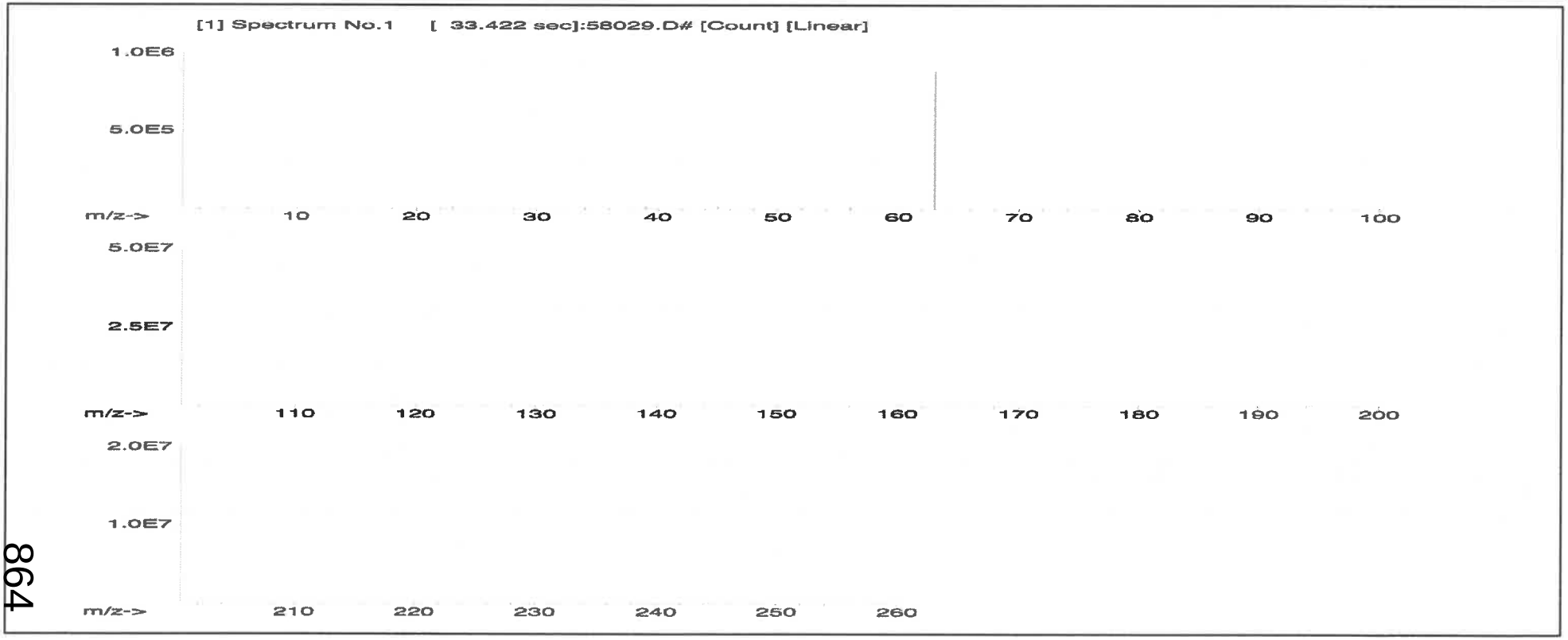
CERTIFIED WEIGHT REPORT:

		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



864

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* 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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M5698 R: 10/27/23

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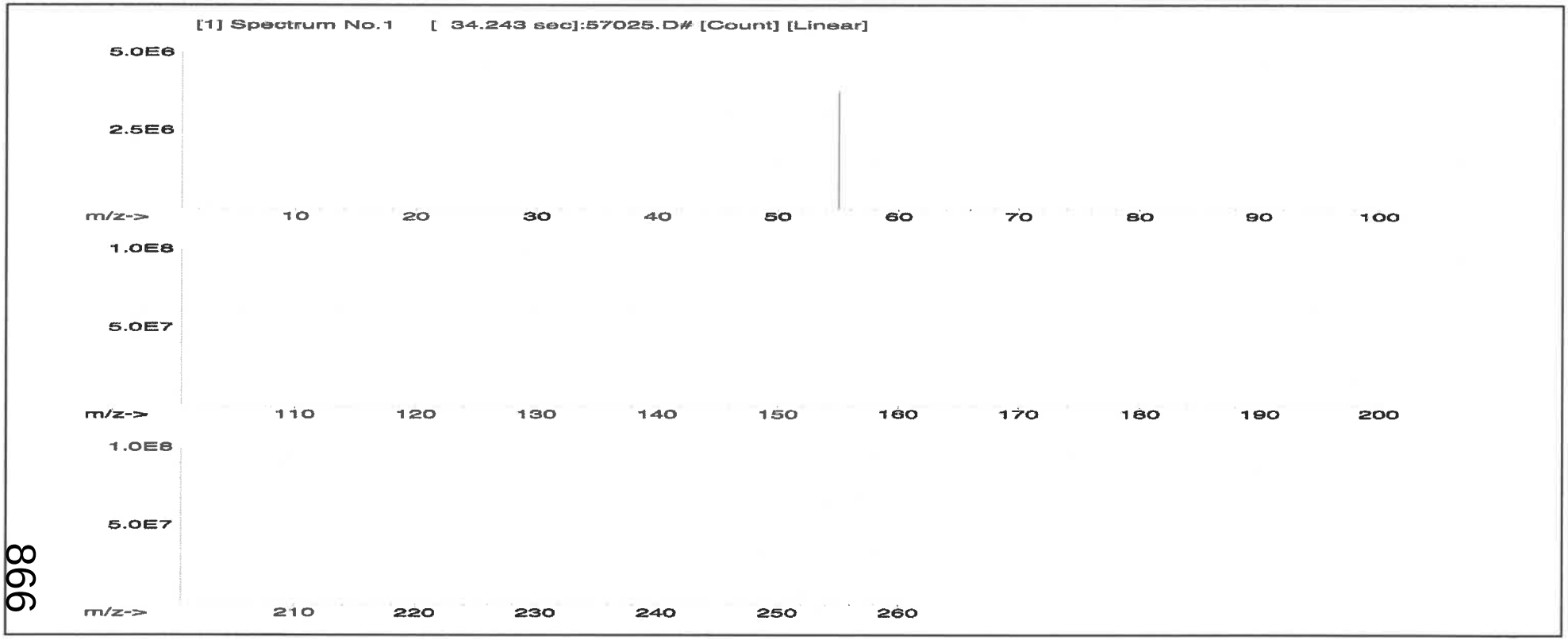
CERTIFIED WEIGHT REPORT:

		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



998

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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887

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M5768 M5769 (BP) R:1/3/24

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898

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

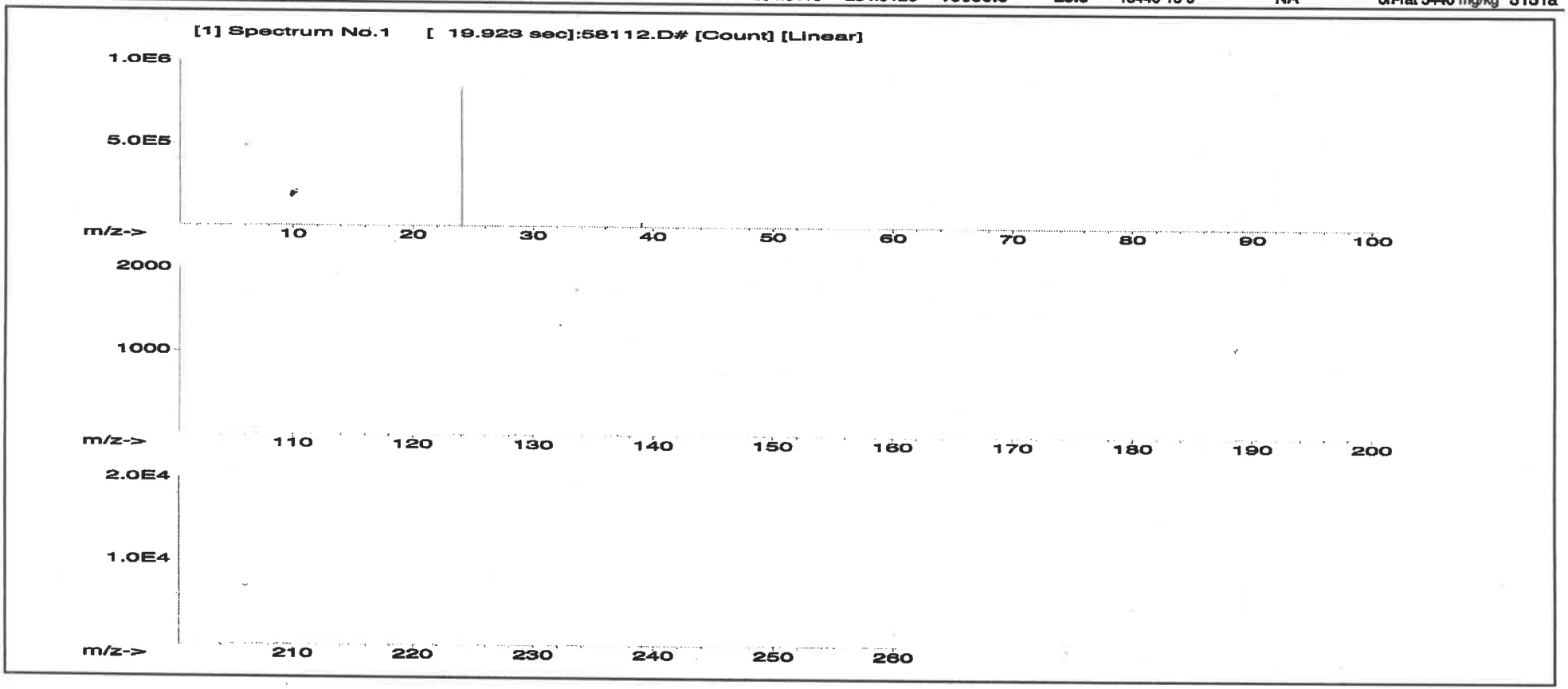
		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



698

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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M5768 M5769 (BP) R:1/3/24

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870

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

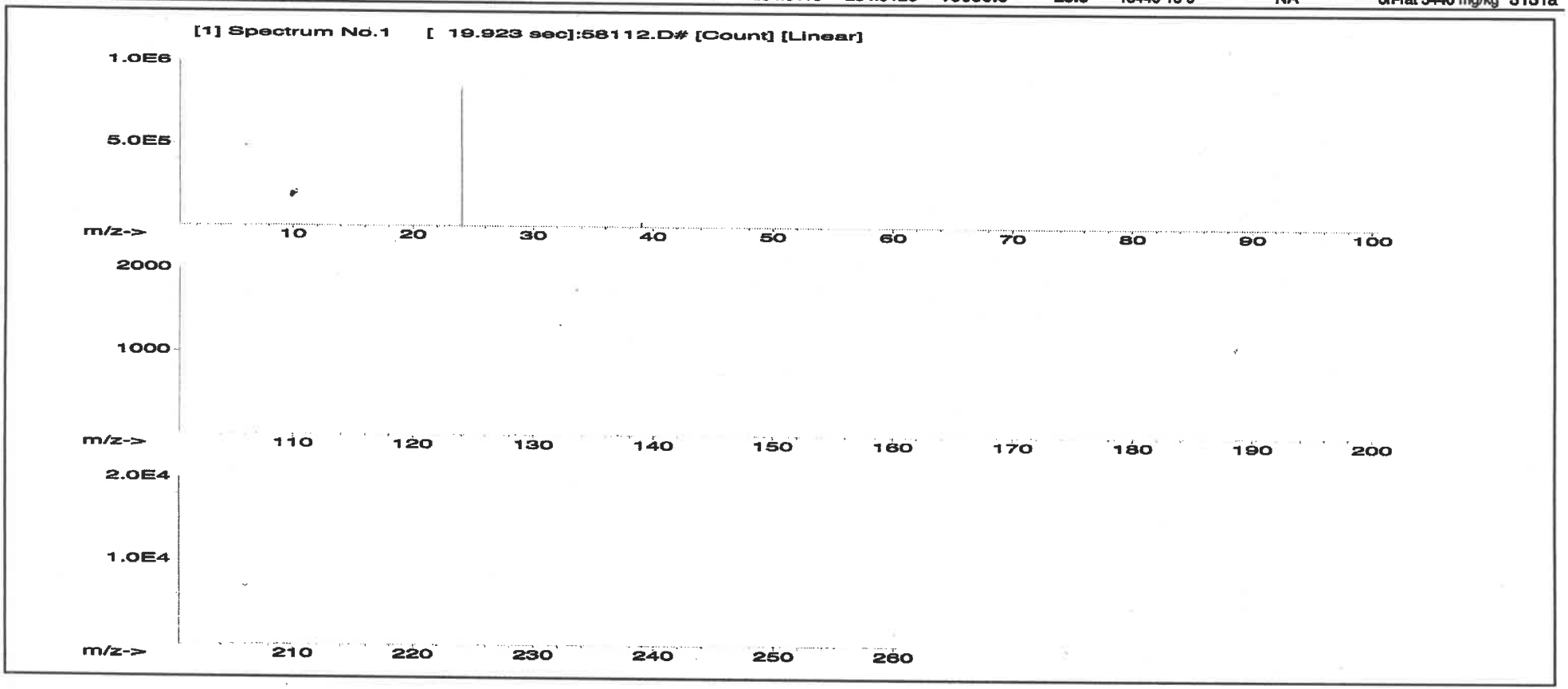
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



871

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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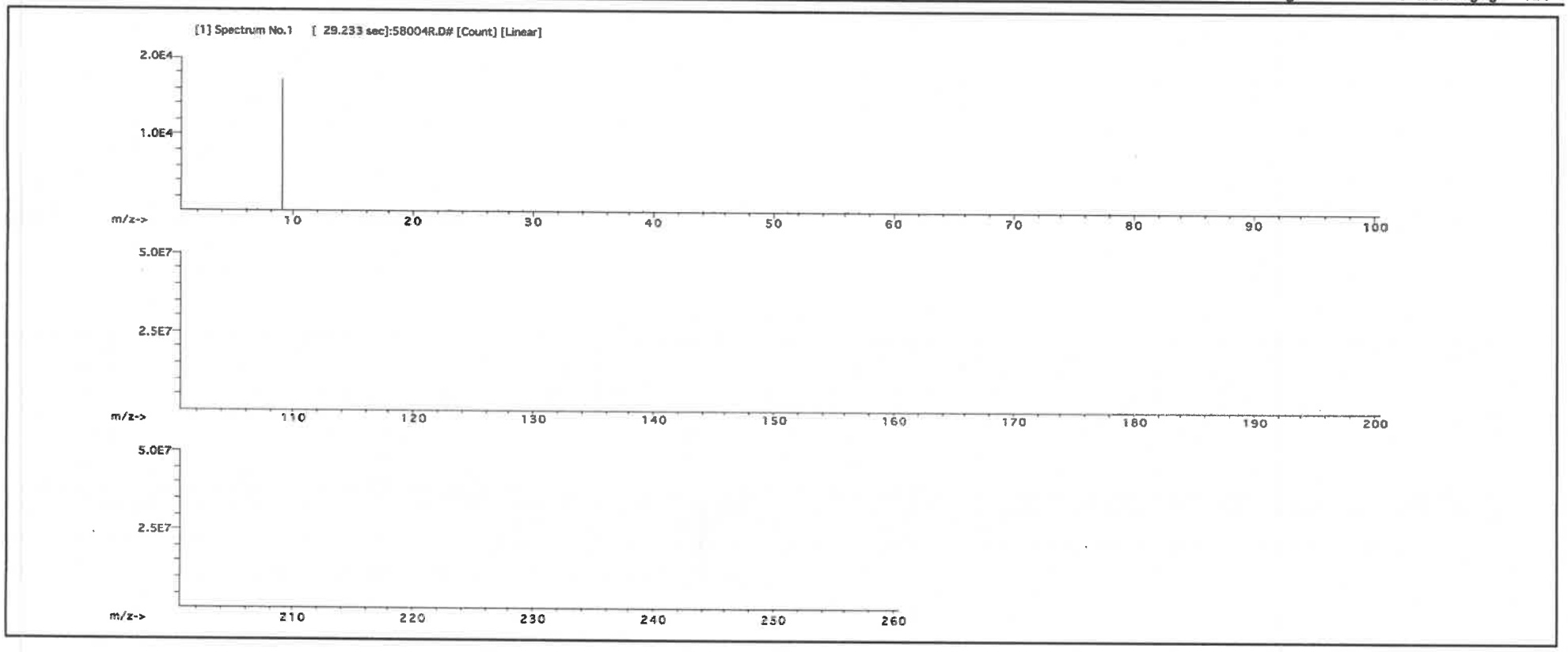
872

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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874

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

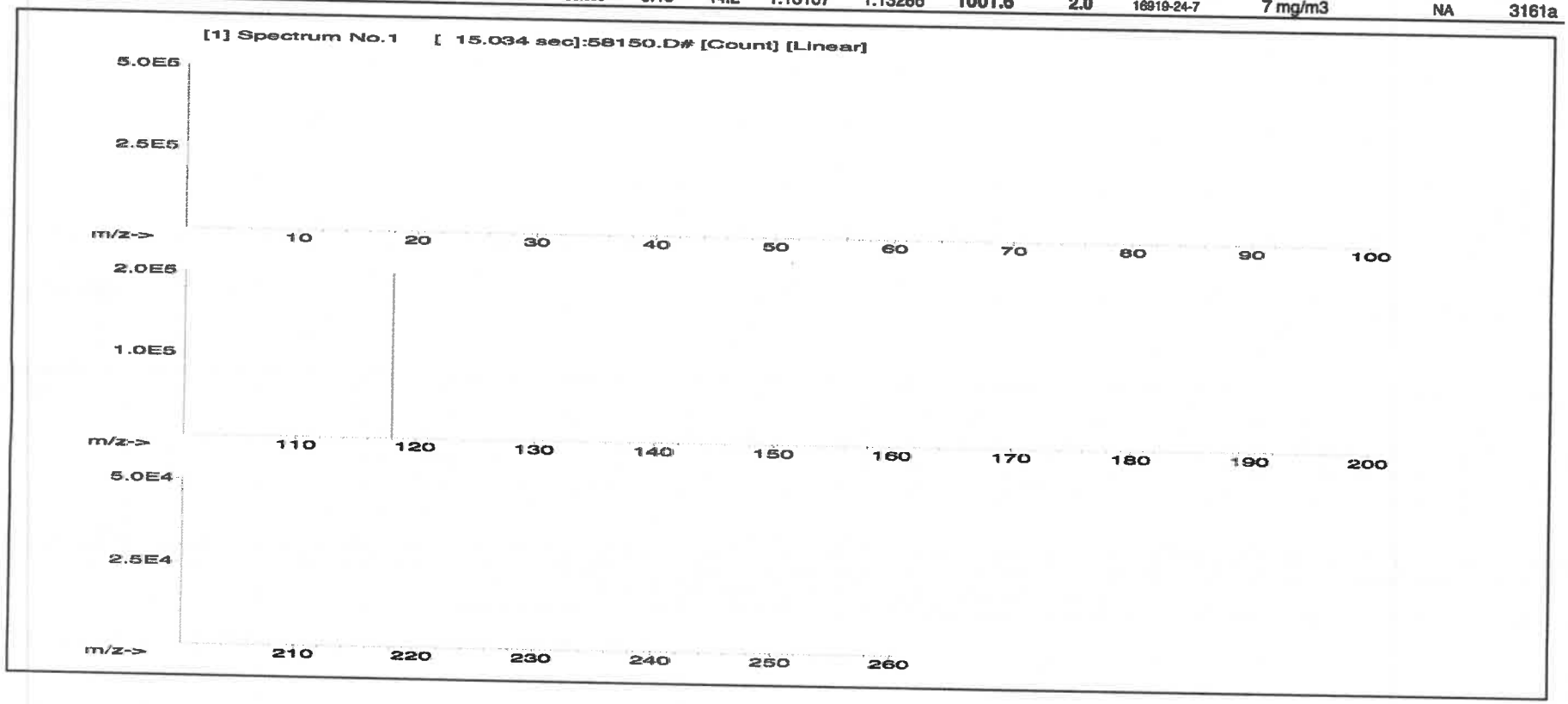
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



