

SDG COVER PAGE

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

Lab Code: ACE Case No.: 51715 MA No.: 3105.0 SDG No.: MH2GK2

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
MH2GK2	P4553-01		X		
MH2GK2D	P4553-02		X		
MH2GK2S	P4553-03		X		
MH2GM1	P4553-04		X		
MH2GM2	P4553-05		X		
MH2GM3	P4553-06		X		
MH2GM4	P4553-07		X		
MH2GM5	P4553-08		X		
MH2GM6	P4553-09		X		
MH2GM7	P4553-10		X		
MH2GM8	P4553-11		X		
MH2GM9	P4553-12		X		
MH2GN0	P4553-13		X		
MH2GN1	P4553-14		X		
MH2GN2	P4553-15		X		
MH2GN3	P4553-16		X		
MH2GN4	P4553-17		X		
MH2GN5	P4553-18		X		
MH2GN6	P4553-19		X		
MH2GN7	P4553-20		X		
MH2GN8	P4553-21		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: _____

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
S-LABQC-2024-700	MH2GK1	Soil/ SH	Subsample	ICP/MS(14)	24378 (None) (3)	XX	10/17/2024 13:26	
S-LABQC-2024-701	MH2GK2	Soil/ SH	Subsample	ICP/MS(14)	24379 (None) (3)	XX	10/17/2024 13:34	
S0100-BY-0001-01	MH2GK3	Soil/ SH	Composite	ICP/MS(14)	24380 (None) (1)	BY-0100	10/17/2024 13:56	
S0100-BY-0106-01	MH2GK4	Soil/ SH	Composite	ICP/MS(14)	24381 (None) (1)	BY-0100	10/17/2024 13:58	
S0100-BY-0612-01	MH2GK5	Soil/ SH	Composite	ICP/MS(14)	24382 (None) (1)	BY-0100	10/17/2024 14:00	
S0100-BY-1218-01	MH2GK6	Soil/ SH	Composite	ICP/MS(14)	24383 (None) (1)	BY-0100	10/17/2024 14:02	
S0100-BY-0001-02	MH2GK7	Soil/ SH	Composite	ICP/MS(14)	24384 (None) (1)	BY-0100	10/17/2024 14:04	
S0100-BY-0106-02	MH2GK8	Soil/ SH	Composite	ICP/MS(14)	24385 (None) (1)	BY-0100	10/17/2024 14:06	
S0100-BY-0612-02	MH2GK9	Soil/ SH	Composite	ICP/MS(14)	24386 (None) (1)	BY-0100	10/17/2024 14:08	
S0100-BY-1218-02	MH2GL0	Soil/ SH	Composite	ICP/MS(14)	24387 (None) (1)	BY-0100	10/17/2024 14:10	

Sample(s) to be used for Lab QC: S-LABQC-2024-700 Tag 24378, S-LABQC-2024-701 Tag 24379 - Special Instructions:
Analyze per MA 3105

Shipment for Case Complete? N

Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	[Signature] FNT	10/24/24 1200	[Signature]	7:25 10-25-24	28-Gun#1 3.2" Custody Seal Intact Temp Blank present

USEPA CLP Inorganics COC (LAB COPY)

Date Shipped: 10/24/2024
Carrier Name: FedEx
Airbill No: 7794 9320 7803

68HERH20D0011
CHAIN OF CUSTODY RECORD

Case #: 51715
Cooler #: 5

SDG # MH2GK2
No: 8-102424-100519-0597
Lab: Alliance Technical Group LLC
Lab Contact: Sohli Jodhani
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
S0100-ED-0612-01	MH2GM1	Soil/ SH	Composite	ICP/MS(14)	24398 (None) (1)	ED-0100	10/17/2024 13:12	
S0100-ED-1218-01	MH2GM2	Soil/ SH	Composite	ICP/MS(14)	24399 (None) (1)	ED-0100	10/17/2024 13:14	
S0100-FY-0001-01	MH2GM3	Soil/ SH	Composite	ICP/MS(14)	24400 (None) (1)	FY-0100	10/17/2024 13:24	
S0100-FY-0106-01	MH2GM4	Soil/ SH	Composite	ICP/MS(14)	24401 (None) (1)	FY-0100	10/17/2024 13:26	
S0100-FY-0612-01	MH2GM5	Soil/ SH	Composite	ICP/MS(14)	24402 (None) (1)	FY-0100	10/17/2024 13:28	
S0100-FY-1218-01	MH2GM6	Soil/ SH	Composite	ICP/MS(14)	24403 (None) (1)	FY-0100	10/17/2024 13:30	
S0100-LRN-0001-01	MH2GM7	Soil/ SH	Composite	ICP/MS(14)	24404 (None) (1)	LRN-0100	10/17/2024 13:32	
S0100-LRN-0106-01	MH2GM8	Soil/ SH	Composite	ICP/MS(14)	24405 (None) (1)	LRN-0100	10/17/2024 13:34	
S0100-LRN-0612-01	MH2GM9	Soil/ SH	Composite	ICP/MS(14)	24406 (None) (1)	LRN-0100	10/17/2024 13:36	
S0100-LRN-1218-01	MH2GN0	Soil/ SH	Composite	ICP/MS(14)	24407 (None) (1)	LRN-0100	10/17/2024 13:38	

Special Instructions: Analyze per MA 3105

Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	 Joe F. Johnson	10/24/24 1200	 C. Pavia	7:25 10-25-24	Temp Blank present

CHAIN OF CUSTODY RECORD

Lab: Alliance Technical Group LLC

Case #: 51715

Cooler #: 5

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
S0100-LRW-0001-01	MH2GN1	Soil/ SH	Composite	ICP/MS(14)	24408 (None) (1)	LRW-0100	10/17/2024 13:48	
S0100-LRW-0106-01	MH2GN2	Soil/ SH	Composite	ICP/MS(14)	24409 (None) (1)	LRW-0100	10/17/2024 13:50	
S0100-LRW-0612-01	MH2GN3	Soil/ SH	Composite	ICP/MS(14)	24410 (None) (1)	LRW-0100	10/17/2024 13:52	
S0100-LRW-1218-01	MH2GN4	Soil/ SH	Composite	ICP/MS(14)	24411 (None) (1)	LRW-0100	10/17/2024 13:54	
S0100-SYE-0001-01	MH2GN5	Soil/ SH	Composite	ICP/MS(14)	24412 (None) (1)	SYE-0100	10/17/2024 13:16	
S0100-SYE-0106-01	MH2GN6	Soil/ SH	Composite	ICP/MS(14)	24413 (None) (1)	SYE-0100	10/17/2024 13:18	
S0100-SYE-0612-01	MH2GN7	Soil/ SH	Composite	ICP/MS(14)	24414 (None) (1)	SYE-0100	10/17/2024 13:20	
S0100-SYE-1218-01	MH2GN8	Soil/ SH	Composite	ICP/MS(14)	24415 (None) (1)	SYE-0100	10/17/2024 13:22	

Shipment for Case Complete? N

Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	John P. De... FBI	10/24/24 1200	Cherish	7:25 10-25-24	IR Evid #1 3.2 Custody Seal Intact Temp Blank present

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page <u>1</u> of <u>1</u>
Received By (Print Name) <i>Cassanova Per</i>	Log-in Date 10/25/2024
Received By (Signature) <i>[Signature]</i>	
Case Number 51715	SDG No. MH2GK2 MA No. 3105.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779493206119</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.2</u> 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	<u>10/25/2024</u>
12. Time Received	<u>07:25</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2GK2	N/A	24379	P4553-01	Intact
2	MH2GK2D	N/A	24379	P4553-02	Intact
3	MH2GK2S	N/A	24379	P4553-03	Intact
4	MH2GM1	N/A	24398	P4553-04	Intact
5	MH2GM2	N/A	24399	P4553-05	Intact
6	MH2GM3	N/A	24400	P4553-06	Intact
7	MH2GM4	N/A	24401	P4553-07	Intact
8	MH2GM5	N/A	24402	P4553-08	Intact
9	MH2GM6	N/A	24403	P4553-09	Intact
10	MH2GM7	N/A	24404	P4553-10	Intact
11	MH2GM8	N/A	24405	P4553-11	Intact
12	MH2GM9	N/A	24406	P4553-12	Intact
13	MH2GN0	N/A	24407	P4553-13	Intact
14	MH2GN1	N/A	24408	P4553-14	Intact
15	MH2GN2	N/A	24409	P4553-15	Intact
16	MH2GN3	N/A	24410	P4553-16	Intact
17	MH2GN4	N/A	24411	P4553-17	Intact
18	MH2GN5	N/A	24412	P4553-18	Intact
19	MH2GN6	N/A	24413	P4553-19	Intact
20	MH2GN7	N/A	24414	P4553-20	Intact
21	MH2GN8	N/A	24415	P4553-21	Intact
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 <i>S.M. Jodhemi</i>	Logbook No. N/A
Date <i>10/25/2024</i>	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.	51715	SDG NO.	MH2GK2
MA NO.	3105.0	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:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	
3. Sample Log-In Sheet (DC-1)	5	5	✓	
4. CSF Inventory Sheet (DC-2)	6	8	✓	
5. SDG Narrative	9	12	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	NA	NA	✓	
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	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	13	31	✓	
18. Instrument raw data by instrument in analysis order	32	562	✓	
Other Data				
19. Standard and Reagent Preparation Logs	563	698	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	699	700	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	701	705	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

- 23 . Extraction Logs for TCLP and SPLP
- 24 . Raw GPC Data
- 25 . Raw Florisil Data

PAGE NOS:		CHECK	
FROM	TO	LAB	REGION
NA	NA	✓	
NA	NA	✓	
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
- 27 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

Other Data

- 28 . Standard and Reagent Preparation Logs
- 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 32 . Extraction Logs for TCLP and SPLP
- 33 . Raw GPC Data
- 34 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
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
- 36 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

Other Data

- 37 . Standard and Reagent Preparation Logs
- 38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 41 . Extraction Logs for TCLP and SPLP
- 42 . Raw GPC Data
- 43 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

(Signature)

(Print Name & Title)

(Date)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
706	706	✓	
NA	NA	✓	
707	708	✓	
NA	NA	✓	
709	709	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MH2GK2

CASE # 51715

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P4553

MODIFIED ANALYSIS #3105.0

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 10/25/2024.

B. Parameters

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 3.2°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.



**284 Sheffield Street
Mountainside, NJ 07092**

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from $\mu\text{g/L}$ or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{V_f}{W \times S} \times \text{DF} / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)

Vf = Final digestion volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample MH2GK2 For Antimony :

If C = 2.36 ppb

Vf = 500 ml

W = 2.13 g

S = 1.0 (100/100)

DF = 1

$$\text{Concentration (mg/kg)} = 2.36 \times \frac{500}{2.13 \times 1.0} \times 1 / 1000$$

$$= 0.55399 \text{ mg/kg}$$

$$= 0.55 \text{ mg/kg (Reported Result with Signification)}$$

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. Duplicate sample did meet. Serial Dilution did meet requirements.

Internal standard 89Y(1) was out Side qc limit for samples MH2GK2, MH2GK2D , MH2GK2S in Original so for these samples affected parameters are reported from 2X Dilution.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.



**284 Sheffield Street
Mountainside, NJ 07092**

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

Date: 06/25/2021	MA: 3105.0	Title: ICP-MS Analysis with Increased Sample Mass
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
The purpose of this modified analysis is to analyze dried, composited, and sieved soil/sediment samples by ICP-MS (processed by Incremental Sampling Methodology). Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.		
I. Analyte Modifications	Not applicable	☒
II. Calibration and QC Requirements	Not applicable	☒
III. Preparation and Method Modifications	Not applicable	☐
The Laboratory shall: • Calculate and report results for the samples on the basis of 100% solids. The Laboratory is not required to determine the Percent (%) Solids for the samples. • Receive the composited samples dried and sieved prior to shipment to the Laboratory. The samples will be received in plastic baggies as individual aliquots with approximately 2 grams each. The aliquots shall not be re-combined and/or subsampled at the Laboratory. • Not increase the amount of acid reagents added to the sample to account for the increase in mass. • Store the samples at ambient temperature from the time of receipt until preparation. Do not refrigerate. • Remove and weigh the entire content within each baggie followed by digesting the entire sample per the SOW. • Prepare and analyze Matrix Spikes and Duplicates if additional aliquots were provided for these analyses.		
IV. Special Reporting Requirements	Not applicable	☐
• Report 100.0 on Form 1 for % Solids. • Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective action taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analysis including a copy of the approved modification with the SDG Narrative.		

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GK2

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-01

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.55		10/31/2024	2143
7440-38-2	Arsenic	22		10/31/2024	2143
7440-39-3	Barium	89		10/31/2024	2143
7440-41-7	Beryllium	1.6		10/31/2024	2143
7440-43-9	Cadmium	5.3		10/31/2024	2143
7440-47-3	Chromium	6.6		10/31/2024	2143
7440-48-4	Cobalt	7.5		10/31/2024	2143
7440-50-8	Copper	43		10/31/2024	2143
7439-92-1	Lead	140		10/31/2024	2143
7439-96-5	Manganese	260		10/31/2024	2143
7440-02-0	Nickel	43		10/31/2024	2143
7782-49-2	Selenium	4.2	D	11/01/2024	0016
7440-22-4	Silver	0.68		10/31/2024	2143
7440-28-0	Thallium	0.93		10/31/2024	2143
7440-62-2	Vanadium	38		10/31/2024	2143
7440-66-6	Zinc	330		10/31/2024	2143

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GM1

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-04

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.87		10/31/2024	2256
7440-38-2	Arsenic	13		10/31/2024	2256
7440-39-3	Barium	190		10/31/2024	2256
7440-41-7	Beryllium	1.7		10/31/2024	2256
7440-43-9	Cadmium	5.5		10/31/2024	2256
7440-47-3	Chromium	12		10/31/2024	2256
7440-48-4	Cobalt	7.9		10/31/2024	2256
7440-50-8	Copper	100		10/31/2024	2256
7439-92-1	Lead	410		10/31/2024	2256
7439-96-5	Manganese	840		10/31/2024	2256
7440-02-0	Nickel	78		10/31/2024	2256
7782-49-2	Selenium	2.2		10/31/2024	2256
7440-22-4	Silver	1.1		10/31/2024	2256
7440-28-0	Thallium	0.83		10/31/2024	2256
7440-62-2	Vanadium	40		10/31/2024	2256
7440-66-6	Zinc	1500		10/31/2024	2256

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

Comments:

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MH2GM2

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-05

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.70		10/31/2024	2259
7440-38-2	Arsenic	13		10/31/2024	2259
7440-39-3	Barium	120		10/31/2024	2259
7440-41-7	Beryllium	1.9		10/31/2024	2259
7440-43-9	Cadmium	5.1		10/31/2024	2259
7440-47-3	Chromium	9.0		10/31/2024	2259
7440-48-4	Cobalt	7.6		10/31/2024	2259
7440-50-8	Copper	89		10/31/2024	2259
7439-92-1	Lead	350		10/31/2024	2259
7439-96-5	Manganese	700		10/31/2024	2259
7440-02-0	Nickel	41		10/31/2024	2259
7782-49-2	Selenium	2.3		10/31/2024	2259
7440-22-4	Silver	1.1		10/31/2024	2259
7440-28-0	Thallium	0.63		10/31/2024	2259
7440-62-2	Vanadium	36		10/31/2024	2259
7440-66-6	Zinc	1200		10/31/2024	2259

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GM3

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-06

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.73		10/31/2024	2302
7440-38-2	Arsenic	7.8		10/31/2024	2302
7440-39-3	Barium	190		10/31/2024	2302
7440-41-7	Beryllium	1.1		10/31/2024	2302
7440-43-9	Cadmium	3.2		10/31/2024	2302
7440-47-3	Chromium	32		10/31/2024	2302
7440-48-4	Cobalt	5.8		10/31/2024	2302
7440-50-8	Copper	45		10/31/2024	2302
7439-92-1	Lead	170		10/31/2024	2302
7439-96-5	Manganese	490		10/31/2024	2302
7440-02-0	Nickel	27		10/31/2024	2302
7782-49-2	Selenium	1.1	J	10/31/2024	2302
7440-22-4	Silver	0.40		10/31/2024	2302
7440-28-0	Thallium	0.39		10/31/2024	2302
7440-62-2	Vanadium	28		10/31/2024	2302
7440-66-6	Zinc	440		10/31/2024	2302

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GM4

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-07

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.86		10/31/2024	2305
7440-38-2	Arsenic	10		10/31/2024	2305
7440-39-3	Barium	170		10/31/2024	2305
7440-41-7	Beryllium	1.6		10/31/2024	2305
7440-43-9	Cadmium	4.9		10/31/2024	2305
7440-47-3	Chromium	20		10/31/2024	2305
7440-48-4	Cobalt	8.2		10/31/2024	2305
7440-50-8	Copper	50		10/31/2024	2305
7439-92-1	Lead	190		10/31/2024	2305
7439-96-5	Manganese	480		10/31/2024	2305
7440-02-0	Nickel	37		10/31/2024	2305
7782-49-2	Selenium	1.5		10/31/2024	2305
7440-22-4	Silver	0.55		10/31/2024	2305
7440-28-0	Thallium	0.66		10/31/2024	2305
7440-62-2	Vanadium	36		10/31/2024	2305
7440-66-6	Zinc	430		10/31/2024	2305

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GM5

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-08

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.65		10/31/2024	2308
7440-38-2	Arsenic	12		10/31/2024	2308
7440-39-3	Barium	91		10/31/2024	2308
7440-41-7	Beryllium	1.6		10/31/2024	2308
7440-43-9	Cadmium	5.6		10/31/2024	2308
7440-47-3	Chromium	9.5		10/31/2024	2308
7440-48-4	Cobalt	7.8		10/31/2024	2308
7440-50-8	Copper	41		10/31/2024	2308
7439-92-1	Lead	120		10/31/2024	2308
7439-96-5	Manganese	270		10/31/2024	2308
7440-02-0	Nickel	39		10/31/2024	2308
7782-49-2	Selenium	2.3		10/31/2024	2308
7440-22-4	Silver	0.54		10/31/2024	2308
7440-28-0	Thallium	0.95		10/31/2024	2308
7440-62-2	Vanadium	37		10/31/2024	2308
7440-66-6	Zinc	350		10/31/2024	2308

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

Comments:

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MH2GM6

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-09

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.60		10/31/2024	2311
7440-38-2	Arsenic	12		10/31/2024	2311
7440-39-3	Barium	71		10/31/2024	2311
7440-41-7	Beryllium	1.7		10/31/2024	2311
7440-43-9	Cadmium	5.7		10/31/2024	2311
7440-47-3	Chromium	7.7		10/31/2024	2311
7440-48-4	Cobalt	8.7		10/31/2024	2311
7440-50-8	Copper	44		10/31/2024	2311
7439-92-1	Lead	130		10/31/2024	2311
7439-96-5	Manganese	290		10/31/2024	2311
7440-02-0	Nickel	44		10/31/2024	2311
7782-49-2	Selenium	2.4		10/31/2024	2311
7440-22-4	Silver	0.59		10/31/2024	2311
7440-28-0	Thallium	0.87		10/31/2024	2311
7440-62-2	Vanadium	36		10/31/2024	2311
7440-66-6	Zinc	470		10/31/2024	2311

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

Comments:

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MH2GM7

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-10

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.46		10/31/2024	2314
7440-38-2	Arsenic	11		10/31/2024	2314
7440-39-3	Barium	91		10/31/2024	2314
7440-41-7	Beryllium	1.7		10/31/2024	2314
7440-43-9	Cadmium	3.8		10/31/2024	2314
7440-47-3	Chromium	7.1		10/31/2024	2314
7440-48-4	Cobalt	6.1		10/31/2024	2314
7440-50-8	Copper	31		10/31/2024	2314
7439-92-1	Lead	79		10/31/2024	2314
7439-96-5	Manganese	530		10/31/2024	2314
7440-02-0	Nickel	26		10/31/2024	2314
7782-49-2	Selenium	4.5		10/31/2024	2314
7440-22-4	Silver	0.32		10/31/2024	2314
7440-28-0	Thallium	0.59		10/31/2024	2314
7440-62-2	Vanadium	29		10/31/2024	2314
7440-66-6	Zinc	200		10/31/2024	2314

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

Comments:

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MH2GM8

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-11

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.37	J	10/31/2024	2317
7440-38-2	Arsenic	14		10/31/2024	2317
7440-39-3	Barium	76		10/31/2024	2317
7440-41-7	Beryllium	1.5		10/31/2024	2317
7440-43-9	Cadmium	4.8		10/31/2024	2317
7440-47-3	Chromium	6.2		10/31/2024	2317
7440-48-4	Cobalt	7.3		10/31/2024	2317
7440-50-8	Copper	40		10/31/2024	2317
7439-92-1	Lead	140		10/31/2024	2317
7439-96-5	Manganese	270		10/31/2024	2317
7440-02-0	Nickel	38		10/31/2024	2317
7782-49-2	Selenium	2.1		10/31/2024	2317
7440-22-4	Silver	0.62		10/31/2024	2317
7440-28-0	Thallium	0.78		10/31/2024	2317
7440-62-2	Vanadium	32		10/31/2024	2317
7440-66-6	Zinc	300		10/31/2024	2317

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

Comments:

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MH2GM9

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-12

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.43	J	10/31/2024	2320
7440-38-2	Arsenic	10		10/31/2024	2320
7440-39-3	Barium	86		10/31/2024	2320
7440-41-7	Beryllium	1.6		10/31/2024	2320
7440-43-9	Cadmium	4.7		10/31/2024	2320
7440-47-3	Chromium	5.6		10/31/2024	2320
7440-48-4	Cobalt	7.0		10/31/2024	2320
7440-50-8	Copper	58		10/31/2024	2320
7439-92-1	Lead	250		10/31/2024	2320
7439-96-5	Manganese	340		10/31/2024	2320
7440-02-0	Nickel	42		10/31/2024	2320
7782-49-2	Selenium	1.8		10/31/2024	2320
7440-22-4	Silver	1.0		10/31/2024	2320
7440-28-0	Thallium	0.51		10/31/2024	2320
7440-62-2	Vanadium	27		10/31/2024	2320
7440-66-6	Zinc	700		10/31/2024	2320

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

Comments:

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MH2GN0

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-13

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.29	J	10/31/2024	2323
7440-38-2	Arsenic	9.3		10/31/2024	2323
7440-39-3	Barium	56		10/31/2024	2323
7440-41-7	Beryllium	1.9		10/31/2024	2323
7440-43-9	Cadmium	4.5		10/31/2024	2323
7440-47-3	Chromium	5.4		10/31/2024	2323
7440-48-4	Cobalt	7.6		10/31/2024	2323
7440-50-8	Copper	37		10/31/2024	2323
7439-92-1	Lead	140		10/31/2024	2323
7439-96-5	Manganese	240		10/31/2024	2323
7440-02-0	Nickel	39		10/31/2024	2323
7782-49-2	Selenium	2.5		10/31/2024	2323
7440-22-4	Silver	0.76		10/31/2024	2323
7440-28-0	Thallium	0.69		10/31/2024	2323
7440-62-2	Vanadium	29		10/31/2024	2323
7440-66-6	Zinc	350		10/31/2024	2323

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

Comments:

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MH2GN1

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-14

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.39	J	10/31/2024	2326
7440-38-2	Arsenic	21		10/31/2024	2326
7440-39-3	Barium	140		10/31/2024	2326
7440-41-7	Beryllium	1.5		10/31/2024	2326
7440-43-9	Cadmium	2.4		10/31/2024	2326
7440-47-3	Chromium	12		10/31/2024	2326
7440-48-4	Cobalt	4.9		10/31/2024	2326
7440-50-8	Copper	26		10/31/2024	2326
7439-92-1	Lead	150		10/31/2024	2326
7439-96-5	Manganese	850		10/31/2024	2326
7440-02-0	Nickel	14		10/31/2024	2326
7782-49-2	Selenium	0.64	J	10/31/2024	2326
7440-22-4	Silver	0.34		10/31/2024	2326
7440-28-0	Thallium	0.22		10/31/2024	2326
7440-62-2	Vanadium	22		10/31/2024	2326
7440-66-6	Zinc	200		10/31/2024	2326

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

Comments:

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MH2GN2

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-15

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.37	J	10/31/2024	2329
7440-38-2	Arsenic	22		10/31/2024	2329
7440-39-3	Barium	180		10/31/2024	2329
7440-41-7	Beryllium	1.5		10/31/2024	2329
7440-43-9	Cadmium	4.4		10/31/2024	2329
7440-47-3	Chromium	8.6		10/31/2024	2329
7440-48-4	Cobalt	5.8		10/31/2024	2329
7440-50-8	Copper	40		10/31/2024	2329
7439-92-1	Lead	210		10/31/2024	2329
7439-96-5	Manganese	560		10/31/2024	2329
7440-02-0	Nickel	22		10/31/2024	2329
7782-49-2	Selenium	0.72	J	10/31/2024	2329
7440-22-4	Silver	0.69		10/31/2024	2329
7440-28-0	Thallium	0.40		10/31/2024	2329
7440-62-2	Vanadium	24		10/31/2024	2329
7440-66-6	Zinc	320		10/31/2024	2329

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

Comments:

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MH2GN3

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-16

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.34	J	10/31/2024	2332
7440-38-2	Arsenic	12		10/31/2024	2332
7440-39-3	Barium	220		10/31/2024	2332
7440-41-7	Beryllium	1.3		10/31/2024	2332
7440-43-9	Cadmium	5.6		10/31/2024	2332
7440-47-3	Chromium	6.0		10/31/2024	2332
7440-48-4	Cobalt	6.3		10/31/2024	2332
7440-50-8	Copper	48		10/31/2024	2332
7439-92-1	Lead	270		10/31/2024	2332
7439-96-5	Manganese	410		10/31/2024	2332
7440-02-0	Nickel	27		10/31/2024	2332
7782-49-2	Selenium	0.63	J	10/31/2024	2332
7440-22-4	Silver	1.0		10/31/2024	2332
7440-28-0	Thallium	0.37		10/31/2024	2332
7440-62-2	Vanadium	22		10/31/2024	2332
7440-66-6	Zinc	600		10/31/2024	2332

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

Comments:

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MH2GN4

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-17

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.21	J	10/31/2024	2335
7440-38-2	Arsenic	5.6		10/31/2024	2335
7440-39-3	Barium	170		10/31/2024	2335
7440-41-7	Beryllium	1.4		10/31/2024	2335
7440-43-9	Cadmium	5.5		10/31/2024	2335
7440-47-3	Chromium	38		10/31/2024	2335
7440-48-4	Cobalt	7.3		10/31/2024	2335
7440-50-8	Copper	36		10/31/2024	2335
7439-92-1	Lead	140		10/31/2024	2335
7439-96-5	Manganese	260		10/31/2024	2335
7440-02-0	Nickel	34		10/31/2024	2335
7782-49-2	Selenium	0.78	J	10/31/2024	2335
7440-22-4	Silver	0.71		10/31/2024	2335
7440-28-0	Thallium	0.64		10/31/2024	2335
7440-62-2	Vanadium	26		10/31/2024	2335
7440-66-6	Zinc	280		10/31/2024	2335

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GN5

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-18

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.43	J	10/31/2024	2338
7440-38-2	Arsenic	8.6		10/31/2024	2338
7440-39-3	Barium	220		10/31/2024	2338
7440-41-7	Beryllium	1.2		10/31/2024	2338
7440-43-9	Cadmium	4.9		10/31/2024	2338
7440-47-3	Chromium	15		10/31/2024	2338
7440-48-4	Cobalt	5.2		10/31/2024	2338
7440-50-8	Copper	61		10/31/2024	2338
7439-92-1	Lead	230		10/31/2024	2338
7439-96-5	Manganese	410		10/31/2024	2338
7440-02-0	Nickel	21		10/31/2024	2338
7782-49-2	Selenium	0.77	J	10/31/2024	2338
7440-22-4	Silver	0.80		10/31/2024	2338
7440-28-0	Thallium	0.33		10/31/2024	2338
7440-62-2	Vanadium	26		10/31/2024	2338
7440-66-6	Zinc	500		10/31/2024	2338

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GN6

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2
 Matrix: SOIL Lab Sample ID: P4553-19
 % Solids: 100 Date Received: 10/25/2024
 Analytical Method: ICP_MS
 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
7440-36-0	Antimony	0.48		10/31/2024	2341
7440-38-2	Arsenic	11		10/31/2024	2341
7440-39-3	Barium	270		10/31/2024	2341
7440-41-7	Beryllium	1.4		10/31/2024	2341
7440-43-9	Cadmium	6.1		10/31/2024	2341
7440-47-3	Chromium	9.3		10/31/2024	2341
7440-48-4	Cobalt	6.6		10/31/2024	2341
7440-50-8	Copper	76		10/31/2024	2341
7439-92-1	Lead	460		10/31/2024	2341
7439-96-5	Manganese	500		10/31/2024	2341
7440-02-0	Nickel	31		10/31/2024	2341
7782-49-2	Selenium	0.80	J	10/31/2024	2341
7440-22-4	Silver	1.3		10/31/2024	2341
7440-28-0	Thallium	0.43		10/31/2024	2341
7440-62-2	Vanadium	28		10/31/2024	2341
7440-66-6	Zinc	840		10/31/2024	2341

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GN7

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-20

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.42	J	10/31/2024	2344
7440-38-2	Arsenic	13		10/31/2024	2344
7440-39-3	Barium	190		10/31/2024	2344
7440-41-7	Beryllium	1.5		10/31/2024	2344
7440-43-9	Cadmium	6.9		10/31/2024	2344
7440-47-3	Chromium	8.3		10/31/2024	2344
7440-48-4	Cobalt	7.8		10/31/2024	2344
7440-50-8	Copper	66		10/31/2024	2344
7439-92-1	Lead	350		10/31/2024	2344
7439-96-5	Manganese	360		10/31/2024	2344
7440-02-0	Nickel	42		10/31/2024	2344
7782-49-2	Selenium	1.1	J	10/31/2024	2344
7440-22-4	Silver	1.3		10/31/2024	2344
7440-28-0	Thallium	0.67		10/31/2024	2344
7440-62-2	Vanadium	33		10/31/2024	2344
7440-66-6	Zinc	560		10/31/2024	2344

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2GN8

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

Lab Code: ACE Case No.: 51715 MA No. : 3105.0 SDG No.: MH2GK2

Matrix: SOIL Lab Sample ID: P4553-21

% Solids: 100 Date Received: 10/25/2024

Analytical Method: ICP_MS

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
7440-36-0	Antimony	0.39	J	10/31/2024	2347
7440-38-2	Arsenic	11		10/31/2024	2347
7440-39-3	Barium	190		10/31/2024	2347
7440-41-7	Beryllium	1.5		10/31/2024	2347
7440-43-9	Cadmium	6.5		10/31/2024	2347
7440-47-3	Chromium	7.5		10/31/2024	2347
7440-48-4	Cobalt	7.9		10/31/2024	2347
7440-50-8	Copper	51		10/31/2024	2347
7439-92-1	Lead	260		10/31/2024	2347
7439-96-5	Manganese	330		10/31/2024	2347
7440-02-0	Nickel	47		10/31/2024	2347
7782-49-2	Selenium	0.94	J	10/31/2024	2347
7440-22-4	Silver	1.0		10/31/2024	2347
7440-28-0	Thallium	0.65		10/31/2024	2347
7440-62-2	Vanadium	34		10/31/2024	2347
7440-66-6	Zinc	440		10/31/2024	2347

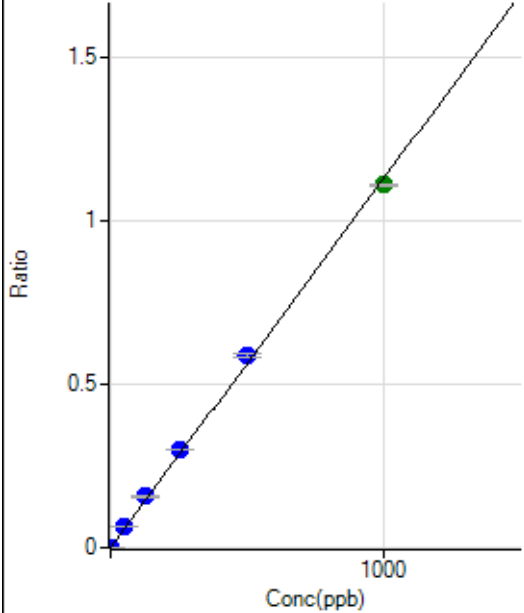
NOTE: Hardness (total) is reported in mg/L

Comments:

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7103124MS2.b\
Analysis File: P7103124MS2.batch.bin
DA Date-Time: 2024-11-01 01:05:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-10-31 20:06:40
2	006CALS.d	S02	2024-10-31 20:13:13
3	007CALS.d	S03	2024-10-31 20:16:30
4	008CALS.d	S04	2024-10-31 20:19:29
5	009CALS.d	S05	2024-10-31 20:22:21
6	010CALS.d	S06	2024-10-31 20:25:06
7	011CALS.d	S07	2024-10-31 20:27:52
8	013CALS.d	S08	2024-10-31 20:42:01

9 Be [No Gas] ISTD:6 Li [No Gas]

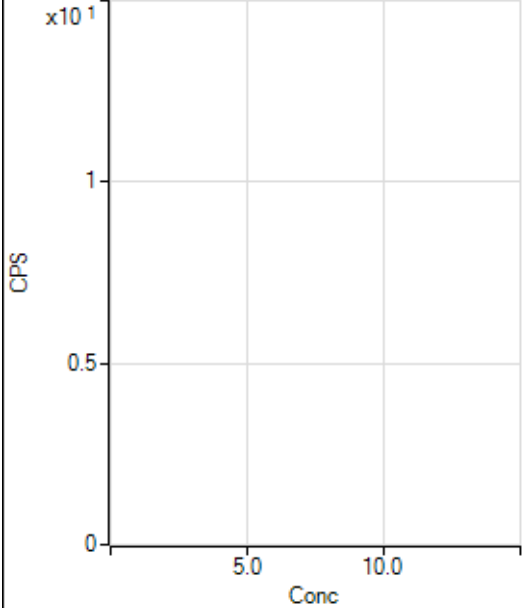


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.38	0.0000	P	11.8
2	☐	1.000	1.016	2264.58	0.0012	P	4.6
3	☐	50.000	56.693	127107.41	0.0640	P	2.0
4	☐	125.000	138.178	310989.68	0.1560	P	0.3
5	☐	250.000	266.667	601600.76	0.3011	P	0.6
6	☐	500.000	520.552	1168714.20	0.5877	P	1.5
7	☐	1000.000	983.575	2231284.11	1.1104	A	0.8
8	☐			122.15	0.0001	P	13.4

$y = 0.0011 * x + 1.7587E-005$
R = 0.9995
DL = 0.005514
BEC = 0.01558

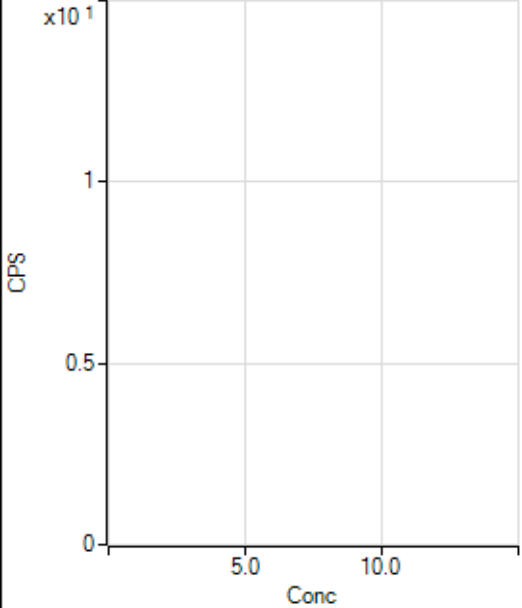
Weight: <None>
Min Conc: 0

12 C [No Gas] No available calibration points



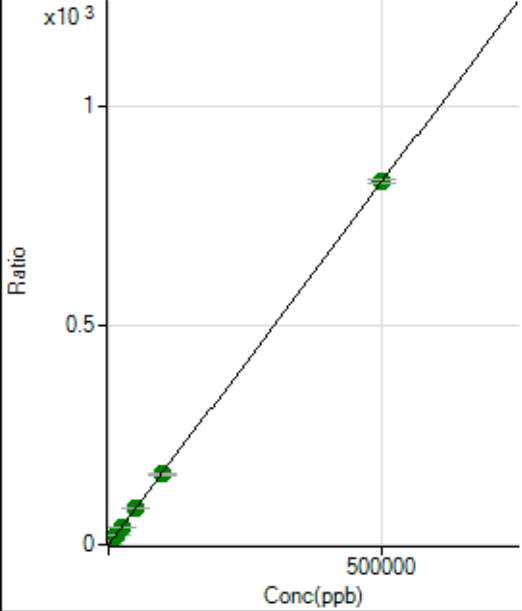
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22894.86	0.0422	P	1.3
2	☐	500.000	480.941	461788.81	0.8373	P	0.2
3	☐	5000.000	5189.798	4393605.63	8.6212	A	6.7
4	☐	12500.000	12321.081	10474283.25	20.4096	A	1.3
5	☐	25000.000	24561.974	20193113.73	40.6444	A	0.2
6	☐	50000.000	49179.509	40722951.06	81.3385	A	0.4
7	☐	100000.00	97144.054	84220251.52	160.6264	A	0.6
8	☐	500000.00	500677.73	453530713.24	827.6884	A	1.0