875

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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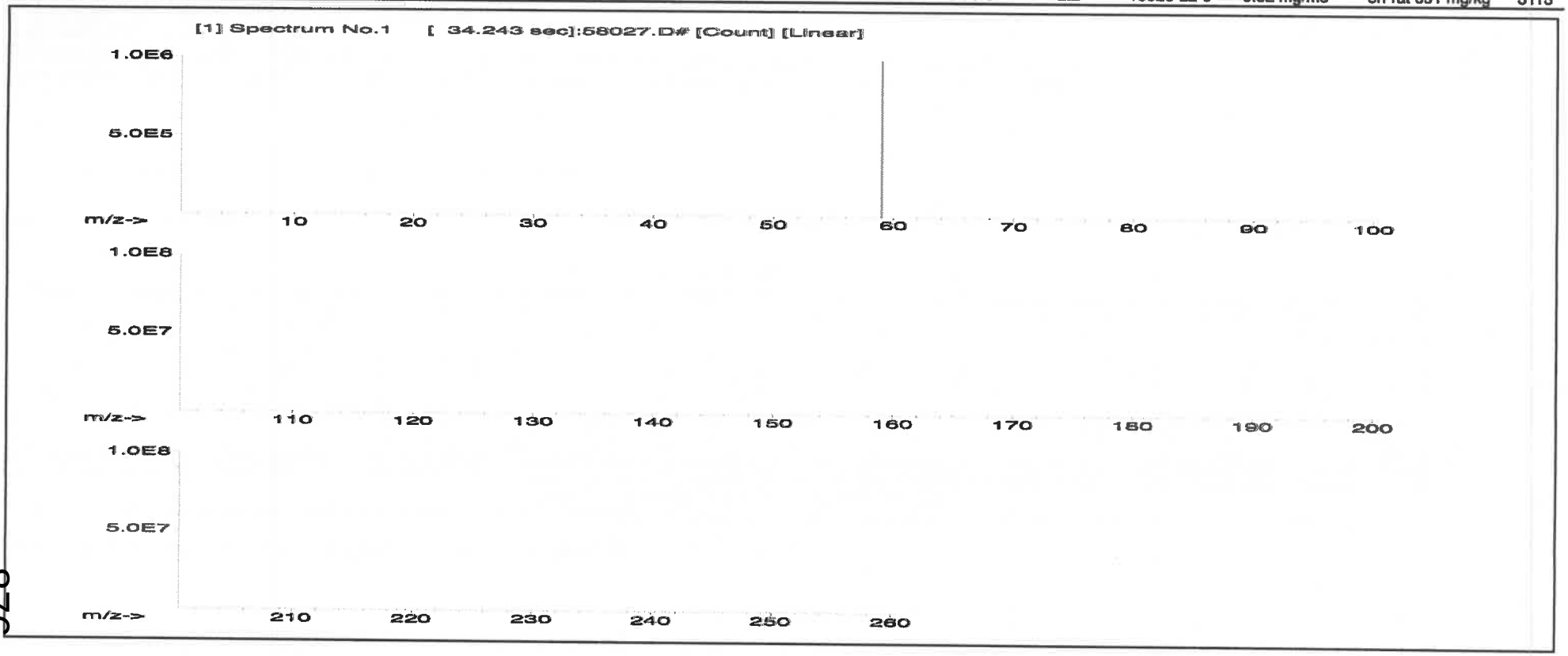
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



876

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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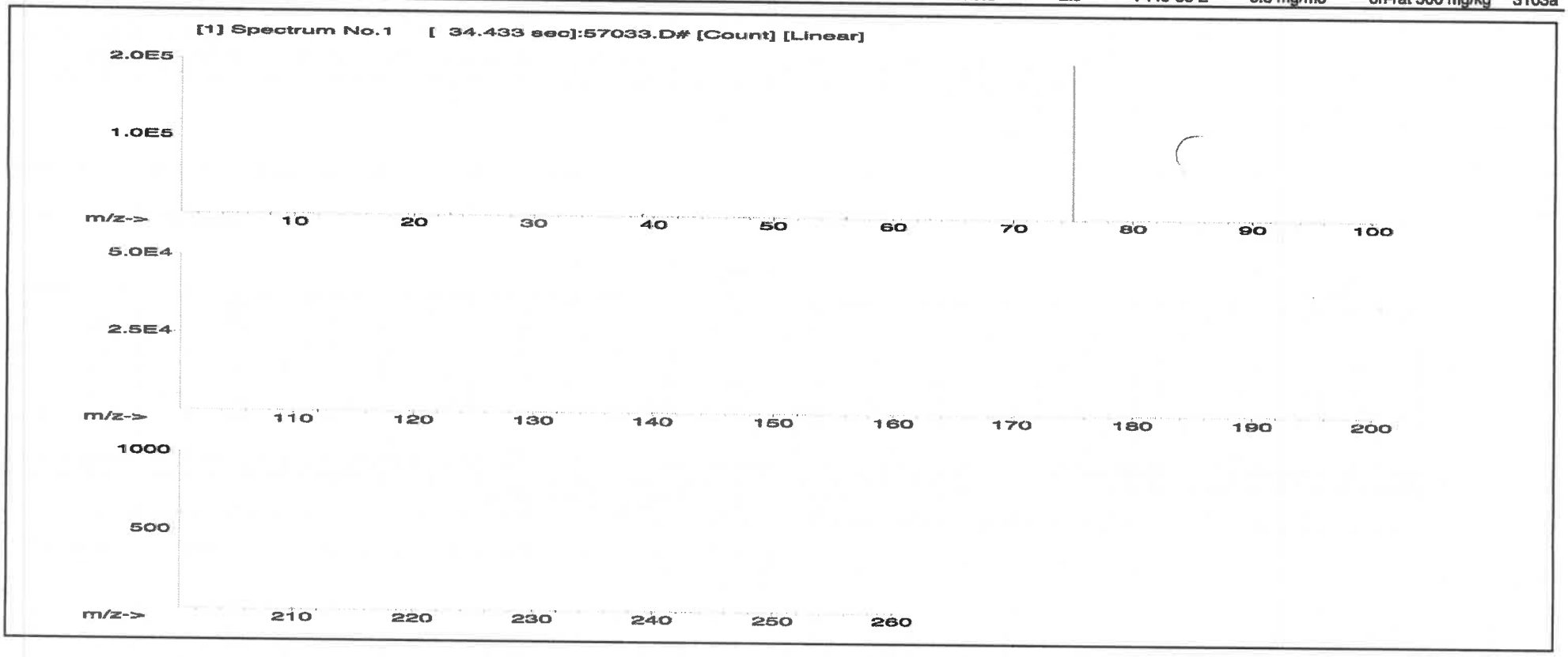
878

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



879

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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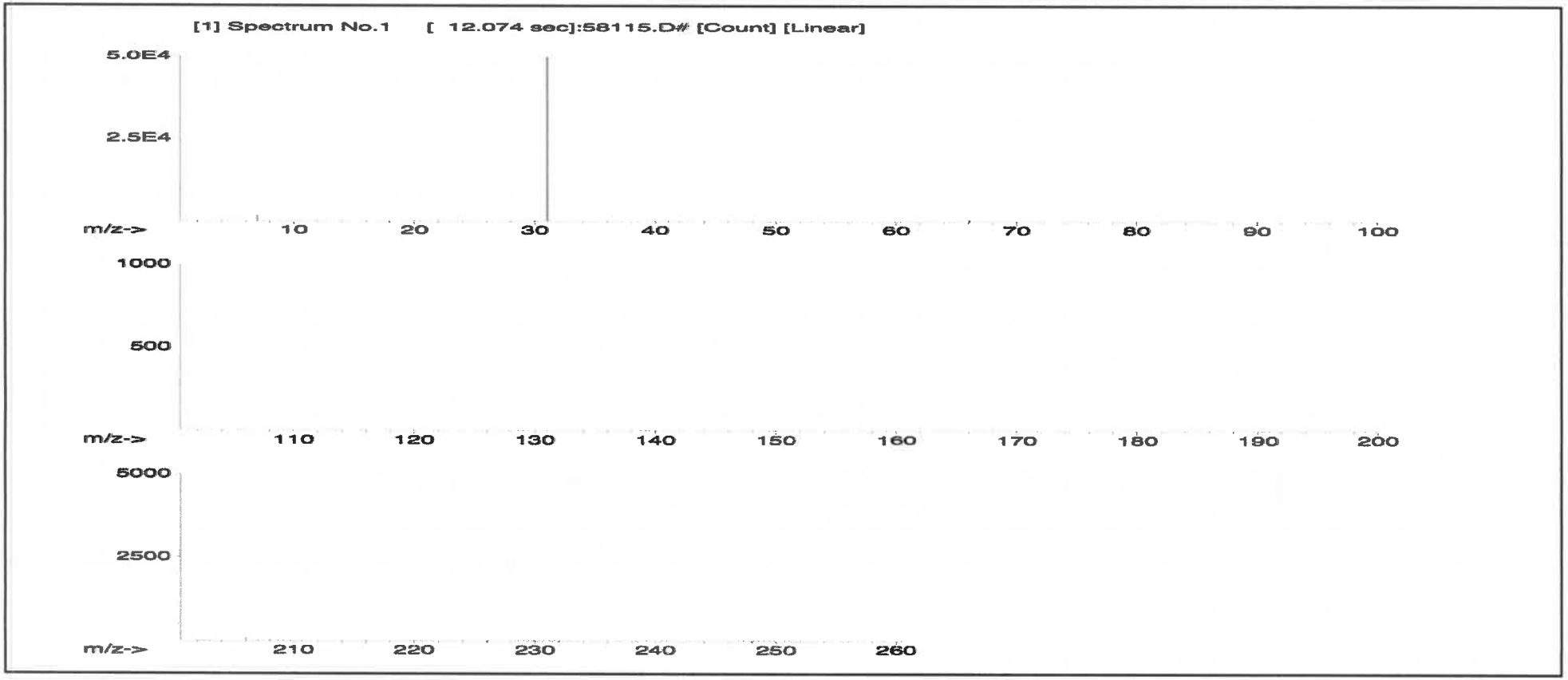
880

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



881

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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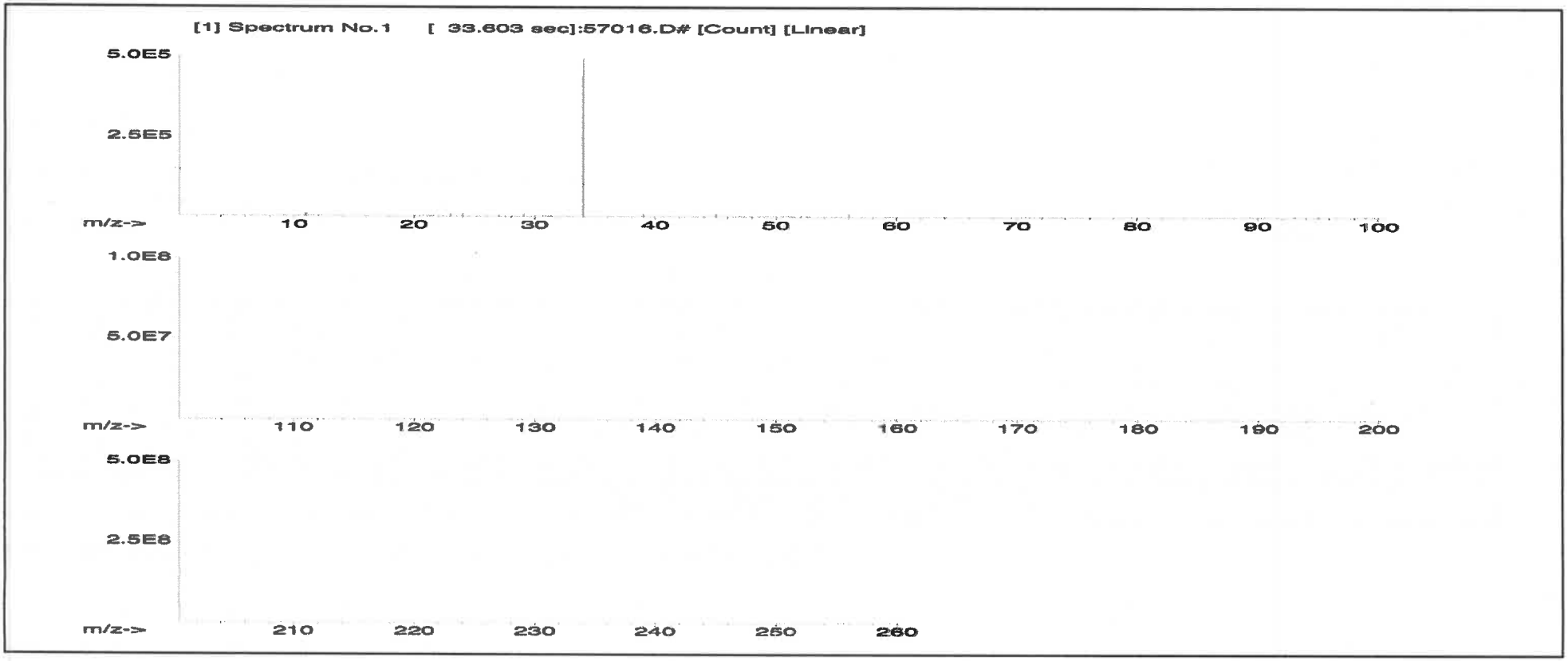
882

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



883

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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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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884

CERTIFIED WEIGHT REPORT:

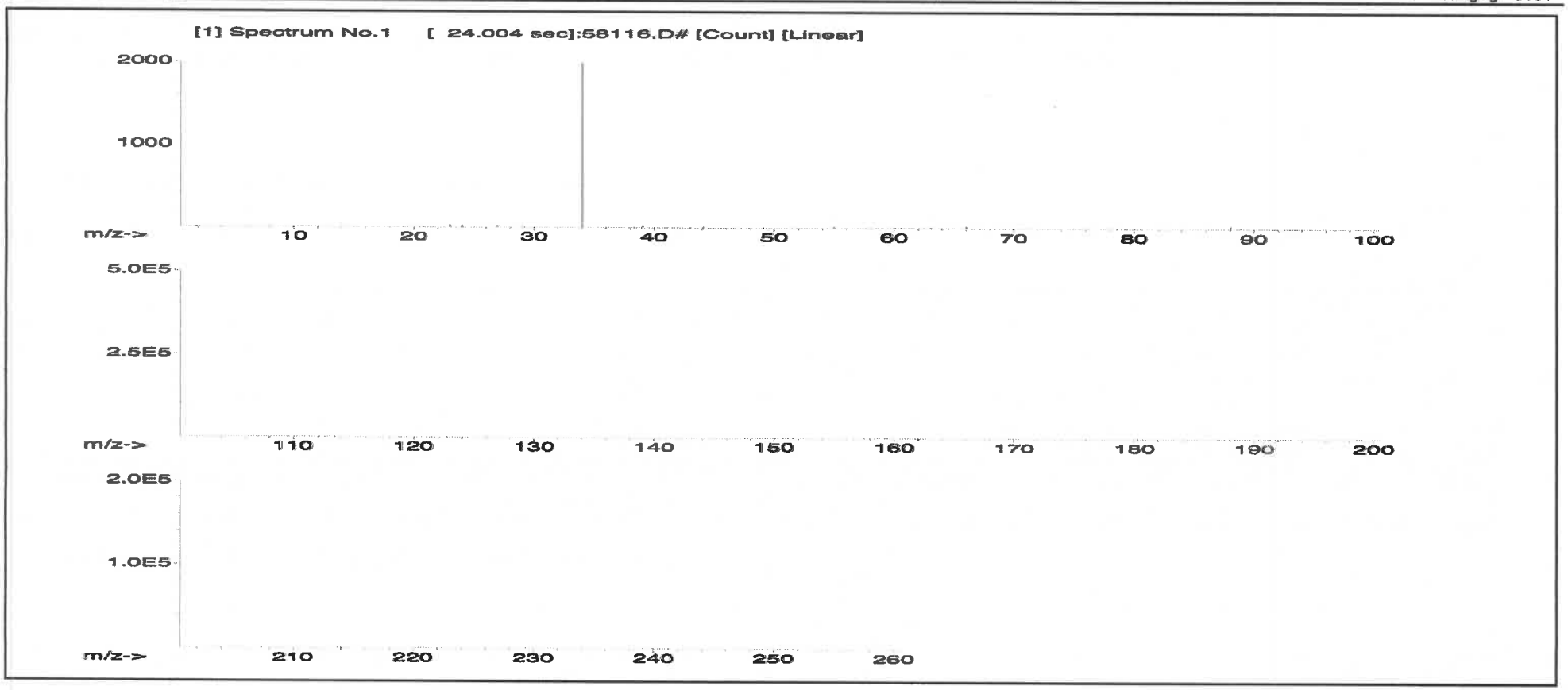
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



885

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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886