$y = 0.0017 * x + 0.0422$

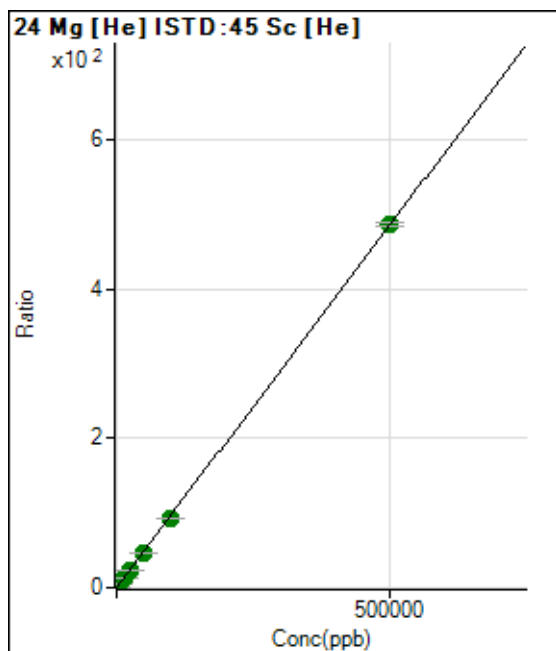
R = 1.0000

DL = 1.029

BEC = 25.55

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	672.24	0.0012	P	4.9
2	☐	500.000	510.499	273888.64	0.4966	P	0.9
3	☐	5000.000	5244.423	2594349.75	5.0899	A	6.4
4	☐	12500.000	12323.802	6137555.32	11.9591	A	1.5
5	☐	25000.000	24557.432	11839357.33	23.8295	A	0.7
6	☐	50000.000	48808.633	23711494.65	47.3606	A	0.3
7	☐	100000.00	96008.070	48845284.27	93.1586	A	0.7
8	☐	500000.00	500941.60	266339216.03	486.0689	A	1.0

$$y = 9.7031E-004 * x + 0.0012$$

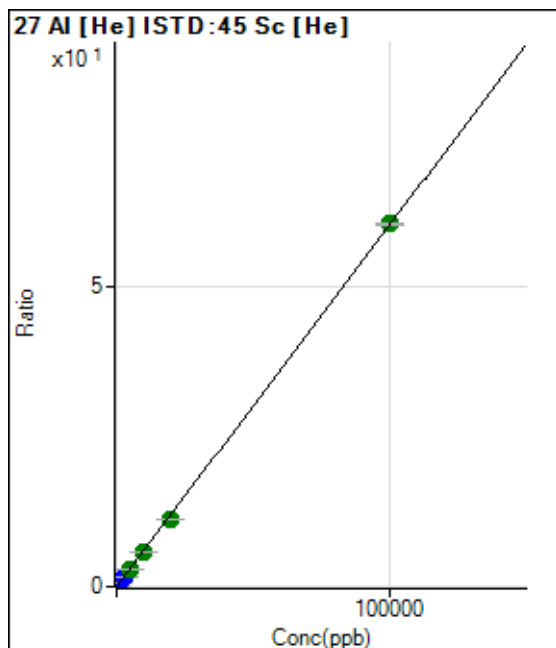
R = 1.0000

DL = 0.1865

BEC = 1.278

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	253.34	0.0005	P	6.9
2	☐	20.000	16.912	5885.62	0.0107	P	2.2
3	☐	1000.000	1026.587	315905.10	0.6199	P	6.6
4	☐	2500.000	2435.320	754294.09	1.4698	P	1.5
5	☐	5000.000	4768.445	1429648.56	2.8775	A	0.5
6	☐	10000.000	9467.398	2860006.94	5.7126	A	1.0
7	☐	20000.000	18538.104	5864823.11	11.1855	A	0.7
8	☐	100000.00	100358.56	33180454.50	60.5520	A	0.3

$$y = 6.0335E-004 * x + 4.6735E-004$$

R = 0.9999

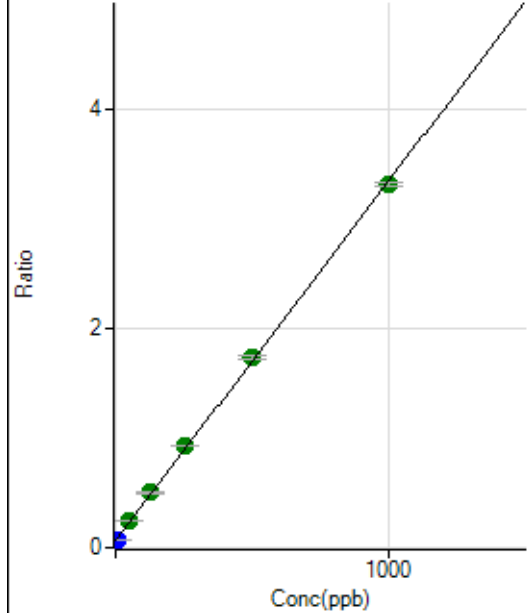
DL = 0.1598

BEC = 0.7746

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	356896.88	0.0630	P	0.3
2	☐	10.000	1.532	391963.14	0.0680	P	0.4
3	☐	50.000	54.539	1409520.53	0.2417	A	2.1
4	☐	125.000	133.799	2779197.60	0.5014	A	1.0
5	☐	250.000	265.089	4889204.20	0.9315	A	0.8
6	☐	500.000	509.707	9066533.06	1.7330	A	1.6
7	☐	1000.000	990.132	17766751.82	3.3071	A	1.0
8	☐			351574.01	0.0646	P	0.7

$$y = 0.0033 * x + 0.0630$$

$$R = 0.9997$$

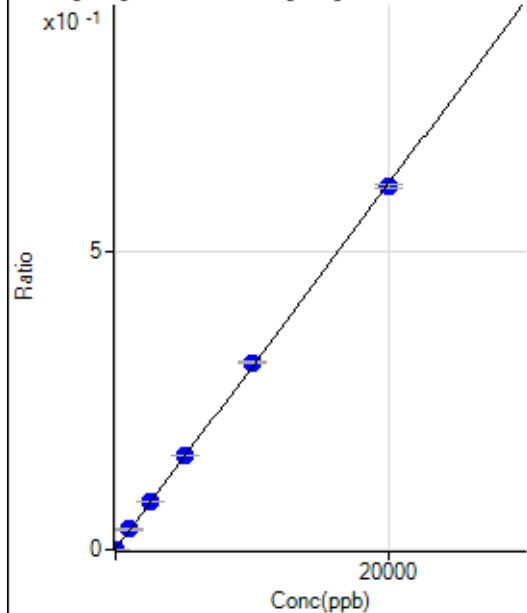
$$DL = 0.1522$$

$$BEC = 19.23$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.120	165.56	0.0003	P	10.5
2	☐	0.000	14.120	644.47	0.0012	P	5.6
3	☐	1000.000	1094.534	17426.69	0.0342	P	6.0
4	☐	2500.000	2629.272	41610.92	0.0811	P	1.8
5	☐	5000.000	5125.931	78192.71	0.1574	P	0.8
6	☐	10000.000	10224.345	156795.04	0.3132	P	1.0
7	☐	20000.000	19835.459	318207.55	0.6069	P	1.0
8	☐			266.67	0.0005	P	2.2

$$y = 3.0559E-005 * x + 7.3699E-004$$

$$R = 0.9999$$

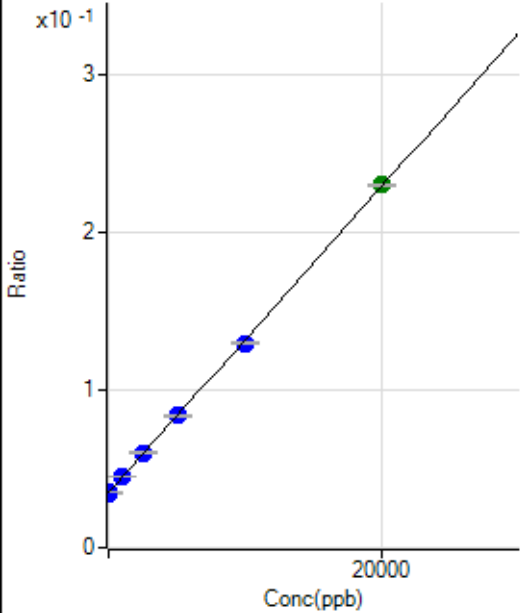
$$DL = 4.761$$

$$BEC = 24.12$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD :45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-38.129	195523.44	0.0345	P	1.4
2	☐	0.000	38.129	203152.08	0.0353	P	0.4
3	☐	1000.000	1041.986	262451.74	0.0450	P	1.4
4	☐	2500.000	2586.734	332596.23	0.0600	P	1.4
5	☐	5000.000	5011.251	438502.74	0.0835	P	0.7
6	☐	10000.000	9769.259	678807.03	0.1297	P	1.1
7	☐	20000.000	20099.617	1235862.94	0.2301	A	0.7
8	☐			181912.43	0.0335	P	1.2

y = 9.7105E-006 * x + 0.0349

R = 0.9999

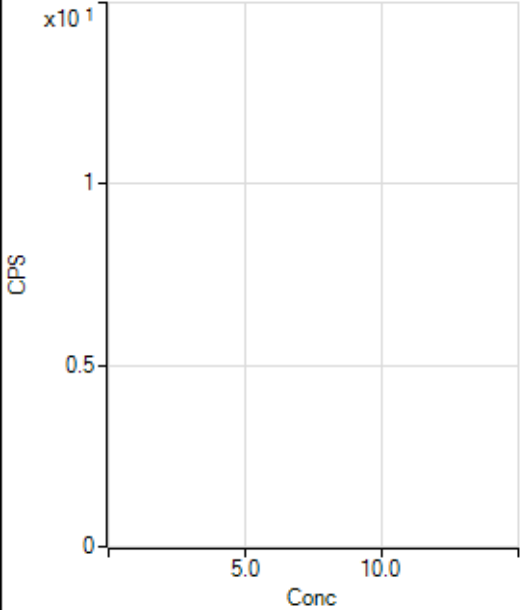
DL = 93.81

BEC = 3592

Weight: <None>

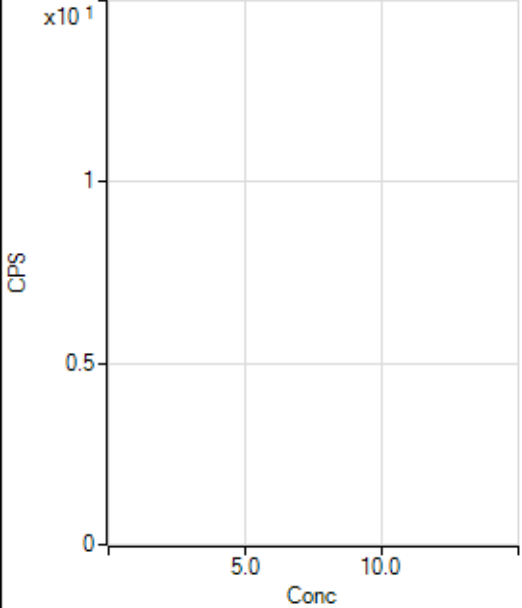
Min Conc: 0

35 Cl [No Gas] No available calibration points



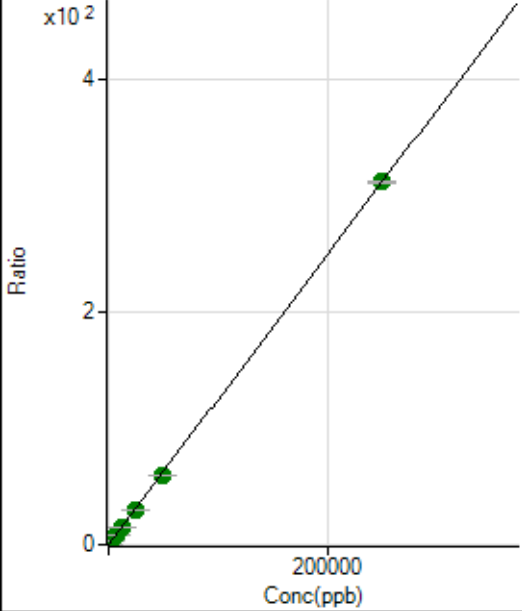
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD :45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	56104.12	0.1035	P	0.6
2	☐	500.000	489.789	392691.65	0.7120	P	0.6
3	☐	2500.000	2604.594	1701145.62	3.3393	A	7.6
4	☐	6250.000	6125.203	3957995.19	7.7130	A	2.0
5	☐	12500.000	12005.395	7461559.89	15.0182	A	0.7
6	☐	25000.000	23908.744	14922534.91	29.8062	A	0.6
7	☐	50000.000	47248.190	30831122.87	58.8016	A	0.2
8	☐	250000.00	250686.31	170711906.35	311.5398	A	0.7

$y = 0.0012 * x + 0.1035$

$R = 0.9999$

$DL = 1.454$

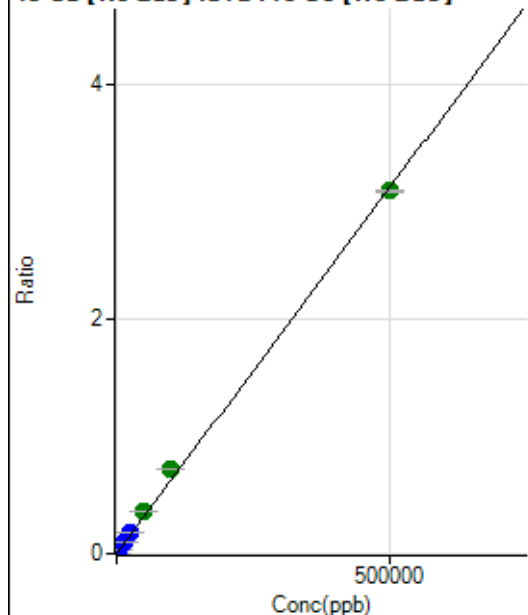
$BEC = 83.31$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

43 Ca [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	303.34	0.0001	P	6.4
2	☐	500.000	499.541	18248.82	0.0032	P	1.1
3	☐	5000.000	5998.972	218354.03	0.0374	P	1.0
4	☐	12500.000	14940.164	516404.12	0.0932	P	0.4
5	☐	25000.000	29838.826	976298.44	0.1860	P	0.3
6	☐	50000.000	57633.715	1879451.26	0.3592	A	0.9
7	☐	100000.00	115015.65	3850865.08	0.7168	A	0.2
8	☐	500000.00	495920.56	16808823.50	3.0906	A	0.3

$$y = 6.2320E-006 * x + 5.3539E-005$$

R = 0.9995

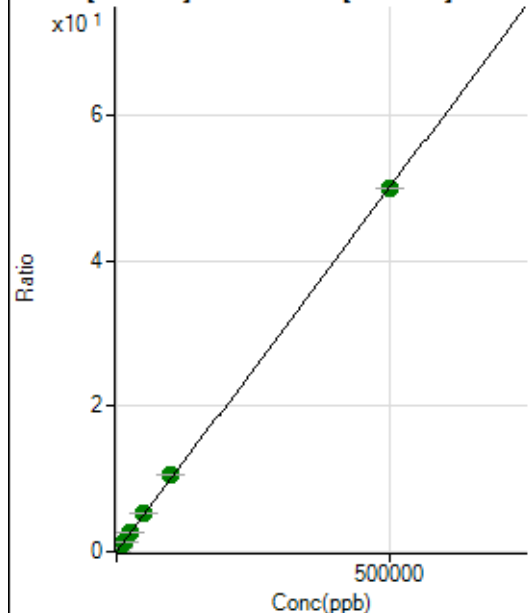
DL = 1.661

BEC = 8.591

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17659.44	0.0031	P	3.8
2	☐	500.000	503.945	308574.35	0.0535	P	0.3
3	☐	5000.000	5375.232	3155378.70	0.5410	A	0.6
4	☐	12500.000	13522.110	7518039.40	1.3563	A	0.5
5	☐	25000.000	26827.414	14107318.40	2.6878	A	0.2
6	☐	50000.000	52842.117	27682147.64	5.2911	A	1.0
7	☐	100000.00	106240.32	57131355.26	10.6346	A	0.4
8	☐	500000.00	498347.04	271237167.07	49.8730	A	0.1

$$y = 1.0007E-004 * x + 0.0031$$

R = 0.9999

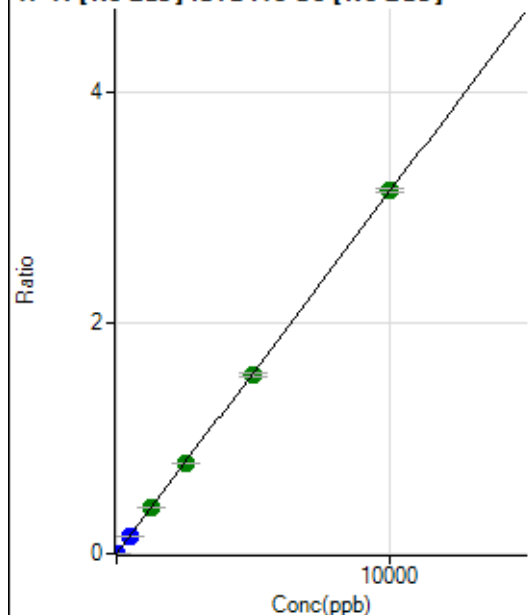
DL = 3.515

BEC = 31.15

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0000	P	1.5
2	☐	5.000	4.346	8009.96	0.0014	P	1.2
3	☐	500.000	499.445	915376.96	0.1570	P	0.9
4	☐	1250.000	1260.513	2195529.93	0.3961	A	1.7
5	☐	2500.000	2512.450	4143407.92	0.7894	A	0.6
6	☐	5000.000	4944.742	8128280.57	1.5537	A	1.4
7	☐	10000.000	10023.230	16919047.25	3.1493	A	0.9
8	☐			1443.42	0.0003	P	1.5

$$y = 3.1420E-004 * x + 2.4321E-005$$

R = 1.0000

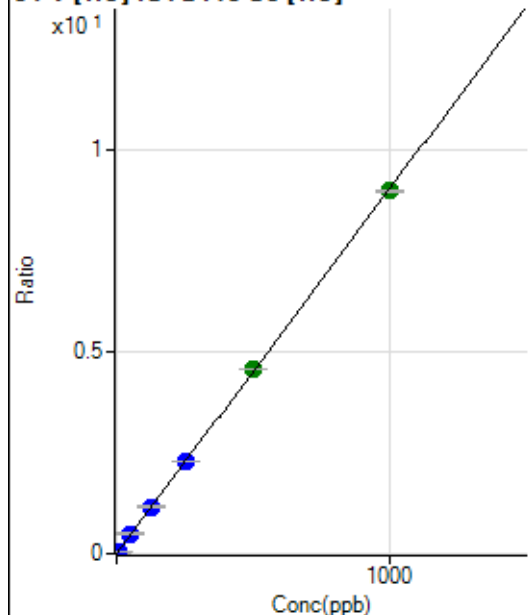
DL = 0.003434

BEC = 0.0774

Weight: <None>

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.56	0.0000	P	81.4
2	☐	5.000	4.952	24654.64	0.0447	P	1.4
3	☐	50.000	54.344	249834.97	0.4902	P	6.7
4	☐	125.000	128.785	596150.34	1.1617	P	1.8
5	☐	250.000	253.764	1137258.13	2.2891	P	0.1
6	☐	500.000	506.898	2289164.97	4.5724	A	0.7
7	☐	1000.000	994.920	4705523.92	8.9745	A	0.7
8	☐			815.59	0.0015	P	6.8

$$y = 0.0090 * x + 2.8744E-005$$

R = 1.0000

DL = 0.007786

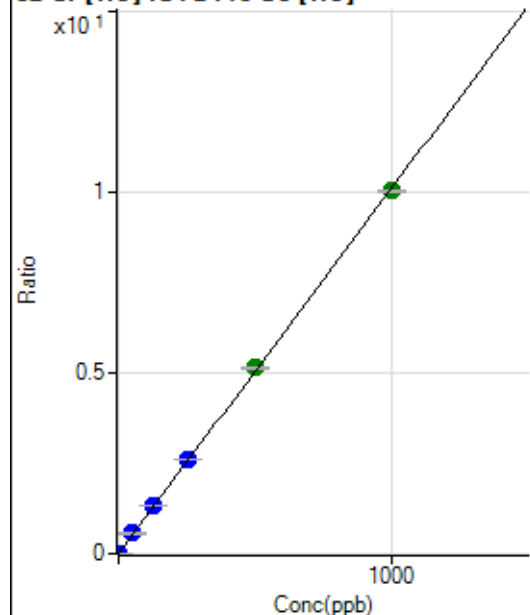
BEC = 0.003187

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

52 Cr [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	777.80	0.0014	P	0.6
2	☐	2.000	2.024	12071.58	0.0219	P	0.7
3	☐	50.000	55.238	285158.92	0.5597	P	7.2
4	☐	125.000	130.333	676667.02	1.3186	P	1.7
5	☐	250.000	255.752	1284822.79	2.5861	P	0.3
6	☐	500.000	508.687	2574537.67	5.1422	A	0.3
7	☐	1000.000	993.290	5264018.22	10.0396	A	0.4
8	☐			17363.60	0.0317	P	1.5

$$y = 0.0101 * x + 0.0014$$

$$R = 0.9999$$

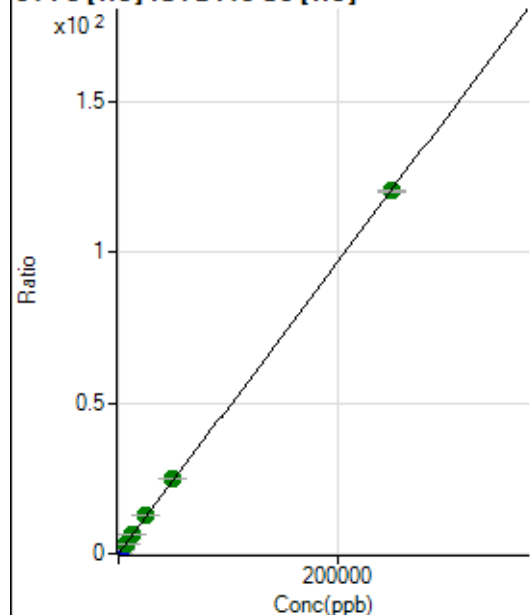
$$DL = 0.0025$$

$$BEC = 0.142$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2110.17	0.0039	P	5.4
2	☐	50.000	54.072	16541.36	0.0300	P	1.6
3	☐	2500.000	2914.051	718827.29	1.4104	P	6.5
4	☐	6250.000	6727.245	1668455.31	3.2508	A	0.7
5	☐	12500.000	13224.925	3173178.18	6.3869	A	0.4
6	☐	25000.000	26444.867	6392162.68	12.7675	A	0.2
7	☐	50000.000	51482.302	13030431.47	24.8518	A	0.1
8	☐	250000.00	249506.73	65988717.91	120.4281	A	0.8

$$y = 4.8265E-004 * x + 0.0039$$

$$R = 1.0000$$

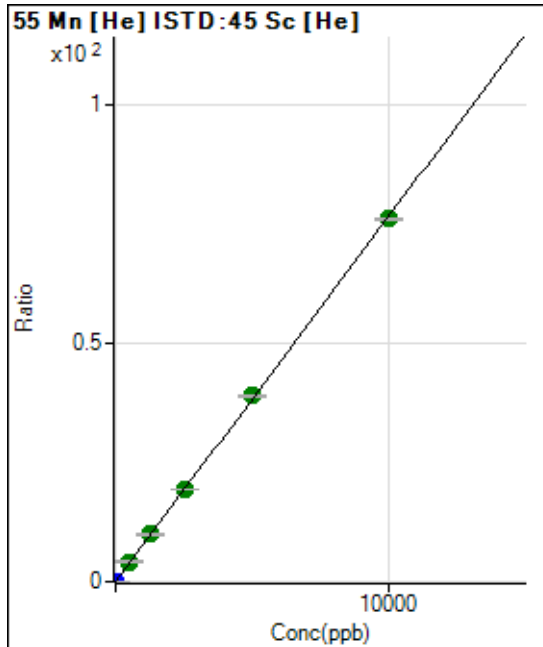
$$DL = 1.312$$

$$BEC = 8.066$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	371.12	0.0007	P	14.1
2	☐	1.000	0.966	4462.93	0.0081	P	1.5
3	☐	500.000	542.011	2117645.63	4.1556	A	6.9
4	☐	1250.000	1292.661	5085752.46	9.9099	A	1.4
5	☐	2500.000	2539.318	9671401.66	19.4664	A	0.2
6	☐	5000.000	5088.872	19530895.40	39.0107	A	0.7
7	☐	10000.000	9938.301	39945923.85	76.1851	A	0.4
8	☐			17591.49	0.0321	P	1.8

$$y = 0.0077 * x + 6.8482E-004$$

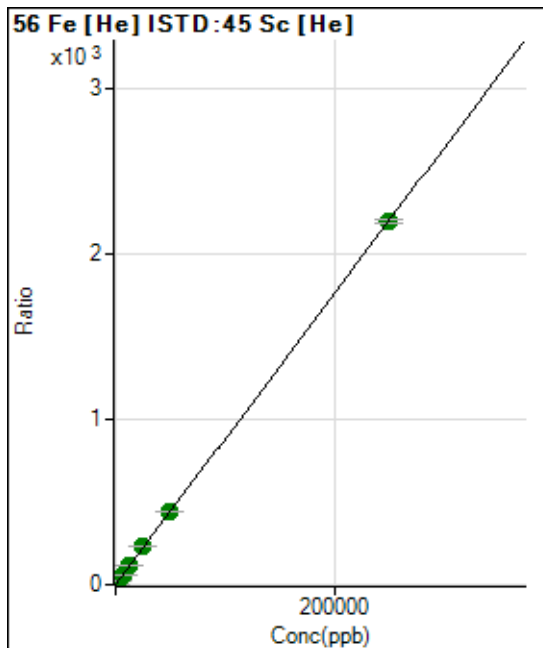
$$R = 0.9999$$

$$DL = 0.03778$$

$$BEC = 0.08934$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15247.42	0.0281	P	3.7
2	☐	50.000	52.430	269318.33	0.4883	P	0.9
3	☐	2500.000	2795.146	12516147.18	24.5606	A	6.8
4	☐	6250.000	6692.463	30156171.77	58.7666	A	2.1
5	☐	12500.000	13078.903	57045790.26	114.8191	A	0.5
6	☐	25000.000	26265.734	115429491.61	230.5573	A	0.6
7	☐	50000.000	50759.690	233605416.52	445.5359	A	0.4
8	☐	250000.00	249678.53	1200771582.1	2,191.407	A	1.0

$$y = 0.0088 * x + 0.0281$$

$$R = 1.0000$$

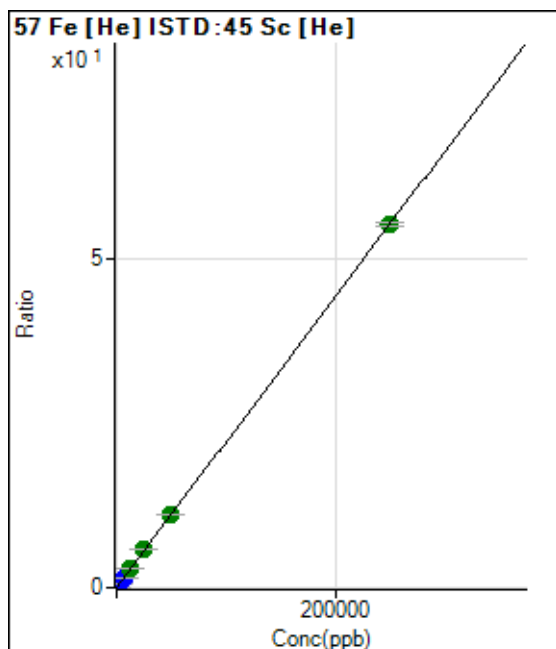
$$DL = 0.353$$

$$BEC = 3.205$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1438.98	0.0027	P	7.9
2	☐	50.000	55.786	8260.10	0.0150	P	1.6
3	☐	2500.000	2867.026	323961.30	0.6359	P	7.4
4	☐	6250.000	6804.646	772643.47	1.5055	P	1.4
5	☐	12500.000	12943.454	1421595.13	2.8614	A	1.1
6	☐	25000.000	25999.468	2876259.61	5.7450	A	0.7
7	☐	50000.000	50486.971	5847993.94	11.1533	A	0.7
8	☐	250000.00	249762.94	30227965.10	55.1659	A	1.0

$$y = 2.2086E-004 * x + 0.0027$$

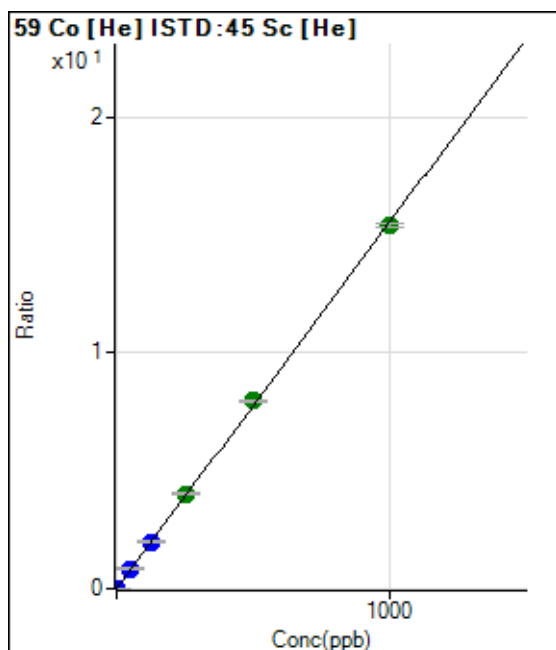
R = 1.0000

DL = 2.845

BEC = 12.02

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.33	0.0001	P	19.0
2	☐	1.000	1.029	8881.59	0.0161	P	1.7
3	☐	50.000	54.557	431985.73	0.8478	P	7.3
4	☐	125.000	128.057	1021166.21	1.9899	P	1.8
5	☐	250.000	259.006	1999556.57	4.0246	A	1.1
6	☐	500.000	513.696	3996147.58	7.9820	A	1.3
7	☐	1000.000	990.291	8067992.66	15.3875	A	0.9
8	☐			21472.09	0.0392	P	1.3

$$y = 0.0155 * x + 1.1684E-004$$

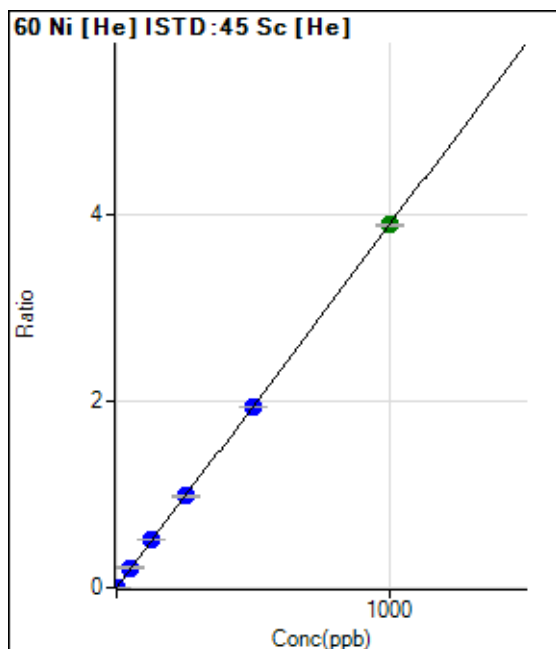
R = 0.9998

DL = 0.004292

BEC = 0.00752

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.33	0.0002	P	11.2
2	☐	1.000	0.991	2231.30	0.0040	P	4.8
3	☐	50.000	55.419	109928.14	0.2157	P	6.7
4	☐	125.000	130.642	260824.18	0.5082	P	1.2
5	☐	250.000	251.842	486660.56	0.9795	P	0.3
6	☐	500.000	497.587	968841.85	1.9352	P	0.7
7	☐	1000.000	999.770	2038579.90	3.8880	A	0.5
8	☐			7461.93	0.0136	P	3.9

$$y = 0.0039 * x + 1.9063E-004$$

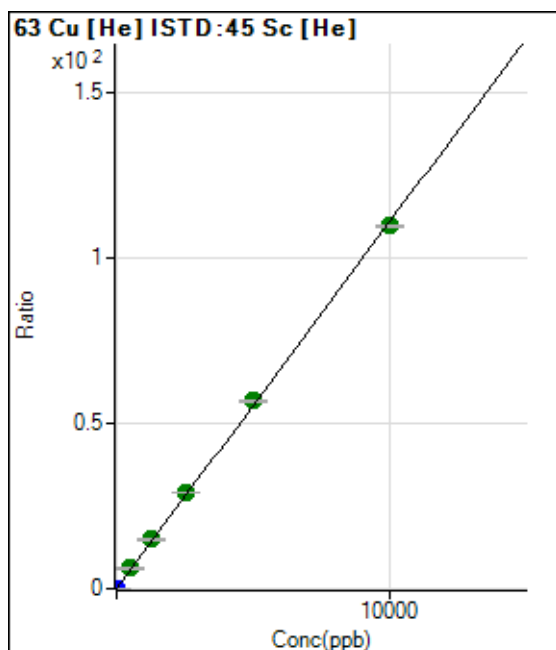
$$R = 1.0000$$

$$DL = 0.01649$$

$$BEC = 0.04902$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1700.12	0.0031	P	2.4
2	☐	2.000	1.871	13162.54	0.0239	P	2.2
3	☐	500.000	567.591	3204302.59	6.2912	A	8.0
4	☐	1250.000	1341.030	7626200.10	14.8597	A	1.1
5	☐	2500.000	2613.272	14385509.79	28.9541	A	0.8
6	☐	5000.000	5124.977	28427098.74	56.7799	A	0.6
7	☐	10000.000	9894.435	57475643.03	109.6181	A	0.7
8	☐			10532.68	0.0192	P	2.5

$$y = 0.0111 * x + 0.0031$$

$$R = 0.9998$$

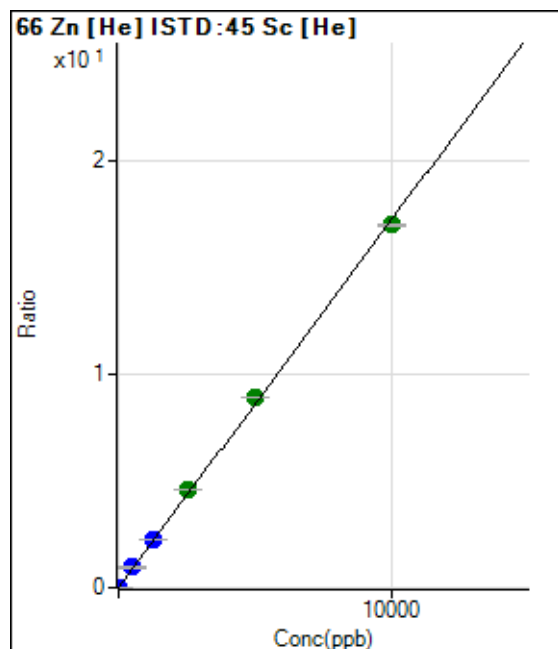
$$DL = 0.02051$$

$$BEC = 0.2831$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	840.03	0.0015	P	15.2
2	☐	2.000	4.829	5443.26	0.0099	P	1.4
3	☐	500.000	551.496	484926.20	0.9517	P	7.2
4	☐	1250.000	1304.357	1154107.73	2.2488	P	1.4
5	☐	2500.000	2651.027	2270004.67	4.5690	A	0.5
6	☐	5000.000	5177.159	4466536.84	8.9213	A	0.7
7	☐	10000.000	9864.294	8911895.56	16.9969	A	0.4
8	☐			3117.02	0.0057	P	6.7

$$y = 0.0017 * x + 0.0015$$

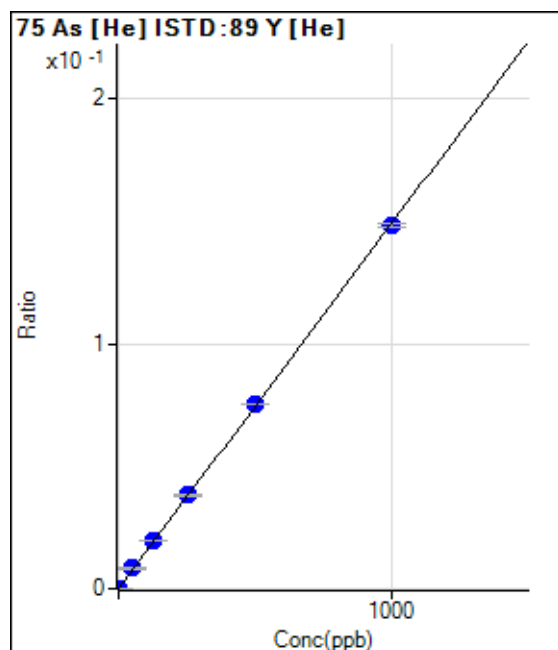
$$R = 0.9996$$

$$DL = 0.4101$$

$$BEC = 0.8995$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	33.0
2	☐	1.000	1.084	722.25	0.0002	P	3.6
3	☐	50.000	55.656	33924.31	0.0083	P	5.8
4	☐	125.000	131.337	81521.09	0.0196	P	2.9
5	☐	250.000	256.680	155545.30	0.0382	P	1.1
6	☐	500.000	506.840	308686.30	0.0755	P	0.5
7	☐	1000.000	993.835	627429.86	0.1480	P	1.0
8	☐			343.34	0.0001	P	5.3

$$y = 1.4893E-004 * x + 2.2886E-006$$

$$R = 0.9999$$

$$DL = 0.01523$$

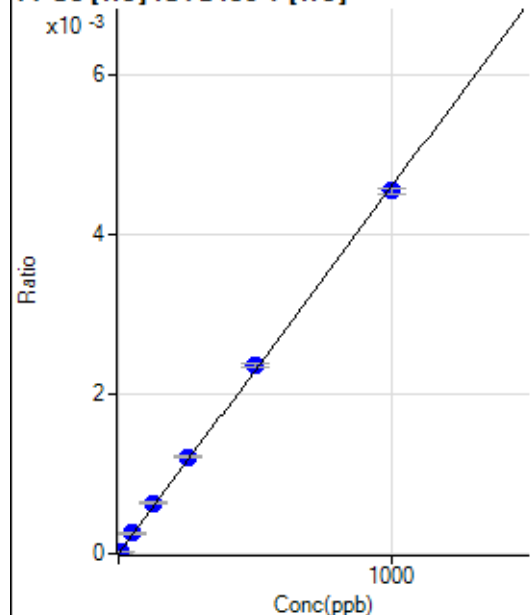
$$BEC = 0.01537$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