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

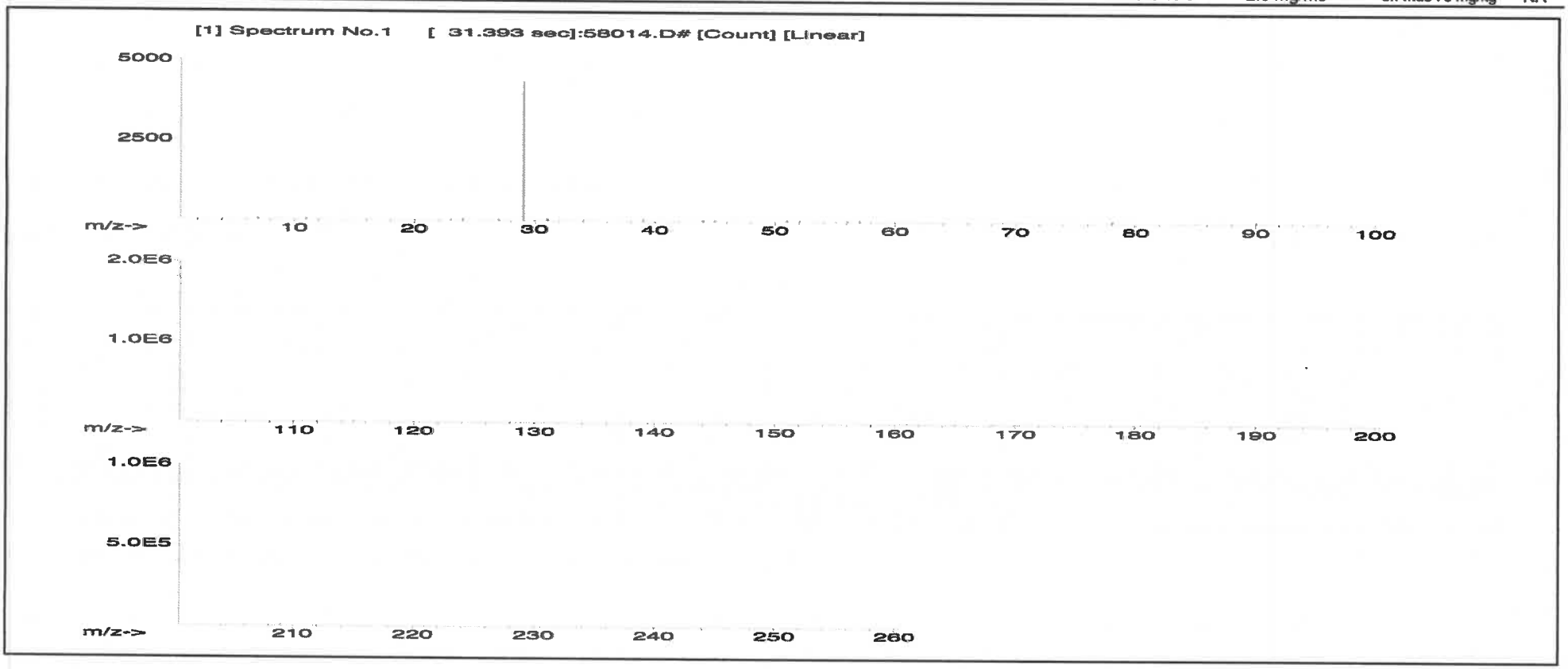
Aleah O'Brady

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



887

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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888

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

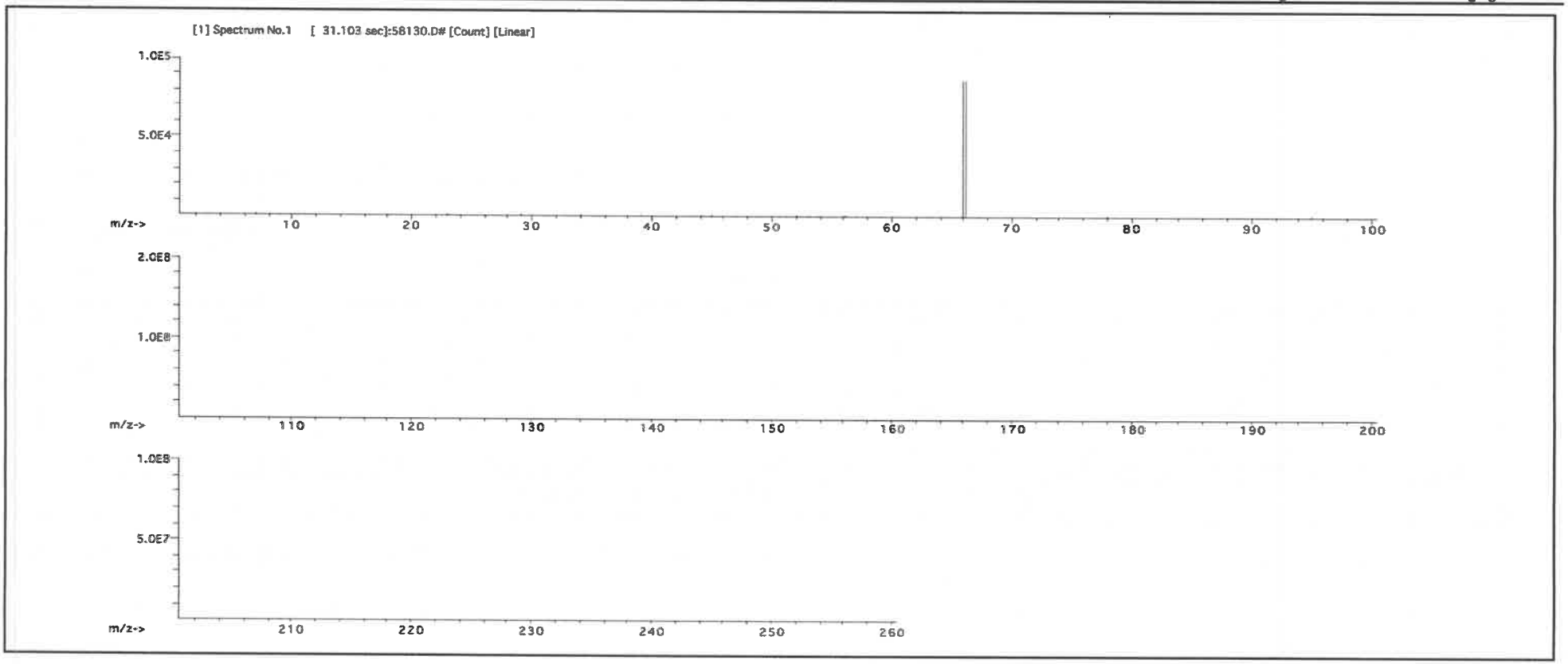
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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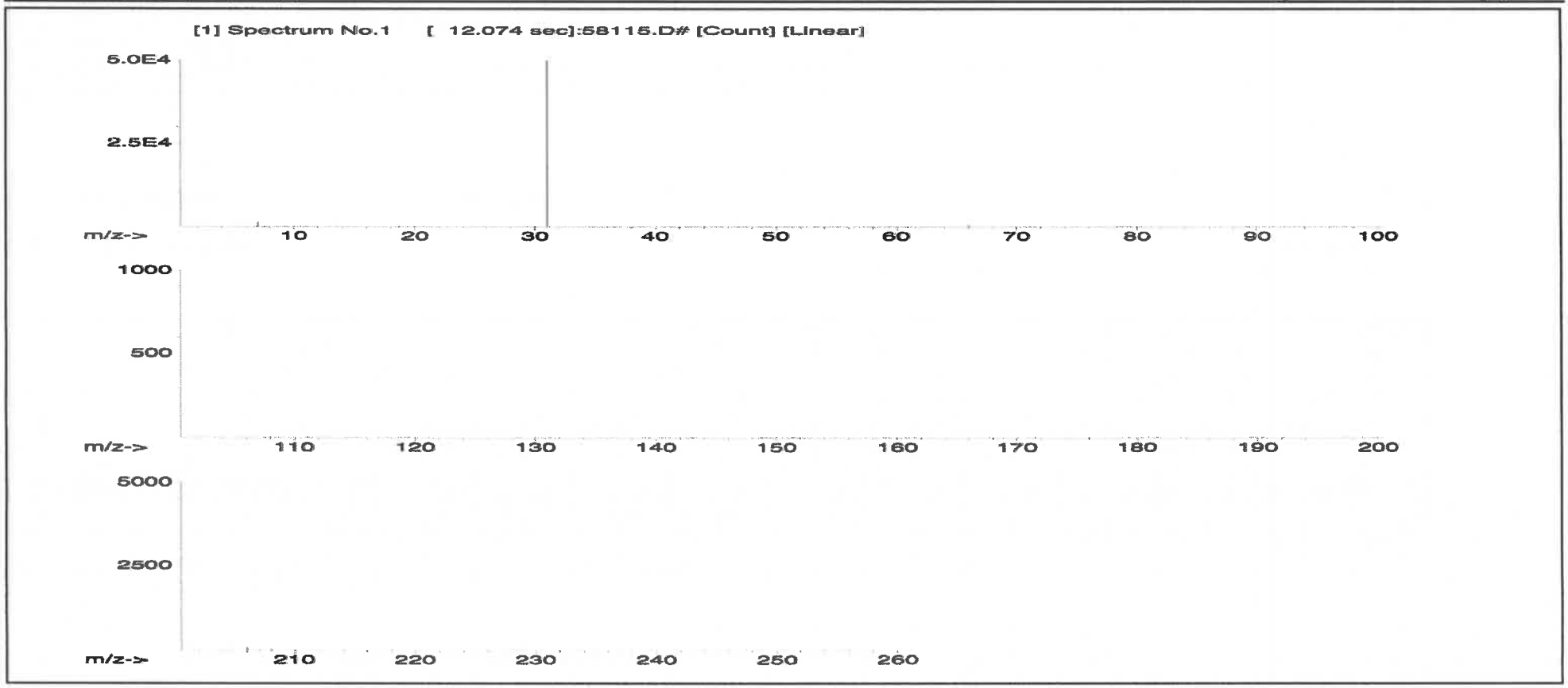
890

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**091123**				
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



891

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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

892

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certified Reference Material CRM

M5960 KK R. 6/11/24

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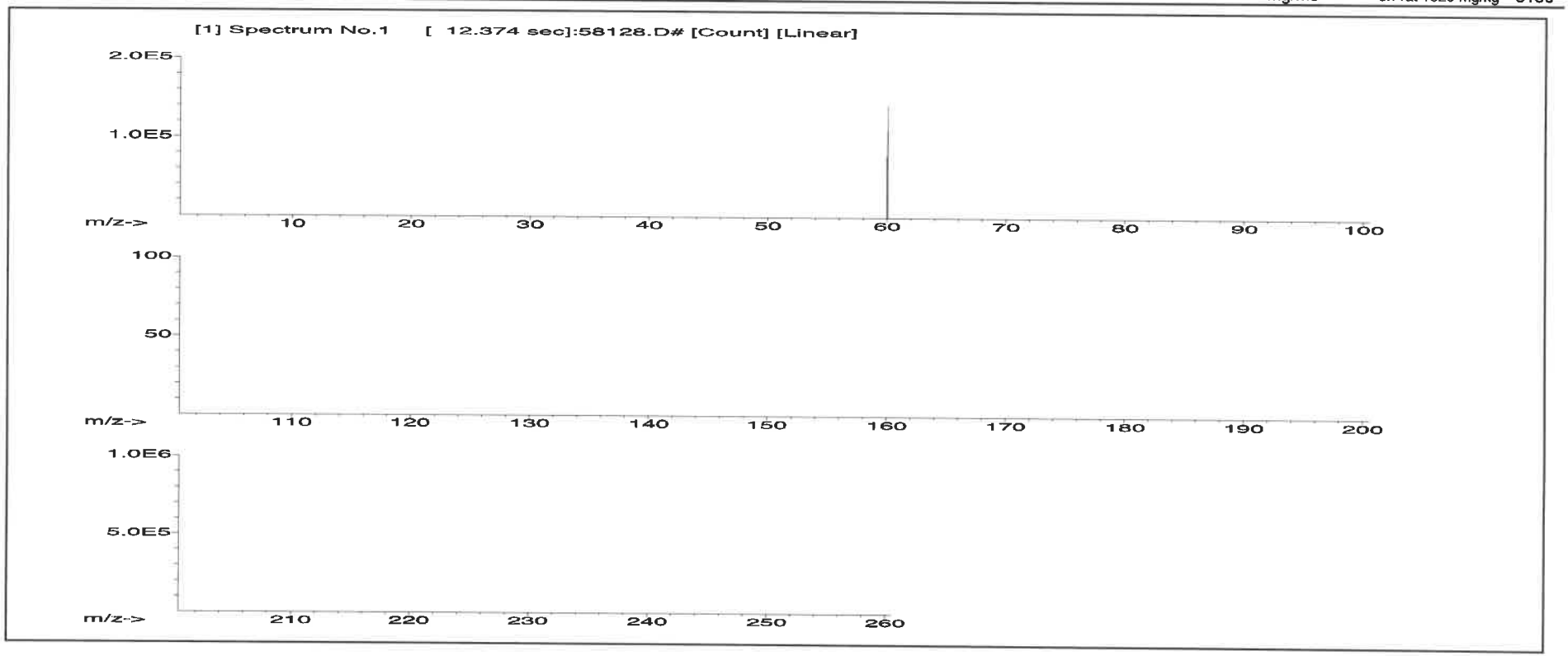
CERTIFIED WEIGHT REPORT:

Part Number:	**57028**		**Lot #**		
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Nickel (Ni)**				
		2%	5.0 (mL)	Nitric Acid	
Expiration Date:	041127				
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):	249.85	0.002	Flask Uncertainty		

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

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. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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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	T	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).

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Certified Reference Material CRM

M5962 R! 06/14/24.

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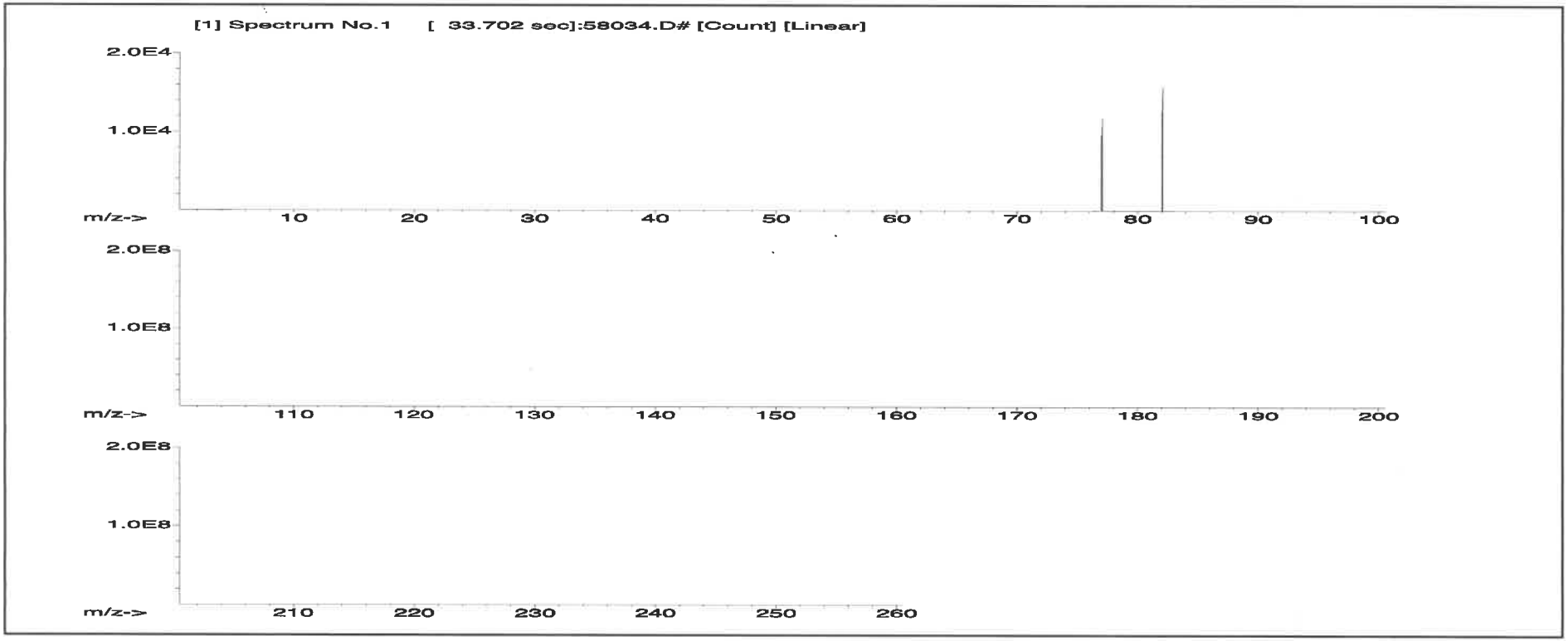
CERTIFIED WEIGHT REPORT:

		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



899

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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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

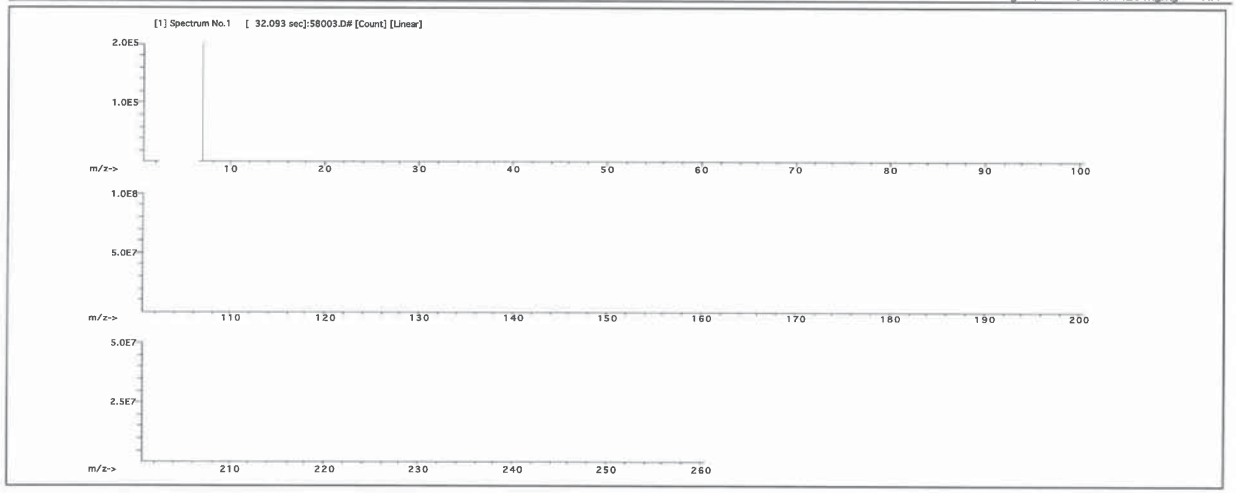
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

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



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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	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).