77 Se [He] ISTD: 89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.531	113.33	0.0000	P	9.1
3	☐	50.000	54.997	1034.49	0.0003	P	11.1
4	☐	125.000	137.316	2635.82	0.0006	P	4.8
5	☐	250.000	262.334	4910.86	0.0012	P	1.7
6	☐	500.000	513.155	9653.23	0.0024	P	2.0
7	☐	1000.000	988.547	19278.18	0.0045	P	1.7
8	☐			3.33	0.0000	P	100.

$$y = 4.6000\text{E-}006 * x + 2.5231\text{E-}007$$

$$R = 0.9997$$

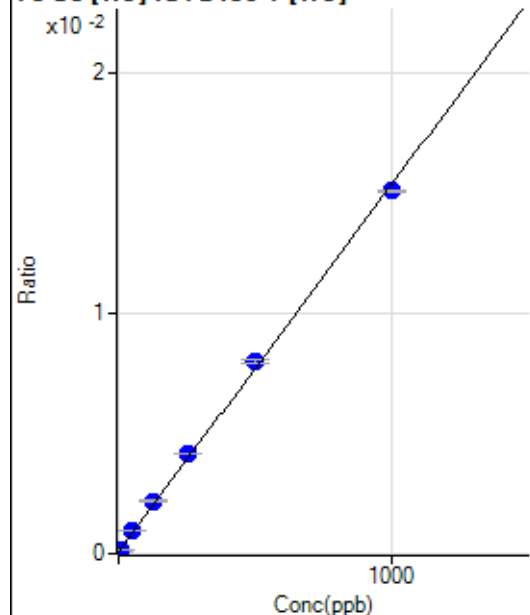
$$DL = 0.285$$

$$BEC = 0.05485$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD: 89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	353.34	0.0001	P	9.0
2	☐	5.000	4.948	690.03	0.0002	P	15.0
3	☐	50.000	57.648	3935.00	0.0010	P	3.2
4	☐	125.000	137.548	9083.96	0.0022	P	4.3
5	☐	250.000	266.746	16896.40	0.0042	P	1.5
6	☐	500.000	521.188	32864.19	0.0080	P	2.0
7	☐	1000.000	983.269	63971.81	0.0151	P	0.3
8	☐			320.01	0.0001	P	17.0

$$y = 1.5265\text{E-}005 * x + 8.0830\text{E-}005$$

$$R = 0.9995$$

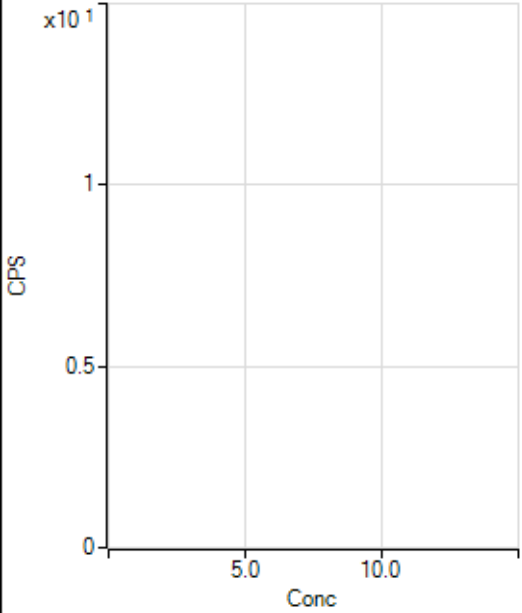
$$DL = 1.428$$

$$BEC = 5.295$$

Weight: <None>

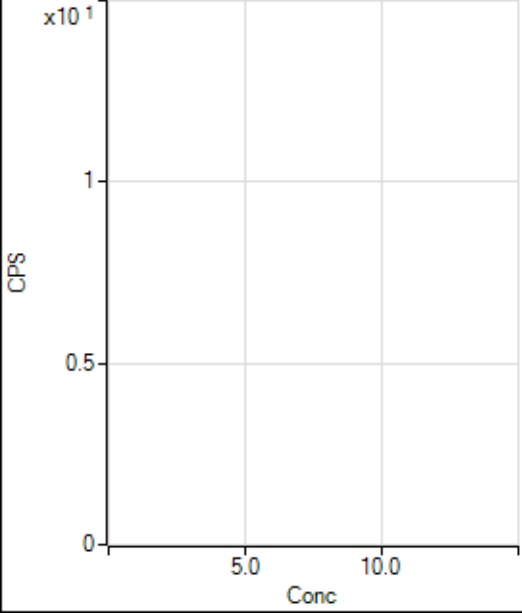
Min Conc: 0

81 Br [No Gas] No available calibration points



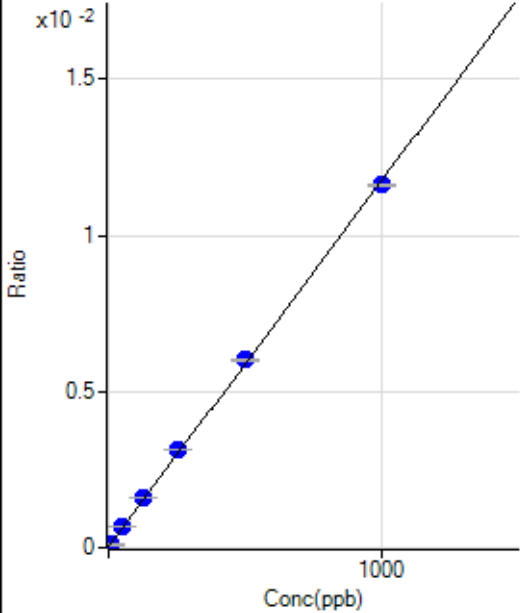
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15618.38		P	2.4
2	☐			15800.77		P	2.1
3	☐			15576.11		P	1.9
4	☐			14766.36		P	3.2
5	☐			13670.87		P	2.2
6	☐			13547.41		P	3.2
7	☐			14163.55		P	1.5
8	☐			15764.09		P	0.9

81 Br [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			118.89		P	14.4
2	☐			84.44		P	11.4
3	☐			65.55		P	10.6
4	☐			77.78		P	27.2
5	☐			76.67		P	7.5
6	☐			57.78		P	46.6
7	☐			104.45		P	3.7
8	☐			138.89		P	24.6

82 Se [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	522.04	0.0000	P	6.8
2	☐	5.000	5.138	1459.93	0.0001	P	4.3
3	☐	50.000	54.719	10499.29	0.0007	P	2.1
4	☐	125.000	135.151	24328.22	0.0016	P	1.5
5	☐	250.000	264.370	46103.78	0.0031	P	0.8
6	☐	500.000	511.042	88799.77	0.0060	P	1.1
7	☐	1000.000	989.381	174589.78	0.0116	P	0.5
8	☐			679.82	0.0000	P	4.0

y = 1.1706E-005 * x + 3.4156E-005

R = 0.9998

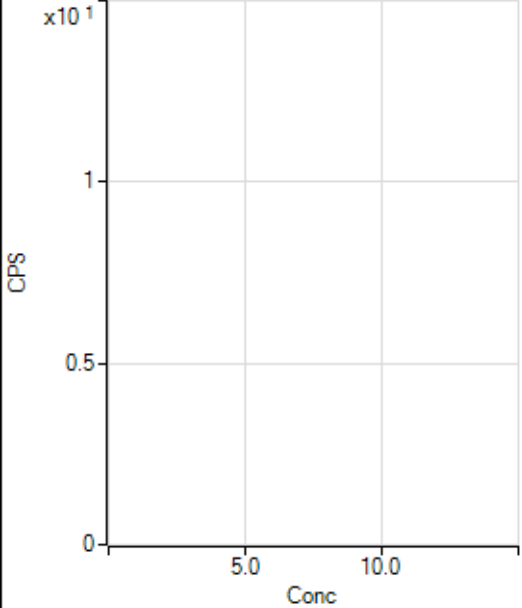
DL = 0.5947

BEC = 2.918

Weight: <None>

Min Conc: 0

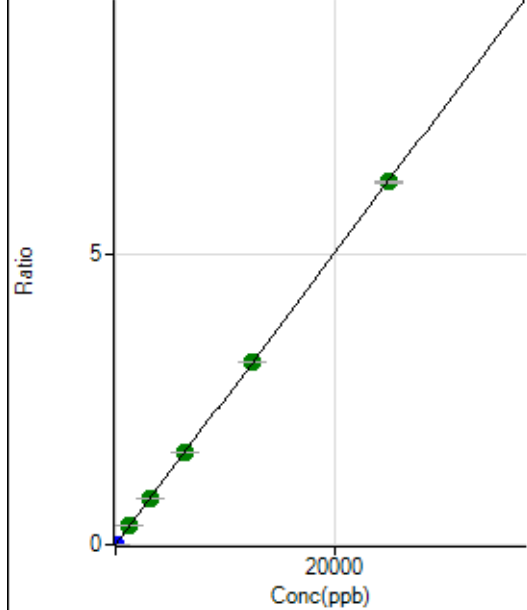
83 Kr [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			216.67		P	7.1
2	☐			197.78		P	6.4
3	☐			181.12		P	17.0
4	☐			197.78		P	20.6
5	☐			194.45		P	10.5
6	☐			208.89		P	11.2
7	☐			232.23		P	2.2
8	☐			303.34		P	2.9

Calibration for 011CALS.d

86 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	322.23	0.0000	P	6.1
2	☐	1.000	0.993	4187.45	0.0003	P	3.9
3	☐	1250.000	1273.965	4978825.52	0.3199	A	1.1
4	☐	3125.000	3220.920	12175305.93	0.8088	A	0.7
5	☐	6250.000	6325.435	23405737.43	1.5884	A	0.8
6	☐	12500.000	12561.347	46557142.08	3.1544	A	0.7
7	☐	25000.000	24937.280	94124483.04	6.2622	A	0.6
8	☐			11112.03	0.0008	P	1.0

$$y = 2.5112E-004 * x + 2.1076E-005$$

$$R = 1.0000$$

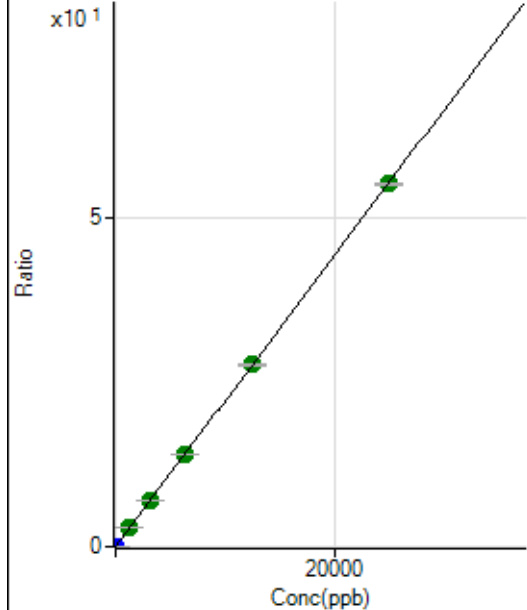
$$DL = 0.01533$$

$$BEC = 0.08393$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.34	0.0000	P	4.9
2	☐	1.000	0.961	33096.12	0.0021	P	0.7
3	☐	1250.000	1261.927	43389912.69	2.7881	A	0.7
4	☐	3125.000	3190.153	106098796.20	7.0482	A	0.6
5	☐	6250.000	6336.910	206297030.26	14.0005	A	0.7
6	☐	12500.000	12517.309	408177367.25	27.6552	A	1.2
7	☐	25000.000	24960.878	828867587.65	55.1474	A	0.6
8	☐			94080.63	0.0066	P	0.3

$$y = 0.0022 * x + 1.3952E-005$$

$$R = 1.0000$$

$$DL = 0.0009298$$

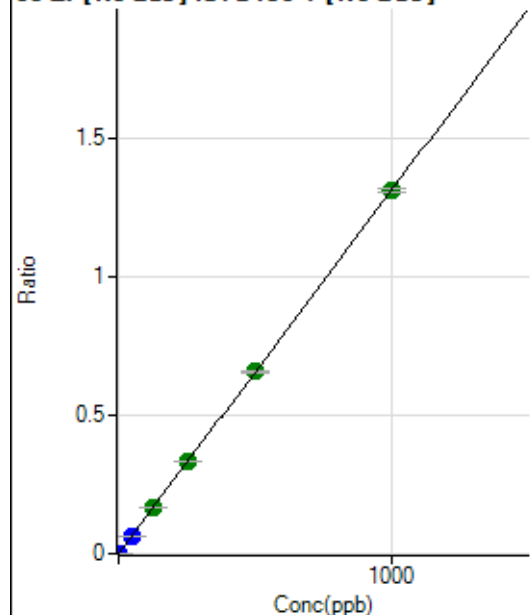
$$BEC = 0.006315$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	601.13	0.0000	P	6.7
2	☐	1.000	0.939	19707.74	0.0013	P	1.9
3	☐	50.000	49.232	1006820.66	0.0647	P	1.3
4	☐	125.000	127.882	2528761.09	0.1680	A	0.6
5	☐	250.000	252.239	4882059.02	0.3313	A	0.2
6	☐	500.000	501.434	9720528.05	0.6586	A	1.3
7	☐	1000.000	998.401	19711606.23	1.3113	A	1.0
8	☐			9589.87	0.0007	P	3.2

$$y = 0.0013 * x + 3.9318E-005$$

R = 1.0000

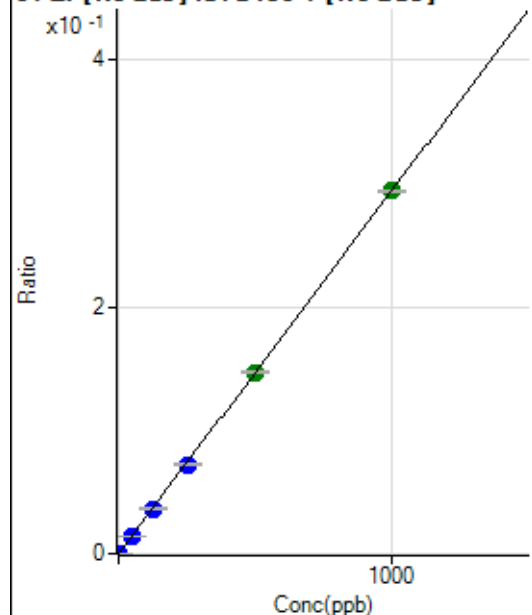
DL = 0.006051

BEC = 0.02994

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.11	0.0000	P	13.0
2	☐	1.000	0.946	4417.38	0.0003	P	2.4
3	☐	50.000	49.101	224559.45	0.0144	P	0.7
4	☐	125.000	124.493	550539.75	0.0366	P	0.8
5	☐	250.000	246.088	1065197.28	0.0723	P	0.5
6	☐	500.000	500.841	2171382.99	0.1471	A	1.8
7	☐	1000.000	1000.666	4418067.89	0.2939	A	0.3
8	☐			2142.40	0.0002	P	1.2

$$y = 2.9373E-004 * x + 7.2742E-006$$

R = 1.0000

DL = 0.009679

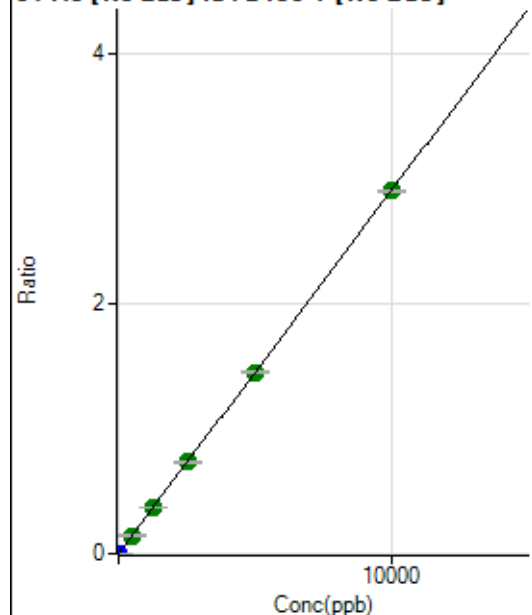
BEC = 0.02477

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

94 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	206.67	0.0000	P	5.4
2	☐	5.000	5.090	23063.76	0.0015	P	1.2
3	☐	500.000	501.185	2262185.82	0.1454	A	1.4
4	☐	1250.000	1272.605	5555601.30	0.3691	A	1.1
5	☐	2500.000	2526.917	10798445.53	0.7329	A	1.0
6	☐	5000.000	5001.977	21410878.99	1.4507	A	1.8
7	☐	10000.000	9989.397	43544633.80	2.8971	A	0.4
8	☐			7114.01	0.0005	P	1.6

$$y = 2.9001E-004 * x + 1.3525E-005$$

$$R = 1.0000$$

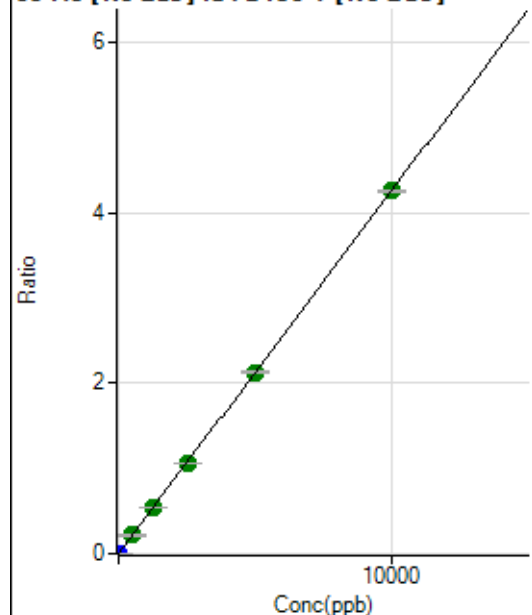
$$DL = 0.007553$$

$$BEC = 0.04663$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	34.45	0.0000	P	20.3
2	☐	5.000	4.217	27837.61	0.0018	P	0.6
3	☐	500.000	504.642	3344439.53	0.2149	A	1.4
4	☐	1250.000	1275.867	8178358.56	0.5433	A	1.0
5	☐	2500.000	2507.582	15734935.04	1.0678	A	0.3
6	☐	5000.000	4989.344	31359527.87	2.1247	A	1.0
7	☐	10000.000	9999.968	64006124.05	4.2585	A	0.5
8	☐			5292.10	0.0004	P	3.3

$$y = 4.2585E-004 * x + 2.2544E-006$$

$$R = 1.0000$$

$$DL = 0.00323$$

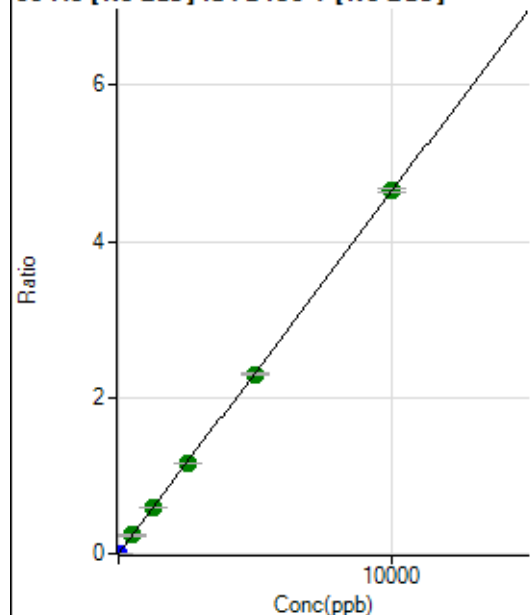
$$BEC = 0.005294$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	114.45	0.0000	P	15.6
2	☐	5.000	4.323	31165.46	0.0020	P	2.2
3	☐	500.000	505.449	3649383.17	0.2345	A	0.9
4	☐	1250.000	1270.527	8872890.56	0.5894	A	0.6
5	☐	2500.000	2504.921	17123782.66	1.1621	A	0.9
6	☐	5000.000	4957.105	33943143.66	2.2997	A	1.0
7	☐	10000.000	10017.379	69846531.74	4.6473	A	1.1
8	☐			22879.13	0.0016	P	2.2

$$y = 4.6393E-004 * x + 7.4939E-006$$

R = 1.0000

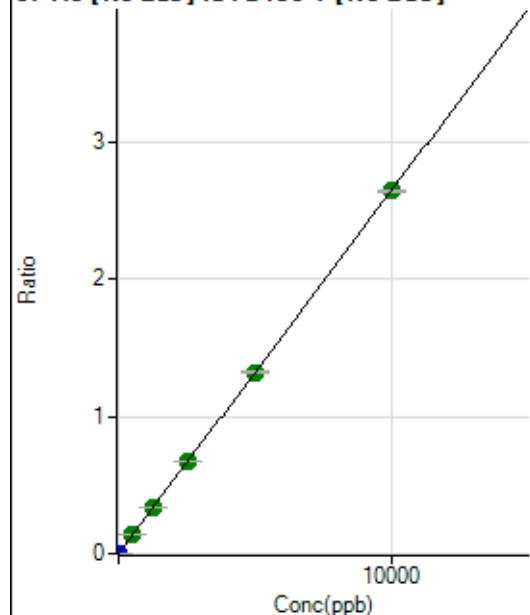
DL = 0.007565

BEC = 0.01615

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	34.44	0.0000	P	24.1
2	☐	5.000	4.237	17382.62	0.0011	P	2.3
3	☐	500.000	503.466	2072035.37	0.1331	A	0.1
4	☐	1250.000	1270.310	5056717.67	0.3359	A	0.3
5	☐	2500.000	2524.824	9838156.80	0.6677	A	0.6
6	☐	5000.000	4999.376	19512839.29	1.3221	A	1.2
7	☐	10000.000	9991.395	39711329.41	2.6422	A	0.8
8	☐			3140.37	0.0002	P	3.5

$$y = 2.6444E-004 * x + 2.2527E-006$$

R = 1.0000

DL = 0.006149

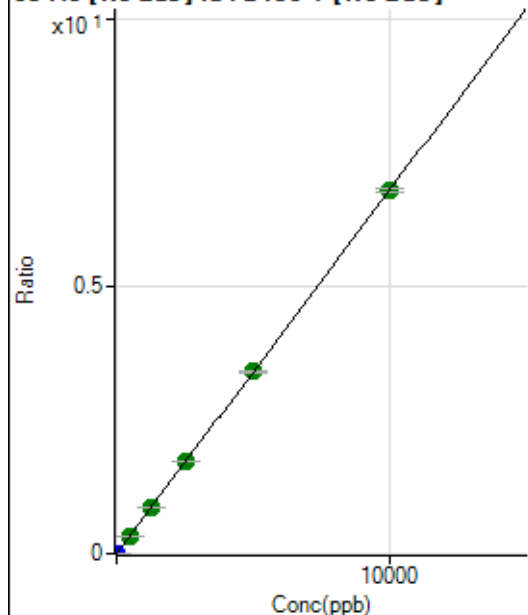
BEC = 0.008519

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

98 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	56.67	0.0000	P	9.1
2	☐	5.000	4.267	45058.20	0.0029	P	0.5
3	☐	500.000	500.153	5301619.19	0.3407	A	0.4
4	☐	1250.000	1271.992	13041205.78	0.8664	A	0.7
5	☐	2500.000	2523.692	25328387.68	1.7189	A	0.6
6	☐	5000.000	5019.027	50455167.02	3.4185	A	1.2
7	☐	10000.000	9981.807	102186534.03	6.7987	A	0.9
8	☐			7142.92	0.0005	P	2.1

$$y = 6.8110E-004 * x + 3.7043E-006$$

$$R = 1.0000$$

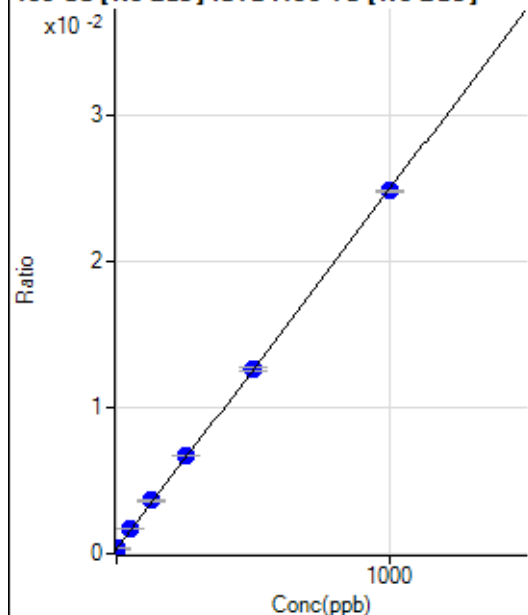
$$DL = 0.00149$$

$$BEC = 0.005439$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD:159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3223.72	0.0003	P	3.5
2	☐	1.000	1.340	3653.82	0.0003	P	1.0
3	☐	50.000	55.745	18696.56	0.0017	P	1.7
4	☐	125.000	136.338	41161.55	0.0037	P	3.1
5	☐	250.000	259.122	75944.84	0.0067	P	0.6
6	☐	500.000	500.368	145906.77	0.0126	P	2.7
7	☐	1000.000	995.831	286305.50	0.0248	P	0.8
8	☐			2692.50	0.0003	P	3.8

$$y = 2.4603E-005 * x + 2.9894E-004$$

$$R = 0.9999$$

$$DL = 1.294$$

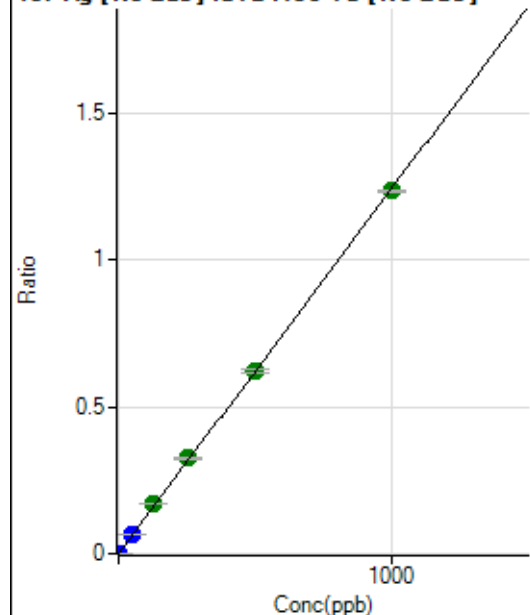
$$BEC = 12.15$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

107 Ag [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0000	P	19.6
2	☐	1.000	0.995	13676.55	0.0012	P	1.5
3	☐	50.000	53.237	739510.32	0.0661	P	0.3
4	☐	125.000	137.307	1920031.24	0.1704	A	1.8
5	☐	250.000	262.166	3701963.24	0.3253	A	1.0
6	☐	500.000	501.461	7201011.98	0.6223	A	1.7
7	☐	1000.000	994.528	14247775.90	1.2341	A	0.8
8	☐			653.36	0.0001	P	3.2

$$y = 0.0012 * x + 7.2160E-006$$

$$R = 0.9999$$

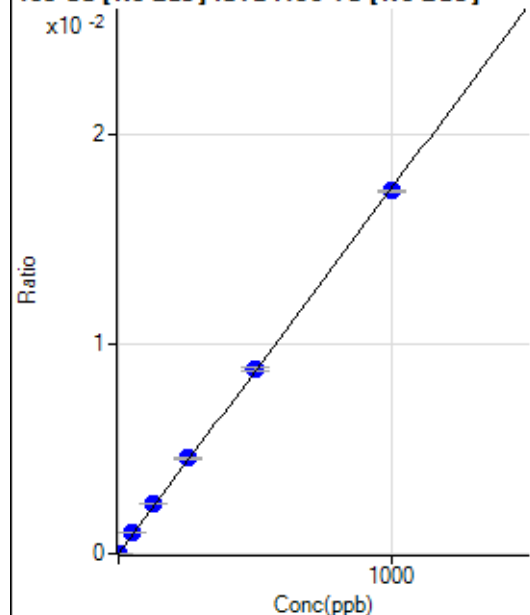
$$DL = 0.003416$$

$$BEC = 0.005815$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	49.2
2	☐	1.000	1.151	227.78	0.0000	P	6.9
3	☐	50.000	56.518	11032.06	0.0010	P	2.0
4	☐	125.000	136.661	26844.89	0.0024	P	1.7
5	☐	250.000	261.207	51811.01	0.0046	P	0.7
6	☐	500.000	504.421	101737.94	0.0088	P	1.9
7	☐	1000.000	993.204	199855.27	0.0173	P	0.6
8	☐			75.56	0.0000	P	38.2

$$y = 1.7429E-005 * x + 6.1727E-007$$

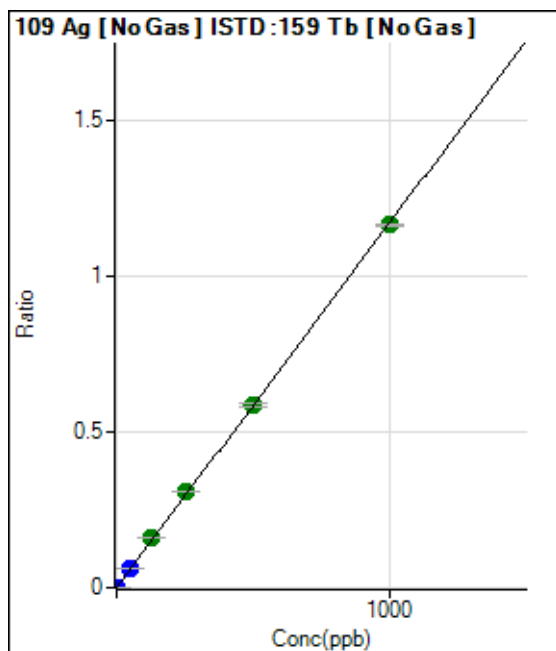
$$R = 0.9999$$

$$DL = 0.05232$$

$$BEC = 0.03542$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.56	0.0000	P	8.7
2	☐	1.000	1.004	12971.45	0.0012	P	2.2
3	☐	50.000	52.798	692221.38	0.0618	P	0.5
4	☐	125.000	137.015	1808492.16	0.1605	A	0.6
5	☐	250.000	261.752	3488820.64	0.3066	A	0.4
6	☐	500.000	501.057	6791627.82	0.5869	A	1.4
7	☐	1000.000	994.892	13453741.61	1.1653	A	0.5
8	☐			631.13	0.0001	P	8.2

$$y = 0.0012 * x + 2.3713E-006$$

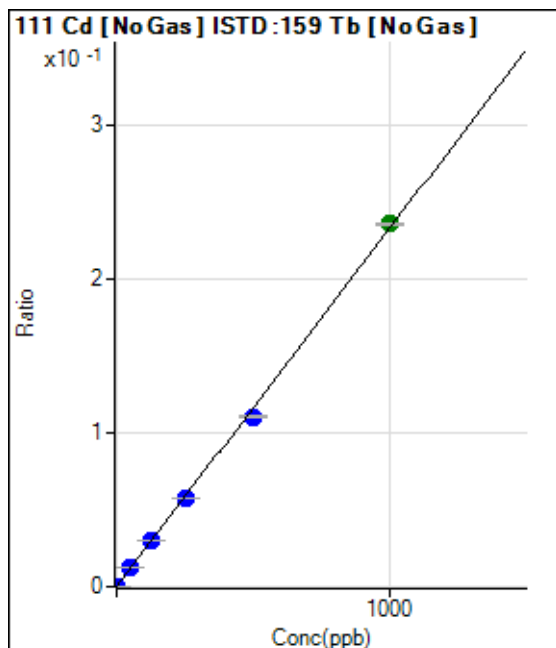
R = 0.9999

DL = 0.000528

BEC = 0.002024

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	322.15	0.0000	P	4.8
2	☐	1.000	1.053	3022.91	0.0003	P	6.5
3	☐	50.000	53.073	138518.85	0.0124	P	1.0
4	☐	125.000	129.026	338550.89	0.0300	P	0.8
5	☐	250.000	245.859	651142.54	0.0572	P	0.5
6	☐	500.000	474.770	1278371.88	0.1105	P	1.6
7	☐	1000.000	1012.994	2720865.71	0.2357	A	0.5
8	☐			445.25	0.0000	P	6.4

$$y = 2.3263E-004 * x + 2.9873E-005$$

R = 0.9995

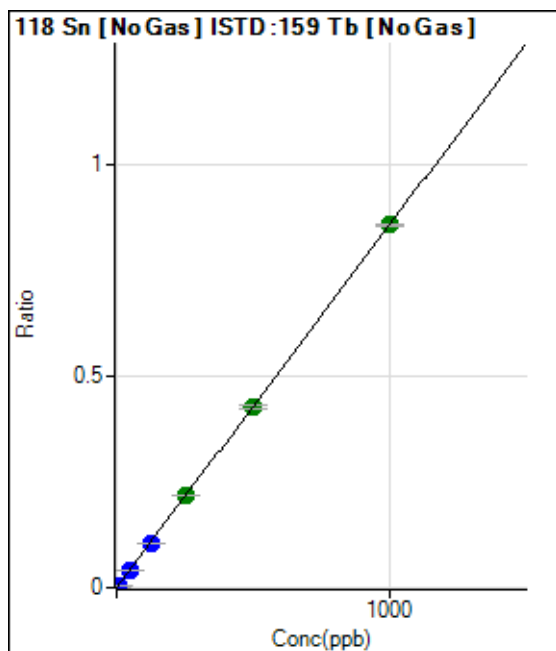
DL = 0.01842

BEC = 0.1284

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1975.71	0.0002	P	6.6
2	☐	5.000	4.608	45553.98	0.0041	P	1.6
3	☐	50.000	49.678	479394.00	0.0428	P	1.6
4	☐	125.000	121.759	1179883.25	0.1047	P	1.2
5	☐	250.000	253.770	2481121.16	0.2180	A	0.3
6	☐	500.000	498.755	4956725.62	0.4284	A	1.8
7	☐	1000.000	1000.103	9913962.42	0.8587	A	0.2
8	☐			3609.38	0.0003	P	4.5

$$y = 8.5848\text{E-}004 * x + 1.8329\text{E-}004$$

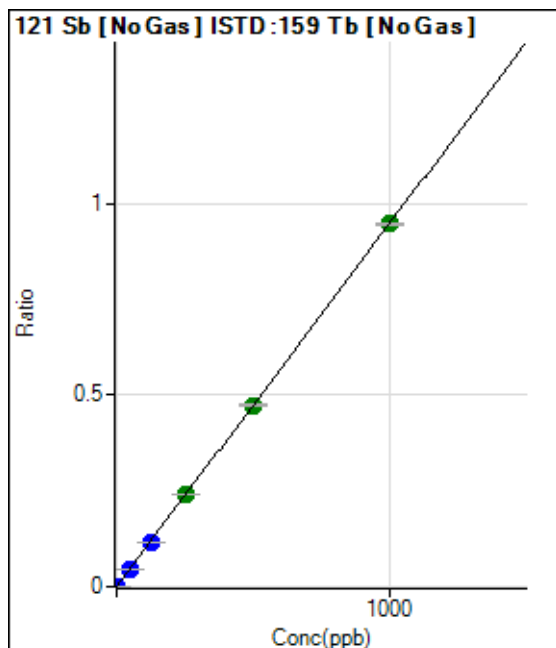
R = 1.0000

DL = 0.04233

BEC = 0.2135

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	57.78	0.0000	P	20.1
2	☐	2.000	1.933	20240.97	0.0018	P	1.7
3	☐	50.000	49.877	529594.58	0.0473	P	0.7
4	☐	125.000	122.413	1308442.36	0.1161	P	1.1
5	☐	250.000	253.490	2736116.00	0.2405	A	0.3
6	☐	500.000	500.235	5490824.50	0.4745	A	1.3
7	☐	1000.000	999.339	10943644.42	0.9479	A	0.8
8	☐			2790.30	0.0003	P	3.3

$$y = 9.4854\text{E-}004 * x + 5.3670\text{E-}006$$

R = 1.0000

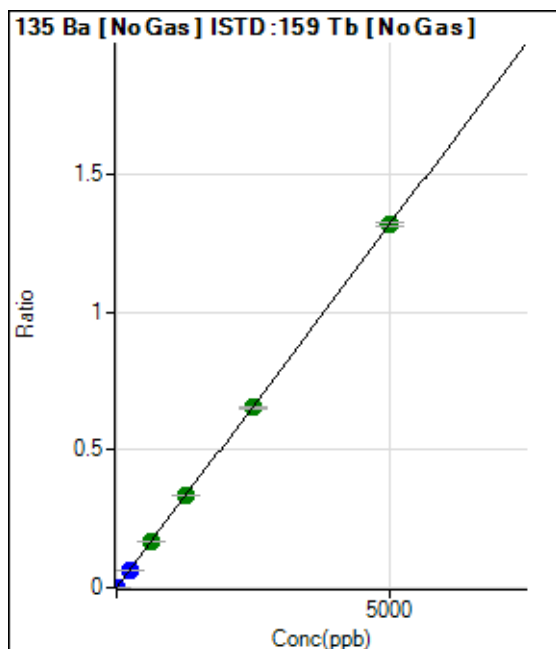
DL = 0.003406

BEC = 0.005658

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	96.66	0.0000	P	21.4
2	☐	10.000	8.969	26106.23	0.0024	P	1.6
3	☐	250.000	240.740	709925.64	0.0634	P	1.2
4	☐	625.000	641.957	1905780.36	0.1691	A	0.6
5	☐	1250.000	1277.496	3829574.77	0.3365	A	0.6
6	☐	2500.000	2487.381	7582962.25	0.6553	A	0.9
7	☐	5000.000	4997.781	15200452.83	1.3166	A	1.1
8	☐			4910.89	0.0005	P	3.9

$$y = 2.6344E-004 * x + 8.9635E-006$$

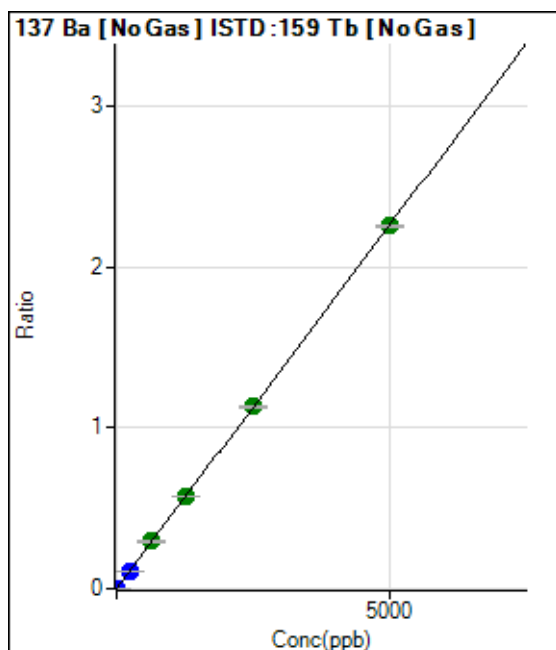
$$R = 1.0000$$

$$DL = 0.02188$$

$$BEC = 0.03403$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	157.78	0.0000	P	5.4
2	☐	10.000	9.146	45673.06	0.0041	P	2.6
3	☐	250.000	240.082	1215173.45	0.1086	P	0.5
4	☐	625.000	649.304	3308319.19	0.2936	A	0.9
5	☐	1250.000	1269.832	6533547.96	0.5742	A	0.7
6	☐	2500.000	2504.643	13105192.58	1.1325	A	1.2
7	☐	5000.000	4990.180	26049197.11	2.2563	A	0.4
8	☐			8232.45	0.0008	P	0.8

$$y = 4.5215E-004 * x + 1.4624E-005$$

$$R = 1.0000$$

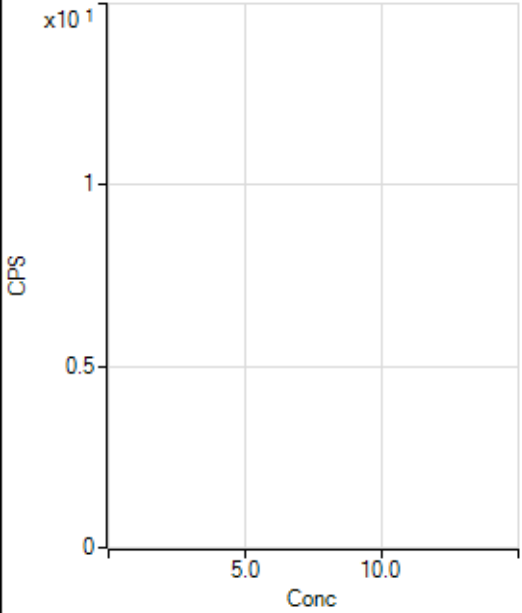
$$DL = 0.005195$$

$$BEC = 0.03234$$

Weight: <None>

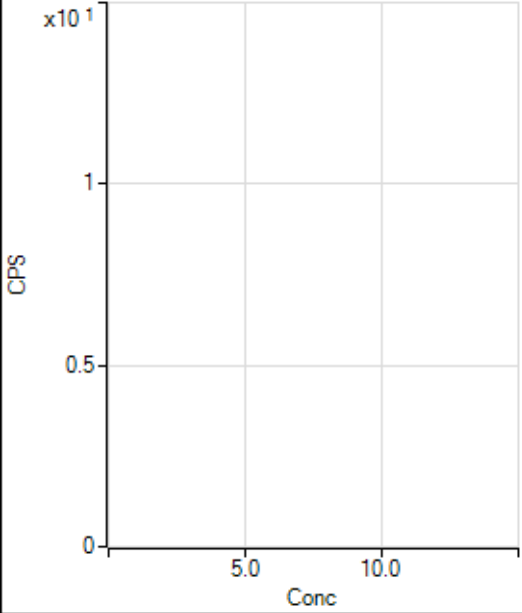
Min Conc: 0

150 Nd [No Gas] No available calibration points



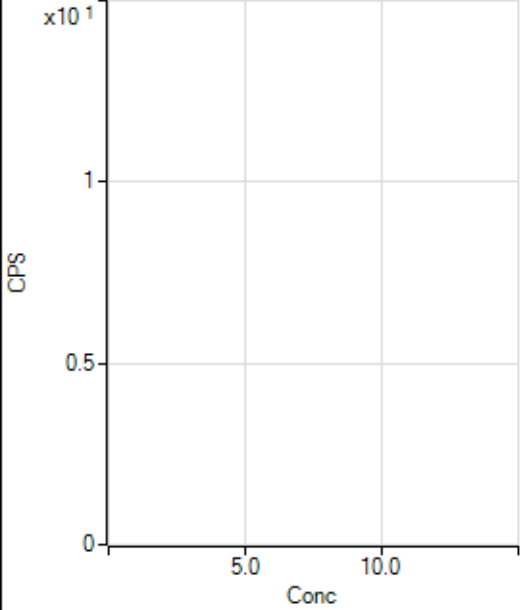
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	99.0
2	☐			14.44		P	104.
3	☐			40.00		P	16.7
4	☐			85.55		P	22.8
5	☐			160.00		P	9.1
6	☐			320.01		P	13.1
7	☐			671.14		P	3.9
8	☐			186.67		P	6.2

150 Nd [He] No available calibration points



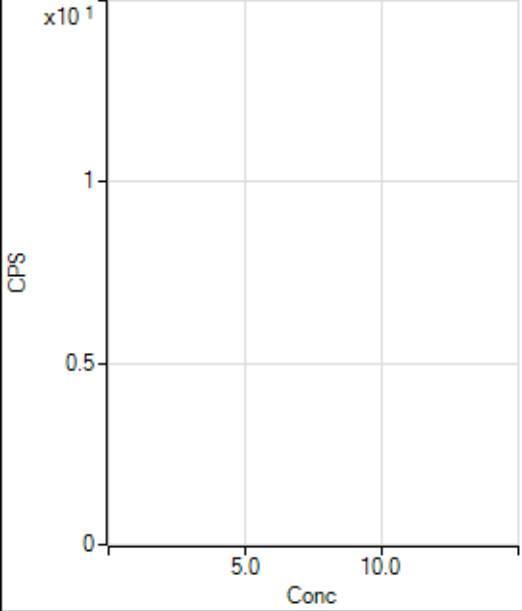
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			10.00		P	33.3
3	☐			6.67		P	100.
4	☐			27.78		P	59.2
5	☐			53.33		P	18.8
6	☐			72.22		P	18.7
7	☐			146.67		P	13.6
8	☐			107.78		P	28.1

156 Dy [No Gas] No available calibration points



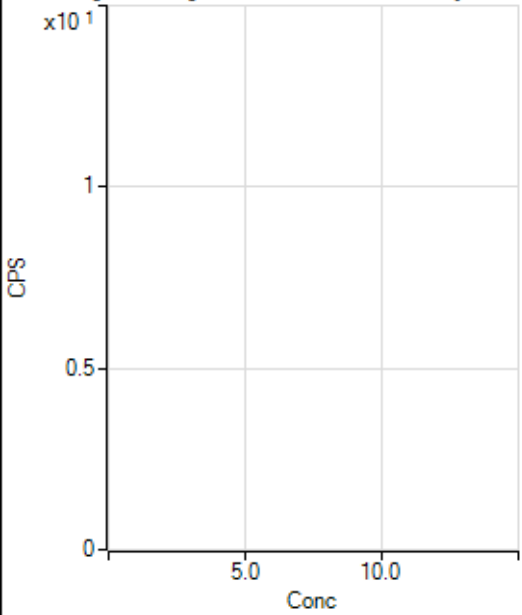
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57.78		P	32.8
2	☐			72.22		P	5.3
3	☐			78.89		P	17.1
4	☐			86.67		P	27.7
5	☐			118.89		P	21.2
6	☐			161.12		P	26.2
7	☐			274.45		P	3.7
8	☐			401.12		P	2.7

156 Dy [He] No available calibration points



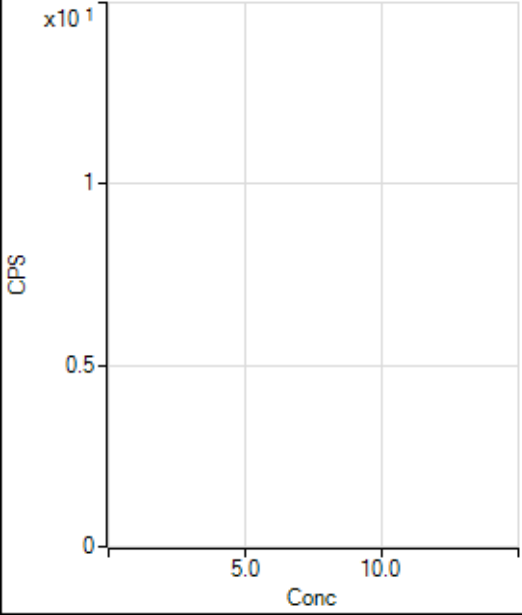
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	47.2
2	☐			16.66		P	34.6
3	☐			63.33		P	19.0
4	☐			102.22		P	6.8
5	☐			188.89		P	21.8
6	☐			354.45		P	13.4
7	☐			673.36		P	9.9
8	☐			341.12		P	7.8

160 Gd [No Gas] Noavailable calibration poin...



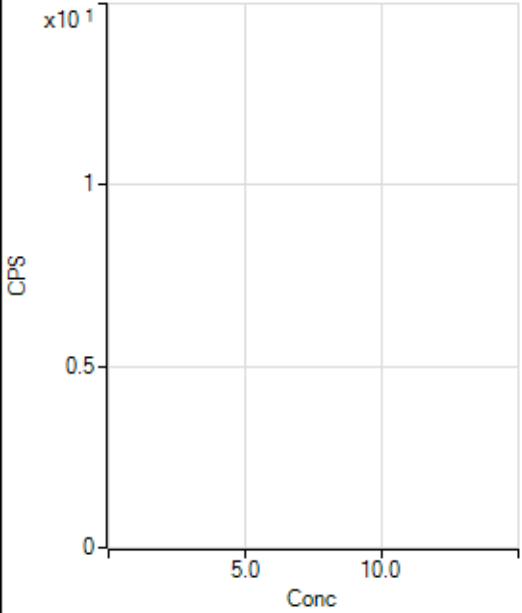
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	21.3
2	☐			43.33		P	20.4
3	☐			48.89		P	37.5
4	☐			53.33		P	18.8
5	☐			82.22		P	16.4
6	☐			101.11		P	23.9
7	☐			177.78		P	1.1
8	☐			361.12		P	12.6

160 Gd [He] No available calibration points



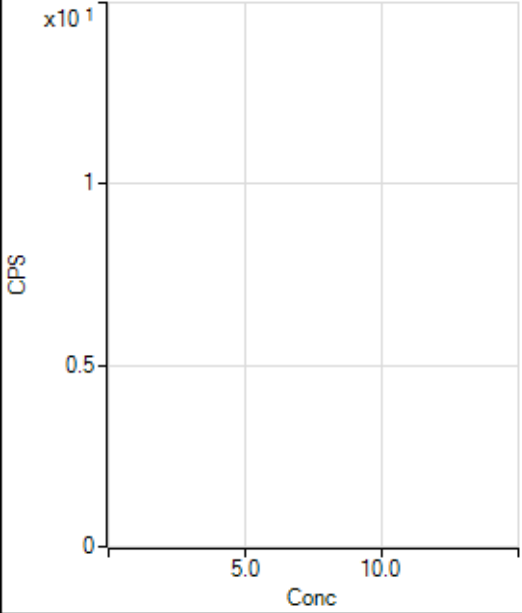
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			372.23		P	1.9
2	☐			347.78		P	11.4
3	☐			312.23		P	23.5
4	☐			350.01		P	5.7
5	☐			364.45		P	9.2
6	☐			358.90		P	7.9
7	☐			372.23		P	7.2
8	☐			526.68		P	4.1

164 Er [No Gas] No available calibration points



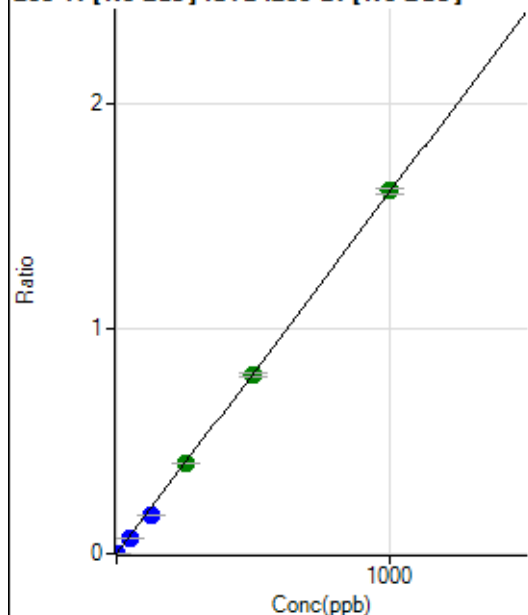
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	6.3
2	☐			78.89		P	38.1
3	☐			82.22		P	15.4
4	☐			101.11		P	23.4
5	☐			126.67		P	4.6
6	☐			151.11		P	7.7
7	☐			212.23		P	25.0
8	☐			422.23		P	9.6

164 Er [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.56		P	18.4
2	☐			66.67		P	13.2
3	☐			75.56		P	11.1
4	☐			66.66		P	22.9
5	☐			104.45		P	26.8
6	☐			80.00		P	32.5
7	☐			137.78		P	16.5
8	☐			341.12		P	7.6

203 TI [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	142.23	0.0000	P	17.2
2	☐	1.000	0.805	8163.62	0.0013	P	3.4
3	☐	50.000	42.314	431455.39	0.0679	P	1.8
4	☐	125.000	107.366	1113810.73	0.1722	P	1.5
5	☐	250.000	248.403	2659139.75	0.3984	A	0.5
6	☐	500.000	496.349	5404637.28	0.7960	A	1.6
7	☐	1000.000	1004.814	10566540.68	1.6113	A	1.3
8	☐			412.23	0.0001	P	5.5

$$y = 0.0016 * x + 2.3097E-005$$

R = 0.9998

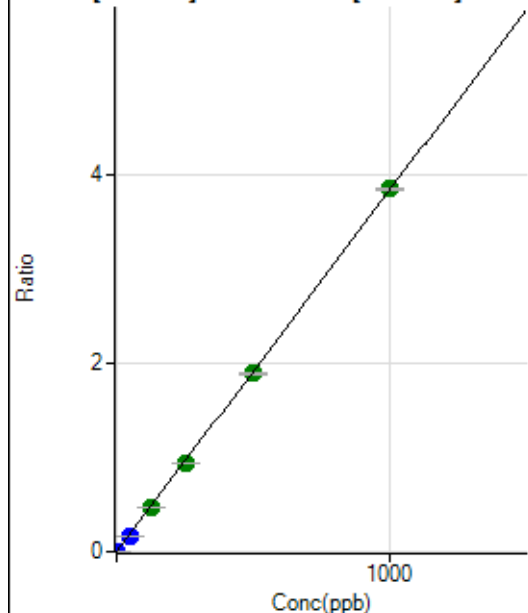
DL = 0.007434

BEC = 0.0144

Weight: <None>

Min Conc: 0

205 TI [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	341.12	0.0001	P	10.8
2	☐	1.000	0.809	19614.27	0.0032	P	2.9
3	☐	50.000	41.989	1022964.33	0.1609	P	0.6
4	☐	125.000	123.354	3057013.08	0.4726	A	1.5
5	☐	250.000	246.069	6292891.16	0.9427	A	0.4
6	☐	500.000	493.941	12849130.78	1.8923	A	1.3
7	☐	1000.000	1004.618	25238921.01	3.8486	A	0.5
8	☐			934.49	0.0002	P	4.0

$$y = 0.0038 * x + 5.5429E-005$$

R = 0.9999

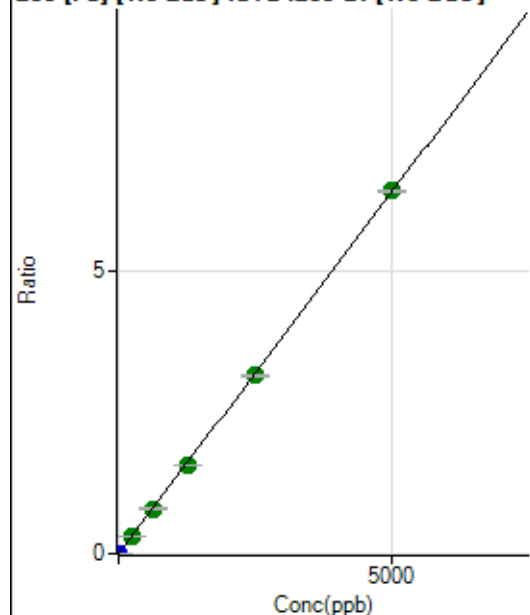
DL = 0.00467

BEC = 0.01447

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	414.45	0.0001	P	13.3
2	☐	1.000	0.816	6905.13	0.0011	P	4.1
3	☐	250.000	245.997	1999462.33	0.3146	A	2.3
4	☐	625.000	624.166	5161560.34	0.7980	A	2.9
5	☐	1250.000	1233.662	10528682.69	1.5773	A	0.5
6	☐	2500.000	2468.871	21434202.32	3.1564	A	0.6
7	☐	5000.000	5019.953	42088278.54	6.4179	A	0.3
8	☐			3993.96	0.0008	P	2.8

$$y = 0.0013 * x + 6.7367E-005$$

$$R = 1.0000$$

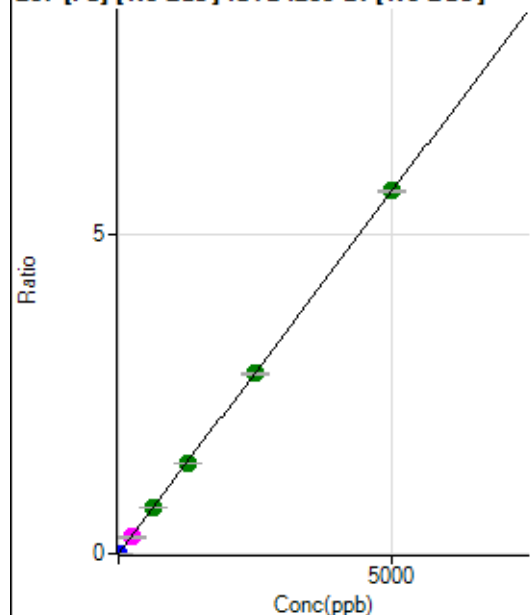
$$DL = 0.02105$$

$$BEC = 0.05269$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	368.90	0.0001	P	14.4
2	☐	1.000	0.826	6191.47	0.0010	P	2.6
3	☐	250.000	233.571	1684737.89	0.2648	M	8.9
4	☐	625.000	630.289	4622187.19	0.7146	A	1.1
5	☐	1250.000	1239.171	9377529.23	1.4048	A	0.4
6	☐	2500.000	2486.898	19143175.41	2.8192	A	1.6
7	☐	5000.000	5009.419	37241575.28	5.6788	A	0.2
8	☐			3594.97	0.0007	P	1.2

$$y = 0.0011 * x + 5.9906E-005$$

$$R = 1.0000$$

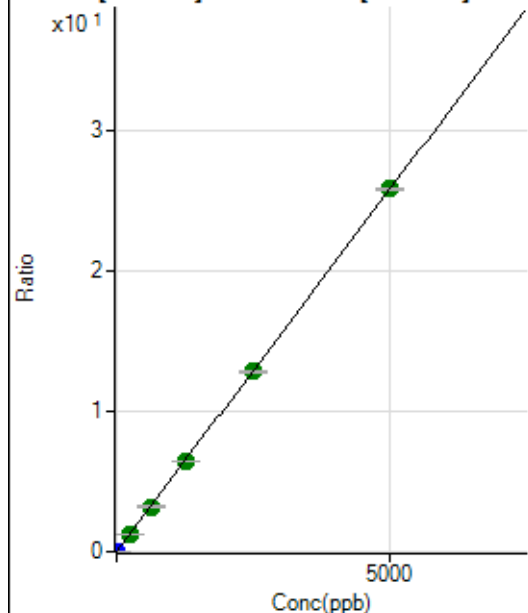
$$DL = 0.02283$$

$$BEC = 0.05284$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1688.95	0.0003	P	8.0
2	☐	1.000	0.804	27436.52	0.0044	P	2.0
3	☐	250.000	243.422	7972043.43	1.2538	A	2.8
4	☐	625.000	623.918	20785154.94	3.2133	A	1.4
5	☐	1250.000	1239.534	42612255.48	6.3835	A	0.7
6	☐	2500.000	2484.371	86875122.60	12.7941	A	1.4
7	☐	5000.000	5010.895	169227830.26	25.8049	A	0.2
8	☐			16183.94	0.0031	P	2.1

$$y = 0.0051 * x + 2.7442E-004$$

R = 1.0000

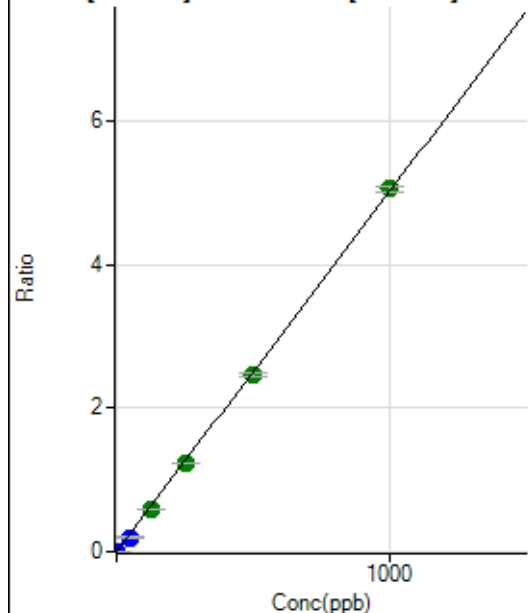
DL = 0.01276

BEC = 0.05329

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.00	0.0000	P	32.9
2	☐	1.000	0.748	23349.40	0.0038	P	1.6
3	☐	50.000	39.952	1274627.53	0.2005	P	1.2
4	☐	125.000	119.116	3866674.98	0.5978	A	1.7
5	☐	250.000	244.721	8198230.02	1.2281	A	0.9
6	☐	500.000	489.719	16688754.34	2.4577	A	1.8
7	☐	1000.000	1007.699	33164188.40	5.0572	A	1.6
8	☐			286.67	0.0001	P	3.0

$$y = 0.0050 * x + 3.2476E-006$$

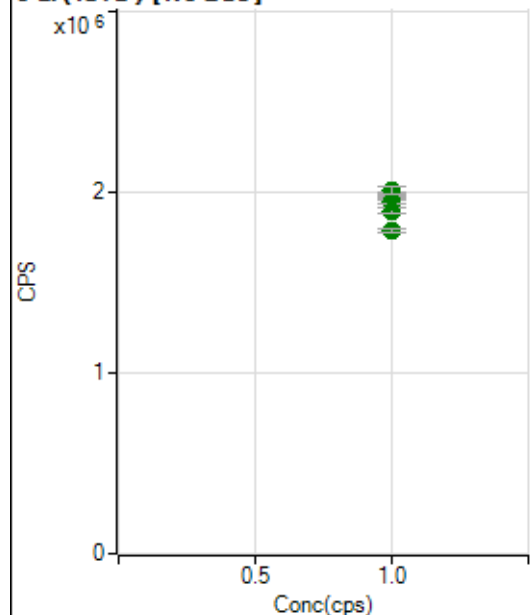
R = 0.9999

DL = 0.0006383

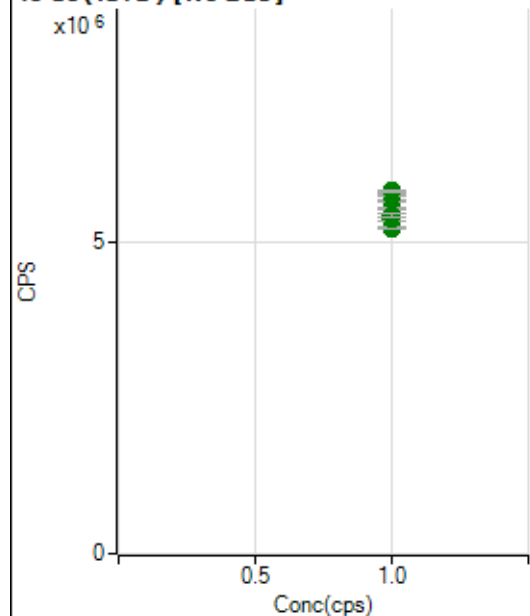
BEC = 0.0006471

Weight: <None>

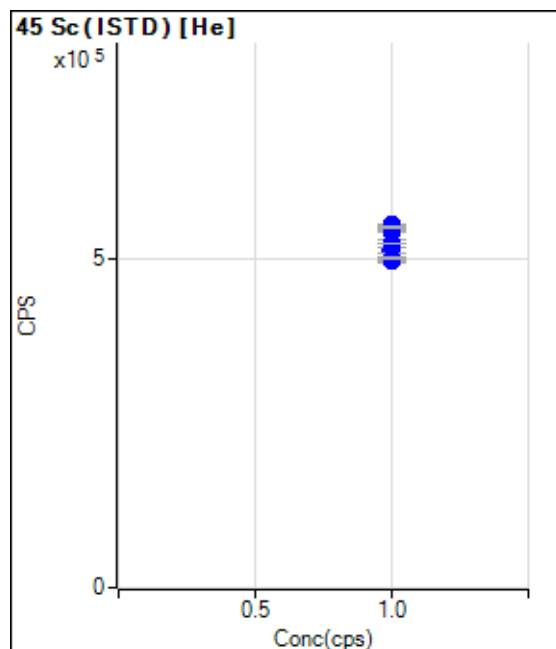
Min Conc: 0

6 Li (ISTD) [No Gas]

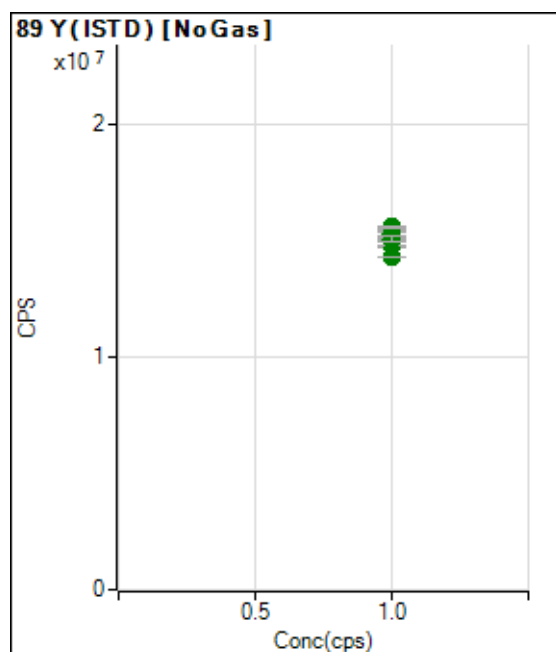
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1900510.02		A	2.1
2	☐	1.000		1945119.52		A	1.1
3	☐	1.000		1985739.89		A	1.4
4	☐	1.000		1993321.81		A	0.9
5	☐	1.000		1998243.11		A	0.6
6	☐	1.000		1988782.66		A	0.9
7	☐	1.000		2009553.51		A	2.0
8	☐	1.000		1789862.94		A	0.8

45 Sc (ISTD) [No Gas]

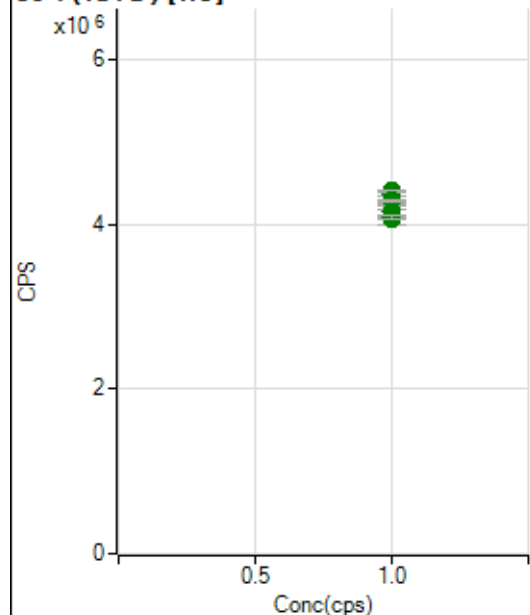
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5665201.45		A	0.3
2	☐	1.000		5762636.09		A	0.3
3	☐	1.000		5832341.72		A	0.6
4	☐	1.000		5543097.35		A	0.4
5	☐	1.000		5248700.79		A	0.8
6	☐	1.000		5232047.35		A	0.8
7	☐	1.000		5372103.39		A	1.1
8	☐	1.000		5438567.04		A	1.0



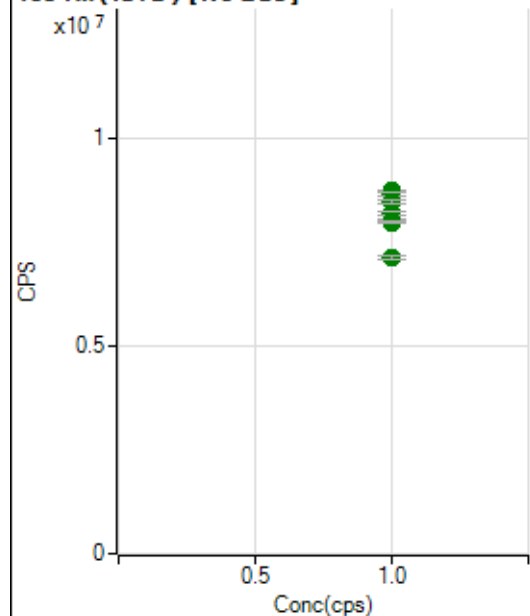
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		542085.34		P	0.4
2	☐	1.000		551550.79		P	0.1
3	☐	1.000		511113.10		P	6.5
4	☐	1.000		513290.97		P	2.0
5	☐	1.000		496823.29		P	0.6
6	☐	1.000		500661.88		P	0.5
7	☐	1.000		524325.70		P	0.1
8	☐	1.000		547975.80		P	0.8



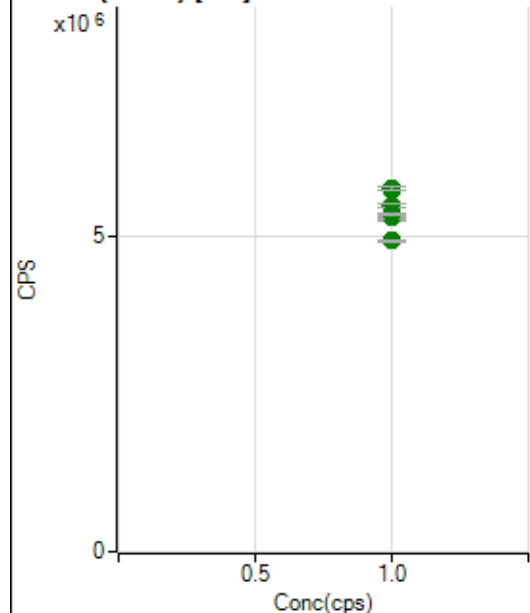
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15286993.94		A	1.1
2	☐	1.000		15483242.83		A	0.5
3	☐	1.000		15562915.88		A	0.8
4	☐	1.000		15053348.11		A	1.0
5	☐	1.000		14735252.56		A	0.5
6	☐	1.000		14759586.03		A	0.1
7	☐	1.000		15030873.11		A	1.4
8	☐	1.000		14270336.04		A	0.2

89 Y (ISTD) [He]

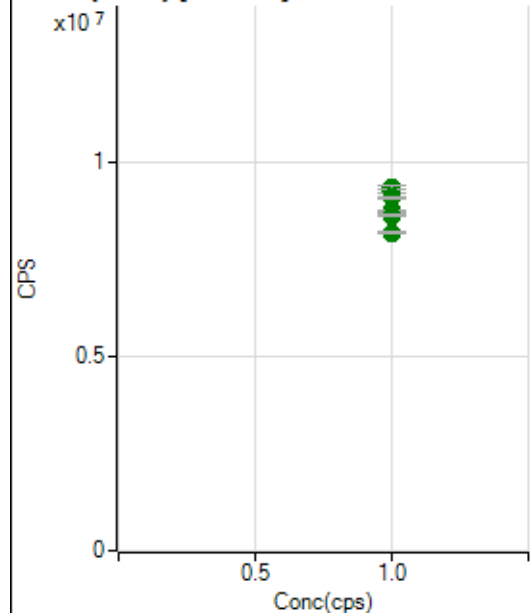
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4368892.47		A	1.1
2	☐	1.000		4411272.23		A	0.5
3	☐	1.000		4098974.83		A	4.6
4	☐	1.000		4169682.02		A	3.2
5	☐	1.000		4068658.52		A	0.2
6	☐	1.000		4089410.95		A	0.7
7	☐	1.000		4239139.45		A	0.7
8	☐	1.000		4296495.28		A	0.3

103 Rh (ISTD) [No Gas]

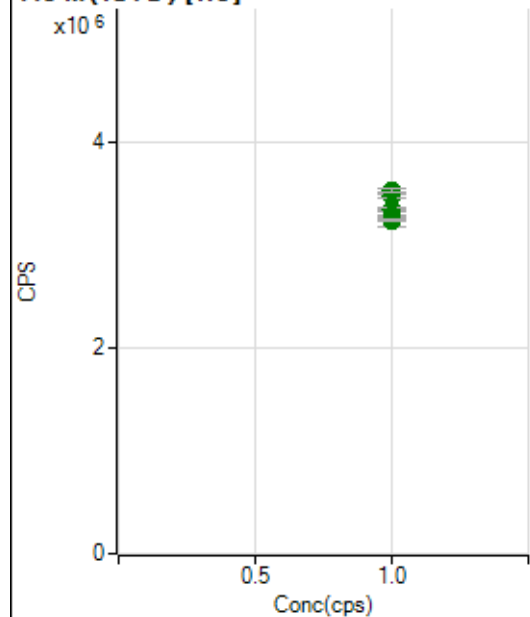
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8682207.51		A	1.3
2	☐	1.000		8748977.85		A	0.5
3	☐	1.000		8685856.88		A	0.9
4	☐	1.000		8505757.44		A	1.1
5	☐	1.000		8196310.36		A	1.0
6	☐	1.000		8007029.05		A	1.0
7	☐	1.000		7992718.14		A	0.9
8	☐	1.000		7129200.10		A	1.1

103 Rh (ISTD) [He]

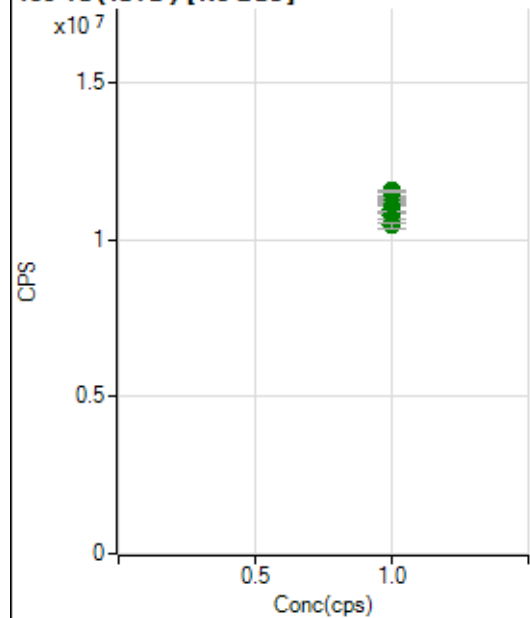
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5730196.93		A	0.2
2	☐	1.000		5749449.71		A	1.1
3	☐	1.000		5350312.56		A	3.6
4	☐	1.000		5488134.36		A	1.5
5	☐	1.000		5304777.53		A	0.8
6	☐	1.000		5299297.56		A	0.5
7	☐	1.000		5348990.82		A	1.1
8	☐	1.000		4927606.77		A	0.3