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Certificate of Analysis

M5976, M5977
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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:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- 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

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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	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

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 - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 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

- July 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 Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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M5978, M5979

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) 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 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

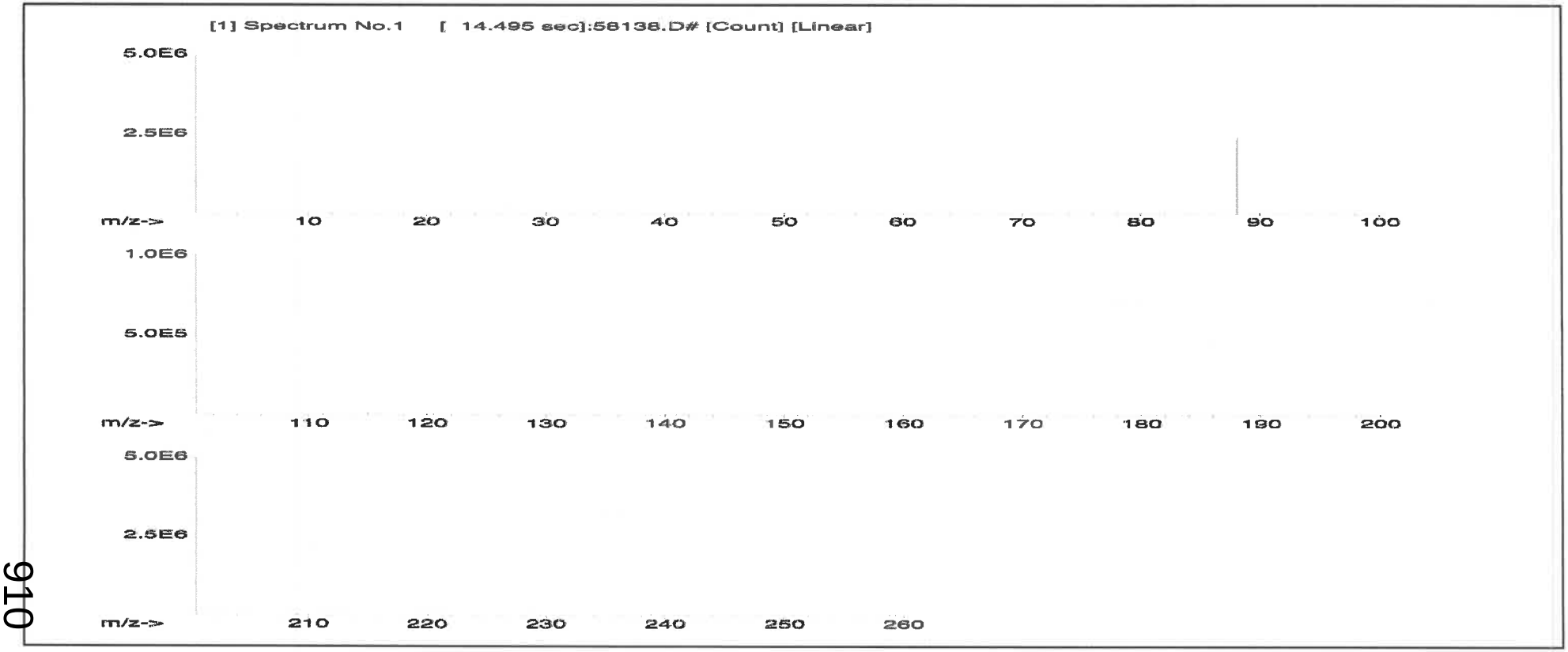
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**			**Lot #**	
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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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	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

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:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

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	Chromium, Cr	200.0 ± 1.1 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	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

916

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
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
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
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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)

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 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

- July 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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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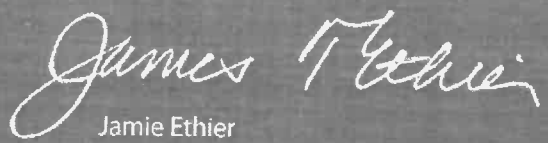
Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

M6126

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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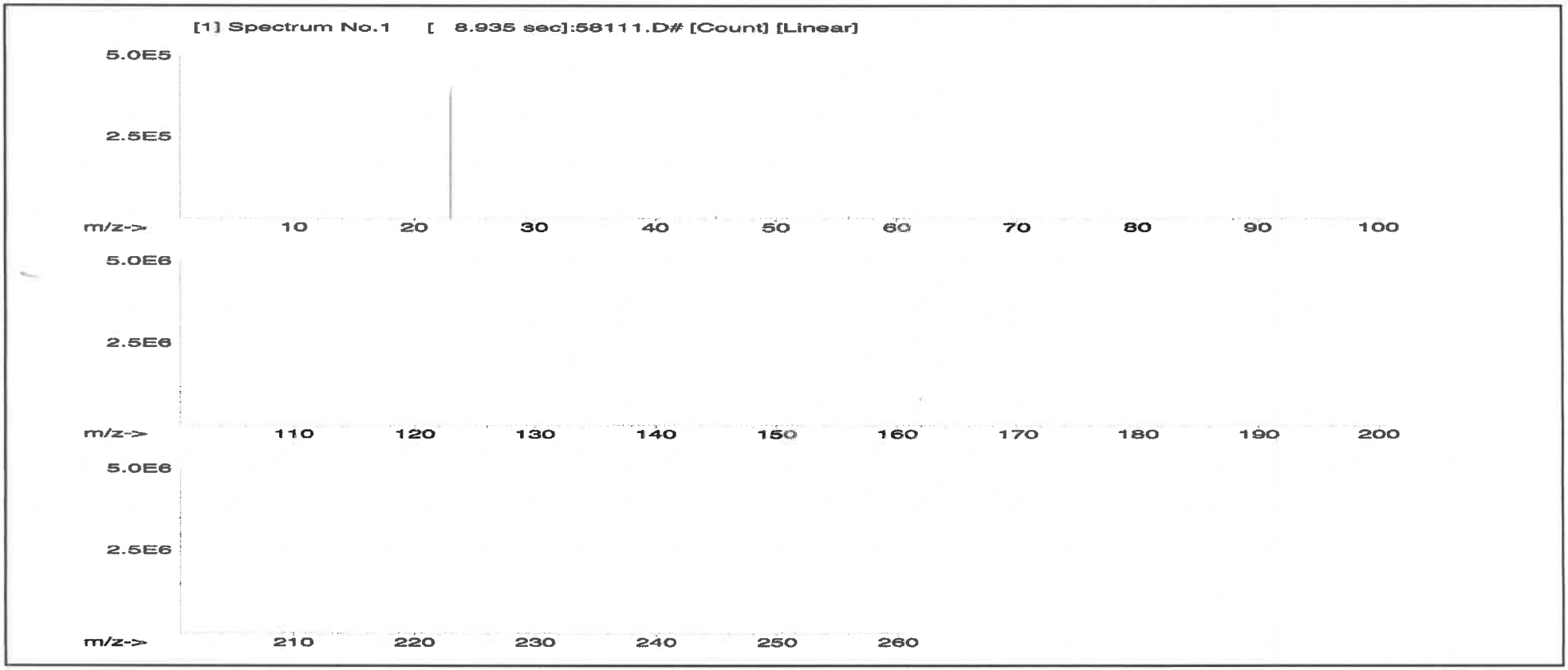
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**122223**			
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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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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: 01/03/24 M5802, M5803

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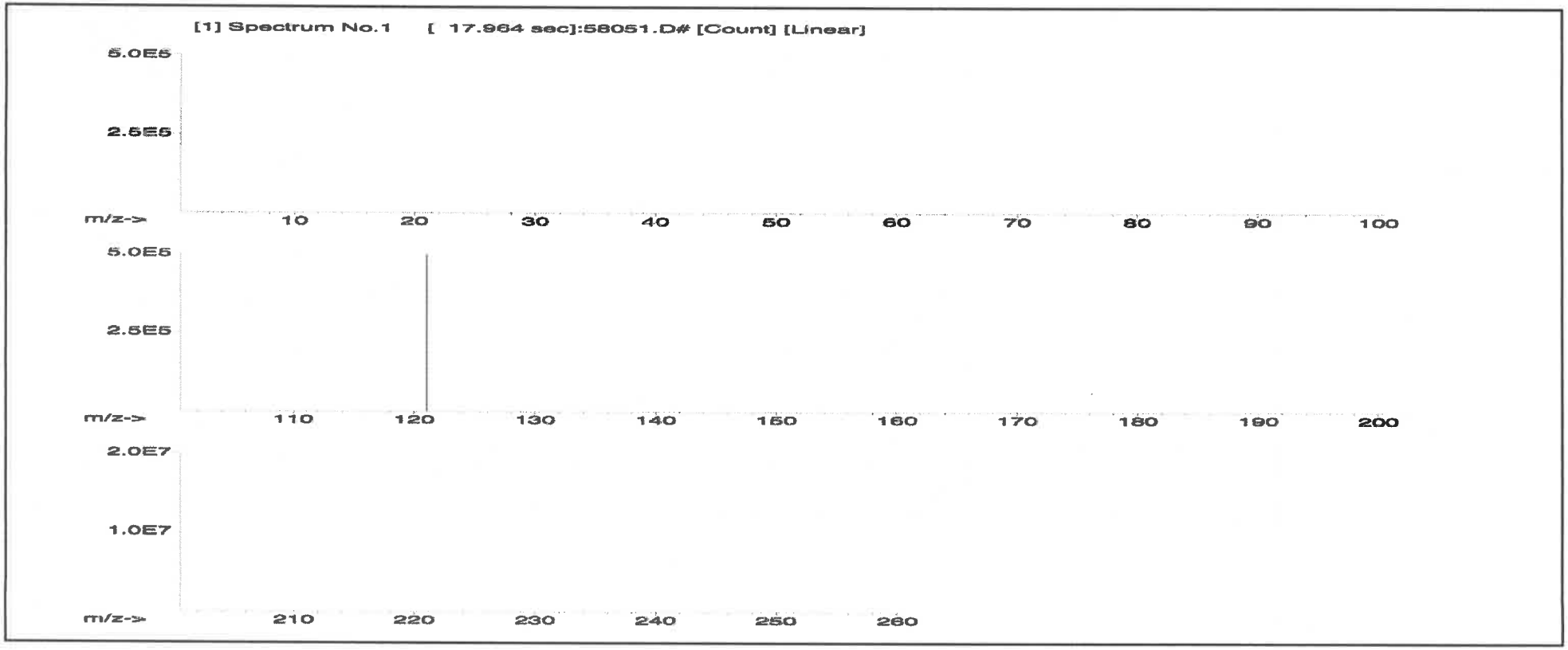
928

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



929

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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* All standard containers are meticulously cleaned prior to use.
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M6030

R: 8/5/24

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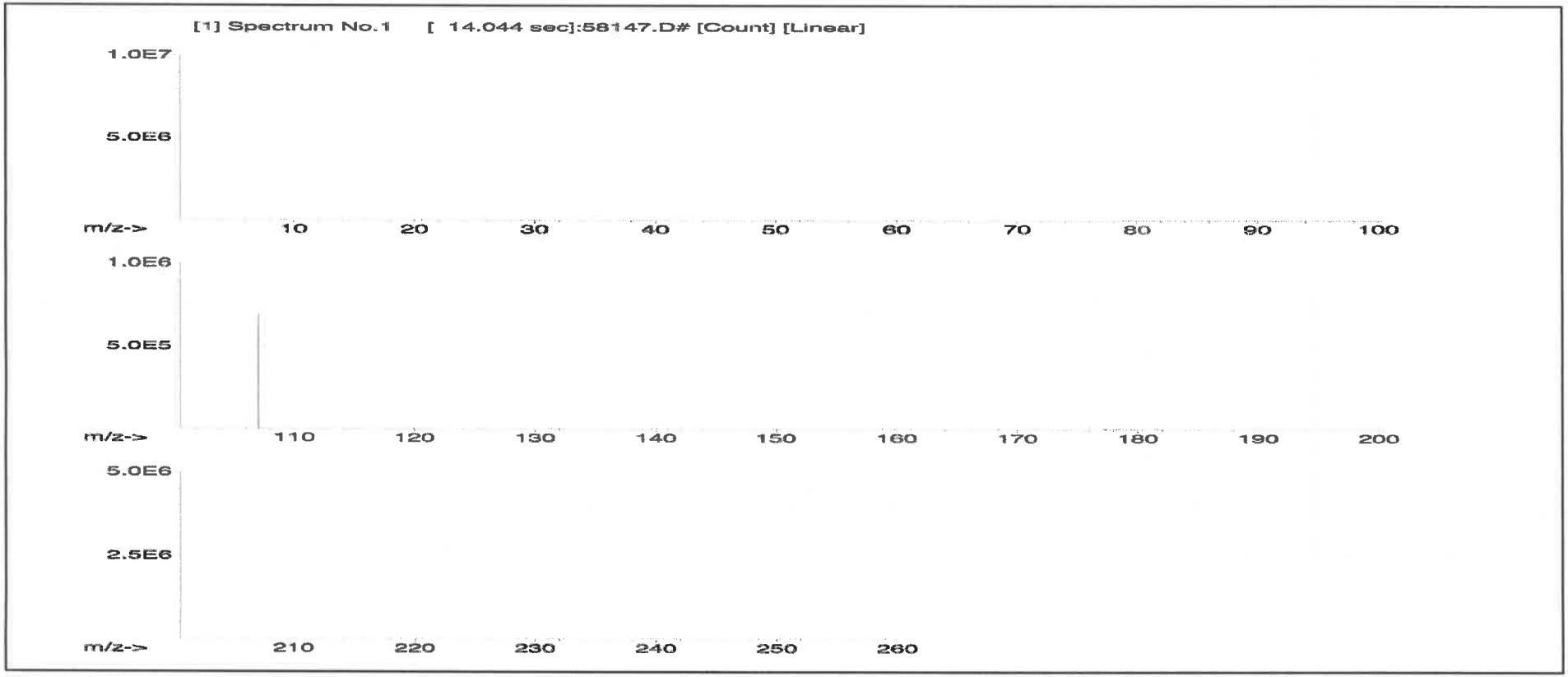
930

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



931

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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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R: 03/16/23 M5473, M5474, M5475, M5476

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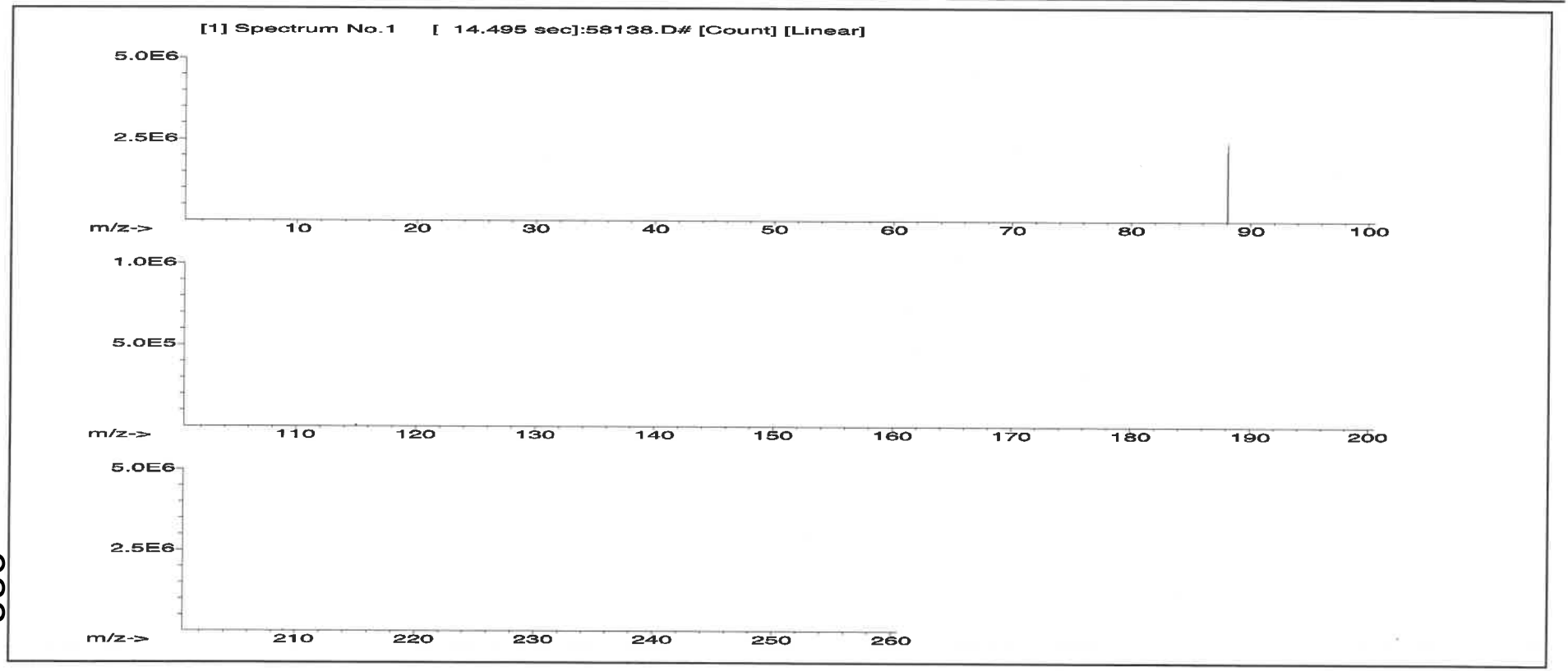
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**56138**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**082922**			
Description:	**Strontium (Sr)**			
		2%	20.0 (mL)	Nitric Acid
Expiration Date:	082925			
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):	1000.12	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

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	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



932

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	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.

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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).

933

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R ! 8/5/24

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934

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

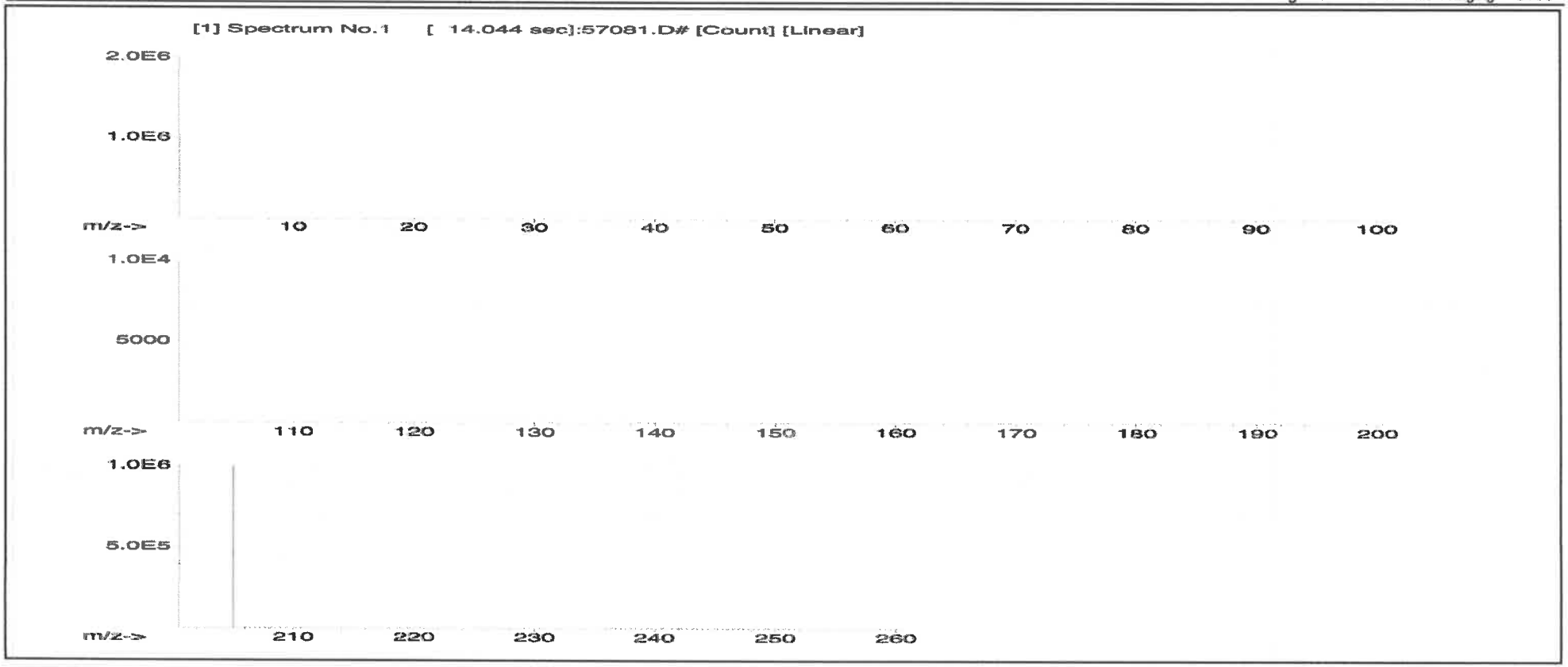
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



935

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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Rc. 8/5/24

936

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

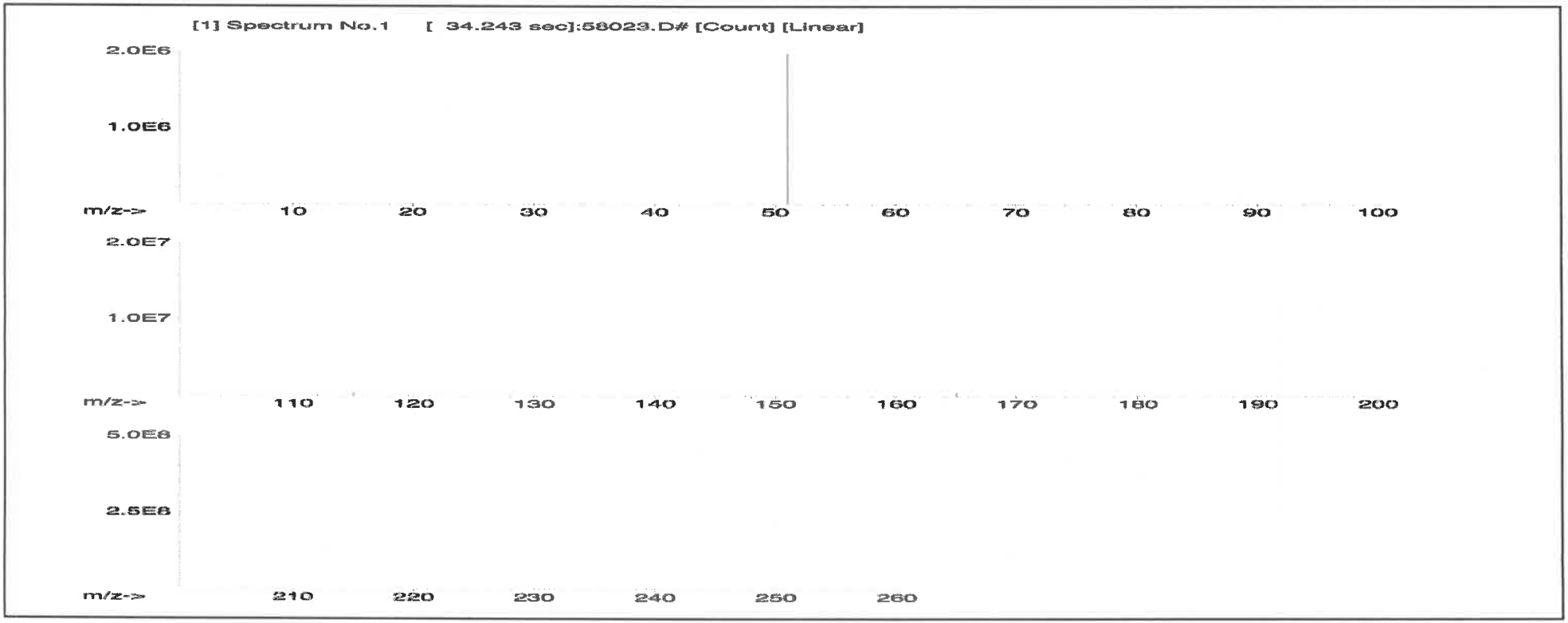
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



937

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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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165507

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHL28 ,MBHKX5

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 12/09/2024 **Time :** 14:50 **Temp :** 96 °C

End Digest Date: 12/09/2024 **Time :** 17:00 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 5

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83506
Spike Sol 6	1.00	MP83512
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
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 #5 CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/09/24 17:50	met digestion.	(metals cell)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165507

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5063-01	MBHL28	N/A	1.44	100	Brown	Yellow	Medium	N/A	N/A	1
P5063-02	MBHL29	N/A	1.19	100	Brown	Yellow	Medium	N/A	N/A	2
P5063-03	MBHL30	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	3
P5063-04	MBHL31	N/A	1.17	100	Brown	Yellow	Medium	N/A	N/A	4
P5063-05	MBHL32	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	5
P5063-06	MBHL33	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	6
P5063-07	MBHL34	N/A	1.16	100	Brown	Yellow	Medium	N/A	N/A	7
P5063-08	MBHL34D	N/A	1.14	100	Brown	Yellow	Medium	N/A	N/A	8
P5063-09	MBHL34S	N/A	1.41	100	Brown	Yellow	Medium	N/A	MP83512	9
P5063-10	MBHL77	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	10
P5063-11	MBHL78	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	11
P5063-12	MBHL79	N/A	1.41	100	Brown	Yellow	Medium	N/A	N/A	12
P5071-01	MBHKX5	N/A	1.24	100	Brown	Yellow	Medium	N/A	N/A	13
P5071-02	MBHKX5D	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	14
P5071-03	MBHKX5S	N/A	1.24	100	Brown	Yellow	Medium	N/A	MP83512	15
PB165507BL	PBS507	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	16
PB165507BS	LCS507	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83506	17

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/23/24 13:14		Kareem	OK
2	S1	S01	CAL2	12/23/24 13:18		Kareem	OK
3	S2	S02	CAL3	12/23/24 13:23		Kareem	OK
4	S3	S03	CAL4	12/23/24 13:26		Kareem	OK
5	S4	S04	CAL5	12/23/24 13:30		Kareem	OK
6	S5	S05	CAL6	12/23/24 13:34		Kareem	OK
7	S6	S06	CAL7	12/23/24 13:38		Kareem	OK
8	ICV001	ICV001	ICV	12/23/24 13:56	Inst. paused for calibration review	Kareem	OK
9	ICB001	ICB001	ICB	12/23/24 14:00		Kareem	OK
10	ICSA001	ICSA001	ICSA	12/23/24 14:04		Kareem	OK
11	ICSAB001	ICSAB001	ICSAB	12/23/24 14:08		Kareem	OK
12	CCV001	CCV001	CCV	12/23/24 14:12		Kareem	OK
13	CCB001	CCB001	CCB	12/23/24 14:16		Kareem	OK
14	P5033-04DL	MBHK96	SAM	12/23/24 14:28	2x for Ca	Kareem	Confirms
15	P5033-12DL	MBHKA2	SAM	12/23/24 14:32	2x for Ca	Kareem	Confirms
16	P5033-13DL	MBHKA3	SAM	12/23/24 14:36	2x for Ca	Kareem	Confirms
17	P5034-03DL	MBHKB6	SAM	12/23/24 14:40	2x for Mn	Kareem	Confirms
18	P5034-04DL	MBHKB6D	DUP	12/23/24 14:44	2x for Mn	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

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Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

19	P5034-03LDL	MBHKB6L	SD	12/23/24 14:48	10x for Mn	Kareem	Confirms
20	P5034-05DL	MBHKB6S	MS	12/23/24 14:52	2x for Mn	Kareem	Confirms
21	P5034-13DL	MBHKJ0	SAM	12/23/24 14:56	5x for Ca	Kareem	Confirms
22	P5233-03DL	ME28R7	SAM	12/23/24 15:00	2x for Ca	Kareem	Confirms
23	P5233-04DL	ME28R8	SAM	12/23/24 15:04	2x for Ca	Kareem	Confirms
24	P5233-06DL	ME28S0	SAM	12/23/24 15:08	2x for Ca	Kareem	Confirms
25	P5233-17DL	ME28T1	SAM	12/23/24 15:11	5x for Fe	Kareem	Confirms
26	P5233-19DL	ME28T3	SAM	12/23/24 15:15	2x for Fe	Kareem	Confirms
27	P5037-12DL	MBHK75	SAM	12/23/24 15:29	2x for Ca	Kareem	Confirms
28	P5037-20DL	MBHKG7	SAM	12/23/24 15:33	2x for Ca	Kareem	Confirms
29	P5028-01DL	MBHK34	SAM	12/23/24 15:37	2x for Ca	Kareem	Confirms
30	P5028-02DL	MBHK35	SAM	12/23/24 15:41	2x for Ca	Kareem	Confirms
31	P5009-21DL	MBHJZ3	SAM	12/23/24 15:45	2x for Ca	Kareem	Confirms
32	P4984-08DL	MBHJT5	SAM	12/23/24 15:49	5x for Ca	Kareem	Confirms
33	P4983-20DL	MBHJH0	SAM	12/23/24 15:53	5x for Ca	Kareem	Confirms
34	CCV002	CCV002	CCV	12/23/24 15:57		Kareem	OK
35	CCB002	CCB002	CCB	12/23/24 16:10	Inst. paused for review	Kareem	OK
36	P5039-07DL	MBHKJ7	SAM	12/23/24 16:14	2x for Ca	Kareem	Confirms
37	P5039-08DL	MBHKJ7D	DUP	12/23/24 16:18	2x for Ca	Kareem	Confirms
38	P5039-07LDL	MBHKJ7L	SD	12/23/24 16:21	10x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

39	P5039-09DL	MBHKJ7S	MS	12/23/24 16:26	2x for Ca	Kareem	Confirms
40	P5039-16DL	MBHKL8	SAM	12/23/24 16:29	2x for Ca	Kareem	Confirms
41	P5180-01DL	MYCYW9	SAM	12/23/24 16:33	4x for Mn	Kareem	Confirms
42	P5180-03DL	MYCYX1	SAM	12/23/24 16:37	4x for Mn	Kareem	Confirms
43	P5180-04DL	MYCYX2	SAM	12/23/24 16:41	5x for Mn	Kareem	Confirms
44	P5180-05DL	MYCYX3	SAM	12/23/24 16:45	8x for Mn	Kareem	Confirms
45	P5180-06DL	MYCYX4	SAM	12/23/24 16:49	8x for Mn	Kareem	Confirms
46	P5180-07DL	MYCYX5	SAM	12/23/24 16:53	8x for Mn	Kareem	Confirms
47	P5180-08DL	MYCYX6	SAM	12/23/24 16:57	8x for Mn	Kareem	Confirms
48	P5180-09DL	MYCYX7	SAM	12/23/24 17:01	8x for Mn	Kareem	Confirms
49	P5180-10DL	MYCYX8	SAM	12/23/24 17:05	10x for Mn	Kareem	Confirms
50	P5181-10DL	MYCYY8	SAM	12/23/24 17:09	4x for Mn	Kareem	Confirms
51	P5184-20DL	MYCZF8	SAM	12/23/24 17:13		Kareem	OK
52	P5184-21DL	MYCZF8D	DUP	12/23/24 17:17		Kareem	OK
53	P5184-20LDL	MYCZF8L	SD	12/23/24 17:21		Kareem	OK
54	P5184-22DL	MYCZF8S	MS	12/23/24 17:25	MS fail for Cr (862.76 ppb), Zn (1114.67 ppb), Ag(Below RL)	Kareem	OK
55	P5154-09DL	ME28P7	SAM	12/23/24 17:29	5x for Ca	Kareem	Confirms
56	CCV003	CCV003	CCV	12/23/24 17:33		Kareem	OK
57	CCB003	CCB003	CCB	12/23/24 17:37		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

58	P4978-05DL	MBHJ51	SAM	12/23/24 17:41	5x for Ca	Kareem	Confirms
59	P4978-06DL	MBHJ52	SAM	12/23/24 17:45	5x for Ca	Kareem	Confirms
60	P4978-07DL	MBHJ53	SAM	12/23/24 17:49	5x for Ca	Kareem	Confirms
61	P4979-14DL	MBHJA2	SAM	12/23/24 17:53	2x for Ca	Kareem	Confirms
62	P4979-16DL	MBHJA4	SAM	12/23/24 17:57	5x for Ca	Kareem	Confirms
63	P4980-03DL	MBHJ72	SAM	12/23/24 18:01	5x for Ca	Kareem	Confirms
64	P4980-10DL	MBHJ86	SAM	12/23/24 18:05	5x for Ca	Kareem	Confirms
65	P4980-16DL	MBHJ90	SAM	12/23/24 18:09	5x for Ca	Kareem	Confirms
66	P4980-17DL	MBHJB0	SAM	12/23/24 18:13	5x for Ca	Kareem	Confirms
67	P4982-05DL	MBHJ37	SAM	12/23/24 18:17	5x for Ca	Kareem	Confirms
68	P4982-15DL	MBHJE9	SAM	12/23/24 18:21	5x for Ca	Kareem	Confirms
69	P4982-16DL	MBHJF0	SAM	12/23/24 18:24	5x for Ca	Kareem	Confirms
70	P5008-02DL	MBHJJ1	SAM	12/23/24 18:28	5x for Ca	Kareem	Confirms
71	P5008-03DL	MBHJJ3	SAM	12/23/24 18:32	5x for Ca	Kareem	Confirms
72	P5008-04DL	MBHJJ4	SAM	12/23/24 18:36	5x for Ca	Kareem	Confirms
73	P5008-05DL	MBHJJ5	SAM	12/23/24 18:40	5x for Ca	Kareem	Confirms
74	P5008-06DL	MBHJJ6	SAM	12/23/24 18:44	5x for Ca	Kareem	Confirms
75	P5183-20ADL	MYCZD8A	PS	12/23/24 18:48	PS For Cr(0.016ml m5658),Cu(-0.038ml m5697),Tl(0.05ml mp83745) - 10ml Sample	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

76	P5009-04A	MBHJQ3A	PS	12/23/24 18:52	PS for Cu(0.0032ml m5697),Se(0.013ml mp83726),Tl(0.05ml mp83745), Zn(0.014ml m5819)- 10ml Sample	Kareem	OK
77	P5028-07A	MBHK40A	PS	12/23/24 18:56	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
78	CCV004	CCV004	CCV	12/23/24 19:00		Kareem	OK
79	CCB004	CCB004	CCB	12/23/24 19:03		Kareem	OK
80	P5033-05A	MBHK97A	PS	12/23/24 19:07	PS for Se(0.07ml mp83723),Zn(0.037ml m5819) - 10ml Sample	Kareem	OK
81	P5034-03A	MBHKB6A	PS	12/23/24 19:11	PS For Cu(0.0053ml m5697),Se(0.07ml mp83723),Zn(0.013ml m5819) - 10ml Sample	Kareem	OK
82	P5037-06A	MBHKC0A	PS	12/23/24 19:15	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
83	P5039-07A	MBHKJ7A	PS	12/23/24 19:19	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
84	P5042-01A	MBHKB0A	PS	12/23/24 19:23	PS for Se(0.07ml mp83723)- 10ml Sample	Kareem	OK
85	P5090-01	MBHM14	SAM	12/23/24 19:27		Kareem	OK
86	P5090-02	MBHM15	SAM	12/23/24 19:31		Kareem	OK
87	P5090-03	MBHM16	SAM	12/23/24 19:34		Kareem	OK
88	P5090-04	MBHM17	SAM	12/23/24 19:38		Kareem	OK
89	P5090-05	MBHM18	SAM	12/23/24 19:42		Kareem	OK
90	P5090-06	MBHM19	SAM	12/23/24 19:46		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

91	P5090-07	MBHM20	SAM	12/23/24 19:50		Kareem	OK
92	P5090-08	MBHM21	SAM	12/23/24 19:54		Kareem	OK
93	P5090-09	MBHM22	SAM	12/23/24 19:58		Kareem	OK
94	P5090-10	MBHM23	SAM	12/23/24 20:01		Kareem	OK
95	P5090-11	MBHM24	SAM	12/23/24 20:05		Kareem	OK
96	P5090-12	MBHM25	SAM	12/23/24 20:09		Kareem	OK
97	P5090-13	MBHM25D	DUP	12/23/24 20:13		Kareem	OK
98	P5090-12L	MBHM25L	SD	12/23/24 20:17		Kareem	OK
99	P5090-14	MBHM25S	MS	12/23/24 20:21	MS fail for As (243.86 ppb) , Ba (1459.46 ppb), Cu (427.24 ppb), Se (177 ppb), Zn (1503.85 ppb) & Tl (Below RL)	Kareem	OK
100	CCV005	CCV005	CCV	12/23/24 20:28		Kareem	OK
101	CCB005	CCB005	CCB	12/23/24 20:32		Kareem	OK
102	P5090-15	MBHM26	SAM	12/23/24 20:36		Kareem	OK
103	P5090-16	MBHM27	SAM	12/23/24 20:40		Kareem	OK
104	P5090-17	MBHM28	SAM	12/23/24 20:44		Kareem	OK
105	P5090-18	MBHM36	SAM	12/23/24 20:48		Kareem	OK
106	P5090-19	MBHM37	SAM	12/23/24 20:51		Kareem	OK
107	PB165739BL	PBS739	MB	12/23/24 20:55		Kareem	OK
108	PB165739BS	LCS739	LCS	12/23/24 20:59		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