115 In (ISTD) [No Gas]

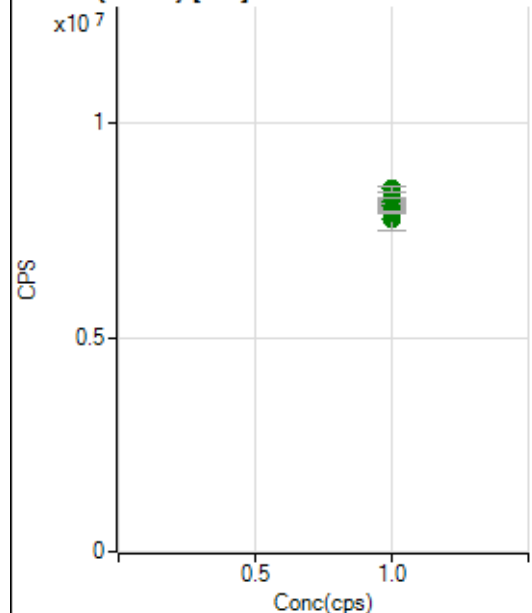
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9109294.02		A	0.4
2	☐	1.000		9269800.97		A	1.1
3	☐	1.000		9350913.00		A	1.0
4	☐	1.000		9100818.55		A	0.2
5	☐	1.000		8759181.19		A	0.3
6	☐	1.000		8697154.04		A	1.4
7	☐	1.000		8645002.51		A	1.0
8	☐	1.000		8192775.94		A	0.4

115 In (ISTD) [He]

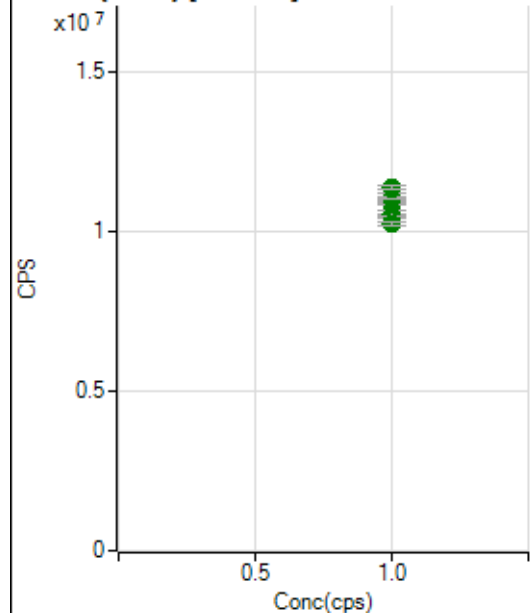
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3476642.31		A	1.3
2	☐	1.000		3527348.45		A	1.1
3	☐	1.000		3259801.60		A	4.8
4	☐	1.000		3343938.20		A	1.5
5	☐	1.000		3282082.29		A	0.5
6	☐	1.000		3248063.71		A	1.3
7	☐	1.000		3244083.82		A	0.4
8	☐	1.000		3241238.18		A	0.4

159 Tb (ISTD) [No Gas]

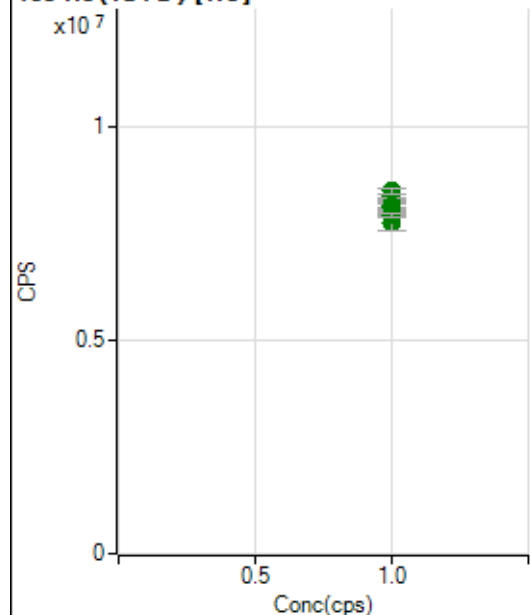
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10785226.85		A	1.5
2	☐	1.000		11008122.61		A	1.2
3	☐	1.000		11192944.56		A	0.7
4	☐	1.000		11268653.17		A	0.7
5	☐	1.000		11379156.22		A	0.5
6	☐	1.000		11572584.14		A	0.8
7	☐	1.000		11544750.52		A	0.5
8	☐	1.000		10460441.17		A	1.5

159 Tb (ISTD) [He]

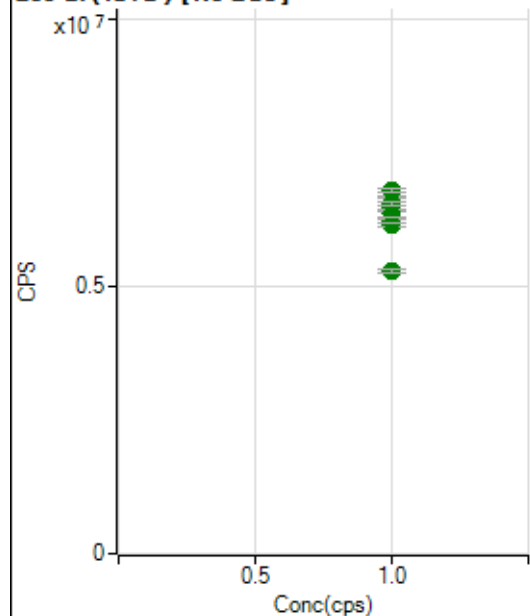
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8000140.99		A	1.4
2	☐	1.000		8088192.59		A	0.4
3	☐	1.000		7781745.65		A	7.5
4	☐	1.000		8066724.33		A	2.2
5	☐	1.000		8172714.11		A	0.6
6	☐	1.000		8251771.54		A	0.3
7	☐	1.000		8469134.11		A	1.3
8	☐	1.000		7914736.82		A	0.6

165 Ho (ISTD) [No Gas]

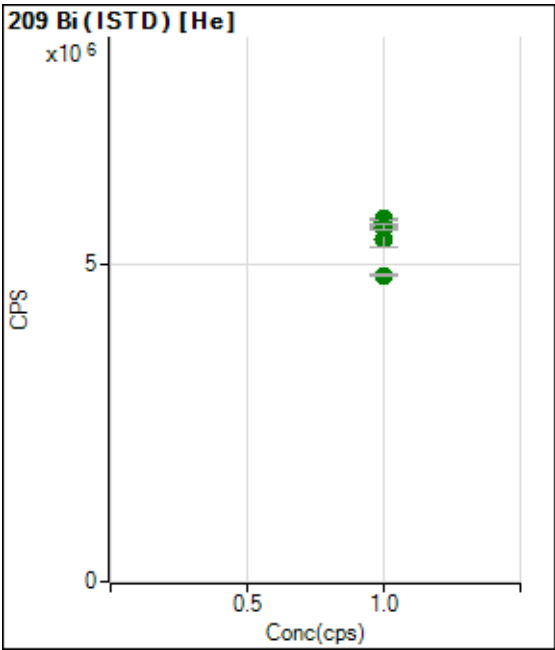
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10476382.90		A	1.2
2	☐	1.000		10579539.08		A	1.4
3	☐	1.000		10879889.28		A	1.0
4	☐	1.000		11012561.64		A	0.4
5	☐	1.000		11065804.42		A	0.9
6	☐	1.000		11348889.97		A	1.9
7	☐	1.000		11376461.50		A	1.0
8	☐	1.000		10243877.90		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8062600.36		A	0.2
2	☐	1.000		8152628.56		A	0.8
3	☐	1.000		7741395.37		A	4.5
4	☐	1.000		8137924.74		A	2.6
5	☐	1.000		8321615.78		A	0.2
6	☐	1.000		8367824.46		A	1.1
7	☐	1.000		8506361.61		A	1.5
8	☐	1.000		7950814.95		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6153463.10		A	0.8
2	☐	1.000		6218445.12		A	1.4
3	☐	1.000		6357753.72		A	1.8
4	☐	1.000		6468966.08		A	1.0
5	☐	1.000		6675331.01		A	0.2
6	☐	1.000		6790830.59		A	1.0
7	☐	1.000		6558048.31		A	0.8
8	☐	1.000		5294191.24		A	1.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5587217.28		A	0.9
2	☐	1.000		5613641.51		A	0.6
3	☐	1.000		5401296.62		A	4.9
4	☐	1.000		5669535.54		A	1.4
5	☐	1.000		5712408.32		A	0.5
6	☐	1.000		5698776.44		A	0.2
7	☐	1.000		5580342.28		A	1.6
8	☐	1.000		4818796.53		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7103124MS2.b

Acq. Date-Time 2024-10-31 19:34:42

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		14219	142190.70			1.821	5.000
24		393866	3938659.16			1.663	5.000
25		52707	527074.56			1.642	5.000
26		61927	619267.28			1.587	5.000
59		82599	825994.04			3.362	5.000
113		5731	57308.38			2.848	5.000
115		136521	1365212.80			3.398	5.000
206		23840	238402.28			2.774	5.000
207		19681	196813.92			2.779	5.000
208		48264	482640.68			2.993	5.000
220		0	4.80			36.533	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

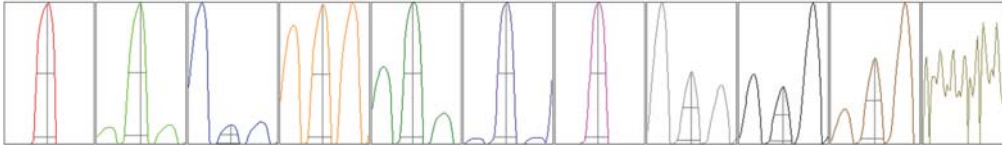
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14391	14425	14299	13784	14197
24	395972	399890	396762	382798	393908
25	52937	53230	53002	51175	53193
26	62301	62607	62107	60199	62420
59	84784	85219	83222	78455	81317
113	5907	5822	5766	5479	5681
115	141652	140405	135715	130145	134690
206	24666	24150	23939	22907	23539
207	20332	20023	19697	18905	19450
208	49688	49162	48785	46069	47615

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	1	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	24173.47	8.95	8.90 - 9.10	
24	709986.31	24.00	23.90 - 24.10	
25	92965.79	24.95	24.90 - 25.10	
26	110003.30	25.95	25.90 - 26.10	
59	143536.60	58.90	58.90 - 59.10	
113	11104.82	112.95	112.90 - 113.10	
115	262368.98	114.95	114.90 - 115.10	
206	48022.50	206.00	205.90 - 206.10	
207	39680.62	207.00	206.90 - 207.10	
208	97188.70	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.741	0.900	
24	0.59	0.783	0.900	
25	0.59	0.771	0.900	
26	0.60	0.780	0.900	
59	0.60	0.778	0.900	
113	0.53	0.753	0.900	
115	0.51	0.768	0.900	
206	0.51	0.769	0.900	
207	0.51	0.751	0.900	
208	0.51	0.775	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.3 V	Deflect	15.4 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	4.9 mV	Analog HV	2429 V	Pulse HV	2000 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		31889	318891.35			0.962	
89		158430	1584295.20			1.014	
205		38609	386088.06			0.340	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	32340	32071	31614	31703	31717
89	160768	158455	157748	158809	156368
205	38705	38596	38396	38621	38726

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	135	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.08		
Hardware Settings					
Torch					
Torch H	-0.6 mm	Torch V	0.5 mm		
EM					
Discriminator	4.9 mV	Analog HV	2429 V	Pulse HV	2000 V

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:06:40 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.03	-0.06	0.03	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	-0.01	0.00	0.00	N/A	ppb
Barium	135-1	-0.01	0.01	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.02	0.00	0.00	N/A	ppb
Cadmium	106-1	0.42	-0.44	0.03	0.00	N/A	ppb
Cadmium	111-1	0.01	-0.01	0.00	0.00	N/A	ppb
Calcium	43-1	0.29	0.35	-0.64	0.00	N/A	ppb
Calcium	44-1	1.25	-1.07	-0.18	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.00	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.00	0.00	-0.01	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.05	-0.09	0.13	0.00	N/A	ppb
Iron	57-2	-0.92	-0.05	0.97	0.00	N/A	ppb
Iron	54-2	-0.21	-0.30	0.50	0.00	N/A	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:06:40 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.01	-0.01	0.00	N/A	ppb
Lead	207-1	0.01	-0.01	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.07	0.03	0.04	0.00	N/A	ppb
Manganese	55-2	-0.01	-0.01	0.01	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.01	0.00	0.00	N/A	ppb
Phosphorus	31-2	-15.09	-14.26	-13.01	-14.12		ppb
Potassium	39-2	-0.26	0.56	-0.30	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.14	-0.23	0.09	0.00	N/A	ppb
Selenium	77-2	0.11	-0.05	-0.05	0.00	N/A	ppb
Selenium	78-2	0.46	0.03	-0.49	0.00	N/A	ppb
Silicon	28-1	-0.05	0.00	0.05	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-0.37	0.06	0.31	0.00	N/A	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	17.14	-55.82	-75.70	-38.13		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	-0.02	0.01	0.00	N/A	ppb
Titanium	47-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S00

Instrumnet Name :P7

Client Sample ID :S0

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:06:40

DataFile Name :004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.07	-0.16	0.09	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

S02

Instrumnet Name :

P7

Client Sample ID :

S02

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:13:13

DataFile Name :

006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.25	16.99	16.49	16.91	2.29	ppb
Antimony	121-1	1.91	1.92	1.97	1.93	1.70	ppb
Arsenic	75-2	1.12	1.04	1.10	1.08	3.65	ppb
Barium	135-1	8.80	9.05	9.06	8.97	1.62	ppb
Barium	137-1	8.89	9.37	9.18	9.15	2.63	ppb
Beryllium	9-1	0.96	1.04	1.05	1.02	4.70	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.23	1.07	1.15	1.15	7.07	ppb
Cadmium	106-1	1.46	1.38	1.18	1.34	10.53	ppb
Cadmium	111-1	0.97	1.11	1.08	1.05	7.35	ppb
Calcium	43-1	497.79	495.00	505.83	499.54	1.13	ppb
Calcium	44-1	502.26	504.96	504.62	503.95	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.04	2.02	2.01	2.02	0.70	ppb
Cobalt	59-2	1.02	1.05	1.02	1.03	1.71	ppb
Copper	63-2	1.90	1.82	1.89	1.87	2.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	56-2	52.53	52.86	51.91	52.43	0.92	ppb
Iron	57-2	54.78	55.63	56.95	55.79	1.96	ppb
Iron	54-2	53.44	55.22	53.56	54.07	1.84	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:13:13 DataFile Name : 006CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.85	0.78	0.82	0.82	4.36	ppb
Lead	207-1	0.85	0.82	0.81	0.83	2.81	ppb
Lead	208-1	0.82	0.79	0.80	0.80	2.13	ppb
Lithium	6-1				102		%
Magnesium	24-2	514.03	512.41	505.06	510.50	0.94	ppb
Manganese	55-2	0.95	0.98	0.98	0.97	1.65	ppb
Molybdenum	94-1	5.02	5.14	5.10	5.09	1.18	ppb
Molybdenum	95-1	4.22	4.19	4.24	4.22	0.62	ppb
Molybdenum	96-1	4.22	4.34	4.41	4.32	2.19	ppb
Molybdenum	97-1	4.31	4.13	4.27	4.24	2.32	ppb
Molybdenum	98-1	4.27	4.25	4.29	4.27	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.97	1.05	0.99	4.99	ppb
Phosphorus	31-2	14.46	16.06	11.85	14.12	15.05	ppb
Potassium	39-2	493.48	488.36	487.53	489.79	0.66	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	5.39	4.74	5.29	5.14	6.78	ppb
Selenium	77-2	6.05	5.50	5.04	5.53	9.19	ppb
Selenium	78-2	4.06	6.73	4.06	4.95	31.13	ppb
Silicon	28-1	1.47	1.64	1.49	1.53	6.07	ppb
Silver	107-1	0.98	1.01	1.00	1.00	1.48	ppb
Silver	109-1	0.98	1.01	1.02	1.00	2.19	ppb
Sodium	23-2	481.27	481.99	479.57	480.94	0.26	ppb
Strontium	86-1	1.03	1.00	0.95	0.99	4.24	ppb
Strontium	88-1	0.97	0.96	0.96	0.96	0.73	ppb
Sulfur	34-1	37.04	52.30	25.05	38.13	35.82	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.84	0.79	0.79	0.80	3.48	ppb
Thallium	205-1	0.84	0.79	0.80	0.81	2.98	ppb
Tin	118-1	4.53	4.69	4.60	4.61	1.67	ppb
Titanium	47-1	4.41	4.31	4.32	4.35	1.24	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S02

Instrumnet Name :P7

Client Sample ID :S02

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:13:13

DataFile Name :006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.76	0.74	0.74	0.75	1.64	ppb
Vanadium	51-2	5.03	4.95	4.88	4.95	1.44	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	4.83	4.91	4.74	4.83	1.69	ppb
Zirconium	90-1	0.92	0.96	0.94	0.94	2.00	ppb
Zirconium	91-1	0.93	0.97	0.93	0.95	2.47	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:16:30 DataFile Name : 007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1083.78	1044.76	951.23	1026.59	6.64	ppb
Antimony	121-1	49.75	50.26	49.62	49.88	0.68	ppb
Arsenic	75-2	59.13	55.12	52.72	55.66	5.82	ppb
Barium	135-1	240.57	243.62	238.03	240.74	1.16	ppb
Barium	137-1	240.37	241.19	238.68	240.08	0.53	ppb
Beryllium	9-1	55.47	57.67	56.94	56.69	1.98	ppb
Bismuth	209-1				103		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	57.75	55.59	56.22	56.52	1.97	ppb
Cadmium	106-1	57.09	54.91	55.24	55.75	2.11	ppb
Cadmium	111-1	53.02	53.65	52.54	53.07	1.05	ppb
Calcium	43-1	5950.04	6066.40	5980.48	5998.97	1.01	ppb
Calcium	44-1	5350.51	5410.53	5364.65	5375.23	0.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	58.71	56.14	50.87	55.24	7.23	ppb
Cobalt	59-2	58.32	54.96	50.38	54.56	7.30	ppb
Copper	63-2	602.62	583.87	516.29	567.59	8.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				96		%
Indium	115-1				103		%
Indium	115-2				94		%
Iron	56-2	2954.29	2846.33	2584.82	2795.15	6.80	ppb
Iron	57-2	3033.03	2939.65	2628.40	2867.03	7.39	ppb
Iron	54-2	3083.00	2950.27	2708.88	2914.05	6.51	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:16:30 DataFile Name : 007CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	252.14	244.67	241.19	246.00	2.27	ppb
Lead	207-1	209.79	248.99	241.94	233.57	8.95	ppb
Lead	208-1	236.67	250.25	243.34	243.42	2.79	ppb
Lithium	6-1				104		%
Magnesium	24-2	5524.63	5332.59	4876.05	5244.42	6.35	ppb
Manganese	55-2	576.35	547.77	501.91	542.01	6.93	ppb
Molybdenum	94-1	496.58	509.20	497.77	501.18	1.39	ppb
Molybdenum	95-1	502.21	512.74	498.98	504.64	1.43	ppb
Molybdenum	96-1	502.34	510.72	503.29	505.45	0.91	ppb
Molybdenum	97-1	502.86	503.94	503.59	503.47	0.11	ppb
Molybdenum	98-1	499.20	502.27	498.98	500.15	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	58.22	56.81	51.23	55.42	6.66	ppb
Phosphorus	31-2	1145.72	1119.65	1018.24	1094.53	6.15	ppb
Potassium	39-2	2783.45	2647.16	2383.17	2604.59	7.81	ppb
Rhodium	103-1				100		%
Rhodium	103-2				93		%
Scandium	45-1				103		%
Scandium	45-2				94		%
Selenium	82-1	53.66	54.47	56.03	54.72	2.20	ppb
Selenium	77-2	61.10	54.97	48.92	55.00	11.08	ppb
Selenium	78-2	59.97	56.43	56.55	57.65	3.49	ppb
Silicon	28-1	52.80	55.80	55.02	54.54	2.85	ppb
Silver	107-1	53.29	53.38	53.04	53.24	0.32	ppb
Silver	109-1	52.94	52.97	52.48	52.80	0.52	ppb
Sodium	23-2	5498.51	5261.73	4809.15	5189.80	6.75	ppb
Strontium	86-1	1258.93	1286.77	1276.20	1273.97	1.10	ppb
Strontium	88-1	1259.06	1272.39	1254.33	1261.93	0.74	ppb
Sulfur	34-1	969.16	1092.90	1063.90	1041.99	6.21	ppb
Terbium	159-1				104		%
Terbium	159-2				97		%
Thallium	203-1	42.70	42.79	41.45	42.31	1.77	ppb
Thallium	205-1	42.05	42.21	41.71	41.99	0.61	ppb
Tin	118-1	49.21	50.61	49.22	49.68	1.63	ppb
Titanium	47-1	496.47	504.45	497.42	499.45	0.87	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S03

Instrumnet Name :P7

Client Sample ID :S03

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:16:30

DataFile Name :007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	39.97	40.40	39.48	39.95	1.15	ppb
Vanadium	51-2	57.03	55.77	50.23	54.34	6.67	ppb
Yttrium	89-1				102		%
Yttrium	89-2				94		%
Zinc	66-2	580.81	567.20	506.47	551.50	7.18	ppb
Zirconium	90-1	48.54	49.76	49.40	49.23	1.28	ppb
Zirconium	91-1	48.71	49.30	49.30	49.10	0.69	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:19:29 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2416.35	2411.08	2478.53	2435.32	1.54	ppb
Antimony	121-1	120.85	123.23	123.16	122.41	1.11	ppb
Arsenic	75-2	130.43	128.11	135.47	131.34	2.87	ppb
Barium	135-1	639.22	645.96	640.69	641.96	0.55	ppb
Barium	137-1	643.49	648.77	655.64	649.30	0.94	ppb
Beryllium	9-1	138.11	138.59	137.83	138.18	0.28	ppb
Bismuth	209-1				105		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	134.47	136.32	139.19	136.66	1.74	ppb
Cadmium	106-1	131.15	138.10	139.76	136.34	3.35	ppb
Cadmium	111-1	127.88	129.75	129.45	129.03	0.78	ppb
Calcium	43-1	14926.05	15003.70	14890.74	14940.16	0.39	ppb
Calcium	44-1	13570.81	13556.30	13439.22	13522.11	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	129.43	128.70	132.87	130.33	1.71	ppb
Cobalt	59-2	127.36	126.21	130.60	128.06	1.78	ppb
Copper	63-2	1328.27	1337.17	1357.65	1341.03	1.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	56-2	6632.81	6591.46	6853.12	6692.46	2.10	ppb
Iron	57-2	6770.40	6729.48	6914.06	6804.65	1.42	ppb
Iron	54-2	6713.99	6687.08	6780.67	6727.25	0.72	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:19:29 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	620.33	643.84	608.33	624.17	2.89	ppb
Lead	207-1	628.38	637.93	624.56	630.29	1.09	ppb
Lead	208-1	618.05	633.57	620.13	623.92	1.35	ppb
Lithium	6-1				105		%
Magnesium	24-2	12333.06	12132.41	12505.93	12323.80	1.52	ppb
Manganese	55-2	1286.07	1278.75	1313.16	1292.66	1.40	ppb
Molybdenum	94-1	1257.91	1274.94	1284.96	1272.61	1.07	ppb
Molybdenum	95-1	1261.00	1280.08	1286.53	1275.87	1.04	ppb
Molybdenum	96-1	1263.01	1278.19	1270.38	1270.53	0.60	ppb
Molybdenum	97-1	1267.13	1269.22	1274.58	1270.31	0.30	ppb
Molybdenum	98-1	1262.13	1277.18	1276.67	1271.99	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	130.06	129.42	132.45	130.64	1.22	ppb
Phosphorus	31-2	2613.42	2590.64	2683.76	2629.27	1.85	ppb
Potassium	39-2	6049.75	6059.52	6266.34	6125.20	2.00	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	132.83	136.74	135.88	135.15	1.52	ppb
Selenium	77-2	144.80	132.78	134.37	137.32	4.75	ppb
Selenium	78-2	134.43	133.58	144.64	137.55	4.48	ppb
Silicon	28-1	132.40	133.46	135.54	133.80	1.20	ppb
Silver	107-1	136.74	135.21	139.97	137.31	1.77	ppb
Silver	109-1	136.16	137.69	137.20	137.02	0.57	ppb
Sodium	23-2	12248.10	12207.87	12507.28	12321.08	1.32	ppb
Strontium	86-1	3200.92	3218.09	3243.75	3220.92	0.67	ppb
Strontium	88-1	3176.94	3212.69	3180.83	3190.15	0.61	ppb
Sulfur	34-1	2665.40	2599.95	2494.86	2586.73	3.33	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	106.43	109.18	106.49	107.37	1.46	ppb
Thallium	205-1	124.43	124.48	121.15	123.35	1.55	ppb
Tin	118-1	120.13	122.51	122.64	121.76	1.16	ppb
Titanium	47-1	1275.39	1270.35	1235.79	1260.51	1.71	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S04

Instrumnet Name :P7

Client Sample ID :S04

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:19:29

DataFile Name :008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	119.38	120.94	117.02	119.12	1.66	ppb
Vanadium	51-2	127.54	127.37	131.44	128.78	1.79	ppb
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	1296.85	1291.54	1324.69	1304.36	1.37	ppb
Zirconium	90-1	126.97	128.34	128.33	127.88	0.62	ppb
Zirconium	91-1	123.30	125.01	125.16	124.49	0.83	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:22:21 DataFile Name : 009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4790.31	4774.82	4740.21	4768.44	0.54	ppb
Antimony	121-1	253.96	252.72	253.79	253.49	0.27	ppb
Arsenic	75-2	258.90	257.49	253.65	256.68	1.06	ppb
Barium	135-1	1276.70	1270.83	1284.96	1277.50	0.56	ppb
Barium	137-1	1279.40	1267.29	1262.81	1269.83	0.68	ppb
Beryllium	9-1	264.74	267.74	267.52	266.67	0.63	ppb
Bismuth	209-1				108		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	259.52	260.98	263.13	261.21	0.70	ppb
Cadmium	106-1	260.50	257.24	259.62	259.12	0.65	ppb
Cadmium	111-1	247.16	245.12	245.29	245.86	0.46	ppb
Calcium	43-1	29785.93	29795.66	29934.89	29838.83	0.28	ppb
Calcium	44-1	26878.22	26797.24	26806.79	26827.41	0.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	255.68	256.57	255.00	255.75	0.31	ppb
Cobalt	59-2	258.24	262.21	256.57	259.01	1.12	ppb
Copper	63-2	2631.31	2616.28	2592.22	2613.27	0.75	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				103		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	56-2	13137.29	13081.18	13018.23	13078.90	0.46	ppb
Iron	57-2	13043.57	12784.03	13002.76	12943.45	1.08	ppb
Iron	54-2	13214.78	13277.06	13182.93	13224.93	0.36	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:22:21 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1237.85	1226.25	1236.89	1233.66	0.52	ppb
Lead	207-1	1238.65	1234.73	1244.14	1239.17	0.38	ppb
Lead	208-1	1234.27	1234.43	1249.90	1239.53	0.72	ppb
Lithium	6-1				105		%
Magnesium	24-2	24694.71	24595.83	24381.76	24557.43	0.65	ppb
Manganese	55-2	2536.53	2545.36	2536.06	2539.32	0.21	ppb
Molybdenum	94-1	2502.59	2553.98	2524.18	2526.92	1.02	ppb
Molybdenum	95-1	2506.55	2514.74	2501.46	2507.58	0.27	ppb
Molybdenum	96-1	2504.71	2527.58	2482.48	2504.92	0.90	ppb
Molybdenum	97-1	2507.25	2536.41	2530.81	2524.82	0.61	ppb
Molybdenum	98-1	2528.74	2536.97	2505.37	2523.69	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	252.09	252.36	251.08	251.84	0.27	ppb
Phosphorus	31-2	5135.46	5162.14	5080.19	5125.93	0.82	ppb
Potassium	39-2	12032.68	12066.86	11916.64	12005.39	0.66	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	262.04	266.34	264.73	264.37	0.82	ppb
Selenium	77-2	265.38	264.42	257.20	262.33	1.70	ppb
Selenium	78-2	267.11	270.58	262.56	266.75	1.51	ppb
Silicon	28-1	262.70	265.63	266.93	265.09	0.82	ppb
Silver	107-1	265.17	259.87	261.46	262.17	1.04	ppb
Silver	109-1	263.01	261.03	261.22	261.75	0.42	ppb
Sodium	23-2	24531.00	24611.34	24543.58	24561.97	0.18	ppb
Strontium	86-1	6313.45	6379.95	6282.90	6325.43	0.78	ppb
Strontium	88-1	6301.83	6383.02	6325.88	6336.91	0.66	ppb
Sulfur	34-1	4992.80	5077.36	4963.60	5011.25	1.18	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	248.96	247.08	249.17	248.40	0.46	ppb
Thallium	205-1	247.28	245.11	245.82	246.07	0.45	ppb
Tin	118-1	252.88	254.50	253.93	253.77	0.32	ppb
Titanium	47-1	2494.76	2524.17	2518.42	2512.45	0.62	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S05

Instrumnet Name :P7

Client Sample ID :S05

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:22:21

DataFile Name :009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	246.25	245.72	242.19	244.72	0.90	ppb
Vanadium	51-2	254.02	253.74	253.53	253.76	0.10	ppb
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	2660.47	2637.53	2655.08	2651.03	0.45	ppb
Zirconium	90-1	252.93	251.72	252.07	252.24	0.25	ppb
Zirconium	91-1	245.15	247.31	245.80	246.09	0.45	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9575.80	9443.07	9383.32	9467.40	1.04	ppb
Antimony	121-1	495.41	497.68	507.62	500.24	1.30	ppb
Arsenic	75-2	507.27	509.34	503.90	506.84	0.54	ppb
Barium	135-1	2493.34	2463.66	2505.14	2487.38	0.86	ppb
Barium	137-1	2475.05	2504.43	2534.44	2504.64	1.19	ppb
Beryllium	9-1	512.31	528.30	521.04	520.55	1.54	ppb
Bismuth	209-1				110		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	496.09	502.56	514.61	504.42	1.86	ppb
Cadmium	106-1	487.21	498.90	514.99	500.37	2.79	ppb
Cadmium	111-1	466.84	474.99	482.48	474.77	1.65	ppb
Calcium	43-1	57148.17	57544.93	58208.04	57633.71	0.93	ppb
Calcium	44-1	52315.95	52890.89	53319.51	52842.12	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	507.16	508.40	510.50	508.69	0.33	ppb
Cobalt	59-2	519.60	514.87	506.62	513.70	1.28	ppb
Copper	63-2	5146.19	5138.30	5090.44	5124.98	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				104		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	56-2	26434.66	26132.88	26229.66	26265.73	0.59	ppb
Iron	57-2	26119.80	25804.87	26073.74	25999.47	0.65	ppb
Iron	54-2	26465.84	26497.38	26371.39	26444.87	0.25	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2453.06	2469.03	2484.52	2468.87	0.64	ppb
Lead	207-1	2458.20	2469.68	2532.81	2486.90	1.62	ppb
Lead	208-1	2458.68	2470.13	2524.31	2484.37	1.41	ppb
Lithium	6-1				105		%
Magnesium	24-2	48953.50	48715.30	48757.10	48808.63	0.26	ppb
Manganese	55-2	5121.46	5053.51	5091.65	5088.87	0.67	ppb
Molybdenum	94-1	4903.89	5026.36	5075.68	5001.98	1.77	ppb
Molybdenum	95-1	4932.21	5013.84	5021.99	4989.34	1.00	ppb
Molybdenum	96-1	4898.19	4996.33	4976.79	4957.11	1.05	ppb
Molybdenum	97-1	4931.84	5034.06	5032.23	4999.38	1.17	ppb
Molybdenum	98-1	4948.86	5041.78	5066.44	5019.03	1.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	501.43	497.35	493.98	497.59	0.75	ppb
Phosphorus	31-2	10321.11	10229.03	10122.89	10224.35	0.97	ppb
Potassium	39-2	24060.60	23867.36	23798.28	23908.74	0.57	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				92		%
Selenium	82-1	504.53	513.99	514.60	511.04	1.11	ppb
Selenium	77-2	511.05	524.37	504.04	513.15	2.01	ppb
Selenium	78-2	530.22	523.88	509.47	521.19	2.04	ppb
Silicon	28-1	499.80	514.53	514.79	509.71	1.68	ppb
Silver	107-1	492.24	503.71	508.43	501.46	1.66	ppb
Silver	109-1	493.60	502.32	507.25	501.06	1.38	ppb
Sodium	23-2	49309.45	48933.87	49295.21	49179.51	0.43	ppb
Strontium	86-1	12458.42	12592.99	12632.64	12561.35	0.73	ppb
Strontium	88-1	12344.73	12581.58	12625.62	12517.31	1.21	ppb
Sulfur	34-1	9604.53	9907.13	9796.12	9769.26	1.57	ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	498.69	487.66	502.70	496.35	1.57	ppb
Thallium	205-1	489.97	490.72	501.14	493.94	1.26	ppb
Tin	118-1	489.86	498.28	508.12	498.76	1.83	ppb
Titanium	47-1	4869.63	5006.56	4958.04	4944.74	1.40	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	479.96	491.80	497.40	489.72	1.82	ppb
Vanadium	51-2	510.94	506.03	503.72	506.90	0.73	ppb
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	5180.28	5210.30	5140.89	5177.16	0.67	ppb
Zirconium	90-1	494.30	503.57	506.43	501.43	1.27	ppb
Zirconium	91-1	490.88	502.51	509.14	500.84	1.85	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:27:52 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18556.18	18405.18	18652.95	18538.10	0.67	ppb
Antimony	121-1	992.65	997.61	1007.76	999.34	0.77	ppb
Arsenic	75-2	1005.21	985.59	990.71	993.83	1.02	ppb
Barium	135-1	4949.46	5060.73	4983.14	4997.78	1.14	ppb
Barium	137-1	4965.48	5004.12	5000.95	4990.18	0.43	ppb
Beryllium	9-1	991.73	975.53	983.47	983.58	0.82	ppb
Bismuth	209-1				107		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	986.52	996.72	996.37	993.20	0.58	ppb
Cadmium	106-1	991.44	990.89	1005.15	995.83	0.81	ppb
Cadmium	111-1	1008.63	1011.90	1018.46	1012.99	0.49	ppb
Calcium	43-1	114970.70	115282.78	114793.47	115015.65	0.22	ppb
Calcium	44-1	105748.48	106596.65	106375.84	106240.32	0.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	993.45	989.01	997.41	993.29	0.42	ppb
Cobalt	59-2	979.91	992.83	998.13	990.29	0.95	ppb
Copper	63-2	9940.85	9817.06	9925.39	9894.44	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				106		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	56-2	50653.99	50632.25	50992.82	50759.69	0.40	ppb
Iron	57-2	50883.35	50215.54	50362.03	50486.97	0.70	ppb
Iron	54-2	51555.45	51417.03	51474.43	51482.30	0.14	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:27:52 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5036.89	5017.24	5005.73	5019.95	0.31	ppb
Lead	207-1	5018.68	4999.82	5009.76	5009.42	0.19	ppb
Lead	208-1	5022.98	4998.26	5011.44	5010.89	0.25	ppb
Lithium	6-1				106		%
Magnesium	24-2	95660.62	95594.13	96769.46	96008.07	0.69	ppb
Manganese	55-2	9968.32	9949.39	9897.19	9938.30	0.37	ppb
Molybdenum	94-1	10006.77	10016.71	9944.71	9989.40	0.39	ppb
Molybdenum	95-1	10034.34	10018.15	9947.41	9999.97	0.46	ppb
Molybdenum	96-1	10131.21	10011.52	9909.41	10017.38	1.11	ppb
Molybdenum	97-1	10075.39	9910.38	9988.41	9991.39	0.83	ppb
Molybdenum	98-1	10033.13	9874.48	10037.81	9981.81	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	994.80	1000.27	1004.24	999.77	0.47	ppb
Phosphorus	31-2	19670.25	19779.36	20056.77	19835.46	1.00	ppb
Potassium	39-2	47168.45	47195.21	47380.90	47248.19	0.24	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				95		%
Scandium	45-2				97		%
Selenium	82-1	994.75	983.84	989.55	989.38	0.55	ppb
Selenium	77-2	988.56	971.25	1005.83	988.55	1.75	ppb
Selenium	78-2	986.02	980.84	982.94	983.27	0.26	ppb
Silicon	28-1	979.25	997.79	993.35	990.13	0.98	ppb
Silver	107-1	993.51	986.97	1003.11	994.53	0.82	ppb
Silver	109-1	990.72	994.27	999.68	994.89	0.45	ppb
Sodium	23-2	96841.26	96750.88	97840.03	97144.05	0.62	ppb
Strontium	86-1	24957.92	25064.51	24789.41	24937.28	0.56	ppb
Strontium	88-1	25129.26	24889.52	24863.85	24960.88	0.59	ppb
Sulfur	34-1	20099.94	20273.63	19925.28	20099.62	0.87	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	1017.73	1005.72	990.99	1004.81	1.33	ppb
Thallium	205-1	1009.44	1004.50	999.92	1004.62	0.47	ppb
Tin	118-1	1002.88	998.77	998.67	1000.10	0.24	ppb
Titanium	47-1	9921.93	10105.83	10041.93	10023.23	0.93	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S07

Instrumnet Name :P7

Client Sample ID :S07

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:27:52

DataFile Name :011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1018.90	1015.53	988.66	1007.70	1.64	ppb
Vanadium	51-2	987.69	994.49	1002.58	994.92	0.75	ppb
Yttrium	89-1				98		%
Yttrium	89-2				97		%
Zinc	66-2	9892.27	9822.24	9878.38	9864.29	0.38	ppb
Zirconium	90-1	986.92	1003.40	1004.89	998.40	1.00	ppb
Zirconium	91-1	998.93	1004.31	998.76	1000.67	0.32	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:42:01 DataFile Name : 013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100715.67	100323.40	100036.64	100358.57	0.34	ppb
Antimony	121-1	0.27	0.28	0.29	0.28	3.38	ppb
Arsenic	75-2	0.54	0.49	0.54	0.52	5.49	ppb
Barium	135-1	1.76	1.67	1.81	1.75	4.01	ppb
Barium	137-1	1.70	1.70	1.72	1.71	0.81	ppb
Beryllium	9-1	0.05	0.04	0.04	0.04	18.01	ppb
Bismuth	209-1				86		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.43	0.20	0.50	0.38	41.75	ppb
Cadmium	106-1	-1.51	-2.15	-1.40	-1.69		ppb
Cadmium	111-1	0.07	0.05	0.05	0.05	21.64	ppb
Calcium	43-1	494864.07	497347.21	495550.41	495920.56	0.26	ppb
Calcium	44-1	498447.89	498609.88	497983.36	498347.04	0.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.98	3.05	2.95	2.99	1.60	ppb
Cobalt	59-2	2.50	2.55	2.49	2.51	1.33	ppb
Copper	63-2	1.45	1.41	1.50	1.45	2.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				99		%
Indium	115-1				90		%
Indium	115-2				93		%
Iron	56-2	252413.10	249412.92	247209.57	249678.53	1.05	ppb
Iron	57-2	251362.34	250960.79	246965.72	249762.95	0.97	ppb
Iron	54-2	251366.16	249792.09	247361.95	249506.73	0.81	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:42:01 DataFile Name : 013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.52	0.54	0.55	0.54	3.07	ppb
Lead	207-1	0.55	0.54	0.55	0.55	1.30	ppb
Lead	208-1	0.53	0.54	0.55	0.54	2.32	ppb
Lithium	6-1				94		%
Magnesium	24-2	504260.60	503577.37	494986.84	500941.60	1.03	ppb
Manganese	55-2	4.05	4.19	4.05	4.10	1.89	ppb
Molybdenum	94-1	1.70	1.64	1.68	1.67	1.66	ppb
Molybdenum	95-1	0.88	0.83	0.88	0.87	3.32	ppb
Molybdenum	96-1	3.37	3.52	3.43	3.44	2.23	ppb
Molybdenum	97-1	0.86	0.81	0.81	0.82	3.51	ppb
Molybdenum	98-1	0.73	0.71	0.74	0.73	2.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.61	3.38	3.37	3.45	3.94	ppb
Phosphorus	31-2	-7.88	-8.56	-8.14	-8.19		ppb
Potassium	39-2	250589.02	252552.41	248917.51	250686.31	0.73	ppb
Rhodium	103-1				82		%
Rhodium	103-2				86		%
Scandium	45-1				96		%
Scandium	45-2				101		%
Selenium	82-1	1.18	0.97	1.30	1.15	14.26	ppb
Selenium	77-2	0.11	-0.05	0.28	0.11	148.06	ppb
Selenium	78-2	-1.37	0.12	-0.01	-0.42		ppb
Silicon	28-1	0.64	0.49	0.38	0.50	25.65	ppb
Silver	107-1	0.04	0.04	0.05	0.04	3.65	ppb
Silver	109-1	0.05	0.05	0.05	0.05	8.56	ppb
Sodium	23-2	506173.26	499335.67	496524.27	500677.73	0.99	ppb
Strontium	86-1	3.00	3.00	3.05	3.02	1.04	ppb
Strontium	88-1	2.97	2.98	2.99	2.98	0.32	ppb
Sulfur	34-1	-103.82	-153.81	-184.79	-147.47		ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	0.03	0.04	0.04	0.03	7.82	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.89	ppb
Tin	118-1	0.17	0.18	0.21	0.19	9.68	ppb
Titanium	47-1	0.77	0.78	0.76	0.77	1.70	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

S08

Instrumnet Name :

P7

Client Sample ID :

S08

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:42:01

DataFile Name :

013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	3.17	ppb
Vanadium	51-2	0.17	0.15	0.17	0.16	6.93	ppb
Yttrium	89-1				93		%
Yttrium	89-2				98		%
Zinc	66-2	2.18	2.62	2.41	2.40	9.18	ppb
Zirconium	90-1	0.48	0.50	0.47	0.48	3.40	ppb
Zirconium	91-1	0.48	0.49	0.48	0.49	1.31	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	455.73	460.09	460.47	458.76	0.57	ppb
Antimony	121-1	209.06	218.02	215.52	214.20	2.16	ppb
Arsenic	75-2	203.50	205.63	212.11	207.08	2.17	ppb
Barium	135-1	92.48	94.50	92.87	93.28	1.14	ppb
Barium	137-1	93.66	95.00	93.39	94.02	0.91	ppb
Beryllium	9-1	101.17	103.70	105.34	103.40	2.03	ppb
Bismuth	209-1				108		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	97.85	101.80	100.67	100.11	2.03	ppb
Cadmium	106-1	92.95	97.38	95.74	95.36	2.35	ppb
Cadmium	111-1	105.31	107.65	106.02	106.33	1.13	ppb
Calcium	43-1	1964.55	1949.04	2002.09	1971.89	1.38	ppb
Calcium	44-1	1865.10	1965.99	2023.00	1951.36	4.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.11	101.76	101.81	101.56	0.38	ppb
Cobalt	59-2	99.10	99.84	98.89	99.28	0.51	ppb
Copper	63-2	92.56	94.16	94.01	93.57	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				106		%
Iron	56-2	1956.27	1999.18	2011.71	1989.05	1.46	ppb
Iron	57-2	2019.30	2032.06	2043.10	2031.49	0.59	ppb
Iron	54-2	2123.70	2120.62	2114.82	2119.71	0.21	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	178.23	178.66	210.88	189.26	9.89	ppb
Lead	207-1	170.61	171.67	173.38	171.89	0.81	ppb
Lead	208-1	188.72	191.06	198.85	192.88	2.75	ppb
Lithium	6-1				108		%
Magnesium	24-2	1149.06	1155.46	1155.50	1153.34	0.32	ppb
Manganese	55-2	98.36	99.31	99.24	98.97	0.53	ppb
Molybdenum	94-1	0.08	0.09	0.10	0.09	11.33	ppb
Molybdenum	95-1	0.03	0.04	0.04	0.04	18.90	ppb
Molybdenum	96-1	0.07	0.08	0.07	0.07	5.55	ppb
Molybdenum	97-1	0.03	0.03	0.04	0.03	17.45	ppb
Molybdenum	98-1	0.04	0.03	0.05	0.04	16.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	101.86	101.92	101.65	101.81	0.14	ppb
Phosphorus	31-2	-15.69	-11.49	-15.78	-14.32		ppb
Potassium	39-2	1804.23	1833.48	1852.85	1830.18	1.34	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				108		%
Scandium	45-2				109		%
Selenium	82-1	212.92	216.01	220.02	216.31	1.65	ppb
Selenium	77-2	215.95	217.09	218.66	217.24	0.63	ppb
Selenium	78-2	216.38	210.43	221.44	216.08	2.55	ppb
Silicon	28-1	-2.50	-2.66	-2.11	-2.42		ppb
Silver	107-1	50.26	51.67	51.30	51.08	1.44	ppb
Silver	109-1	50.73	52.37	51.53	51.54	1.59	ppb
Sodium	23-2	1826.85	1832.55	1840.01	1833.13	0.36	ppb
Strontium	86-1	0.29	0.28	0.28	0.28	2.69	ppb
Strontium	88-1	0.29	0.29	0.29	0.29	0.59	ppb
Sulfur	34-1	-244.14	-296.80	-205.52	-248.82		ppb
Terbium	159-1				107		%
Terbium	159-2				107		%
Thallium	203-1	212.68	209.33	215.81	212.61	1.52	ppb
Thallium	205-1	210.23	209.05	214.57	211.28	1.38	ppb
Tin	118-1	0.08	0.11	0.09	0.09	18.03	ppb
Titanium	47-1	0.02	0.04	0.04	0.03	35.90	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	24.48	ppb
Vanadium	51-2	97.42	97.97	97.60	97.66	0.28	ppb
Yttrium	89-1				108		%
Yttrium	89-2				107		%
Zinc	66-2	195.52	195.54	194.60	195.22	0.28	ppb
Zirconium	90-1	0.02	0.03	0.04	0.03	19.59	ppb
Zirconium	91-1	0.05	0.07	0.06	0.06	12.04	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:55:40 DataFile Name : 016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.41	0.59	0.51	0.50	17.37	ppb
Antimony	121-1	0.07	0.08	0.10	0.08	17.17	ppb
Arsenic	75-2	0.01	-0.01	0.01	0.01	186.13	ppb
Barium	135-1	0.01	0.02	0.02	0.01	57.43	ppb
Barium	137-1	0.01	0.01	0.01	0.01	18.58	ppb
Beryllium	9-1	0.01	0.01	0.02	0.02	34.50	ppb
Bismuth	209-1				105		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.03	0.02	0.03	31.51	ppb
Cadmium	106-1	-0.37	-0.92	-0.88	-0.72		ppb
Cadmium	111-1	0.02	0.00	0.00	0.01	157.32	ppb
Calcium	43-1	1.54	2.75	2.91	2.40	31.16	ppb
Calcium	44-1	-0.71	0.48	0.40	0.06	1192.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.01	0.01	0.00	537.10	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	22.42	ppb
Copper	63-2	-0.01	-0.01	0.00	0.00		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	56-2	0.73	0.63	0.73	0.70	8.32	ppb
Iron	57-2	0.76	-0.24	-0.29	0.08	777.87	ppb
Iron	54-2	0.85	1.07	1.17	1.03	16.29	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:55:40 DataFile Name : 016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.04	0.05	0.05	7.44	ppb
Lead	207-1	0.03	0.05	0.05	0.04	17.17	ppb
Lead	208-1	0.04	0.04	0.05	0.04	5.55	ppb
Lithium	6-1				107		%
Magnesium	24-2	1.61	1.45	1.34	1.47	9.39	ppb
Manganese	55-2	0.01	0.00	0.01	0.01	54.80	ppb
Molybdenum	94-1	0.04	0.03	0.04	0.04	18.53	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.01	15.80	ppb
Molybdenum	96-1	0.01	0.01	0.02	0.02	35.69	ppb
Molybdenum	97-1	0.02	0.02	0.01	0.02	18.81	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	6.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	0.04	0.01	0.02	51.49	ppb
Phosphorus	31-2	-13.67	-11.96	-11.63	-12.42		ppb
Potassium	39-2	0.46	0.65	2.56	1.22	95.01	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				107		%
Scandium	45-2				109		%
Selenium	82-1	0.08	-0.20	0.18	0.02	939.61	ppb
Selenium	77-2	-0.05	-0.05	-0.05	-0.05		ppb
Selenium	78-2	0.19	0.70	-0.08	0.27	145.14	ppb
Silicon	28-1	-3.39	-3.13	-2.56	-3.03		ppb
Silver	107-1	0.02	0.02	0.02	0.02	7.36	ppb
Silver	109-1	0.02	0.02	0.02	0.02	7.06	ppb
Sodium	23-2	11.49	11.26	12.08	11.61	3.67	ppb
Strontium	86-1	0.02	0.03	0.02	0.02	15.67	ppb
Strontium	88-1	0.03	0.03	0.03	0.03	6.07	ppb
Sulfur	34-1	-293.10	-195.93	-75.52	-188.18		ppb
Terbium	159-1				105		%
Terbium	159-2				108		%
Thallium	203-1	0.03	0.03	0.02	0.03	16.12	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	16.39	ppb
Tin	118-1	0.03	0.03	0.10	0.05	72.18	ppb
Titanium	47-1	-0.03	0.00	0.02	0.00		ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :ICB001

Instrumnet Name :P7

Client Sample ID :ICB001

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:55:40

DataFile Name :016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	42.21	ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	44.39	ppb
Yttrium	89-1				105		%
Yttrium	89-2				107		%
Zinc	66-2	0.05	0.14	0.10	0.10	49.35	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	244.59	ppb
Zirconium	91-1	0.00	0.01	0.00	0.01	115.10	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:58:55 DataFile Name : 017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87248.79	86472.32	87853.57	87191.56	0.79	ppb
Antimony	121-1	1.10	1.11	1.12	1.11	0.71	ppb
Arsenic	75-2	0.32	0.34	0.38	0.35	8.16	ppb
Barium	135-1	1.27	1.32	1.39	1.33	4.70	ppb
Barium	137-1	1.34	1.28	1.38	1.33	3.92	ppb
Beryllium	9-1	0.46	0.40	0.39	0.42	8.83	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.61	7.50	7.97	7.69	3.25	ppb
Cadmium	106-1	-0.84	-1.38	-0.62	-0.94		ppb
Cadmium	111-1	0.29	0.31	0.27	0.29	6.66	ppb
Calcium	43-1	97180.37	96928.70	97808.04	97305.70	0.47	ppb
Calcium	44-1	96686.33	97715.71	98200.09	97534.04	0.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.16	19.96	20.40	20.17	1.09	ppb
Cobalt	59-2	1.22	1.20	1.25	1.22	2.10	ppb
Copper	63-2	6.95	6.90	6.94	6.93	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	56-2	101268.93	100926.83	101213.01	101136.25	0.18	ppb
Iron	57-2	101010.31	99949.44	100394.26	100451.34	0.53	ppb
Iron	54-2	101471.50	100861.48	101046.73	101126.57	0.31	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:58:55 DataFile Name : 017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3.99	4.10	4.07	4.05	1.36	ppb
Lead	207-1	3.67	3.73	3.66	3.69	0.98	ppb
Lead	208-1	3.77	3.84	3.82	3.81	0.92	ppb
Lithium	6-1				110		%
Magnesium	24-2	95799.93	95528.98	97463.38	96264.10	1.09	ppb
Manganese	55-2	7.84	7.86	7.92	7.87	0.52	ppb
Molybdenum	94-1	1451.14	1500.72	1503.43	1485.09	1.98	ppb
Molybdenum	95-1	1738.22	1809.47	1802.28	1783.32	2.20	ppb
Molybdenum	96-1	1719.83	1778.09	1787.71	1761.88	2.08	ppb
Molybdenum	97-1	1741.63	1811.80	1796.19	1783.21	2.07	ppb
Molybdenum	98-1	1739.00	1794.39	1796.69	1776.69	1.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.42	5.31	5.37	5.36	1.02	ppb
Phosphorus	31-2	99943.00	98138.10	101258.43	99779.84	1.57	ppb
Potassium	39-2	95355.79	94532.41	95585.60	95157.93	0.58	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	0.48	0.30	0.04	0.27	81.95	ppb
Selenium	77-2	-0.05	0.26	0.26	0.16	117.16	ppb
Selenium	78-2	-0.11	-0.12	-0.35	-0.19		ppb
Silicon	28-1	2.51	2.75	3.04	2.77	9.70	ppb
Silver	107-1	0.06	0.05	0.04	0.05	27.90	ppb
Silver	109-1	0.06	0.05	0.04	0.05	24.79	ppb
Sodium	23-2	97096.31	96766.88	97494.39	97119.19	0.38	ppb
Strontium	86-1	32.98	33.95	34.11	33.68	1.80	ppb
Strontium	88-1	32.90	33.86	34.12	33.63	1.91	ppb
Sulfur	34-1	97771.95	97823.04	98675.85	98090.28	0.52	ppb
Terbium	159-1				110		%
Terbium	159-2				110		%
Thallium	203-1	0.15	0.18	0.19	0.17	12.03	ppb
Thallium	205-1	0.16	0.17	0.18	0.17	4.73	ppb
Tin	118-1	0.21	0.25	0.25	0.24	9.94	ppb
Titanium	47-1	1817.09	1837.06	1862.72	1838.95	1.24	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

ICSA001

Instrumnet Name :

P7

Client Sample ID :

ICSA001

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:58:55

DataFile Name :

017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.02	0.01	8.25	ppb
Vanadium	51-2	0.20	0.19	0.19	0.19	4.07	ppb
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	11.62	11.98	12.20	11.94	2.44	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	19.53	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	9.63	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:01:59 DataFile Name : 018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	86456.60	86777.59	86525.34	86586.51	0.20	ppb
Antimony	121-1	20.32	20.36	19.99	20.22	1.02	ppb
Arsenic	75-2	20.54	21.04	20.72	20.77	1.21	ppb
Barium	135-1	20.00	19.38	19.12	19.50	2.31	ppb
Barium	137-1	19.66	19.56	19.33	19.52	0.86	ppb
Beryllium	9-1	20.51	20.74	19.92	20.39	2.07	ppb
Bismuth	209-1				107		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.12	26.96	24.76	25.28	5.90	ppb
Cadmium	106-1	16.94	15.98	15.82	16.25	3.73	ppb
Cadmium	111-1	19.59	19.52	19.29	19.47	0.81	ppb
Calcium	43-1	94549.22	95115.48	94914.55	94859.75	0.30	ppb
Calcium	44-1	95863.76	96186.08	96140.93	96063.59	0.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.95	39.89	39.86	39.90	0.12	ppb
Cobalt	59-2	20.24	20.40	20.22	20.28	0.48	ppb
Copper	63-2	24.52	24.51	24.62	24.55	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	99668.83	100485.99	100345.99	100166.94	0.44	ppb
Iron	57-2	98818.10	100107.06	98889.48	99271.55	0.73	ppb
Iron	54-2	100213.61	100106.22	99372.08	99897.30	0.46	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:01:59 DataFile Name : 018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	23.83	23.99	22.67	23.50	3.05	ppb
Lead	207-1	22.56	22.93	21.28	22.26	3.91	ppb
Lead	208-1	22.77	23.20	21.67	22.55	3.51	ppb
Lithium	6-1				115		%
Magnesium	24-2	95070.15	95926.09	96514.70	95836.98	0.76	ppb
Manganese	55-2	26.95	27.21	26.97	27.04	0.55	ppb
Molybdenum	94-1	1444.43	1475.42	1432.60	1450.82	1.52	ppb
Molybdenum	95-1	1748.63	1783.17	1733.35	1755.05	1.45	ppb
Molybdenum	96-1	1710.17	1740.76	1699.97	1716.97	1.24	ppb
Molybdenum	97-1	1759.71	1769.28	1724.14	1751.04	1.36	ppb
Molybdenum	98-1	1767.18	1769.23	1719.20	1751.87	1.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.07	24.58	24.19	24.28	1.10	ppb
Phosphorus	31-2	99044.53	99954.84	98977.46	99325.61	0.55	ppb
Potassium	39-2	93405.49	94830.00	93970.80	94068.76	0.76	ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				112		%
Scandium	45-2				111		%
Selenium	82-1	20.17	21.19	20.66	20.67	2.48	ppb
Selenium	77-2	19.35	22.16	17.63	19.72	11.59	ppb
Selenium	78-2	19.21	20.65	19.89	19.91	3.60	ppb
Silicon	28-1	2.94	2.99	3.12	3.02	3.09	ppb
Silver	107-1	18.30	18.36	18.04	18.23	0.93	ppb
Silver	109-1	18.24	18.21	17.97	18.14	0.80	ppb
Sodium	23-2	95828.19	96881.19	95668.75	96126.05	0.69	ppb
Strontium	86-1	33.14	33.52	32.84	33.17	1.03	ppb
Strontium	88-1	33.06	33.22	32.78	33.02	0.68	ppb
Sulfur	34-1	96707.03	97037.33	96594.75	96779.70	0.24	ppb
Terbium	159-1				114		%
Terbium	159-2				111		%
Thallium	203-1	20.01	20.81	19.31	20.04	3.73	ppb
Thallium	205-1	20.08	20.55	19.28	19.97	3.23	ppb
Tin	118-1	0.18	0.15	0.23	0.19	20.82	ppb
Titanium	47-1	1803.24	1819.49	1802.56	1808.43	0.53	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

ICSAB001

Instrumnet Name :

P7

Client Sample ID :

ICSAB001

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:01:59

DataFile Name :

018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.02	0.02	0.02	8.38	ppb
Vanadium	51-2	19.78	19.80	19.75	19.78	0.13	ppb
Yttrium	89-1				110		%
Yttrium	89-2				108		%
Zinc	66-2	29.89	30.42	29.82	30.04	1.09	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	27.36	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	15.79	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:08:39 DataFile Name : 020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47618.49	47738.30	47455.15	47603.98	0.30	ppb
Antimony	121-1	509.20	516.10	532.29	519.19	2.28	ppb
Arsenic	75-2	534.92	535.20	533.47	534.53	0.17	ppb
Barium	135-1	2545.47	2575.40	2627.39	2582.75	1.61	ppb
Barium	137-1	2546.04	2574.91	2614.50	2578.49	1.33	ppb
Beryllium	9-1	514.43	504.14	519.17	512.58	1.50	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	544.00	548.31	564.39	552.23	1.95	ppb
Cadmium	106-1	541.37	549.90	559.67	550.31	1.66	ppb
Cadmium	111-1	502.20	511.42	526.47	513.36	2.39	ppb
Calcium	43-1	247987.47	254082.96	252232.01	251434.15	1.24	ppb
Calcium	44-1	242800.25	251319.97	249208.10	247776.11	1.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	497.16	499.73	500.12	499.01	0.32	ppb
Cobalt	59-2	514.78	514.48	508.95	512.74	0.64	ppb
Copper	63-2	4875.40	4934.10	4886.63	4898.71	0.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				106		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	56-2	124013.10	124422.99	123211.62	123882.57	0.50	ppb
Iron	57-2	123507.71	122148.63	121381.66	122346.00	0.88	ppb
Iron	54-2	124307.02	123158.70	122883.26	123449.66	0.61	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:08:39 DataFile Name : 020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2539.25	2594.04	2605.02	2579.44	1.37	ppb
Lead	207-1	2519.49	2565.27	2571.35	2552.04	1.11	ppb
Lead	208-1	2531.55	2583.75	2581.56	2565.62	1.15	ppb
Lithium	6-1				110		%
Magnesium	24-2	255295.39	257411.09	254204.31	255636.93	0.64	ppb
Manganese	55-2	4924.03	4896.73	4905.19	4908.65	0.28	ppb
Molybdenum	94-1	5018.34	5076.80	5131.39	5075.51	1.11	ppb
Molybdenum	95-1	5012.48	4980.74	5080.72	5024.65	1.02	ppb
Molybdenum	96-1	5008.62	4979.84	5059.31	5015.92	0.80	ppb
Molybdenum	97-1	5023.20	5010.11	5088.30	5040.54	0.83	ppb
Molybdenum	98-1	5023.60	5031.33	5037.27	5030.73	0.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	484.29	486.44	482.63	484.45	0.39	ppb
Phosphorus	31-2	10204.10	10202.21	10205.14	10203.82	0.01	ppb
Potassium	39-2	121259.66	121917.21	121580.74	121585.87	0.27	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				111		%
Scandium	45-2				111		%
Selenium	82-1	519.97	522.26	523.25	521.83	0.32	ppb
Selenium	77-2	536.51	532.36	544.19	537.69	1.12	ppb
Selenium	78-2	527.09	522.44	516.51	522.02	1.02	ppb
Silicon	28-1	2887.76	2926.15	2931.16	2915.03	0.81	ppb
Silver	107-1	541.84	540.49	558.35	546.90	1.82	ppb
Silver	109-1	536.17	539.56	557.24	544.32	2.08	ppb
Sodium	23-2	243255.59	244083.01	241617.24	242985.28	0.52	ppb
Strontium	86-1	12652.26	12728.42	12701.48	12694.05	0.30	ppb
Strontium	88-1	12549.86	12706.10	12762.46	12672.81	0.87	ppb
Sulfur	34-1	9306.05	9421.98	9426.14	9384.72	0.73	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	507.89	528.87	524.11	520.29	2.11	ppb
Thallium	205-1	519.20	522.38	524.32	521.97	0.49	ppb
Tin	118-1	516.71	506.00	526.07	516.26	1.95	ppb
Titanium	47-1	4989.04	5065.80	5055.05	5036.63	0.83	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV001

Instrumnet Name :

P7

Client Sample ID :

CCV001

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:08:39

DataFile Name :

020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	498.78	512.65	522.26	511.23	2.31	ppb
Vanadium	51-2	507.44	506.27	506.78	506.83	0.12	ppb
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	4903.26	4937.09	4863.51	4901.29	0.75	ppb
Zirconium	90-1	512.91	521.81	523.41	519.38	1.09	ppb
Zirconium	91-1	513.53	522.07	532.34	522.65	1.80	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:15:04 DataFile Name : 022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.53	0.66	0.63	0.61	11.17	ppb
Antimony	121-1	0.09	0.11	0.12	0.10	13.74	ppb
Arsenic	75-2	0.00	0.00	0.01	0.00	57.30	ppb
Barium	135-1	0.01	0.02	0.02	0.02	56.82	ppb
Barium	137-1	0.02	0.01	0.01	0.01	17.57	ppb
Beryllium	9-1	0.01	0.01	0.02	0.02	52.19	ppb
Bismuth	209-1				106		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.07	0.08	0.06	27.80	ppb
Cadmium	106-1	-0.81	-0.75	-0.31	-0.62		ppb
Cadmium	111-1	0.01	0.02	0.02	0.02	31.18	ppb
Calcium	43-1	1.60	1.77	2.68	2.02	28.64	ppb
Calcium	44-1	-0.36	1.92	-0.44	0.37	357.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	0.01	0.01	96.93	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	66.34	ppb
Copper	63-2	-0.01	-0.01	-0.02	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				110		%
Iron	56-2	1.11	1.15	1.11	1.12	1.93	ppb
Iron	57-2	-0.27	0.08	0.65	0.15	302.55	ppb
Iron	54-2	1.14	1.11	0.79	1.01	19.17	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:15:04 DataFile Name : 022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.06	0.05	0.05	15.23	ppb
Lead	207-1	0.05	0.06	0.05	0.05	13.14	ppb
Lead	208-1	0.05	0.06	0.04	0.05	11.80	ppb
Lithium	6-1				110		%
Magnesium	24-2	2.74	2.77	2.69	2.73	1.54	ppb
Manganese	55-2	0.01	0.01	0.01	0.01	33.11	ppb
Molybdenum	94-1	0.12	0.22	0.14	0.16	32.98	ppb
Molybdenum	95-1	0.08	0.11	0.09	0.09	18.52	ppb
Molybdenum	96-1	0.09	0.12	0.08	0.10	21.57	ppb
Molybdenum	97-1	0.06	0.08	0.08	0.07	16.83	ppb
Molybdenum	98-1	0.07	0.09	0.08	0.08	12.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.01	0.00	-0.01		ppb
Phosphorus	31-2	-13.28	-16.04	-12.67	-14.00		ppb
Potassium	39-2	5.79	5.99	6.69	6.16	7.67	ppb
Rhodium	103-1				107		%
Rhodium	103-2				110		%
Scandium	45-1				112		%
Scandium	45-2				114		%
Selenium	82-1	-0.26	0.06	-0.34	-0.18		ppb
Selenium	77-2	-0.05	0.09	-0.05	-0.01		ppb
Selenium	78-2	0.34	-0.18	0.89	0.35	151.67	ppb
Silicon	28-1	-3.31	-2.24	-3.38	-2.98		ppb
Silver	107-1	0.02	0.02	0.02	0.02	11.49	ppb
Silver	109-1	0.02	0.02	0.02	0.02	14.32	ppb
Sodium	23-2	18.74	17.74	18.06	18.18	2.79	ppb
Strontium	86-1	0.09	0.12	0.08	0.10	22.59	ppb
Strontium	88-1	0.10	0.13	0.08	0.10	21.60	ppb
Sulfur	34-1	-318.90	-76.59	-309.18	-234.89		ppb
Terbium	159-1				107		%
Terbium	159-2				110		%
Thallium	203-1	0.04	0.04	0.03	0.04	16.00	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	7.68	ppb
Tin	118-1	-0.01	0.00	0.02	0.00	534.85	ppb
Titanium	47-1	0.04	0.07	0.03	0.05	41.29	ppb

LB Number :
Lab Sample ID :
Client Sample ID :
Date & Time Acquired :

LB133242
CCB001
CCB001
2024-10-31 21:15:04

Operator :
Instrumnet Name :
Dilution Factor :
DataFile Name :

Jaswal
P7
1
022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	42.74	ppb
Vanadium	51-2	0.00	0.00	0.01	0.00	209.77	ppb
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	-0.12	-0.09	-0.06	-0.09		ppb
Zirconium	90-1	0.03	0.05	0.05	0.04	31.70	ppb
Zirconium	91-1	0.03	0.05	0.05	0.04	26.77	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BL Instrumnet Name : P7
Client Sample ID : PBS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:18:19 DataFile Name : 023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.43	0.61	0.47	0.50	19.07	ppb
Antimony	121-1	0.04	0.05	0.06	0.05	23.50	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	-0.01	0.00	0.00	0.00		ppb
Barium	137-1	0.01	0.00	0.01	0.01	74.38	ppb
Beryllium	9-1	0.02	0.01	0.00	0.01	62.68	ppb
Bismuth	209-1				109		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	0.04	0.01	0.04	60.01	ppb
Cadmium	106-1	1.19	-0.81	-0.09	0.10	1030.25	ppb
Cadmium	111-1	0.02	0.01	0.01	0.02	34.35	ppb
Calcium	43-1	0.51	2.33	3.70	2.18	73.27	ppb
Calcium	44-1	-0.65	0.26	-0.13	-0.17		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.02	0.02	0.02	13.57	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	122.35	ppb
Copper	63-2	-0.05	-0.01	-0.04	-0.03		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	1.13	1.05	1.05	1.08	4.23	ppb
Iron	57-2	0.20	1.12	1.56	0.96	72.02	ppb
Iron	54-2	1.13	1.21	1.22	1.19	4.04	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BL Instrumnet Name : P7
Client Sample ID : PBS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:18:19 DataFile Name : 023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.03	0.04	0.03	0.03	11.12	ppb
Lead	207-1	0.04	0.02	0.04	0.03	23.94	ppb
Lead	208-1	0.03	0.03	0.03	0.03	2.43	ppb
Lithium	6-1				115		%
Magnesium	24-2	1.87	1.90	1.71	1.82	5.55	ppb
Manganese	55-2	0.01	0.00	0.01	0.01	57.25	ppb
Molybdenum	94-1	0.07	0.07	0.09	0.07	13.53	ppb
Molybdenum	95-1	0.04	0.05	0.05	0.05	8.95	ppb
Molybdenum	96-1	0.05	0.04	0.06	0.05	18.24	ppb
Molybdenum	97-1	0.03	0.04	0.05	0.04	23.12	ppb
Molybdenum	98-1	0.05	0.04	0.04	0.04	3.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	0.02	0.01	138.90	ppb
Phosphorus	31-2	-16.31	-14.59	-13.60	-14.83		ppb
Potassium	39-2	4.42	3.90	4.45	4.26	7.21	ppb
Rhodium	103-1				112		%
Rhodium	103-2				110		%
Scandium	45-1				117		%
Scandium	45-2				116		%
Selenium	82-1	-0.29	-0.12	-0.36	-0.25		ppb
Selenium	77-2	-0.05	-0.05	-0.05	-0.05		ppb
Selenium	78-2	0.03	-0.01	0.57	0.20	164.34	ppb
Silicon	28-1	-4.37	-3.65	-3.83	-3.95		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.61	ppb
Silver	109-1	0.01	0.01	0.01	0.01	10.74	ppb
Sodium	23-2	13.86	13.60	13.43	13.63	1.61	ppb
Strontium	86-1	0.04	0.07	0.05	0.05	31.86	ppb
Strontium	88-1	0.06	0.05	0.05	0.05	4.30	ppb
Sulfur	34-1	-424.34	-316.83	-367.08	-369.42		ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.03	0.03	0.02	0.03	26.22	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	14.25	ppb
Tin	118-1	0.04	0.04	0.04	0.04	10.28	ppb
Titanium	47-1	0.02	0.02	0.04	0.03	45.08	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :PB164510BL

Instrumnet Name :P7

Client Sample ID :PBS510

Dilution Factor :1

Date & Time Acquired :2024-10-31 21:18:19

DataFile Name :023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	52.21	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	226.32	ppb
Yttrium	89-1				114		%
Yttrium	89-2				112		%
Zinc	66-2	-0.11	-0.12	-0.08	-0.11		ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	15.89	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	30.11	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BS Instrumnet Name : P7
Client Sample ID : LCS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:21:37 DataFile Name : 024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.36	37.39	37.73	37.49	0.54	ppb
Antimony	121-1	4.00	3.90	4.01	3.97	1.52	ppb
Arsenic	75-2	2.22	2.05	2.24	2.17	4.88	ppb
Barium	135-1	18.19	17.70	18.60	18.16	2.49	ppb
Barium	137-1	18.20	17.87	18.83	18.30	2.65	ppb
Beryllium	9-1	1.99	2.03	2.08	2.03	2.02	ppb
Bismuth	209-1				108		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.18	1.81	2.20	2.06	10.66	ppb
Cadmium	106-1	2.51	1.21	2.04	1.92	34.21	ppb
Cadmium	111-1	1.86	1.82	1.91	1.86	2.51	ppb
Calcium	43-1	956.81	950.46	955.33	954.20	0.35	ppb
Calcium	44-1	958.13	960.26	964.95	961.11	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.07	4.03	4.06	4.05	0.56	ppb
Cobalt	59-2	1.97	1.96	1.96	1.96	0.30	ppb
Copper	63-2	3.96	3.95	3.92	3.94	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				109		%
Indium	115-1				112		%
Indium	115-2				110		%
Iron	56-2	406.15	414.46	400.21	406.94	1.76	ppb
Iron	57-2	410.46	416.08	408.66	411.73	0.94	ppb
Iron	54-2	415.74	424.84	415.45	418.68	1.28	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BS Instrumnet Name : P7
Client Sample ID : LCS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:21:37 DataFile Name : 024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.70	1.68	1.72	1.70	1.20	ppb
Lead	207-1	1.67	1.74	1.74	1.72	2.29	ppb
Lead	208-1	1.65	1.70	1.73	1.69	2.17	ppb
Lithium	6-1				116		%
Magnesium	24-2	1031.30	1043.18	1035.12	1036.54	0.59	ppb
Manganese	55-2	2.00	1.95	1.97	1.98	1.12	ppb
Molybdenum	94-1	10.41	10.35	10.34	10.37	0.35	ppb
Molybdenum	95-1	8.51	8.56	8.56	8.55	0.32	ppb
Molybdenum	96-1	8.62	8.86	8.70	8.73	1.37	ppb
Molybdenum	97-1	8.53	8.80	8.79	8.71	1.75	ppb
Molybdenum	98-1	8.54	8.52	8.57	8.54	0.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.02	2.10	2.05	2.06	1.92	ppb
Phosphorus	31-2	-12.39	-16.95	-14.44	-14.59		ppb
Potassium	39-2	994.60	1011.88	993.08	999.85	1.04	ppb
Rhodium	103-1				112		%
Rhodium	103-2				110		%
Scandium	45-1				117		%
Scandium	45-2				116		%
Selenium	82-1	10.08	11.37	10.84	10.76	6.02	ppb
Selenium	77-2	11.00	12.09	8.48	10.53	17.60	ppb
Selenium	78-2	11.95	9.35	10.58	10.63	12.25	ppb
Silicon	28-1	3.34	3.13	3.28	3.25	3.21	ppb
Silver	107-1	2.00	1.99	2.07	2.02	2.31	ppb
Silver	109-1	1.99	1.94	2.11	2.01	4.25	ppb
Sodium	23-2	976.78	995.12	981.12	984.34	0.97	ppb
Strontium	86-1	1.93	1.92	1.87	1.91	1.71	ppb
Strontium	88-1	1.94	1.97	1.98	1.96	0.86	ppb
Sulfur	34-1	-252.97	-223.84	-243.12	-239.98		ppb
Terbium	159-1				111		%
Terbium	159-2				109		%
Thallium	203-1	1.62	1.66	1.67	1.65	1.62	ppb
Thallium	205-1	1.66	1.63	1.65	1.65	0.89	ppb
Tin	118-1	0.05	0.04	0.05	0.04	8.94	ppb
Titanium	47-1	8.71	8.89	8.80	8.80	1.06	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164510BS

Instrumnet Name :

P7

Client Sample ID :

LCS510

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:21:37

DataFile Name :