109	P5063-01	MBHL28	SAM	12/23/24 21:03		Kareem	OK
110	P5063-02	MBHL29	SAM	12/23/24 21:07		Kareem	OK
111	P5063-03	MBHL30	SAM	12/23/24 21:11		Kareem	OK
112	P5063-04	MBHL31	SAM	12/23/24 21:15		Kareem	OK
113	P5063-05	MBHL32	SAM	12/23/24 21:19		Kareem	OK
114	P5063-06	MBHL33	SAM	12/23/24 21:23		Kareem	OK
115	P5063-07	MBHL34	SAM	12/23/24 21:26		Kareem	OK
116	P5063-08	MBHL34D	DUP	12/23/24 21:30		Kareem	OK
117	P5063-07L	MBHL34L	SD	12/23/24 21:34		Kareem	OK
118	P5063-09	MBHL34S	MS	12/23/24 21:38	MS fail for Cu (179.98 ppb), Zn (381.63 ppb) & Sb,Se,Ag (Below RL)	Kareem	OK
119	P5063-10	MBHL77	SAM	12/23/24 21:42		Kareem	OK
120	P5063-11	MBHL78	SAM	12/23/24 21:46		Kareem	OK
121	P5063-12	MBHL79	SAM	12/23/24 21:49		Kareem	OK
122	CCV006	CCV006	CCV	12/23/24 21:53		Kareem	OK
123	CCB006	CCB006	CCB	12/23/24 21:57		Kareem	OK
124	P5071-01	MBHKX5	SAM	12/23/24 22:01		Kareem	OK
125	P5071-02	MBHKX5D	DUP	12/23/24 22:05		Kareem	OK
126	P5071-01L	MBHKX5L	SD	12/23/24 22:09		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

127	P5071-03	MBHKX5S	MS	12/23/24 22:13	MS fail for Cu (86.93 ppb), Se (40.18 ppb), Zn (565.58 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
128	PB165507BL	PBS507	MB	12/23/24 22:16		Kareem	OK
129	PB165507BS	LCS507	LCS	12/23/24 22:20		Kareem	OK
130	P5084-01	MBHLR0	SAM	12/23/24 22:24		Kareem	OK
131	P5084-02	MBHLW6	SAM	12/23/24 22:28		Kareem	OK
132	P5084-03	MBHLW7	SAM	12/23/24 22:32		Kareem	OK
133	P5084-04	MBHLW8	SAM	12/23/24 22:36		Kareem	OK
134	P5084-05	MBHLW9	SAM	12/23/24 22:40	Ca high	Kareem	Dilution
135	P5084-06	MBHLX0	SAM	12/23/24 22:43	Ca high	Kareem	Dilution
136	P5084-07	MBHLX1	SAM	12/23/24 22:47	Ca high	Kareem	Dilution
137	P5084-08	MBHLX2	SAM	12/23/24 22:51	Ca high	Kareem	Dilution
138	P5084-09	MBHLX3	SAM	12/23/24 22:55		Kareem	OK
139	P5084-10	MBHLX4	SAM	12/23/24 22:59		Kareem	OK
140	P5084-11	MBHLX5	SAM	12/23/24 23:03		Kareem	OK
141	P5084-12	MBHLX6	SAM	12/23/24 23:06		Kareem	OK
142	P5084-13	MBHLX7	SAM	12/23/24 23:10		Kareem	OK
143	P5084-14	MBHLX7D	DUP	12/23/24 23:14		Kareem	OK
144	CCV007	CCV007	CCV	12/23/24 23:18		Kareem	OK
145	CCB007	CCB007	CCB	12/23/24 23:22		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

146	P5084-13L	MBHLX7L	SD	12/23/24 23:26		Kareem	OK
147	P5084-15	MBHLX7S	MS	12/23/24 23:30	MS fail for Se (70.78 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
148	P5084-16	MBHLX8	SAM	12/23/24 23:33		Kareem	OK
149	P5084-17	MBHLX9	SAM	12/23/24 23:37		Kareem	OK
150	P5084-18	MBHM32	SAM	12/23/24 23:41	Ca high	Kareem	Dilution
151	P5084-19	MBHM33	SAM	12/23/24 23:45		Kareem	OK
152	PB165713BL	PBS713	MB	12/23/24 23:49		Kareem	OK
153	PB165713BS	LCS713	LCS	12/23/24 23:53		Kareem	OK
154	P5091-01	MBHLR4	SAM	12/23/24 23:57	Ca high	Kareem	Dilution
155	P5091-02	MBHLR5	SAM	12/24/24	Ca high	Kareem	Dilution
156	P5091-03	MBHLR6	SAM	12/24/24 00:04	Ca high	Kareem	Dilution
157	P5091-04	MBHLR7	SAM	12/24/24 00:08		Kareem	OK
158	P5091-05	MBHLR8	SAM	12/24/24 00:12		Kareem	OK
159	P5091-06	MBHLR9	SAM	12/24/24 00:16		Kareem	OK
160	P5091-07	MBHLS0	SAM	12/24/24 00:20		Kareem	OK
161	P5091-08	MBHLS0D	DUP	12/24/24 00:23		Kareem	OK
162	P5091-07L	MBHLS0L	SD	12/24/24 00:27		Kareem	OK
163	P5091-09	MBHLS0S	MS	12/24/24 00:31	MS fail for Se (100.55 ppb) & Ag,Tl (Below RL)	Kareem	OK
164	P5091-10	MBHLS1	SAM	12/24/24 00:35		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

165	P5091-11	MBHLS2	SAM	12/24/24 00:39	Ca high	Kareem	Dilution
166	CCV008	CCV008	CCV	12/24/24 00:42		Kareem	OK
167	CCB008	CCB008	CCB	12/24/24 00:46		Kareem	OK
168	P5091-12	MBHLS3	SAM	12/24/24 00:50	Ca high	Kareem	Dilution
169	P5091-13	MBHLS4	SAM	12/24/24 00:54	Ca high	Kareem	Dilution
170	P5091-14	MBHLS5	SAM	12/24/24 00:58		Kareem	OK
171	P5091-15	MBHLS6	SAM	12/24/24 01:02		Kareem	OK
172	P5091-16	MBHLS7	SAM	12/24/24 01:06		Kareem	OK
173	P5091-17	MBHLS8	SAM	12/24/24 01:10		Kareem	OK
174	P5091-18	MBHLS9	SAM	12/24/24 01:13	Ca high	Kareem	Dilution
175	P5091-19	MBHLT0	SAM	12/24/24 01:17	Ca high	Kareem	Dilution
176	P5091-20	MBHLT1	SAM	12/24/24 01:21	Ca high	Kareem	Dilution
177	P5091-21	MBHLT2	SAM	12/24/24 01:25		Kareem	OK
178	P5091-22	MBHLT3	SAM	12/24/24 01:29		Kareem	OK
179	PB165740BL	PBS740	MB	12/24/24 01:33		Kareem	OK
180	PB165740BS	LCS740	LCS	12/24/24 01:37		Kareem	OK
181	P5015-02	MBHK13	SAM	12/24/24 01:41		Kareem	OK
182	P5033-21	MBHKQ4	SAM	12/24/24 01:45		Kareem	OK
183	P5059-20	MBHLD7	SAM	12/24/24 01:49		Kareem	OK
184	P5059-21	MBHLD8	SAM	12/24/24 01:53		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

185	P5092-20	MBHM40	SAM	12/24/24 01:57		Kareem	OK
186	P5132-21	MBHMN5	SAM	12/24/24 02:01		Kareem	OK
187	P5200-15	MBHNJ3	SAM	12/24/24 02:05		Kareem	OK
188	CCV009	CCV009	CCV	12/24/24 02:09		Kareem	OK
189	CCB009	CCB009	CCB	12/24/24 02:12		Kareem	OK
190	P5212-09	MBHNJ4	SAM	12/24/24 02:16		Kareem	OK
191	PB165669BL	PBW669	MB	12/24/24 02:20		Kareem	OK
192	PB165669BS	LCS669	LCS	12/24/24 02:24		Kareem	OK
193	P5086-01	MBHLM6	SAM	12/24/24 02:28		Kareem	OK
194	P5086-02	MBHLM7	SAM	12/24/24 02:32		Kareem	OK
195	P5086-03	MBHLM8	SAM	12/24/24 02:36		Kareem	OK
196	P5086-04	MBHLM9	SAM	12/24/24 02:40		Kareem	OK
197	P5086-05	MBHLN0	SAM	12/24/24 02:44		Kareem	OK
198	P5086-06	MBHLN1	SAM	12/24/24 02:48		Kareem	OK
199	P5086-07	MBHLN2	SAM	12/24/24 02:51		Kareem	OK
200	P5086-08	MBHLN2D	DUP	12/24/24 02:55		Kareem	OK
201	P5086-07L	MBHLN2L	SD	12/24/24 02:59		Kareem	OK
202	P5086-09	MBHLN2S	MS	12/24/24 03:03	MS fail for Be (8.0 ppb), Cu (169.15 ppb), Se (80.54 ppb), Zn (524.51 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

203	P5086-10	MBHLN3	SAM	12/24/24 03:07		Kareem	OK
204	P5086-11	MBHLN4	SAM	12/24/24 03:11		Kareem	OK
205	P5086-12	MBHLN5	SAM	12/24/24 03:14		Kareem	OK
206	P5086-13	MBHLN6	SAM	12/24/24 03:18		Kareem	OK
207	P5086-14	MBHLN7	SAM	12/24/24 03:22	Ca high	Kareem	Dilution
208	P5086-15	MBHLN8	SAM	12/24/24 03:26	Ca high	Kareem	Dilution
209	P5086-16	MBHLN9	SAM	12/24/24 03:30	Ca high	Kareem	Dilution
210	CCV010	CCV010	CCV	12/24/24 03:34		Kareem	OK
211	CCB010	CCB010	CCB	12/24/24 03:37		Kareem	OK
212	P5086-17	MBHLP7	SAM	12/24/24 03:42		Kareem	OK
213	P5086-18	MBHLP8	SAM	12/24/24 03:45		Kareem	OK
214	P5086-19	MBHLP9	SAM	12/24/24 03:49		Kareem	OK
215	P5086-20	MBHLQ0	SAM	12/24/24 03:53		Kareem	OK
216	P5086-21	MBHLQ1	SAM	12/24/24 03:57		Kareem	OK
217	P5086-22	MBHLQ2	SAM	12/24/24 04:01		Kareem	OK
218	PB165725BL	PBS725	MB	12/24/24 04:04		Kareem	OK
219	PB165725BS	LCS725	LCS	12/24/24 04:08		Kareem	OK
220	P5089-01	MBHLZ4	SAM	12/24/24 04:12		Kareem	OK
221	P5089-02	MBHLZ4D	DUP	12/24/24 04:16		Kareem	OK
222	P5089-01L	MBHLZ4L	SD	12/24/24 04:20		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

223	P5089-03	MBHLZ4S	MS	12/24/24 04:24	MS fail for As (201.58 ppb), Cu (299.10 ppb),Se (72.64 ppb), Zn (952.81 ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
224	P5089-04	MBHLZ5	SAM	12/24/24 04:28		Kareem	OK
225	P5089-05	MBHLZ6	SAM	12/24/24 04:32		Kareem	OK
226	P5089-06	MBHLZ7	SAM	12/24/24 04:35		Kareem	OK
227	P5089-07	MBHLZ8	SAM	12/24/24 04:39		Kareem	OK
228	P5089-08	MBHLZ9	SAM	12/24/24 04:43		Kareem	OK
229	P5089-09	MBHM00	SAM	12/24/24 04:47		Kareem	OK
230	P5089-10	MBHM01	SAM	12/24/24 04:51		Kareem	OK
231	P5089-11	MBHM02	SAM	12/24/24 04:55		Kareem	OK
232	CCV011	CCV011	CCV	12/24/24 04:58		Kareem	OK
233	CCB011	CCB011	CCB	12/24/24 05:02		Kareem	OK
234	P5089-12	MBHM03	SAM	12/24/24 05:06		Kareem	OK
235	P5089-13	MBHM04	SAM	12/24/24 05:10		Kareem	OK
236	P5089-14	MBHM05	SAM	12/24/24 05:14		Kareem	OK
237	P5089-15	MBHM06	SAM	12/24/24 05:17		Kareem	OK
238	P5089-16	MBHM07	SAM	12/24/24 05:21		Kareem	OK
239	P5089-17	MBHM08	SAM	12/24/24 05:25		Kareem	OK
240	P5089-18	MBHM09	SAM	12/24/24 05:29		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

241	P5089-19	MBHM10	SAM	12/24/24 05:33		Kareem	OK
242	P5089-20	MBHM11	SAM	12/24/24 05:37		Kareem	OK
243	P5089-21	MBHM12	SAM	12/24/24 05:40		Kareem	OK
244	P5089-22	MBHM13	SAM	12/24/24 05:44		Kareem	OK
245	PB165727BL	PBS727	MB	12/24/24 05:48		Kareem	OK
246	PB165727BS	LCS727	LCS	12/24/24 05:52		Kareem	OK
247	P5169-01	MJNLH1	SAM	12/24/24 05:56	NOT USE	Kareem	Not Ok
248	P5169-02	MJNLH2	SAM	12/24/24 06:00	NOT USE	Kareem	Not Ok
249	P5169-03	MJNLH5	SAM	12/24/24 06:04	NOT USE	Kareem	Not Ok
250	P5169-04	MJNLH4	SAM	12/24/24 06:08	NOT USE	Kareem	Not Ok
251	P5169-05	MJNLH4D	DUP	12/24/24 06:12	NOT USE	Kareem	Not Ok
252	P5169-04L	MJNLH4L	SD	12/24/24 06:15	NOT USE	Kareem	Not Ok
253	CCV012	CCV012	CCV	12/24/24 06:19		Kareem	OK
254	CCB012	CCB012	CCB	12/24/24 06:23		Kareem	OK
255	P5169-06	MJNLH4S	MS	12/24/24 06:27	NOT USE	Kareem	Not Ok
256	PB165673BL	PBW673	MB	12/24/24 06:35	NOT USE	Kareem	Not Ok
257	PB165673BS	LCS673	LCS	12/24/24 06:39	NOT USE	Kareem	Not Ok
258	P5081-01	MBHLG0	SAM	12/24/24 06:43		Kareem	OK
259	P5081-02	MBHLG1	SAM	12/24/24 06:47	Ca high	Kareem	Dilution
260	P5081-03	MBHLG2	SAM	12/24/24 06:51	Ca high	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

261	P5081-04	MBHLG3	SAM	12/24/24 06:54		Kareem	OK
262	P5081-05	MBHLG4	SAM	12/24/24 06:59		Kareem	OK
263	P5081-06	MBHLG4D	DUP	12/24/24 07:02		Kareem	OK
264	P5081-05L	MBHLG4L	SD	12/24/24 07:06		Kareem	OK
265	P5081-07	MBHLG4S	MS	12/24/24 07:10	MS fail for Be (7.17 ppb) , Cu (275.06 ppb), Se (59.69 ppb), V (178.80 ppb), Zn (1028.26) & Sb,Ag,Tl (Below RL)	Kareem	OK
266	P5081-08	MBHLG5	SAM	12/24/24 07:14		Kareem	OK
267	P5081-09	MBHLG6	SAM	12/24/24 07:18		Kareem	OK
268	P5081-10	MBHLJ1	SAM	12/24/24 07:22		Kareem	OK
269	P5081-11	MBHLJ2	SAM	12/24/24 07:25		Kareem	OK
270	P5081-12	MBHLJ3	SAM	12/24/24 07:29		Kareem	OK
271	P5081-13	MBHLJ4	SAM	12/24/24 07:33		Kareem	OK
272	P5081-14	MBHLJ5	SAM	12/24/24 07:37		Kareem	OK
273	P5081-15	MBHLJ6	SAM	12/24/24 07:41		Kareem	OK
274	CCV013	CCV013	CCV	12/24/24 07:45		Kareem	OK
275	CCB013	CCB013	CCB	12/24/24 07:48		Kareem	OK
276	P5081-16	MBHLJ7	SAM	12/24/24 07:52		Kareem	OK
277	P5081-17	MBHLK5	SAM	12/24/24 07:56		Kareem	OK
278	P5081-18	MBHLK6	SAM	12/24/24 08:00		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

279	P5081-19	MBHLK7	SAM	12/24/24 08:04		Kareem	OK
280	P5081-20	MBHLK8	SAM	12/24/24 08:08		Kareem	OK
281	P5081-21	MBHLK9	SAM	12/24/24 08:11		Kareem	OK
282	P5081-22	MBHLL0	SAM	12/24/24 08:15		Kareem	OK
283	PB165694BL	PBS694	MB	12/24/24 08:19		Kareem	OK
284	PB165694BS	LCS694	LCS	12/24/24 08:23		Kareem	OK
285	P5083-01	MBHLJ8	SAM	12/24/24 08:27		Kareem	OK
286	P5083-02	MBHLJ9	SAM	12/24/24 08:31		Kareem	OK
287	P5083-03	MBHLK0	SAM	12/24/24 08:35		Kareem	OK
288	P5083-04	MBHLK0D	DUP	12/24/24 08:39		Kareem	OK
289	P5083-03L	MBHLK0L	SD	12/24/24 08:42		Kareem	OK
290	P5083-05	MBHLK0S	MS	12/24/24 08:46	MS fail for Se (74.03 ppb), Zn (183 ppb) & Ag,Tl (Below RL)	Kareem	OK
291	P5083-06	MBHLK1	SAM	12/24/24 08:50		Kareem	OK
292	P5083-07	MBHLK2	SAM	12/24/24 08:54		Kareem	OK
293	P5083-08	MBHLK3	SAM	12/24/24 08:58		Kareem	OK
294	P5083-09	MBHLK4	SAM	12/24/24 09:02		Kareem	OK
295	CCV014	CCV014	CCV	12/24/24 09:05		Kareem	OK
296	CCB014	CCB014	CCB	12/24/24 09:09		Kareem	OK
297	P5083-10	MBHLL9	SAM	12/24/24 09:13		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134069

Review By	Sarabjit Jaswal	Review On	12/25/2024 11:40:50 PM
Supervise By	Kareem Khairalla	Supervise On	12/27/2024 4:23:37 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