024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.49	1.52	1.55	1.52	1.96	ppb
Vanadium	51-2	9.81	10.05	9.80	9.88	1.43	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	9.96	9.81	10.19	9.99	1.92	ppb
Zirconium	90-1	1.95	1.96	2.00	1.97	1.41	ppb
Zirconium	91-1	2.04	1.95	1.96	1.98	2.55	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BL Instrumnet Name : P7
Client Sample ID : PBS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:24:56 DataFile Name : 025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.64	0.64	0.67	0.65	2.01	ppb
Antimony	121-1	0.02	0.02	0.03	0.03	17.93	ppb
Arsenic	75-2	-0.01	0.00	0.01	0.00	15115.12	ppb
Barium	135-1	-0.01	0.00	0.00	0.00		ppb
Barium	137-1	0.01	0.02	0.00	0.01	73.80	ppb
Beryllium	9-1	0.02	0.01	0.01	0.01	79.92	ppb
Bismuth	209-1				108		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.03	-0.02	0.00		ppb
Cadmium	106-1	0.18	0.05	-1.13	-0.30		ppb
Cadmium	111-1	0.01	0.01	0.00	0.01	52.33	ppb
Calcium	43-1	1.85	1.04	1.13	1.34	33.28	ppb
Calcium	44-1	-0.43	-1.38	-0.92	-0.91		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.00	-0.02	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	105.54	ppb
Copper	63-2	-0.06	-0.06	-0.06	-0.06		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				109		%
Indium	115-1				111		%
Indium	115-2				109		%
Iron	56-2	0.54	0.56	0.49	0.53	5.91	ppb
Iron	57-2	-0.05	0.65	0.58	0.39	98.64	ppb
Iron	54-2	-0.04	0.55	-0.07	0.15	237.68	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BL Instrumnet Name : P7
Client Sample ID : PBS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:24:56 DataFile Name : 025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	0.01	0.02	0.02	40.39	ppb
Lead	207-1	0.02	0.01	0.01	0.01	47.26	ppb
Lead	208-1	0.02	0.02	0.01	0.02	21.87	ppb
Lithium	6-1				116		%
Magnesium	24-2	1.10	1.07	0.98	1.05	5.71	ppb
Manganese	55-2	-0.01	-0.01	0.01	0.00		ppb
Molybdenum	94-1	0.04	0.04	0.04	0.04	3.07	ppb
Molybdenum	95-1	0.03	0.03	0.02	0.03	11.17	ppb
Molybdenum	96-1	0.02	0.03	0.03	0.02	19.72	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	6.76	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.02	8.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.02	0.01	0.01	84.17	ppb
Phosphorus	31-2	-12.13	-16.51	-14.52	-14.39		ppb
Potassium	39-2	1.77	2.59	1.40	1.92	31.93	ppb
Rhodium	103-1				111		%
Rhodium	103-2				110		%
Scandium	45-1				116		%
Scandium	45-2				116		%
Selenium	82-1	-0.33	-0.25	-0.08	-0.22		ppb
Selenium	77-2	-0.05	-0.05	0.10	0.00		ppb
Selenium	78-2	0.23	-0.12	-0.47	-0.12		ppb
Silicon	28-1	-4.04	-3.89	-3.79	-3.90		ppb
Silver	107-1	0.01	0.02	0.01	0.02	15.78	ppb
Silver	109-1	0.02	0.02	0.01	0.01	6.13	ppb
Sodium	23-2	8.01	7.53	7.63	7.72	3.26	ppb
Strontium	86-1	0.04	0.03	0.03	0.03	18.18	ppb
Strontium	88-1	0.03	0.03	0.04	0.04	9.04	ppb
Sulfur	34-1	-206.41	-210.92	-180.14	-199.16		ppb
Terbium	159-1				110		%
Terbium	159-2				110		%
Thallium	203-1	0.01	0.02	0.02	0.02	6.34	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.19	ppb
Tin	118-1	0.04	0.03	0.04	0.03	22.57	ppb
Titanium	47-1	-0.01	0.01	0.00	0.00	1962.17	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164509BL

Instrumnet Name :

P7

Client Sample ID :

PBS509

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:24:56

DataFile Name :

025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	44.12	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	281.81	ppb
Yttrium	89-1				113		%
Yttrium	89-2				111		%
Zinc	66-2	-0.10	-0.11	-0.10	-0.10		ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	49.89	ppb
Zirconium	91-1	0.01	0.02	0.02	0.01	19.90	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BS Instrumnet Name : P7
Client Sample ID : LCS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:28:14 DataFile Name : 026LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.79	37.40	38.21	37.80	1.08	ppb
Antimony	121-1	3.97	3.95	4.01	3.98	0.64	ppb
Arsenic	75-2	2.20	2.11	2.02	2.11	4.47	ppb
Barium	135-1	18.24	18.16	18.53	18.31	1.07	ppb
Barium	137-1	18.41	18.34	18.28	18.34	0.34	ppb
Beryllium	9-1	2.07	2.04	2.04	2.05	0.87	ppb
Bismuth	209-1				105		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.20	2.47	2.40	2.36	5.91	ppb
Cadmium	106-1	2.68	2.39	2.43	2.50	6.30	ppb
Cadmium	111-1	1.93	1.96	1.92	1.94	1.14	ppb
Calcium	43-1	937.24	931.44	976.50	948.39	2.58	ppb
Calcium	44-1	954.47	947.59	977.11	959.72	1.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.98	4.04	4.09	4.04	1.33	ppb
Cobalt	59-2	1.95	1.97	1.97	1.96	0.64	ppb
Copper	63-2	3.93	3.91	3.95	3.93	0.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				106		%
Indium	115-1				110		%
Indium	115-2				107		%
Iron	56-2	405.70	404.82	409.88	406.80	0.66	ppb
Iron	57-2	409.77	412.06	424.10	415.31	1.85	ppb
Iron	54-2	418.58	420.05	419.89	419.51	0.19	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BS Instrumnet Name : P7
Client Sample ID : LCS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:28:14 DataFile Name : 026LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.69	1.66	1.75	1.70	2.70	ppb
Lead	207-1	1.69	1.69	1.75	1.71	2.05	ppb
Lead	208-1	1.65	1.67	1.73	1.69	2.28	ppb
Lithium	6-1				113		%
Magnesium	24-2	1030.72	1039.61	1040.78	1037.04	0.53	ppb
Manganese	55-2	1.95	2.00	1.91	1.95	2.31	ppb
Molybdenum	94-1	10.17	10.36	10.36	10.30	1.03	ppb
Molybdenum	95-1	8.38	8.47	8.55	8.46	1.01	ppb
Molybdenum	96-1	8.66	8.69	8.72	8.69	0.35	ppb
Molybdenum	97-1	8.57	8.50	8.65	8.57	0.90	ppb
Molybdenum	98-1	8.63	8.44	8.53	8.53	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.96	1.97	2.02	1.99	1.46	ppb
Phosphorus	31-2	-12.55	-13.88	-14.19	-13.54		ppb
Potassium	39-2	998.65	997.04	1002.18	999.29	0.26	ppb
Rhodium	103-1				109		%
Rhodium	103-2				108		%
Scandium	45-1				115		%
Scandium	45-2				114		%
Selenium	82-1	10.48	11.04	10.28	10.60	3.71	ppb
Selenium	77-2	10.27	11.85	11.18	11.10	7.13	ppb
Selenium	78-2	9.72	10.55	9.99	10.09	4.20	ppb
Silicon	28-1	3.29	3.27	4.57	3.71	19.93	ppb
Silver	107-1	1.98	2.05	2.06	2.03	1.98	ppb
Silver	109-1	1.97	2.00	2.13	2.03	4.01	ppb
Sodium	23-2	980.25	983.77	985.56	983.19	0.27	ppb
Strontium	86-1	1.97	2.02	2.03	2.00	1.57	ppb
Strontium	88-1	1.95	1.97	1.94	1.95	0.75	ppb
Sulfur	34-1	-105.43	-102.56	-44.06	-84.02		ppb
Terbium	159-1				108		%
Terbium	159-2				108		%
Thallium	203-1	1.57	1.66	1.63	1.62	2.72	ppb
Thallium	205-1	1.62	1.65	1.68	1.65	1.91	ppb
Tin	118-1	0.40	0.04	0.21	0.22	82.87	ppb
Titanium	47-1	8.75	9.01	8.99	8.92	1.65	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164509BS

Instrumnet Name :

P7

Client Sample ID :

LCS509

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:28:14

DataFile Name :

026LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.49	1.52	1.54	1.52	1.94	ppb
Vanadium	51-2	9.72	9.82	10.03	9.86	1.63	ppb
Yttrium	89-1				111		%
Yttrium	89-2				109		%
Zinc	66-2	9.69	9.77	10.33	9.93	3.52	ppb
Zirconium	90-1	1.89	1.95	1.96	1.93	1.96	ppb
Zirconium	91-1	1.91	2.01	1.93	1.95	2.65	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:31:29 DataFile Name : 027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16808.92	16708.13	16581.00	16699.35	0.68	ppb
Antimony	121-1	4.54	3.67	3.74	3.98	12.12	ppb
Arsenic	75-2	45.55	45.92	46.07	45.85	0.58	ppb
Barium	135-1	826.32	675.01	691.35	730.89	11.36	ppb
Barium	137-1	815.86	662.15	693.17	723.73	11.23	ppb
Beryllium	9-1	7.72	6.31	6.60	6.88	10.80	ppb
Bismuth	209-1				100		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	25.88	21.58	22.08	23.18	10.15	ppb
Cadmium	106-1	26.08	20.53	21.46	22.69	13.11	ppb
Cadmium	111-1	25.38	20.32	21.61	22.44	11.71	ppb
Calcium	43-1	322531.71	260377.47	268464.57	283791.25	11.91	ppb
Calcium	44-1	325271.32	261762.61	270480.73	285838.22	12.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	77.58	77.00	76.28	76.95	0.85	ppb
Cobalt	59-2	31.67	31.51	31.40	31.53	0.43	ppb
Copper	63-2	183.71	183.22	182.08	183.00	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				106		%
Iron	56-2	58608.74	58170.08	57666.77	58148.53	0.81	ppb
Iron	57-2	58861.11	58244.64	58439.90	58515.22	0.54	ppb
Iron	54-2	58510.09	58438.41	58656.82	58535.11	0.19	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:31:29 DataFile Name : 027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	907.31	744.41	765.46	805.73	11.00	ppb
Lead	207-1	895.47	725.43	750.76	790.55	11.60	ppb
Lead	208-1	898.13	733.79	750.72	794.22	11.38	ppb
Lithium	6-1				114		%
Magnesium	24-2	25507.55	25597.67	25534.84	25546.69	0.18	ppb
Manganese	55-2	1827.48	1817.84	1824.44	1823.25	0.27	ppb
Molybdenum	94-1	14.80	12.34	12.66	13.27	10.09	ppb
Molybdenum	95-1	11.71	9.72	9.96	10.46	10.39	ppb
Molybdenum	96-1	12.48	10.44	10.75	11.22	9.82	ppb
Molybdenum	97-1	11.56	9.66	9.77	10.33	10.34	ppb
Molybdenum	98-1	11.45	9.55	9.91	10.31	9.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	135.86	134.90	134.35	135.04	0.57	ppb
Phosphorus	31-2	4198.00	4259.85	4161.88	4206.58	1.18	ppb
Potassium	39-2	4684.30	4645.60	4656.01	4661.97	0.43	ppb
Rhodium	103-1				100		%
Rhodium	103-2				105		%
Scandium	45-1				117		%
Scandium	45-2				118		%
Selenium	82-1	8.03	7.06	7.62	7.57	6.45	ppb
Selenium	77-2	33.86	33.79	36.42	34.69	4.33	ppb
Selenium	78-2	11.66	9.27	10.93	10.62	11.54	ppb
Silicon	28-1	5417.52	4307.56	4452.31	4725.80	12.77	ppb
Silver	107-1	3.02	2.37	2.44	2.61	13.60	ppb
Silver	109-1	3.00	2.31	2.42	2.58	14.28	ppb
Sodium	23-2	791.43	791.48	796.95	793.29	0.40	ppb
Strontium	86-1	1125.47	933.38	956.54	1005.13	10.43	ppb
Strontium	88-1	1109.26	915.86	953.53	992.89	10.33	ppb
Sulfur	34-1	45885.70	35976.72	37744.40	39868.94	13.26	ppb
Terbium	159-1				107		%
Terbium	159-2				109		%
Thallium	203-1	3.31	2.65	2.75	2.90	12.18	ppb
Thallium	205-1	3.28	2.70	2.76	2.91	10.94	ppb
Tin	118-1	8.26	6.80	7.00	7.35	10.71	ppb
Titanium	47-1	124.81	99.92	103.83	109.52	12.22	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01

Instrumnet Name :

P7

Client Sample ID :

MH2GK1

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:31:29

DataFile Name :

027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.31	8.52	8.69	9.17	10.74	ppb
Vanadium	51-2	148.66	147.43	147.18	147.76	0.54	ppb
Yttrium	89-1				125		%
Yttrium	89-2				126		%
Zinc	66-2	1612.15	1595.21	1593.07	1600.15	0.65	ppb
Zirconium	90-1	3.09	2.59	2.70	2.79	9.48	ppb
Zirconium	91-1	3.11	2.56	2.72	2.80	10.07	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:34:29 DataFile Name : 028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16645.75	16457.13	16503.39	16535.43	0.59	ppb
Antimony	121-1	3.72	3.73	3.67	3.71	0.85	ppb
Arsenic	75-2	47.40	45.67	45.54	46.20	2.24	ppb
Barium	135-1	675.62	679.22	670.05	674.97	0.68	ppb
Barium	137-1	682.71	671.03	674.92	676.22	0.88	ppb
Beryllium	9-1	6.23	6.35	6.47	6.35	1.92	ppb
Bismuth	209-1				106		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	21.14	20.22	20.75	20.70	2.23	ppb
Cadmium	106-1	22.23	21.28	20.59	21.37	3.85	ppb
Cadmium	111-1	21.20	20.68	20.65	20.85	1.49	ppb
Calcium	43-1	261140.68	262470.52	261557.04	261722.75	0.26	ppb
Calcium	44-1	263427.95	263064.08	264274.55	263588.86	0.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	75.89	75.94	75.22	75.68	0.53	ppb
Cobalt	59-2	30.68	30.95	31.15	30.92	0.78	ppb
Copper	63-2	181.25	180.04	180.73	180.67	0.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				106		%
Iron	56-2	57514.49	57241.99	56852.29	57202.92	0.58	ppb
Iron	57-2	58319.90	57816.85	57245.05	57793.93	0.93	ppb
Iron	54-2	57661.78	56734.57	57198.71	57198.35	0.81	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:34:29 DataFile Name : 028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	754.73	768.42	735.93	753.03	2.17	ppb
Lead	207-1	721.40	741.85	734.00	732.42	1.41	ppb
Lead	208-1	728.77	745.62	736.74	737.04	1.14	ppb
Lithium	6-1				120		%
Magnesium	24-2	25216.73	25087.36	24986.33	25096.80	0.46	ppb
Manganese	55-2	1807.03	1784.74	1802.13	1797.97	0.65	ppb
Molybdenum	94-1	12.48	12.62	12.40	12.50	0.90	ppb
Molybdenum	95-1	9.71	9.78	9.65	9.71	0.68	ppb
Molybdenum	96-1	10.41	10.64	10.48	10.51	1.10	ppb
Molybdenum	97-1	9.69	10.04	9.62	9.78	2.32	ppb
Molybdenum	98-1	9.61	9.75	9.60	9.66	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	134.93	134.78	134.90	134.87	0.06	ppb
Phosphorus	31-2	4050.09	4078.94	4055.15	4061.39	0.38	ppb
Potassium	39-2	4567.20	4556.51	4564.69	4562.80	0.12	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				122		%
Scandium	45-2				118		%
Selenium	82-1	6.56	6.93	7.05	6.85	3.74	ppb
Selenium	77-2	33.54	29.51	33.29	32.11	7.02	ppb
Selenium	78-2	9.14	12.93	10.08	10.71	18.44	ppb
Silicon	28-1	4360.60	4365.38	4414.18	4380.05	0.68	ppb
Silver	107-1	2.39	2.39	2.36	2.38	0.69	ppb
Silver	109-1	2.36	2.41	2.33	2.37	1.71	ppb
Sodium	23-2	789.85	786.48	787.77	788.03	0.22	ppb
Strontium	86-1	932.83	950.05	936.71	939.86	0.96	ppb
Strontium	88-1	922.69	934.63	917.66	925.00	0.94	ppb
Sulfur	34-1	36823.55	36951.92	37090.81	36955.43	0.36	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	2.69	2.76	2.75	2.73	1.49	ppb
Thallium	205-1	2.63	2.76	2.73	2.71	2.46	ppb
Tin	118-1	6.73	6.65	6.76	6.72	0.85	ppb
Titanium	47-1	101.17	101.29	101.59	101.35	0.21	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-02

Instrumnet Name :

P7

Client Sample ID :

MH2GK1D

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:34:29

DataFile Name :

028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.47	8.48	8.44	8.46	0.27	ppb
Vanadium	51-2	145.55	145.45	146.19	145.73	0.28	ppb
Yttrium	89-1				131		%
Yttrium	89-2				124		%
Zinc	66-2	1578.69	1582.42	1599.24	1586.78	0.69	ppb
Zirconium	90-1	2.64	2.70	2.61	2.65	1.60	ppb
Zirconium	91-1	2.65	2.68	2.65	2.66	0.77	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:37:27 DataFile Name : 029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3643.59	3666.29	3655.65	3655.18	0.31	ppb
Antimony	121-1	0.84	0.83	0.83	0.83	0.70	ppb
Arsenic	75-2	11.21	10.58	11.24	11.01	3.36	ppb
Barium	135-1	134.55	137.20	135.82	135.86	0.98	ppb
Barium	137-1	135.50	136.75	135.97	136.08	0.46	ppb
Beryllium	9-1	1.33	1.39	1.33	1.35	2.69	ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.59	5.04	4.87	4.83	4.72	ppb
Cadmium	106-1	5.26	5.09	4.05	4.80	13.65	ppb
Cadmium	111-1	4.69	4.76	4.78	4.74	1.03	ppb
Calcium	43-1	56380.59	58439.80	58296.84	57705.74	1.99	ppb
Calcium	44-1	57076.07	58786.98	59134.69	58332.58	1.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.09	16.55	16.45	16.69	2.07	ppb
Cobalt	59-2	6.94	6.79	6.95	6.89	1.28	ppb
Copper	63-2	41.89	41.77	41.89	41.85	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				106		%
Indium	115-1				112		%
Indium	115-2				107		%
Iron	56-2	12727.66	12910.04	12759.42	12799.04	0.76	ppb
Iron	57-2	13106.17	13041.08	12914.10	13020.45	0.75	ppb
Iron	54-2	12751.65	12737.56	12702.92	12730.71	0.20	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:37:27 DataFile Name : 029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	141.54	141.78	143.33	142.22	0.68	ppb
Lead	207-1	133.78	136.84	136.67	135.77	1.27	ppb
Lead	208-1	147.62	149.19	151.34	149.39	1.25	ppb
Lithium	6-1				118		%
Magnesium	24-2	5536.96	5576.50	5664.18	5592.54	1.16	ppb
Manganese	55-2	400.42	399.63	396.96	399.01	0.45	ppb
Molybdenum	94-1	2.83	2.99	3.00	2.94	3.19	ppb
Molybdenum	95-1	2.29	2.44	2.34	2.36	3.24	ppb
Molybdenum	96-1	2.50	2.58	2.55	2.54	1.50	ppb
Molybdenum	97-1	2.31	2.41	2.36	2.36	2.21	ppb
Molybdenum	98-1	2.26	2.40	2.41	2.36	3.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	31.40	29.73	30.48	30.54	2.74	ppb
Phosphorus	31-2	885.12	883.66	887.06	885.28	0.19	ppb
Potassium	39-2	1092.20	1061.29	1060.80	1071.43	1.68	ppb
Rhodium	103-1				110		%
Rhodium	103-2				107		%
Scandium	45-1				120		%
Scandium	45-2				117		%
Selenium	82-1	1.27	1.54	1.14	1.32	15.56	ppb
Selenium	77-2	5.94	8.51	8.56	7.67	19.54	ppb
Selenium	78-2	2.24	2.63	1.64	2.17	22.93	ppb
Silicon	28-1	943.82	965.58	968.37	959.26	1.40	ppb
Silver	107-1	0.54	0.54	0.54	0.54	0.40	ppb
Silver	109-1	0.54	0.54	0.54	0.54	0.46	ppb
Sodium	23-2	192.87	189.13	188.28	190.09	1.28	ppb
Strontium	86-1	209.00	220.14	217.66	215.60	2.71	ppb
Strontium	88-1	216.34	224.38	224.02	221.58	2.05	ppb
Sulfur	34-1	7469.03	7770.81	7874.19	7704.68	2.73	ppb
Terbium	159-1				112		%
Terbium	159-2				108		%
Thallium	203-1	0.63	0.63	0.64	0.63	0.80	ppb
Thallium	205-1	0.64	0.63	0.63	0.63	0.64	ppb
Tin	118-1	1.49	1.53	1.48	1.50	1.80	ppb
Titanium	47-1	21.77	22.51	22.38	22.22	1.78	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01LX5

Instrumnet Name :

P7

Client Sample ID :

MH2GK1L

Dilution Factor :

5

Date & Time Acquired :

2024-10-31 21:37:27

DataFile Name :

029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.78	1.78	1.86	1.81	2.52	ppb
Vanadium	51-2	31.88	31.61	31.61	31.70	0.49	ppb
Yttrium	89-1				118		%
Yttrium	89-2				112		%
Zinc	66-2	351.44	347.28	346.98	348.57	0.72	ppb
Zirconium	90-1	0.57	0.61	0.60	0.59	3.57	ppb
Zirconium	91-1	0.56	0.59	0.57	0.57	2.78	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:40:35 DataFile Name : 030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16106.69	15902.17	16123.76	16044.21	0.77	ppb
Antimony	121-1	23.98	24.07	26.68	24.91	6.15	ppb
Arsenic	75-2	51.88	51.63	51.78	51.76	0.24	ppb
Barium	135-1	1069.19	1080.76	1189.23	1113.06	5.95	ppb
Barium	137-1	1068.89	1086.44	1195.85	1117.06	6.16	ppb
Beryllium	9-1	16.25	16.21	17.73	16.73	5.18	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	28.88	30.55	33.42	30.95	7.42	ppb
Cadmium	106-1	30.85	32.07	33.98	32.30	4.88	ppb
Cadmium	111-1	30.76	30.95	34.44	32.05	6.45	ppb
Calcium	43-1	248894.92	250858.54	280375.70	260043.05	6.78	ppb
Calcium	44-1	250811.95	252567.44	281258.20	261545.86	6.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	113.86	112.88	112.72	113.15	0.55	ppb
Cobalt	59-2	126.66	126.16	125.40	126.07	0.50	ppb
Copper	63-2	232.61	230.54	231.96	231.70	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				106		%
Iron	56-2	55319.55	55174.06	55502.15	55331.92	0.30	ppb
Iron	57-2	56410.25	55870.45	55304.47	55861.72	0.99	ppb
Iron	54-2	55658.68	55346.48	54963.39	55322.85	0.63	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:40:35 DataFile Name : 030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	712.61	729.02	812.42	751.35	7.12	ppb
Lead	207-1	691.59	715.34	784.54	730.49	6.61	ppb
Lead	208-1	700.80	719.04	788.65	736.17	6.30	ppb
Lithium	6-1				117		%
Magnesium	24-2	24059.77	24017.33	23767.57	23948.22	0.66	ppb
Manganese	55-2	1832.82	1820.93	1823.08	1825.61	0.35	ppb
Molybdenum	94-1	11.99	12.03	13.19	12.40	5.49	ppb
Molybdenum	95-1	9.46	9.32	10.32	9.70	5.61	ppb
Molybdenum	96-1	10.28	10.08	11.16	10.51	5.47	ppb
Molybdenum	97-1	9.39	9.45	10.22	9.69	4.76	ppb
Molybdenum	98-1	9.39	9.39	10.26	9.68	5.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	226.90	226.16	225.25	226.11	0.37	ppb
Phosphorus	31-2	3986.59	3864.80	3902.29	3917.89	1.59	ppb
Potassium	39-2	4432.77	4398.14	4405.91	4412.27	0.41	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				120		%
Scandium	45-2				119		%
Selenium	82-1	26.29	25.33	28.00	26.54	5.10	ppb
Selenium	77-2	52.16	53.37	46.84	50.79	6.84	ppb
Selenium	78-2	29.31	30.30	28.58	29.40	2.94	ppb
Silicon	28-1	4151.05	4179.85	4646.07	4325.66	6.42	ppb
Silver	107-1	12.47	12.64	13.97	13.03	6.28	ppb
Silver	109-1	12.28	12.56	13.87	12.90	6.57	ppb
Sodium	23-2	758.51	762.80	756.36	759.22	0.43	ppb
Strontium	86-1	905.89	905.99	979.55	930.48	4.57	ppb
Strontium	88-1	897.73	889.06	980.17	922.32	5.45	ppb
Sulfur	34-1	35098.99	34778.28	39272.95	36383.40	6.89	ppb
Terbium	159-1				109		%
Terbium	159-2				109		%
Thallium	203-1	11.24	11.19	12.54	11.65	6.56	ppb
Thallium	205-1	11.08	11.20	12.50	11.59	6.82	ppb
Tin	118-1	6.57	6.60	7.39	6.86	6.74	ppb
Titanium	47-1	95.82	97.91	108.10	100.61	6.53	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-03

Instrumnet Name :

P7

Client Sample ID :

MH2GK1S

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:40:35

DataFile Name :

030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.05	8.18	9.18	8.47	7.30	ppb
Vanadium	51-2	243.98	239.20	238.49	240.56	1.24	ppb
Yttrium	89-1				129		%
Yttrium	89-2				125		%
Zinc	66-2	1624.67	1629.35	1622.35	1625.46	0.22	ppb
Zirconium	90-1	2.50	2.50	2.74	2.58	5.50	ppb
Zirconium	91-1	2.51	2.53	2.76	2.60	5.31	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:43:33 DataFile Name : 031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12326.55	12295.49	12294.21	12305.42	0.15	ppb
Antimony	121-1	2.31	2.45	2.32	2.36	3.37	ppb
Arsenic	75-2	92.23	91.59	91.86	91.89	0.35	ppb
Barium	135-1	340.75	358.33	343.86	347.65	2.70	ppb
Barium	137-1	369.28	391.82	374.28	378.46	3.13	ppb
Beryllium	9-1	6.81	7.08	6.66	6.85	3.12	ppb
Bismuth	209-1				106		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	22.09	23.27	21.87	22.41	3.34	ppb
Cadmium	106-1	22.02	22.81	22.61	22.48	1.82	ppb
Cadmium	111-1	22.53	23.18	22.31	22.67	2.00	ppb
Calcium	43-1	290264.69	305002.44	291805.82	295690.98	2.74	ppb
Calcium	44-1	292236.04	306919.50	293299.92	297485.15	2.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28.30	28.41	27.78	28.16	1.20	ppb
Cobalt	59-2	32.03	32.27	31.96	32.09	0.51	ppb
Copper	63-2	181.34	182.09	180.63	181.35	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				110		%
Indium	115-2				105		%
Iron	56-2	72684.28	73967.08	74184.67	73612.01	1.10	ppb
Iron	57-2	72677.85	74487.72	73185.80	73450.46	1.27	ppb
Iron	54-2	72845.37	73251.95	72496.70	72864.68	0.52	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:43:33 DataFile Name : 031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	569.28	609.92	586.40	588.54	3.47	ppb
Lead	207-1	575.50	599.73	579.03	584.76	2.24	ppb
Lead	208-1	571.49	598.57	575.34	581.80	2.52	ppb
Lithium	6-1				119		%
Magnesium	24-2	36479.87	36794.88	35943.51	36406.09	1.18	ppb
Manganese	55-2	1109.78	1134.02	1125.80	1123.20	1.10	ppb
Molybdenum	94-1	23.79	25.03	24.20	24.34	2.61	ppb
Molybdenum	95-1	20.05	21.05	20.24	20.44	2.60	ppb
Molybdenum	96-1	21.13	22.30	21.42	21.61	2.81	ppb
Molybdenum	97-1	20.03	21.40	20.28	20.57	3.55	ppb
Molybdenum	98-1	19.93	21.10	20.13	20.39	3.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	184.65	186.35	182.75	184.58	0.97	ppb
Phosphorus	31-2	3068.92	3078.04	3055.32	3067.43	0.37	ppb
Potassium	39-2	3246.48	3303.83	3243.64	3264.65	1.04	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				129		%
Scandium	45-2				124		%
Selenium	82-1	17.85	18.81	17.70	18.12	3.33	ppb
Selenium	77-2	44.10	41.84	47.24	44.39	6.11	ppb
Selenium	78-2	21.83	21.95	20.79	21.52	2.96	ppb
Silicon	28-1	2700.81	2840.19	2736.64	2759.21	2.62	ppb
Silver	107-1	2.81	2.98	2.87	2.88	3.08	ppb
Silver	109-1	2.75	2.96	2.80	2.84	3.83	ppb
Sodium	23-2	826.50	832.68	824.56	827.91	0.51	ppb
Strontium	86-1	1174.91	1235.70	1179.68	1196.76	2.82	ppb
Strontium	88-1	1162.00	1217.04	1163.98	1181.00	2.64	ppb
Sulfur	34-1	67666.07	70866.05	67282.39	68604.84	2.87	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	3.86	4.14	3.97	3.99	3.49	ppb
Thallium	205-1	3.78	4.11	3.95	3.95	4.10	ppb
Tin	118-1	5.40	5.66	5.39	5.48	2.80	ppb
Titanium	47-1	58.61	62.06	59.95	60.21	2.89	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01

Instrumnet Name :

P7

Client Sample ID :

MH2GK2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:43:33

DataFile Name :

031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.91	11.58	10.97	11.15	3.34	ppb
Vanadium	51-2	159.98	161.10	160.31	160.47	0.36	ppb
Yttrium	89-1				132		%
Yttrium	89-2				125		%
Zinc	66-2	1380.45	1375.79	1392.65	1382.96	0.63	ppb
Zirconium	90-1	4.17	4.45	4.30	4.31	3.18	ppb
Zirconium	91-1	4.15	4.47	4.34	4.32	3.70	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:46:35 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12086.72	12116.17	12072.25	12091.71	0.19	ppb
Antimony	121-1	2.44	2.24	2.24	2.31	5.15	ppb
Arsenic	75-2	87.30	90.07	89.45	88.94	1.64	ppb
Barium	135-1	374.38	339.45	342.22	352.02	5.52	ppb
Barium	137-1	409.73	368.31	375.90	384.65	5.73	ppb
Beryllium	9-1	7.53	6.65	6.79	6.99	6.78	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.52	23.01	22.15	23.22	5.15	ppb
Cadmium	106-1	24.49	22.47	23.61	23.52	4.30	ppb
Cadmium	111-1	24.68	22.12	22.59	23.13	5.88	ppb
Calcium	43-1	328192.20	299346.44	292782.87	306773.84	6.14	ppb
Calcium	44-1	331069.98	298301.85	298525.31	309299.05	6.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.68	28.04	27.80	27.84	0.67	ppb
Cobalt	59-2	32.02	32.28	31.99	32.09	0.50	ppb
Copper	63-2	180.26	180.58	180.49	180.44	0.09	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				108		%
Indium	115-2				105		%
Iron	56-2	72610.55	72524.40	71799.32	72311.42	0.62	ppb
Iron	57-2	72915.55	72379.54	73854.02	73049.70	1.02	ppb
Iron	54-2	71851.76	71537.17	71260.87	71549.93	0.41	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:46:35 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	646.87	595.46	581.54	607.96	5.66	ppb
Lead	207-1	646.46	580.20	575.87	600.84	6.58	ppb
Lead	208-1	647.43	577.16	575.94	600.18	6.82	ppb
Lithium	6-1				116		%
Magnesium	24-2	36046.32	36120.64	36160.93	36109.30	0.16	ppb
Manganese	55-2	1123.54	1126.10	1124.14	1124.60	0.12	ppb
Molybdenum	94-1	25.86	23.09	23.61	24.18	6.08	ppb
Molybdenum	95-1	21.47	19.42	19.61	20.17	5.61	ppb
Molybdenum	96-1	22.91	20.44	20.65	21.34	6.40	ppb
Molybdenum	97-1	21.51	19.53	19.75	20.26	5.36	ppb
Molybdenum	98-1	21.52	19.63	19.66	20.27	5.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	182.13	182.91	180.52	181.85	0.67	ppb
Phosphorus	31-2	3057.95	3035.71	3056.99	3050.22	0.41	ppb
Potassium	39-2	3203.66	3242.64	3187.19	3211.17	0.89	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				123		%
Scandium	45-2				122		%
Selenium	82-1	17.86	16.20	16.67	16.91	5.05	ppb
Selenium	77-2	40.96	46.01	43.24	43.40	5.82	ppb
Selenium	78-2	20.34	18.57	20.15	19.69	4.95	ppb
Silicon	28-1	3082.23	2802.69	2762.22	2882.38	6.05	ppb
Silver	107-1	3.03	2.78	2.77	2.86	5.07	ppb
Silver	109-1	3.03	2.76	2.81	2.87	5.14	ppb
Sodium	23-2	834.80	849.24	845.56	843.20	0.89	ppb
Strontium	86-1	1297.96	1164.79	1188.87	1217.21	5.83	ppb
Strontium	88-1	1281.26	1165.66	1167.47	1204.80	5.50	ppb
Sulfur	34-1	76560.05	69183.90	68717.20	71487.05	6.15	ppb
Terbium	159-1				111		%
Terbium	159-2				109		%
Thallium	203-1	4.22	3.80	3.94	3.98	5.41	ppb
Thallium	205-1	4.16	3.78	3.81	3.92	5.38	ppb
Tin	118-1	5.61	5.20	5.17	5.33	4.65	ppb
Titanium	47-1	65.18	58.55	59.12	60.95	6.03	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-02

Instrumnet Name :

P7

Client Sample ID :

MH2GK2D

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:46:35

DataFile Name :

032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	12.25	11.12	10.97	11.45	6.09	ppb
Vanadium	51-2	157.77	158.16	158.25	158.06	0.16	ppb
Yttrium	89-1				129		%
Yttrium	89-2				125		%
Zinc	66-2	1371.71	1364.91	1380.11	1372.24	0.56	ppb
Zirconium	90-1	4.55	4.13	4.18	4.29	5.35	ppb
Zirconium	91-1	4.55	4.14	4.23	4.31	5.02	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:49:35 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2612.76	2607.06	2625.27	2615.03	0.36	ppb
Antimony	121-1	0.47	0.46	0.52	0.49	6.06	ppb
Arsenic	75-2	20.24	19.77	20.26	20.09	1.37	ppb
Barium	135-1	66.96	66.61	73.19	68.92	5.37	ppb
Barium	137-1	67.36	67.11	74.17	69.55	5.75	ppb
Beryllium	9-1	1.35	1.37	1.42	1.38	2.65	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.16	4.57	4.95	4.56	8.57	ppb
Cadmium	106-1	5.41	4.02	4.65	4.69	14.76	ppb
Cadmium	111-1	4.56	4.36	4.95	4.62	6.46	ppb
Calcium	43-1	60597.67	61684.25	65082.46	62454.80	3.75	ppb
Calcium	44-1	60890.22	61591.04	65698.09	62726.45	4.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.74	5.89	5.82	5.82	1.33	ppb
Cobalt	59-2	6.67	6.81	6.81	6.76	1.15	ppb
Copper	63-2	39.40	39.20	39.41	39.34	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				110		%
Indium	115-1				112		%
Indium	115-2				108		%
Iron	56-2	15295.39	15437.04	15460.86	15397.77	0.58	ppb
Iron	57-2	15582.61	15362.71	15366.65	15437.33	0.82	ppb
Iron	54-2	15471.96	15348.60	15388.62	15403.06	0.41	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:49:35 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	95.87	96.54	105.22	99.21	5.26	ppb
Lead	207-1	92.27	95.40	103.54	97.07	5.99	ppb
Lead	208-1	102.10	103.15	112.69	105.98	5.50	ppb
Lithium	6-1				115		%
Magnesium	24-2	7510.69	7474.91	7439.77	7475.12	0.47	ppb
Manganese	55-2	235.19	236.49	235.73	235.80	0.28	ppb
Molybdenum	94-1	5.31	5.23	5.57	5.37	3.30	ppb
Molybdenum	95-1	4.29	4.45	4.70	4.48	4.63	ppb
Molybdenum	96-1	4.57	4.67	4.92	4.72	3.90	ppb
Molybdenum	97-1	4.32	4.42	4.69	4.48	4.27	ppb
Molybdenum	98-1	4.37	4.36	4.64	4.46	3.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	39.22	39.50	39.32	39.35	0.37	ppb
Phosphorus	31-2	621.66	628.74	611.37	620.59	1.41	ppb
Potassium	39-2	716.88	711.33	722.67	716.96	0.79	ppb
Rhodium	103-1				109		%
Rhodium	103-2				110		%
Scandium	45-1				118		%
Scandium	45-2				118		%
Selenium	82-1	4.21	3.96	3.67	3.95	6.79	ppb
Selenium	77-2	9.59	8.49	8.80	8.96	6.34	ppb
Selenium	78-2	3.47	5.99	4.76	4.74	26.62	ppb
Silicon	28-1	562.28	568.18	608.80	579.75	4.37	ppb
Silver	107-1	0.54	0.56	0.62	0.58	7.48	ppb
Silver	109-1	0.56	0.54	0.62	0.58	6.72	ppb
Sodium	23-2	211.88	211.24	211.96	211.69	0.19	ppb
Strontium	86-1	241.15	244.42	259.04	248.21	3.84	ppb
Strontium	88-1	249.50	252.61	269.35	257.15	4.15	ppb
Sulfur	34-1	14584.01	14661.60	15845.60	15030.40	4.70	ppb
Terbium	159-1				113		%
Terbium	159-2				111		%
Thallium	203-1	0.74	0.76	0.81	0.77	4.68	ppb
Thallium	205-1	0.73	0.73	0.81	0.76	6.48	ppb
Tin	118-1	1.10	1.07	1.20	1.12	6.02	ppb
Titanium	47-1	11.88	12.41	13.26	12.52	5.56	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01LX5

Instrumnet Name :

P7

Client Sample ID :

MH2GK2L

Dilution Factor :

5

Date & Time Acquired :

2024-10-31 21:49:35

DataFile Name :