298	P5083-11	MBHLM0	SAM	12/24/24 09:17		Kareem	OK
299	P5083-12	MBHLM1	SAM	12/24/24 09:21		Kareem	OK
300	P5083-13	MBHLM2	SAM	12/24/24 09:25		Kareem	OK
301	P5083-14	MBHLM3	SAM	12/24/24 09:28	Ca high	Kareem	Dilution
302	P5083-15	MBHLM4	SAM	12/24/24 09:32	Ca high	Kareem	Dilution
303	P5083-16	MBHLM5	SAM	12/24/24 09:36	Ca high	Kareem	Dilution
304	P5083-17	MBHLQ4	SAM	12/24/24 09:40		Kareem	OK
305	P5083-18	MBHLQ5	SAM	12/24/24 09:44		Kareem	OK
306	P5083-19	MBHLQ6	SAM	12/24/24 09:48		Kareem	OK
307	P5083-20	MBHLQ7	SAM	12/24/24 09:52		Kareem	OK
308	P5083-21	MBHLQ8	SAM	12/24/24 09:55		Kareem	OK
309	P5083-22	MBHLQ9	SAM	12/24/24 09:59		Kareem	OK
310	PB165632BL	PBS632	MB	12/24/24 10:03	NOT USE	Kareem	Not Ok
311	PB165632BS	LCS632	LCS	12/24/24 10:07	NOT USE	Kareem	Not Ok
312	CCV015	CCV015	CCV	12/24/24 10:11		Kareem	OK
313	CCB015	CCB015	CCB	12/24/24 10:15		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/29/24 01:11		Kareem	OK
2	S1	S01	CAL2	12/29/24 01:16		Kareem	OK
3	S2	S02	CAL3	12/29/24 01:20		Kareem	OK
4	S3	S03	CAL4	12/29/24 01:23		Kareem	OK
5	S4	S04	CAL5	12/29/24 01:27		Kareem	OK
6	S5	S05	CAL6	12/29/24 01:31		Kareem	OK
7	S6	S06	CAL7	12/29/24 01:35		Kareem	OK
8	ICV004	ICV004	ICV	12/29/24 01:54	Inst. paused for calibration review	Kareem	OK
9	ICB004	ICB004	ICB	12/29/24 01:58		Kareem	OK
10	ICSA004	ICSA004	ICSA	12/29/24 02:02		Kareem	OK
11	ICSAB004	ICSAB004	ICSAB	12/29/24 02:06		Kareem	OK
12	CCV033	CCV033	CCV	12/29/24 02:10		Kareem	OK
13	CCB033	CCB033	CCB	12/29/24 02:14		Kareem	OK
14	PB165360BL	PBS360	MB	12/29/24 02:18		Kareem	OK
15	PB165360BS	LCS360	LCS	12/29/24 02:22		Kareem	OK
16	PB165369BL	PBS369	MB	12/29/24 02:26		Kareem	OK
17	PB165369BS	LCS369	LCS	12/29/24 02:30		Kareem	OK
18	PB165395BL	PBS395	MB	12/29/24 02:34		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

19	PB165395BS	LCS395	LCS	12/29/24 02:38		Kareem	OK
20	PB165396BL	PBS396	MB	12/29/24 02:42		Kareem	OK
21	PB165396BS	LCS396	LCS	12/29/24 02:46		Kareem	OK
22	PB165434BL	PBS434	MB	12/29/24 02:51		Kareem	OK
23	PB165434BS	LCS434	LCS	12/29/24 02:55		Kareem	OK
24	PB165465BL	PBS465	MB	12/29/24 02:59		Kareem	OK
25	PB165465BS	LCS465	LCS	12/29/24 03:03		Kareem	OK
26	PB165488BL	PBS488	MB	12/29/24 03:07		Kareem	OK
27	PB165488BS	LCS488	LCS	12/29/24 03:11		Kareem	OK
28	P5030-01	MBHK41	SAM	12/29/24 03:15		Kareem	OK
29	P5030-02	MBHK42	SAM	12/29/24 03:19		Kareem	OK
30	P5030-03	MBHK43	SAM	12/29/24 03:23		Kareem	OK
31	P5030-04	MBHK44	SAM	12/29/24 03:27		Kareem	OK
32	P5030-05	MBHK44D	DUP	12/29/24 03:31		Kareem	OK
33	P5030-04L	MBHK44L	SD	12/29/24 03:35		Kareem	OK
34	CCV034	CCV034	CCV	12/29/24 03:39		Kareem	OK
35	CCB034	CCB034	CCB	12/29/24 03:42		Kareem	OK
36	P5030-06	MBHK44S	MS	12/29/24 03:46	MS fail for As (267.34 ppb) & Ag,Tl (Below RL)	Kareem	OK
37	P5030-07	MBHK45	SAM	12/29/24 03:50		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

38	P5030-08	MBHK46	SAM	12/29/24 03:54		Kareem	OK
39	P5030-09	MBHK47	SAM	12/29/24 03:58		Kareem	OK
40	P5030-10	MBHK48	SAM	12/29/24 04:02	Ca high	Kareem	Dilution
41	P5030-11	MBHK49	SAM	12/29/24 04:06	Ca,Mg high	Kareem	Dilution
42	P5030-12	MBHK50	SAM	12/29/24 04:10	Ca,Mg high	Kareem	Dilution
43	P5030-13	MBHKC4	SAM	12/29/24 04:14		Kareem	OK
44	P5030-14	MBHKC5	SAM	12/29/24 04:18		Kareem	OK
45	P5030-15	MBHKC6	SAM	12/29/24 04:22		Kareem	OK
46	P5030-16	MBHKC7	SAM	12/29/24 04:26		Kareem	OK
47	P5030-17	MBHKC8	SAM	12/29/24 04:30		Kareem	OK
48	P5030-18	MBHKC9	SAM	12/29/24 04:34		Kareem	OK
49	P5030-19	MBHKD0	SAM	12/29/24 04:38		Kareem	OK
50	P5030-20	MBHKD1	SAM	12/29/24 04:42		Kareem	OK
51	P5030-21	MBHKG4	SAM	12/29/24 04:45		Kareem	OK
52	P5030-22	MBHKG5	SAM	12/29/24 04:49		Kareem	OK
53	P5032-01	MBHK55	SAM	12/29/24 04:53		Kareem	OK
54	P5032-02	MBHK56	SAM	12/29/24 04:57		Kareem	OK
55	P5032-03	MBHK57	SAM	12/29/24 05:01		Kareem	OK
56	CCV035	CCV035	CCV	12/29/24 05:05		Kareem	OK
57	CCB035	CCB035	CCB	12/29/24 05:09		Kareem	OK

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Instrument ID: P5

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

58	P5032-04	MBHK58	SAM	12/29/24 05:13		Kareem	OK
59	P5032-05	MBHK59	SAM	12/29/24 05:17	Ca high	Kareem	Dilution
60	P5032-06	MBHK60	SAM	12/29/24 05:20	Ca,Mn high	Kareem	Dilution
61	P5032-07	MBHK61	SAM	12/29/24 05:24	Ca high	Kareem	Dilution
62	P5032-08	MBHK62	SAM	12/29/24 05:28		Kareem	OK
63	P5032-09	MBHK63	SAM	12/29/24 05:32		Kareem	OK
64	P5032-10	MBHK64	SAM	12/29/24 05:36		Kareem	OK
65	P5032-11	MBHK65	SAM	12/29/24 05:40		Kareem	OK
66	P5032-12	MBHK66	SAM	12/29/24 05:44		Kareem	OK
67	P5032-13	MBHK67	SAM	12/29/24 05:48		Kareem	OK
68	P5032-14	MBHK68	SAM	12/29/24 05:51		Kareem	OK
69	P5032-15	MBHK69	SAM	12/29/24 05:55		Kareem	OK
70	P5032-16	MBHK70	SAM	12/29/24 05:59		Kareem	OK
71	P5032-17	MBHK71	SAM	12/29/24 06:03		Kareem	OK
72	P5032-18	MBHK72	SAM	12/29/24 06:07		Kareem	OK
73	P5032-19	MBHK72D	DUP	12/29/24 06:11		Kareem	OK
74	P5032-18L	MBHK72L	SD	12/29/24 06:15		Kareem	OK
75	P5032-20	MBHK72S	MS	12/29/24 06:19	MS fail for Cu (193.67 ppb), Se (95.29 ppb) & Ag,Tl (Below RL)	Kareem	OK
76	P5032-21	MBHK73	SAM	12/29/24 06:22		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

77	P5032-22	MBHK74	SAM	12/29/24 06:26		Kareem	OK
78	CCV036	CCV036	CCV	12/29/24 06:30		Kareem	OK
79	CCB036	CCB036	CCB	12/29/24 06:34		Kareem	OK
80	P5035-01	MBHKK8	SAM	12/29/24 06:38		Kareem	OK
81	P5035-02	MBHKK9	SAM	12/29/24 06:42		Kareem	OK
82	P5035-03	MBHKL0	SAM	12/29/24 06:46		Kareem	OK
83	P5035-04	MBHKL1	SAM	12/29/24 06:50		Kareem	OK
84	P5035-05	MBHKM6	SAM	12/29/24 06:53	Ca high	Kareem	Dilution
85	P5035-06	MBHKM7	SAM	12/29/24 06:57	Ca high	Kareem	Dilution
86	P5035-07	MBHKM8	SAM	12/29/24 07:01	Ca high	Kareem	Dilution
87	P5035-08	MBHKM9	SAM	12/29/24 07:05		Kareem	OK
88	P5035-09	MBHKM9D	DUP	12/29/24 07:09		Kareem	OK
89	P5035-08L	MBHKM9L	SD	12/29/24 07:13		Kareem	OK
90	P5035-10	MBHKM9S	MS	12/29/24 07:17	MS fail for Ag,Tl (Below RL)	Kareem	OK
91	P5035-11	MBHKN0	SAM	12/29/24 07:21		Kareem	OK
92	P5035-12	MBHKN1	SAM	12/29/24 07:24		Kareem	OK
93	P5035-13	MBHKN2	SAM	12/29/24 07:28		Kareem	OK
94	P5035-14	MBHKN3	SAM	12/29/24 07:32		Kareem	OK
95	P5035-15	MBHKN4	SAM	12/29/24 07:36		Kareem	OK
96	P5035-16	MBHKN5	SAM	12/29/24 07:40		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

97	P5035-17	MBHKN6	SAM	12/29/24 07:44		Kareem	OK
98	P5035-18	MBHKN7	SAM	12/29/24 07:48		Kareem	OK
99	P5035-19	MBHKN8	SAM	12/29/24 07:51		Kareem	OK
100	CCV037	CCV037	CCV	12/29/24 07:55		Kareem	OK
101	CCB037	CCB037	CCB	12/29/24 07:59		Kareem	OK
102	P5035-20	MBHKN9	SAM	12/29/24 08:03	Ca high	Kareem	Dilution
103	P5035-21	MBHKQ0	SAM	12/29/24 08:07		Kareem	OK
104	P5035-22	MBHKQ1	SAM	12/29/24 08:11		Kareem	OK
105	P5036-01	MBHK33	SAM	12/29/24 08:15		Kareem	OK
106	P5036-02	MBHKF3	SAM	12/29/24 08:19		Kareem	OK
107	P5036-03	MBHKF4	SAM	12/29/24 08:22		Kareem	OK
108	P5036-04	MBHKF5	SAM	12/29/24 08:26		Kareem	OK
109	P5036-05	MBHKF6	SAM	12/29/24 08:30		Kareem	OK
110	P5036-06	MBHKF7	SAM	12/29/24 08:34		Kareem	OK
111	P5036-07	MBHKF8	SAM	12/29/24 08:38		Kareem	OK
112	P5036-08	MBHKF8D	DUP	12/29/24 08:42		Kareem	OK
113	P5036-07L	MBHKF8L	SD	12/29/24 08:46		Kareem	OK
114	P5036-09	MBHKF8S	MS	12/29/24 08:50	MS fail for Pb (115.58 ppb) & Ag,Tl (Below RL)	Kareem	OK
115	P5036-10	MBHKF9	SAM	12/29/24 08:54		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

116	P5036-11	MBHKG0	SAM	12/29/24 08:57		Kareem	OK
117	P5036-12	MBHKG1	SAM	12/29/24 09:01		Kareem	OK
118	P5036-13	MBHKD5	SAM	12/29/24 09:05		Kareem	OK
119	P5036-14	MBHKD7	SAM	12/29/24 09:09		Kareem	OK
120	P5036-15	MBHKD8	SAM	12/29/24 09:13		Kareem	OK
121	P5036-16	MBHKD9	SAM	12/29/24 09:17		Kareem	OK
122	CCV038	CCV038	CCV	12/29/24 09:21		Kareem	OK
123	CCB038	CCB038	CCB	12/29/24 09:24		Kareem	OK
124	P5036-17	MBHKE0	SAM	12/29/24 09:29		Kareem	OK
125	P5036-18	MBHKE1	SAM	12/29/24 09:32		Kareem	OK
126	P5036-19	MBHKE2	SAM	12/29/24 09:36		Kareem	OK
127	P5036-20	MBHKE3	SAM	12/29/24 09:40		Kareem	OK
128	P5036-21	MBHKE4	SAM	12/29/24 09:44		Kareem	OK
129	P5036-22	MBHK51	SAM	12/29/24 09:48		Kareem	OK
130	P5038-01	MBHK83	SAM	12/29/24 09:52		Kareem	OK
131	P5038-02	MBHK84	SAM	12/29/24 09:56		Kareem	OK
132	P5038-03	MBHK84D	DUP	12/29/24 09:59		Kareem	OK
133	P5038-02L	MBHK84L	SD	12/29/24 10:03		Kareem	OK
134	P5038-04	MBHK84S	MS	12/29/24 10:07	MS fail for Ag,Tl (Below RL)	Kareem	OK
135	P5038-05	MBHK85	SAM	12/29/24 10:11		Kareem	OK

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Instrument ID: P5

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

136	P5038-06	MBHK86	SAM	12/29/24 10:15		Kareem	OK
137	P5038-07	MBHK87	SAM	12/29/24 10:19		Kareem	OK
138	P5038-08	MBHK88	SAM	12/29/24 10:23	Ca high	Kareem	Dilution
139	P5038-09	MBHK89	SAM	12/29/24 10:27		Kareem	OK
140	P5038-10	MBHK90	SAM	12/29/24 10:30		Kareem	OK
141	P5038-11	MBHK91	SAM	12/29/24 10:34		Kareem	OK
142	P5038-12	MBHK92	SAM	12/29/24 10:38		Kareem	OK
143	P5038-13	MBHKA4	SAM	12/29/24 10:42		Kareem	OK
144	CCV039	CCV039	CCV	12/29/24 10:46		Kareem	OK
145	CCB039	CCB039	CCB	12/29/24 10:50		Kareem	OK
146	P5038-14	MBHKA5	SAM	12/29/24 10:54		Kareem	OK
147	P5038-15	MBHKA6	SAM	12/29/24 10:58	Ca,Mg high	Kareem	Dilution
148	P5038-16	MBHKA7	SAM	12/29/24 11:02	Ca high	Kareem	Dilution
149	P5038-17	MBHKA8	SAM	12/29/24 11:05	Ca,Mg high	Kareem	Dilution
150	P5038-18	MBHKA9	SAM	12/29/24 11:09	Ca high	Kareem	Dilution
151	P5038-19	MBHKB1	SAM	12/29/24 11:13		Kareem	OK
152	P5038-20	MBHKB2	SAM	12/29/24 11:17		Kareem	OK
153	P5038-21	MBHKB3	SAM	12/29/24 11:21		Kareem	OK
154	P5054-01	MBHKR0	SAM	12/29/24 11:25		Kareem	OK
155	P5054-02	MBHKR1	SAM	12/29/24 11:29		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

156	P5054-03	MBHKR2	SAM	12/29/24 11:33		Kareem	OK
157	P5054-04	MBHKR2D	DUP	12/29/24 11:36		Kareem	OK
158	P5054-03L	MBHKR2L	SD	12/29/24 11:40		Kareem	OK
159	P5054-05	MBHKR2S	MS	12/29/24 11:44	MS fail for Cu (373.96 ppb), Zn (1590.07 ppb) & Ag,Tl (Below RL)	Kareem	OK
160	P5054-06	MBHKR3	SAM	12/29/24 11:48		Kareem	OK
161	P5054-07	MBHKR4	SAM	12/29/24 11:52		Kareem	OK
162	P5054-08	MBHKR5	SAM	12/29/24 11:56		Kareem	OK
163	P5054-09	MBHKR6	SAM	12/29/24 12:00		Kareem	OK
164	P5054-10	MBHKR7	SAM	12/29/24 12:04		Kareem	OK
165	P5054-11	MBHKR9	SAM	12/29/24 12:07		Kareem	OK
166	CCV040	CCV040	CCV	12/29/24 12:20		Kareem	OK
167	CCB040	CCB040	CCB	12/29/24 12:24		Kareem	OK
168	P5054-12	MBHKS0	SAM	12/29/24 12:28		Kareem	OK
169	P5054-13	MBHKS1	SAM	12/29/24 12:32		Kareem	OK
170	P5054-14	MBHKS2	SAM	12/29/24 12:36		Kareem	OK
171	P5054-15	MBHKS3	SAM	12/29/24 12:39		Kareem	OK
172	P5054-16	MBHKT8	SAM	12/29/24 12:43		Kareem	OK
173	P5054-17	MBHKT9	SAM	12/29/24 12:47		Kareem	OK
174	P5054-18	MBHKW0	SAM	12/29/24 12:51		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

175	P5054-19	MBHKW1	SAM	12/29/24 12:55		Kareem	OK
176	P5054-20	MBHKW2	SAM	12/29/24 12:58	Ca high	Kareem	Dilution
177	P5054-21	MBHKW3	SAM	12/29/24 13:02	Ca high	Kareem	Dilution
178	P5056-01	MBHKX9	SAM	12/29/24 13:06		Kareem	OK
179	P5056-02	MBHKY0	SAM	12/29/24 13:10		Kareem	OK
180	P5056-03	MBHKY1	SAM	12/29/24 13:14		Kareem	OK
181	P5056-04	MBHKY2	SAM	12/29/24 13:18		Kareem	OK
182	P5056-05	MBHKY3	SAM	12/29/24 13:22		Kareem	OK
183	P5056-06	MBHKY4	SAM	12/29/24 13:26		Kareem	OK
184	P5056-07	MBHKY5	SAM	12/29/24 13:29	Ca high	Kareem	Dilution
185	P5056-08	MBHL35	SAM	12/29/24 13:33		Kareem	OK
186	P5056-09	MBHL36	SAM	12/29/24 13:37		Kareem	OK
187	P5056-10	MBHL37	SAM	12/29/24 13:41		Kareem	OK
188	CCV041	CCV041	CCV	12/29/24 13:45		Kareem	OK
189	CCB041	CCB041	CCB	12/29/24 13:49		Kareem	OK
190	P5056-11	MBHL38	SAM	12/29/24 13:53		Kareem	OK
191	P5056-12	MBHL39	SAM	12/29/24 13:57	Ca high	Kareem	Dilution
192	P5056-13	MBHL40	SAM	12/29/24 14:01	Ca high	Kareem	Dilution
193	P5056-14	MBHL41	SAM	12/29/24 14:05	Ca high	Kareem	Dilution
194	P5056-15	MBHL42	SAM	12/29/24 14:08		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

195	P5056-16	MBHL43	SAM	12/29/24 14:12		Kareem	OK
196	P5056-17	MBHL44	SAM	12/29/24 14:16		Kareem	OK
197	P5056-18	MBHL45	SAM	12/29/24 14:20		Kareem	OK
198	P5056-19	MBHL46	SAM	12/29/24 14:24		Kareem	OK
199	P5056-20	MBHL47	SAM	12/29/24 14:28	DUP fail for many parameter	Kareem	Not Ok
200	P5056-21	MBHL47D	DUP	12/29/24 14:31	DUP fail for many parameter	Kareem	Not Ok
201	P5056-20L	MBHL47L	SD	12/29/24 14:35	DUP fail for many parameter	Kareem	Not Ok
202	P5056-22	MBHL47S	MS	12/29/24 14:39	DUP fail for many parameter	Kareem	Not Ok
203	P5090-12A	MBHM25A	PS	12/29/24 14:43	PS for As,Ba,Cu,Se,Tl,Zn	Kareem	OK
204	P5063-07A	MBHL34A	PS	12/29/24 14:47	PS for CU(0.0036 ML-M5697),SE(0.007 ML-MP83726),Zn(0.0075 ML-M5819)	Kareem	OK
205	P5084-13A	MBHLX7A	PS	12/29/24 14:51	PS for Se (0.014 ML-MP83726), Tl (0.05 ML-MP83745) - 10ml sample	Kareem	OK
206	P5091-07A	MBHLS0A	PS	12/29/24 14:55	PS for Se(0.02 ML-MP83726) Tl(0.05 ML-MP83745) - 10ml sample	Kareem	OK

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

207	P5086-07A	MBHLN2A	PS	12/29/24 14:58	PS for Be(0.016 ML-MP83672), Cu(0.0034 ML-M5697), Se(0.034 ML-MP83726), Zn(0.01 ML-M5819), Tl(0.05 ML-MP83745) - 10 ml sample	Kareem	OK
208	P5089-01A	MBHLZ4A	PS	12/29/24 15:02	PS for As(0.004 ML-M5801), Cu(0.006 ML-M5697), Se(0.014 ML-MP83726), Zn(0.019 ML-M5819), Tl(0.05 ML-MP83745) - 10ml sample	Kareem	OK
209	P5083-03A	MBHLK0A	PS	12/29/24 15:06	Not use	Kareem	Not Ok
210	CCV042	CCV042	CCV	12/29/24 15:10		Kareem	OK
211	CCB042	CCB042	CCB	12/29/24 15:13		Kareem	OK
212	PB165759BL	PBS759	MB	12/29/24 15:18		Kareem	OK
213	PB165759BS	LCS759	LCS	12/29/24 15:22		Kareem	OK
214	PB165820BL	PBS820	MB	12/29/24 15:26		Kareem	OK
215	PB165820BS	LCS820	LCS	12/29/24 15:30		Kareem	OK
216	P5156-01	ME28Q6	SAM	12/29/24 15:34		Kareem	OK
217	P5156-02	ME28Q7	SAM	12/29/24 15:37	Ca high	Kareem	Dilution
218	P5156-03	ME28Q8	SAM	12/29/24 15:41	Ca high	Kareem	Dilution
219	P5156-04	ME28Q9	SAM	12/29/24 15:45		Kareem	OK
220	P5156-05	ME28R0	SAM	12/29/24 15:49		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

221	P5156-06	ME28R1	SAM	12/29/24 15:53		Kareem	OK
222	P5156-07	ME28R2	SAM	12/29/24 15:57		Kareem	OK
223	P5156-08	ME28T4	SAM	12/29/24 16:00	Ca high	Kareem	Dilution
224	P5156-09	ME28T5	SAM	12/29/24 16:04		Kareem	OK
225	P5156-10	ME28T6	SAM	12/29/24 16:08	Ca high	Kareem	Dilution
226	P5156-11	ME28T7	SAM	12/29/24 16:12	Ca high	Kareem	Dilution
227	P5156-12	ME28T8	SAM	12/29/24 16:16	Ca high	Kareem	Dilution
228	P5156-13	ME28T9	SAM	12/29/24 16:19	Ca,Fe high	Kareem	Dilution
229	P5156-14	ME28W0	SAM	12/29/24 16:23	Fe high	Kareem	Dilution
230	P5156-15	ME28W1	SAM	12/29/24 16:27	Fe high	Kareem	Dilution
231	P5156-16	ME28W2	SAM	12/29/24 16:31	Fe high	Kareem	Dilution
232	CCV043	CCV043	CCV	12/29/24 16:34		Kareem	OK
233	CCB043	CCB043	CCB	12/29/24 16:38		Kareem	OK
234	P5156-17	ME28W2D	DUP	12/29/24 16:42	Fe high	Kareem	Dilution
235	P5156-16L	ME28W2L	SD	12/29/24 16:46	Fe high	Kareem	Dilution
236	P5156-18	ME28W2S	MS	12/29/24 16:50	Fe high	Kareem	Dilution
237	P5156-19	ME28W3	SAM	12/29/24 16:54		Kareem	OK
238	P5156-20	ME28W4	SAM	12/29/24 16:57		Kareem	OK
239	P5156-21	ME28W5	SAM	12/29/24 17:01	Fe high	Kareem	Dilution
240	P5156-22	ME28W6	SAM	12/29/24 17:05	Fe high	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

241	P5259-01	ME28W7	SAM	12/29/24 17:09		Kareem	OK
242	P5259-02	ME28W8	SAM	12/29/24 17:13		Kareem	OK
243	P5259-03	ME28W9	SAM	12/29/24 17:16		Kareem	OK
244	P5259-04	ME28X0	SAM	12/29/24 17:20		Kareem	OK
245	P5259-05	ME28X0D	DUP	12/29/24 17:24		Kareem	OK
246	P5259-04L	ME28X0L	SD	12/29/24 17:28		Kareem	OK
247	P5259-06	ME28X0S	MS	12/29/24 17:32		Kareem	OK
248	P5259-07	ME28X1	SAM	12/29/24 17:35		Kareem	OK
249	P5259-08	ME28X2	SAM	12/29/24 17:39		Kareem	OK
250	P5259-09	ME28X3	SAM	12/29/24 17:43		Kareem	OK
251	P5259-10	ME28X4	SAM	12/29/24 17:47		Kareem	OK
252	P5259-11	ME28X5	SAM	12/29/24 17:51		Kareem	OK
253	P5259-12	ME28X6	SAM	12/29/24 17:54	Ca high	Kareem	Dilution
254	CCV044	CCV044	CCV	12/29/24 17:58		Kareem	OK
255	CCB044	CCB044	CCB	12/29/24 18:02		Kareem	OK
256	P5259-13	ME28X7	SAM	12/29/24 18:06		Kareem	OK
257	P5259-14	ME28X8	SAM	12/29/24 18:10	Ca high	Kareem	Dilution
258	P5259-15	ME28X9	SAM	12/29/24 18:14		Kareem	OK
259	P5259-16	ME28Y0	SAM	12/29/24 18:18		Kareem	OK
260	P5259-17	ME28Y1	SAM	12/29/24 18:21		Kareem	OK

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

261	P5259-18	ME28Y2	SAM	12/29/24 18:25		Kareem	OK
262	P5259-19	ME28Y3	SAM	12/29/24 18:29		Kareem	OK
263	P5259-20	ME28Y4	SAM	12/29/24 18:33	Ca high	Kareem	Dilution
264	P5259-21	ME28Y5	SAM	12/29/24 18:37	Ca high	Kareem	Dilution
265	PB165851BL	PBS851	MB	12/29/24 18:40		Kareem	OK
266	PB165851BS	LCS851	LCS	12/29/24 18:44		Kareem	OK
267	P5125-01	MBHM90	SAM	12/29/24 18:48		Kareem	OK
268	P5125-02	MBHM91	SAM	12/29/24 18:52		Kareem	OK
269	P5125-03	MBHM92	SAM	12/29/24 18:56		Kareem	OK
270	P5125-04	MBHM93	SAM	12/29/24 19:00		Kareem	OK
271	P5125-05	MBHM94	SAM	12/29/24 19:04		Kareem	OK
272	P5125-06	MBHM94D	DUP	12/29/24 19:07		Kareem	OK
273	P5125-05L	MBHM94L	SD	12/29/24 19:11		Kareem	OK
274	P5125-07	MBHM94S	MS	12/29/24 19:15	MS fail for Cu (596.26 ppb), Se (105.64 ppb), Zn (3225.59 ppb) & Ag,Tl (Below RL)	Kareem	OK
275	P5125-08	MBHM95	SAM	12/29/24 19:19		Kareem	OK
276	CCV045	CCV045	CCV	12/29/24 19:23		Kareem	OK
277	CCB045	CCB045	CCB	12/29/24 19:27		Kareem	OK
278	P5125-09	MBHM96	SAM	12/29/24 19:31		Kareem	OK

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

279	P5125-10	MBHM97	SAM	12/29/24 19:34		Kareem	OK
280	P5125-11	MBHMB2	SAM	12/29/24 19:38		Kareem	OK
281	P5125-12	MBHMB3	SAM	12/29/24 19:42		Kareem	OK
282	P5125-13	MBHMB4	SAM	12/29/24 19:46		Kareem	OK
283	P5125-14	MBHMB5	SAM	12/29/24 19:50		Kareem	OK
284	P5125-15	MBHMB6	SAM	12/29/24 19:54		Kareem	OK
285	P5125-16	MBHMB7	SAM	12/29/24 19:57		Kareem	OK
286	P5125-17	MBHMB8	SAM	12/29/24 20:01		Kareem	OK
287	P5125-18	MBHMD5	SAM	12/29/24 20:05		Kareem	OK
288	P5125-19	MBHMD6	SAM	12/29/24 20:09		Kareem	OK
289	PB165881BL	PBS881	MB	12/29/24 20:13		Kareem	OK
290	PB165881BS	LCS881	LCS	12/29/24 20:17		Kareem	OK
291	P5130-01	MBHMF4	SAM	12/29/24 20:21		Kareem	OK
292	P5130-02	MBHMF5	SAM	12/29/24 20:24		Kareem	OK
293	P5130-03	MBHMF6	SAM	12/29/24 20:28		Kareem	OK
294	P5130-04	MBHMF7	SAM	12/29/24 20:32		Kareem	OK
295	P5130-05	MBHMF8	SAM	12/29/24 20:36		Kareem	OK
296	P5130-06	MBHMF9	SAM	12/29/24 20:40		Kareem	OK
297	P5130-07	MBHMG3	SAM	12/29/24 20:44		Kareem	OK
298	CCV046	CCV046	CCV	12/29/24 20:47		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514

299	CCB046	CCB046	CCB	12/29/24 20:51		Kareem	OK
300	P5130-08	MBHMG4	SAM	12/29/24 20:55		Kareem	OK
301	P5130-09	MBHMG5	SAM	12/29/24 20:59		Kareem	OK
302	P5130-10	MBHMG6	SAM	12/29/24 21:03		Kareem	OK
303	P5130-11	MBHMG7	SAM	12/29/24 21:07		Kareem	OK
304	P5130-12	MBHMH2	SAM	12/29/24 21:11		Kareem	OK
305	P5130-13	MBHMH3	SAM	12/29/24 21:14		Kareem	OK
306	P5130-14	MBHMH4	SAM	12/29/24 21:18		Kareem	OK
307	P5130-15	MBHMH5	SAM	12/29/24 21:22	MS,SD fail for many parameter	Kareem	Not Ok
308	P5130-16	MBHMH5D	DUP	12/29/24 21:26	MS,SD fail for many parameter	Kareem	Not Ok
309	P5130-15L	MBHMH5L	SD	12/29/24 21:30	MS,SD fail for many parameter	Kareem	Not Ok
310	P5130-17	MBHMH5S	MS	12/29/24 21:34	MS,SD fail for many parameter	Kareem	Not Ok
311	P5130-18	MBHML5	SAM	12/29/24 21:37		Kareem	OK
312	P5130-19	MBHML6	SAM	12/29/24 21:41		Kareem	OK
313	P5130-20	MBHML7	SAM	12/29/24 21:45		Kareem	OK
314	P5130-21	MBHML8	SAM	12/29/24 21:49		Kareem	OK
315	P5130-22	MBHML9	SAM	12/29/24 21:53		Kareem	OK
316	CCV047	CCV047	CCV	12/29/24 21:56		Kareem	OK
317	CCB047	CCB047	CCB	12/29/24 22:00		Kareem	OK

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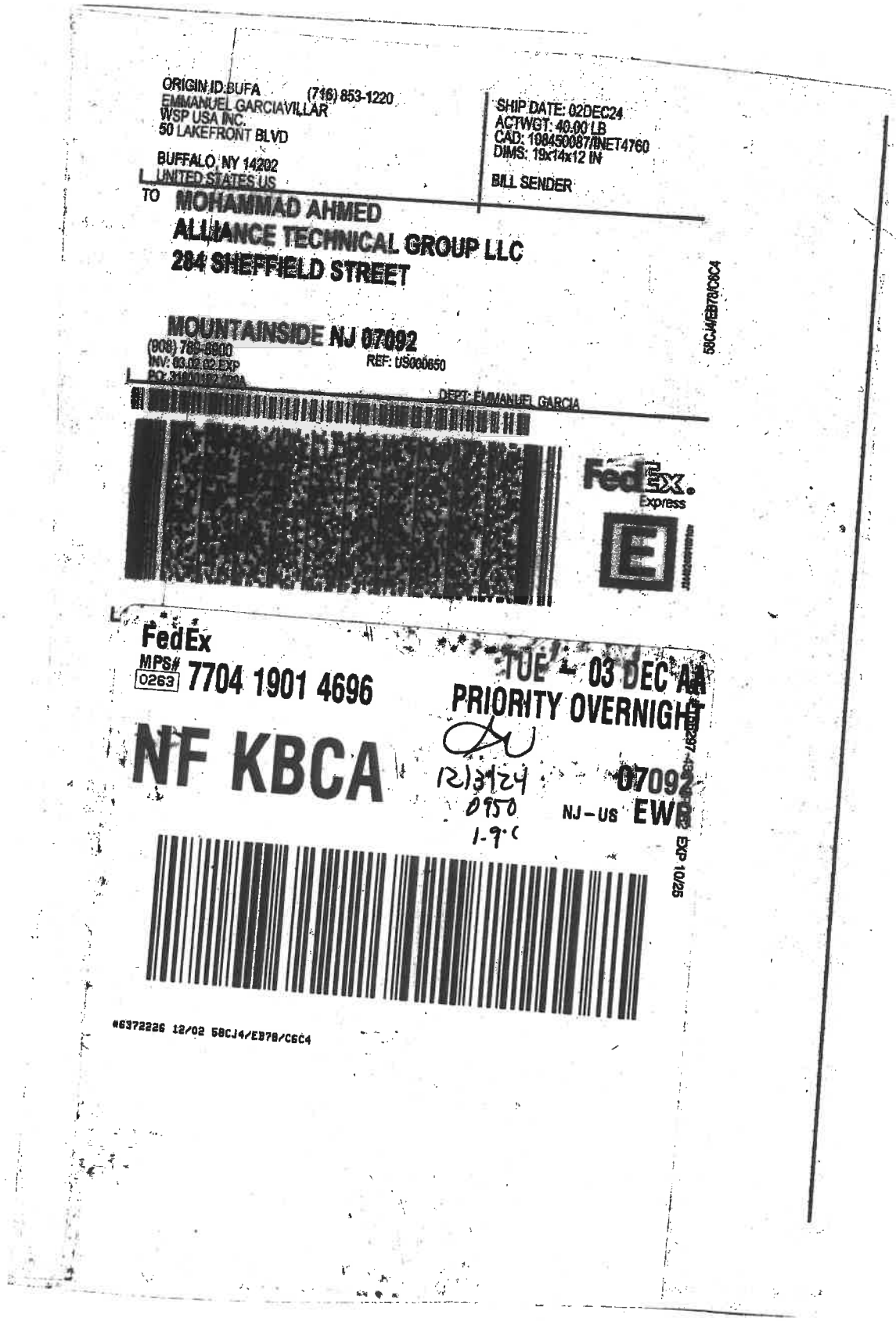
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83726,M5819,M5697
LCS Standard	
Chk Standard	MP83513,MP83514



ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 02DEC24
ACTWGT: 40.00 LB
CAD: 198450087/INET4760
DIMS: 19x14x12 IN

BILL SENDER

TO MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900
INV: 00.00.00.EXP
PO: 3100[illegible]00A

REF: US000650

DEPT: EMMANUEL GARCIA

58CJ4/EB78/C6C4

FedEx Express

FedEx
MPS# 0263 7704 1901 4696

TUE - 03 DEC A
PRIORITY OVERNIGHT

NF KBCA

12/3/24
0950
1-9C

07092
NJ-US EWR

EXP 10/25

#6372226 12/02 58CJ4/EB78/C6C4

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

Login Summary Report

Order ID :	P5063	Order Date :	12/3/2024 9:50:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	12/3/2024 9:50:00 AM	EDD Type :	EPA CLP
Date Sign Off :	12/4/2024 11:31:44 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5063-01	MBHL28	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-02	MBHL29	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-03	MBHL30	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-04	MBHL31	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-05	MBHL32	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-06	MBHL33	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-07	MBHL34	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-08	MBHL34D	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-09	MBHL34S	Solid	11/22/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-10	MBHL77	Solid	11/21/2024						
				Metals CLP Full		SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids		Chemtech -SOP	15	01/07/2025	01/07/2025

P5063-11	MBHL78	Solid	11/21/2024					
				Metals CLP Full	SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids	Chemtech -SOP	15	01/07/2025	01/07/2025
P5063-12	MBHL79	Solid	11/21/2024					
				Metals CLP Full	SFAM_AES	15	01/07/2025	01/07/2025
				Percent Solids	Chemtech -SOP	15	01/07/2025	01/07/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165507 **WorkList ID :** 186148 **Department :** Digestion **Date :** 12-09-2024 13:59:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5063-01	MBHL28	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-02	MBHL29	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-03	MBHL30	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-04	MBHL31	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-05	MBHL32	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-06	MBHL33	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-07	MBHL34	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-08	MBHL34D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-09	MBHL34S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-10	MBHL77	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/22/2024	SFAM_AES
P5063-11	MBHL78	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/21/2024	SFAM_AES
P5063-12	MBHL79	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/21/2024	SFAM_AES
P5071-01	MBHKX5	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C41	11/21/2024	SFAM_AES
P5071-02	MBHKX5D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/21/2024	SFAM_AES
P5071-03	MBHKX5S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/21/2024	SFAM_AES

978

Date/Time 12/09/24 14:20

Raw Sample Received by: JSP (Met div)

Raw Sample Relinquished by:

Date/Time 12/09/24 15:20

Raw Sample Received by:

Raw Sample Relinquished by: JSP (Met div)