033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.01	2.06	2.25	2.11	6.18	ppb
Vanadium	51-2	32.86	32.95	33.17	32.99	0.48	ppb
Yttrium	89-1				118		%
Yttrium	89-2				115		%
Zinc	66-2	293.76	292.46	295.11	293.78	0.45	ppb
Zirconium	90-1	0.91	0.95	0.99	0.95	4.21	ppb
Zirconium	91-1	0.92	0.92	0.98	0.94	3.82	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:52:44 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12459.26	12383.03	12447.45	12429.91	0.33	ppb
Antimony	121-1	24.54	23.39	22.68	23.54	3.98	ppb
Arsenic	75-2	98.10	97.48	98.90	98.16	0.73	ppb
Barium	135-1	849.33	792.02	784.07	808.47	4.40	ppb
Barium	137-1	847.87	794.54	778.70	807.04	4.49	ppb
Beryllium	9-1	17.59	16.90	16.80	17.10	2.48	ppb
Bismuth	209-1				108		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	33.23	32.63	32.14	32.67	1.68	ppb
Cadmium	106-1	33.08	31.88	30.20	31.72	4.56	ppb
Cadmium	111-1	34.04	32.22	31.86	32.71	3.58	ppb
Calcium	43-1	300672.34	287183.28	293268.06	293707.90	2.30	ppb
Calcium	44-1	307088.75	291131.60	296368.15	298196.17	2.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	69.44	69.65	69.46	69.52	0.17	ppb
Cobalt	59-2	129.68	130.79	131.12	130.53	0.58	ppb
Copper	63-2	238.81	241.60	237.41	239.27	0.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				108		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	56-2	73610.26	74009.87	74141.79	73920.64	0.37	ppb
Iron	57-2	73590.40	74224.05	74121.81	73978.75	0.46	ppb
Iron	54-2	73433.30	73400.88	74519.76	73784.65	0.86	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:52:44 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	605.73	567.05	576.25	583.01	3.47	ppb
Lead	207-1	593.28	562.42	577.40	577.70	2.67	ppb
Lead	208-1	590.73	567.63	575.70	578.02	2.03	ppb
Lithium	6-1				116		%
Magnesium	24-2	36197.05	35743.49	35718.21	35886.25	0.75	ppb
Manganese	55-2	1227.56	1232.05	1238.63	1232.75	0.45	ppb
Molybdenum	94-1	24.37	23.39	23.63	23.80	2.13	ppb
Molybdenum	95-1	20.76	19.84	20.00	20.20	2.42	ppb
Molybdenum	96-1	21.68	20.80	21.14	21.21	2.07	ppb
Molybdenum	97-1	20.70	19.91	20.25	20.29	1.94	ppb
Molybdenum	98-1	20.74	19.80	20.12	20.22	2.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	281.64	282.78	282.98	282.47	0.26	ppb
Phosphorus	31-2	2985.61	2997.10	2996.30	2993.01	0.21	ppb
Potassium	39-2	3215.32	3181.79	3189.48	3195.53	0.55	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				123		%
Scandium	45-2				119		%
Selenium	82-1	38.57	36.20	38.18	37.65	3.37	ppb
Selenium	77-2	63.30	62.98	63.86	63.38	0.71	ppb
Selenium	78-2	39.20	39.23	41.62	40.01	3.47	ppb
Silicon	28-1	2834.12	2658.37	2731.82	2741.44	3.22	ppb
Silver	107-1	13.74	13.11	12.90	13.25	3.31	ppb
Silver	109-1	13.58	13.05	12.97	13.20	2.53	ppb
Sodium	23-2	841.91	846.39	850.57	846.29	0.51	ppb
Strontium	86-1	1212.63	1159.95	1182.27	1184.95	2.23	ppb
Strontium	88-1	1203.89	1140.71	1163.44	1169.35	2.74	ppb
Sulfur	34-1	70747.93	66885.26	68732.87	68788.68	2.81	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	13.19	12.63	13.05	12.96	2.26	ppb
Thallium	205-1	13.34	12.68	12.98	13.00	2.53	ppb
Tin	118-1	5.48	5.27	5.11	5.29	3.53	ppb
Titanium	47-1	61.03	59.75	59.56	60.11	1.32	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-03

Instrumnet Name :

P7

Client Sample ID :

MH2GK2S

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:52:44

DataFile Name :

034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	11.45	10.80	10.97	11.08	3.05	ppb
Vanadium	51-2	265.11	260.45	260.64	262.07	1.01	ppb
Yttrium	89-1				128		%
Yttrium	89-2				123		%
Zinc	66-2	1491.69	1498.77	1501.29	1497.25	0.33	ppb
Zirconium	90-1	4.31	4.17	4.18	4.22	1.80	ppb
Zirconium	91-1	4.27	4.19	4.22	4.22	0.96	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:55:40 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15063.92	14878.97	14691.53	14878.14	1.25	ppb
Antimony	121-1	2.37	2.35	2.44	2.39	1.92	ppb
Arsenic	75-2	30.58	31.95	31.10	31.21	2.22	ppb
Barium	135-1	964.21	939.41	952.20	951.94	1.30	ppb
Barium	137-1	966.15	929.91	974.89	956.98	2.49	ppb
Beryllium	9-1	4.82	4.76	4.62	4.73	2.18	ppb
Bismuth	209-1				111		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.28	16.85	17.85	17.00	4.67	ppb
Cadmium	106-1	16.68	16.02	16.86	16.52	2.67	ppb
Cadmium	111-1	16.44	15.87	16.63	16.31	2.44	ppb
Calcium	43-1	145832.85	150769.44	149326.30	148642.86	1.71	ppb
Calcium	44-1	147419.76	148739.65	150147.71	148769.04	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	80.90	81.57	82.09	81.52	0.73	ppb
Cobalt	59-2	18.99	19.30	19.10	19.13	0.83	ppb
Copper	63-2	206.57	207.96	207.48	207.34	0.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				109		%
Indium	115-1				111		%
Indium	115-2				106		%
Iron	56-2	35289.10	35622.67	35488.62	35466.80	0.47	ppb
Iron	57-2	35546.12	36165.28	35942.45	35884.62	0.87	ppb
Iron	54-2	35357.12	35271.51	35293.77	35307.46	0.13	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:55:40 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	843.50	839.86	853.03	845.47	0.80	ppb
Lead	207-1	835.87	811.31	829.42	825.53	1.54	ppb
Lead	208-1	842.77	819.26	831.03	831.02	1.41	ppb
Lithium	6-1				117		%
Magnesium	24-2	21509.93	21612.11	21251.78	21457.94	0.87	ppb
Manganese	55-2	1852.72	1894.71	1883.60	1877.01	1.16	ppb
Molybdenum	94-1	6.08	5.96	6.05	6.03	0.98	ppb
Molybdenum	95-1	2.94	2.89	3.06	2.96	2.94	ppb
Molybdenum	96-1	3.55	3.59	3.62	3.59	1.05	ppb
Molybdenum	97-1	2.92	2.96	2.94	2.94	0.64	ppb
Molybdenum	98-1	2.86	2.88	2.92	2.89	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	85.15	87.03	86.28	86.15	1.10	ppb
Phosphorus	31-2	5899.76	5960.23	5876.47	5912.15	0.73	ppb
Potassium	39-2	6725.31	6766.66	6769.49	6753.82	0.37	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				116		%
Scandium	45-2				114		%
Selenium	82-1	4.83	5.43	5.30	5.19	6.08	ppb
Selenium	77-2	26.39	26.79	26.85	26.68	0.95	ppb
Selenium	78-2	8.23	8.72	8.53	8.49	2.92	ppb
Silicon	28-1	6105.09	6115.28	6141.89	6120.75	0.31	ppb
Silver	107-1	2.97	2.90	3.01	2.96	2.00	ppb
Silver	109-1	2.97	2.92	2.99	2.96	1.30	ppb
Sodium	23-2	959.52	968.94	961.50	963.32	0.52	ppb
Strontium	86-1	765.46	743.95	769.02	759.48	1.79	ppb
Strontium	88-1	749.15	747.25	750.27	748.89	0.20	ppb
Sulfur	34-1	4329.55	4445.26	4445.31	4406.70	1.52	ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	1.41	1.41	1.38	1.40	1.44	ppb
Thallium	205-1	1.39	1.38	1.43	1.40	1.69	ppb
Tin	118-1	8.71	8.62	8.87	8.73	1.42	ppb
Titanium	47-1	121.18	126.58	124.49	124.09	2.19	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-08

Instrumnet Name :P7

Client Sample ID :MH2GK7

Dilution Factor :1

Date & Time Acquired :2024-10-31 21:55:40

DataFile Name :035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.75	6.62	6.83	6.73	1.61	ppb
Vanadium	51-2	93.40	95.25	93.69	94.11	1.06	ppb
Yttrium	89-1				125		%
Yttrium	89-2				120		%
Zinc	66-2	1953.86	1976.60	1937.47	1955.98	1.00	ppb
Zirconium	90-1	2.06	2.09	2.17	2.11	2.73	ppb
Zirconium	91-1	2.12	2.10	2.18	2.14	1.97	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:58:41 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17834.88	17819.31	17735.90	17796.70	0.30	ppb
Antimony	121-1	3.53	3.70	3.91	3.71	5.08	ppb
Arsenic	75-2	47.45	47.66	45.00	46.70	3.16	ppb
Barium	135-1	1359.25	1400.12	1468.93	1409.44	3.93	ppb
Barium	137-1	1354.52	1398.26	1451.32	1401.37	3.46	ppb
Beryllium	9-1	5.95	5.97	6.27	6.06	2.98	ppb
Bismuth	209-1				109		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.98	22.75	23.25	22.33	5.34	ppb
Cadmium	106-1	22.34	23.09	24.72	23.38	5.21	ppb
Cadmium	111-1	22.47	23.13	24.37	23.33	4.14	ppb
Calcium	43-1	193929.79	200033.65	212231.55	202065.00	4.61	ppb
Calcium	44-1	195465.82	202351.82	213298.44	203705.36	4.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	56.37	56.13	55.65	56.05	0.65	ppb
Cobalt	59-2	25.81	25.82	25.47	25.70	0.78	ppb
Copper	63-2	321.20	323.73	322.72	322.55	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				105		%
Iron	56-2	47963.22	48061.64	47383.82	47802.89	0.77	ppb
Iron	57-2	48743.70	48541.54	48304.96	48530.06	0.45	ppb
Iron	54-2	47594.12	48178.53	47432.60	47735.08	0.82	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:58:41 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1345.77	1372.26	1445.94	1387.99	3.74	ppb
Lead	207-1	1294.56	1361.69	1405.01	1353.75	4.11	ppb
Lead	208-1	1300.09	1364.69	1423.03	1362.60	4.51	ppb
Lithium	6-1				116		%
Magnesium	24-2	21972.69	21862.85	21589.13	21808.22	0.91	ppb
Manganese	55-2	1851.67	1880.78	1847.42	1859.95	0.98	ppb
Molybdenum	94-1	7.75	8.01	8.52	8.09	4.83	ppb
Molybdenum	95-1	3.95	4.01	4.28	4.08	4.38	ppb
Molybdenum	96-1	4.74	4.91	5.29	4.98	5.74	ppb
Molybdenum	97-1	3.88	4.07	4.30	4.08	5.15	ppb
Molybdenum	98-1	3.85	3.98	4.19	4.01	4.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	119.71	119.39	117.64	118.91	0.94	ppb
Phosphorus	31-2	4869.70	4865.23	4827.31	4854.08	0.48	ppb
Potassium	39-2	5059.99	5057.81	5017.61	5045.13	0.47	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				115		%
Scandium	45-2				112		%
Selenium	82-1	4.81	4.95	5.00	4.92	2.04	ppb
Selenium	77-2	33.30	27.64	31.38	30.78	9.36	ppb
Selenium	78-2	7.87	7.08	7.97	7.64	6.39	ppb
Silicon	28-1	4680.91	4831.52	5089.79	4867.41	4.25	ppb
Silver	107-1	4.55	4.76	5.04	4.78	5.16	ppb
Silver	109-1	4.51	4.77	5.07	4.79	5.86	ppb
Sodium	23-2	1097.33	1073.92	1091.70	1087.65	1.12	ppb
Strontium	86-1	881.90	908.98	972.80	921.23	5.07	ppb
Strontium	88-1	874.55	895.19	948.47	906.07	4.21	ppb
Sulfur	34-1	2889.23	3078.85	3436.86	3134.98	8.87	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	1.71	1.78	1.85	1.78	3.85	ppb
Thallium	205-1	1.68	1.74	1.88	1.77	5.89	ppb
Tin	118-1	14.11	14.90	15.37	14.80	4.28	ppb
Titanium	47-1	127.36	131.56	139.00	132.64	4.45	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-09

Instrumnet Name :

P7

Client Sample ID :

MH2GK8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:58:41

DataFile Name :

036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.58	6.75	7.17	6.83	4.45	ppb
Vanadium	51-2	121.36	120.79	119.14	120.43	0.96	ppb
Yttrium	89-1				126		%
Yttrium	89-2				121		%
Zinc	66-2	2368.16	2401.77	2382.27	2384.06	0.71	ppb
Zirconium	90-1	2.71	2.80	2.93	2.81	3.90	ppb
Zirconium	91-1	2.76	2.80	2.97	2.84	3.82	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-10 Instrumnet Name : P7
Client Sample ID : MH2GK9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:01:39 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15575.22	15441.39	15442.38	15486.33	0.50	ppb
Antimony	121-1	2.67	2.72	2.98	2.79	6.04	ppb
Arsenic	75-2	35.07	35.54	35.80	35.47	1.05	ppb
Barium	135-1	1073.24	1057.82	1189.10	1106.72	6.48	ppb
Barium	137-1	1059.85	1089.60	1184.51	1111.32	5.86	ppb
Beryllium	9-1	5.81	5.90	6.23	5.98	3.71	ppb
Bismuth	209-1				107		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	22.50	21.93	24.55	22.99	5.99	ppb
Cadmium	106-1	21.89	22.11	23.85	22.62	4.74	ppb
Cadmium	111-1	21.35	21.82	24.33	22.50	7.11	ppb
Calcium	43-1	227680.40	232473.20	249655.44	236603.01	4.88	ppb
Calcium	44-1	228437.17	231400.65	251249.98	237029.26	5.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.14	39.45	39.24	39.61	1.18	ppb
Cobalt	59-2	25.30	24.93	24.91	25.05	0.89	ppb
Copper	63-2	251.75	247.06	252.00	250.27	1.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	46373.38	45573.86	45878.88	45942.04	0.88	ppb
Iron	57-2	46542.57	45962.79	46752.61	46419.32	0.88	ppb
Iron	54-2	45822.01	45543.85	45642.46	45669.44	0.31	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-10 Instrumnet Name : P7
Client Sample ID : MH2GK9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:01:39 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1192.87	1186.54	1298.55	1225.98	5.13	ppb
Lead	207-1	1165.07	1191.64	1259.69	1205.47	4.05	ppb
Lead	208-1	1159.77	1190.69	1267.49	1205.99	4.60	ppb
Lithium	6-1				115		%
Magnesium	24-2	20610.95	20286.00	20288.86	20395.27	0.92	ppb
Manganese	55-2	1619.97	1619.40	1619.93	1619.77	0.02	ppb
Molybdenum	94-1	8.18	8.28	8.99	8.48	5.17	ppb
Molybdenum	95-1	3.46	3.56	3.88	3.63	5.97	ppb
Molybdenum	96-1	4.42	4.37	4.88	4.56	6.11	ppb
Molybdenum	97-1	3.46	3.47	3.80	3.58	5.35	ppb
Molybdenum	98-1	3.49	3.49	3.81	3.60	5.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	129.79	127.92	130.12	129.28	0.92	ppb
Phosphorus	31-2	3955.14	3939.96	3973.56	3956.22	0.43	ppb
Potassium	39-2	4281.60	4275.16	4250.28	4269.01	0.39	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				112		%
Selenium	82-1	3.23	2.92	3.72	3.29	12.25	ppb
Selenium	77-2	24.37	28.56	32.61	28.52	14.44	ppb
Selenium	78-2	6.96	7.14	7.19	7.10	1.73	ppb
Silicon	28-1	3902.80	3943.71	4314.56	4053.69	5.60	ppb
Silver	107-1	4.00	4.09	4.45	4.18	5.64	ppb
Silver	109-1	4.02	4.03	4.47	4.17	6.17	ppb
Sodium	23-2	1183.88	1150.99	1153.24	1162.70	1.58	ppb
Strontium	86-1	936.05	940.16	1025.64	967.28	5.23	ppb
Strontium	88-1	924.41	926.80	1004.86	952.02	4.81	ppb
Sulfur	34-1	2382.91	2465.02	2984.35	2610.76	12.49	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	1.78	1.85	1.96	1.87	4.86	ppb
Thallium	205-1	1.81	1.84	1.98	1.88	5.03	ppb
Tin	118-1	8.75	8.60	9.56	8.97	5.73	ppb
Titanium	47-1	110.47	112.29	122.18	114.98	5.48	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-10 Instrumnet Name : P7
Client Sample ID : MH2GK9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:01:39 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.46	7.54	8.18	7.72	5.10	ppb
Vanadium	51-2	117.20	116.66	116.54	116.80	0.30	ppb
Yttrium	89-1				125		%
Yttrium	89-2				121		%
Zinc	66-2	1970.60	1955.05	2001.44	1975.70	1.20	ppb
Zirconium	90-1	3.15	3.20	3.52	3.29	6.10	ppb
Zirconium	91-1	3.14	3.21	3.48	3.28	5.59	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:04:40 DataFile Name : 038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13624.57	13652.75	13543.05	13606.79	0.42	ppb
Antimony	121-1	2.31	2.24	2.26	2.27	1.72	ppb
Arsenic	75-2	36.40	35.66	35.80	35.95	1.10	ppb
Barium	135-1	1207.84	1170.68	1193.06	1190.53	1.57	ppb
Barium	137-1	1206.42	1167.50	1189.13	1187.68	1.64	ppb
Beryllium	9-1	7.06	6.45	6.80	6.77	4.48	ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	31.79	30.13	32.25	31.39	3.54	ppb
Cadmium	106-1	31.84	31.30	32.36	31.83	1.66	ppb
Cadmium	111-1	32.44	31.61	32.35	32.14	1.41	ppb
Calcium	43-1	262721.30	252912.51	254826.94	256820.25	2.02	ppb
Calcium	44-1	263978.34	253204.34	257459.10	258213.93	2.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.40	32.18	31.76	32.11	1.02	ppb
Cobalt	59-2	27.50	27.23	27.16	27.30	0.66	ppb
Copper	63-2	260.19	260.36	260.96	260.50	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				110		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	46999.44	47207.47	45883.34	46696.75	1.52	ppb
Iron	57-2	47544.49	47507.37	46968.15	47340.00	0.68	ppb
Iron	54-2	46370.62	46537.82	45741.12	46216.52	0.91	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:04:40 DataFile Name : 038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1443.38	1390.04	1378.52	1403.98	2.46	ppb
Lead	207-1	1424.81	1376.48	1341.58	1380.96	3.03	ppb
Lead	208-1	1419.89	1370.07	1354.65	1381.54	2.47	ppb
Lithium	6-1				115		%
Magnesium	24-2	23949.73	23741.78	23452.66	23714.72	1.05	ppb
Manganese	55-2	1467.66	1453.44	1430.54	1450.54	1.29	ppb
Molybdenum	94-1	8.37	8.14	8.30	8.27	1.43	ppb
Molybdenum	95-1	2.98	2.90	2.89	2.93	1.75	ppb
Molybdenum	96-1	3.93	3.86	3.84	3.88	1.13	ppb
Molybdenum	97-1	2.95	2.92	2.95	2.94	0.57	ppb
Molybdenum	98-1	2.92	2.86	2.86	2.88	1.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	167.19	166.59	164.87	166.22	0.72	ppb
Phosphorus	31-2	3637.31	3532.31	3495.08	3554.90	2.07	ppb
Potassium	39-2	3918.99	3921.00	3846.12	3895.37	1.10	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				114		%
Scandium	45-2				113		%
Selenium	82-1	2.74	3.23	3.19	3.05	8.90	ppb
Selenium	77-2	31.86	30.31	29.03	30.40	4.67	ppb
Selenium	78-2	7.30	7.94	7.24	7.49	5.15	ppb
Silicon	28-1	3814.81	3655.17	3717.73	3729.24	2.16	ppb
Silver	107-1	5.97	5.83	5.89	5.90	1.17	ppb
Silver	109-1	5.91	5.77	5.94	5.87	1.60	ppb
Sodium	23-2	1324.67	1332.39	1302.06	1319.71	1.19	ppb
Strontium	86-1	1119.57	1060.87	1076.16	1085.53	2.81	ppb
Strontium	88-1	1101.43	1057.10	1074.97	1077.83	2.07	ppb
Sulfur	34-1	2079.67	1835.29	1929.97	1948.31	6.32	ppb
Terbium	159-1				111		%
Terbium	159-2				109		%
Thallium	203-1	2.33	2.25	2.17	2.25	3.53	ppb
Thallium	205-1	2.32	2.21	2.18	2.24	3.24	ppb
Tin	118-1	5.52	5.43	5.41	5.45	1.07	ppb
Titanium	47-1	78.05	75.48	75.34	76.29	2.00	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-11

Instrumnet Name :

P7

Client Sample ID :

MH2GL0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:04:40

DataFile Name :

038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.40	10.07	9.86	10.11	2.70	ppb
Vanadium	51-2	123.20	124.08	121.29	122.86	1.16	ppb
Yttrium	89-1				126		%
Yttrium	89-2				122		%
Zinc	66-2	1889.40	1875.34	1880.30	1881.68	0.38	ppb
Zirconium	90-1	3.54	3.42	3.49	3.48	1.83	ppb
Zirconium	91-1	3.61	3.48	3.41	3.50	2.96	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-12 Instrumnet Name : P7
Client Sample ID : MH2GL1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:07:39 DataFile Name : 039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13731.05	13802.74	13870.34	13801.37	0.50	ppb
Antimony	121-1	2.23	2.31	2.27	2.27	1.58	ppb
Arsenic	75-2	29.80	29.28	30.10	29.72	1.39	ppb
Barium	135-1	773.67	795.54	768.17	779.13	1.86	ppb
Barium	137-1	790.00	783.69	769.01	780.90	1.38	ppb
Beryllium	9-1	4.32	4.46	4.42	4.40	1.63	ppb
Bismuth	209-1				113		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.35	16.10	15.58	16.01	2.47	ppb
Cadmium	106-1	14.92	15.44	14.65	15.00	2.67	ppb
Cadmium	111-1	13.95	14.49	14.20	14.21	1.93	ppb
Calcium	43-1	135380.61	136310.29	136322.59	136004.50	0.40	ppb
Calcium	44-1	135391.76	137282.02	138291.65	136988.48	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	98.37	98.52	99.69	98.86	0.73	ppb
Cobalt	59-2	18.16	18.27	18.30	18.24	0.38	ppb
Copper	63-2	192.23	193.41	194.15	193.26	0.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				109		%
Indium	115-1				108		%
Indium	115-2				103		%
Iron	56-2	36436.82	36605.45	36699.59	36580.62	0.36	ppb
Iron	57-2	36911.37	36834.99	36893.28	36879.88	0.11	ppb
Iron	54-2	36097.10	36738.76	36516.63	36450.83	0.89	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-12 Instrumnet Name : P7
Client Sample ID : MH2GL1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:07:39 DataFile Name : 039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	663.72	654.02	672.17	663.30	1.37	ppb
Lead	207-1	658.88	628.48	655.96	647.77	2.59	ppb
Lead	208-1	651.56	638.37	655.47	648.47	1.38	ppb
Lithium	6-1				114		%
Magnesium	24-2	22357.69	22523.89	22567.47	22483.02	0.49	ppb
Manganese	55-2	1875.73	1901.47	1902.02	1893.07	0.79	ppb
Molybdenum	94-1	6.82	6.89	6.91	6.87	0.65	ppb
Molybdenum	95-1	3.42	3.40	3.33	3.39	1.42	ppb
Molybdenum	96-1	3.97	4.09	4.05	4.04	1.49	ppb
Molybdenum	97-1	3.27	3.31	3.41	3.33	2.10	ppb
Molybdenum	98-1	3.35	3.33	3.36	3.35	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	85.89	86.38	87.36	86.54	0.86	ppb
Phosphorus	31-2	6898.50	6814.70	6961.79	6891.66	1.07	ppb
Potassium	39-2	6849.19	6881.99	6912.17	6881.12	0.46	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				108		%
Selenium	82-1	5.65	5.78	6.04	5.82	3.46	ppb
Selenium	77-2	26.89	22.93	21.84	23.89	11.13	ppb
Selenium	78-2	8.75	8.99	7.90	8.55	6.72	ppb
Silicon	28-1	5890.57	5971.27	6049.05	5970.30	1.33	ppb
Silver	107-1	2.52	2.55	2.57	2.55	0.99	ppb
Silver	109-1	2.61	2.58	2.59	2.60	0.68	ppb
Sodium	23-2	1090.25	1105.62	1107.99	1101.29	0.87	ppb
Strontium	86-1	700.12	715.15	706.16	707.15	1.07	ppb
Strontium	88-1	699.78	702.31	706.07	702.72	0.45	ppb
Sulfur	34-1	4892.14	4933.27	4993.61	4939.67	1.03	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	1.36	1.31	1.40	1.35	3.38	ppb
Thallium	205-1	1.36	1.34	1.37	1.36	0.99	ppb
Tin	118-1	5.46	5.54	5.37	5.46	1.56	ppb
Titanium	47-1	120.69	123.79	125.02	123.17	1.81	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-12

Instrumnet Name :

P7

Client Sample ID :

MH2GL1

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:07:39

DataFile Name :

039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.45	7.25	7.54	7.41	1.95	ppb
Vanadium	51-2	93.10	93.44	94.25	93.59	0.63	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	1875.91	1910.92	1883.97	1890.27	0.97	ppb
Zirconium	90-1	2.42	2.49	2.50	2.47	1.80	ppb
Zirconium	91-1	2.50	2.66	2.49	2.55	3.70	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:10:40 DataFile Name : 040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17455.39	17664.13	17691.29	17603.60	0.73	ppb
Antimony	121-1	3.25	3.23	3.27	3.25	0.57	ppb
Arsenic	75-2	53.42	52.76	53.22	53.13	0.63	ppb
Barium	135-1	1045.06	1050.72	1067.27	1054.35	1.09	ppb
Barium	137-1	1057.25	1048.08	1075.08	1060.14	1.30	ppb
Beryllium	9-1	5.72	5.88	5.94	5.85	1.89	ppb
Bismuth	209-1				112		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.38	23.56	23.26	23.40	0.63	ppb
Cadmium	106-1	23.68	23.82	24.62	24.04	2.10	ppb
Cadmium	111-1	24.17	24.05	24.28	24.16	0.48	ppb
Calcium	43-1	217307.02	220057.06	220479.24	219281.11	0.79	ppb
Calcium	44-1	219546.27	221248.54	223590.62	221461.81	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	55.70	56.21	56.14	56.01	0.49	ppb
Cobalt	59-2	26.44	26.52	26.85	26.60	0.81	ppb
Copper	63-2	304.43	308.04	306.26	306.24	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	56-2	57298.90	57782.64	57738.47	57606.67	0.46	ppb
Iron	57-2	57384.56	58301.09	58137.08	57940.91	0.84	ppb
Iron	54-2	56779.86	57545.27	57178.89	57168.01	0.67	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:10:40 DataFile Name : 040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1297.41	1272.62	1300.32	1290.12	1.18	ppb
Lead	207-1	1276.28	1260.30	1265.80	1267.46	0.64	ppb
Lead	208-1	1284.94	1271.06	1271.85	1275.95	0.61	ppb
Lithium	6-1				118		%
Magnesium	24-2	21570.08	21666.66	21764.65	21667.13	0.45	ppb
Manganese	55-2	1705.18	1724.62	1725.50	1718.44	0.67	ppb
Molybdenum	94-1	9.23	9.47	9.30	9.34	1.33	ppb
Molybdenum	95-1	6.14	6.23	6.09	6.15	1.10	ppb
Molybdenum	96-1	6.99	7.13	7.01	7.04	1.09	ppb
Molybdenum	97-1	6.13	6.16	6.13	6.14	0.26	ppb
Molybdenum	98-1	6.07	6.12	6.11	6.10	0.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	121.53	123.27	123.65	122.82	0.92	ppb
Phosphorus	31-2	4527.50	4588.70	4565.57	4560.59	0.68	ppb
Potassium	39-2	4420.97	4534.48	4510.76	4488.73	1.33	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				112		%
Scandium	45-2				109		%
Selenium	82-1	5.44	5.74	5.75	5.64	3.07	ppb
Selenium	77-2	30.15	31.40	27.83	29.79	6.08	ppb
Selenium	78-2	8.59	9.19	8.25	8.67	5.48	ppb
Silicon	28-1	4713.92	4793.10	4873.29	4793.44	1.66	ppb
Silver	107-1	4.47	4.51	4.56	4.51	0.98	ppb
Silver	109-1	4.39	4.52	4.54	4.48	1.90	ppb
Sodium	23-2	1351.82	1329.87	1360.15	1347.28	1.16	ppb
Strontium	86-1	960.63	959.00	958.62	959.42	0.11	ppb
Strontium	88-1	940.95	949.73	949.65	946.78	0.53	ppb
Sulfur	34-1	6176.54	6328.21	6455.65	6320.13	2.21	ppb
Terbium	159-1				116		%
Terbium	159-2				111		%
Thallium	203-1	2.22	2.24	2.28	2.25	1.48	ppb
Thallium	205-1	2.26	2.22	2.31	2.26	2.20	ppb
Tin	118-1	15.04	15.20	15.32	15.19	0.94	ppb
Titanium	47-1	118.71	119.53	121.46	119.90	1.18	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-13

Instrumnet Name :

P7

Client Sample ID :

MH2GL2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:10:40

DataFile Name :

040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.87	7.67	8.01	7.85	2.17	ppb
Vanadium	51-2	143.97	146.17	146.10	145.41	0.86	ppb
Yttrium	89-1				125		%
Yttrium	89-2				121		%
Zinc	66-2	2249.13	2339.93	2294.89	2294.65	1.98	ppb
Zirconium	90-1	2.47	2.51	2.70	2.56	4.78	ppb
Zirconium	91-1	2.48	2.54	2.62	2.55	2.58	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:13:38 DataFile Name : 041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16690.78	16528.35	16887.54	16702.22	1.08	ppb
Antimony	121-1	2.55	2.64	2.60	2.59	1.88	ppb
Arsenic	75-2	35.59	34.03	35.42	35.01	2.45	ppb
Barium	135-1	1144.46	1167.22	1155.87	1155.85	0.98	ppb
Barium	137-1	1133.06	1173.11	1168.25	1158.14	1.89	ppb
Beryllium	9-1	6.61	6.61	6.74	6.65	1.16	ppb
Bismuth	209-1				115		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	22.34	22.63	22.67	22.55	0.81	ppb
Cadmium	106-1	23.37	23.81	23.02	23.40	1.69	ppb
Cadmium	111-1	21.56	22.80	22.56	22.31	2.96	ppb
Calcium	43-1	226484.46	230967.03	234330.00	230593.83	1.71	ppb
Calcium	44-1	229702.67	231230.16	236182.52	232371.78	1.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	35.01	34.62	35.49	35.04	1.25	ppb
Cobalt	59-2	26.16	26.12	26.33	26.20	0.43	ppb
Copper	63-2	319.19	319.02	324.37	320.86	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				104		%
Iron	56-2	41139.67	40966.47	41615.16	41240.44	0.81	ppb
Iron	57-2	41951.19	41793.77	42294.86	42013.27	0.61	ppb
Iron	54-2	41086.65	40692.13	41526.12	41101.63	1.02	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:13:38 DataFile Name : 041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1696.84	1732.24	1793.43	1740.84	2.81	ppb
Lead	207-1	1690.68	1699.18	1718.36	1702.74	0.83	ppb
Lead	208-1	1699.61	1721.72	1740.52	1720.62	1.19	ppb
Lithium	6-1				116		%
Magnesium	24-2	20753.44	20529.18	20528.65	20603.76	0.63	ppb
Manganese	55-2	2130.48	2109.27	2154.41	2131.38	1.06	ppb
Molybdenum	94-1	7.66	7.81	7.79	7.76	1.09	ppb
Molybdenum	95-1	2.53	2.50	2.57	2.53	1.52	ppb
Molybdenum	96-1	3.43	3.52	3.48	3.48	1.25	ppb
Molybdenum	97-1	2.42	2.51	2.55	2.49	2.59	ppb
Molybdenum	98-1	2.46	2.52	2.52	2.50	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	110.66	109.06	111.23	110.32	1.02	ppb
Phosphorus	31-2	4326.48	4340.00	4301.60	4322.69	0.45	ppb
Potassium	39-2	3937.61	3944.49	3971.29	3951.13	0.45	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				109		%
Selenium	82-1	2.56	2.41	2.52	2.50	3.12	ppb
Selenium	77-2	30.03	33.57	29.77	31.12	6.82	ppb
Selenium	78-2	7.54	6.66	5.86	6.69	12.63	ppb
Silicon	28-1	4147.98	4225.64	4301.88	4225.17	1.82	ppb
Silver	107-1	4.99	5.29	5.15	5.14	2.96	ppb
Silver	109-1	4.98	5.17	5.15	5.10	1.95	ppb
Sodium	23-2	1706.34	1694.69	1685.48	1695.50	0.62	ppb
Strontium	86-1	1024.00	1036.24	1034.23	1031.49	0.64	ppb
Strontium	88-1	995.12	1023.58	1030.18	1016.29	1.83	ppb
Sulfur	34-1	2059.06	2157.13	2274.29	2163.49	4.98	ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	1.45	1.49	1.51	1.48	2.19	ppb
Thallium	205-1	1.43	1.49	1.47	1.46	2.06	ppb
Tin	118-1	7.87	8.28	8.18	8.11	2.69	ppb
Titanium	47-1	113.95	115.77	117.65	115.79	1.59	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-14

Instrumnet Name :

P7

Client Sample ID :

MH2GL3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:13:38

DataFile Name :

041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.55	7.80	7.68	7.68	1.64	ppb
Vanadium	51-2	101.33	100.73	101.87	101.31	0.56	ppb
Yttrium	89-1				127		%
Yttrium	89-2				122		%
Zinc	66-2	3169.17	3170.81	3190.58	3176.85	0.38	ppb
Zirconium	90-1	3.37	3.43	3.41	3.40	0.97	ppb
Zirconium	91-1	3.37	3.38	3.48	3.41	1.76	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-15 Instrumnet Name : P7
Client Sample ID : MH2GL4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:16:39 DataFile Name : 042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14691.87	14716.17	14828.86	14745.63	0.50	ppb
Antimony	121-1	3.13	3.22	3.75	3.37	9.96	ppb
Arsenic	75-2	76.98	78.64	77.17	77.60	1.17	ppb
Barium	135-1	1134.93	1145.30	1329.70	1203.31	9.11	ppb
Barium	137-1	1130.67	1147.69	1337.31	1205.22	9.52	ppb
Beryllium	9-1	6.29	6.27	7.04	6.53	6.74	ppb
Bismuth	209-1				111		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	39.35	40.30	47.65	42.43	10.71	ppb
Cadmium	106-1	40.04	40.29	46.51	42.28	8.66	ppb
Cadmium	111-1	41.44	42.42	48.42	44.09	8.58	ppb
Calcium	43-1	222128.55	225959.12	259864.60	235984.09	8.80	ppb
Calcium	44-1	223381.75	227708.56	263004.32	238031.54	9.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.33	37.42	37.62	37.46	0.40	ppb
Cobalt	59-2	28.25	28.13	28.02	28.13	0.41	ppb
Copper	63-2	407.06	399.40	400.00	402.15	1.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	50868.41	50763.94	50241.19	50624.51	0.66	ppb
Iron	57-2	50850.58	50880.82	50603.93	50778.44	0.30	ppb
Iron	54-2	50375.50	49929.39	50271.37	50192.09	0.46	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-15 Instrumnet Name : P7
Client Sample ID : MH2GL4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:16:39 DataFile Name : 042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2752.33	2808.08	3102.29	2887.57	6.51	ppb
Lead	207-1	2741.11	2778.13	3104.30	2874.52	6.95	ppb
Lead	208-1	2740.09	2773.66	3105.23	2872.99	7.02	ppb
Lithium	6-1				112		%
Magnesium	24-2	21103.02	21312.25	21015.70	21143.65	0.72	ppb
Manganese	55-2	2010.43	2009.08	2011.09	2010.20	0.05	ppb
Molybdenum	94-1	9.35	9.31	10.59	9.75	7.48	ppb
Molybdenum	95-1	3.70	3.72	4.31	3.91	8.83	ppb
Molybdenum	96-1	4.68	4.82	5.43	4.98	7.98	ppb
Molybdenum	97-1	3.77	3.73	4.18	3.90	6.34	ppb
Molybdenum	98-1	3.65	3.68	4.19	3.84	7.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	124.15	123.58	123.03	123.59	0.46	ppb
Phosphorus	31-2	3772.76	3700.07	3737.65	3736.83	0.97	ppb
Potassium	39-2	3688.08	3726.79	3741.37	3718.75	0.74	ppb
Rhodium	103-1				97		%
Rhodium	103-2				102		%
Scandium	45-1				108		%
Scandium	45-2				109		%
Selenium	82-1	3.02	3.08	3.35	3.15	5.46	ppb
Selenium	77-2	33.34	26.43	30.96	30.24	11.61	ppb
Selenium	78-2	6.08	8.64	6.01	6.91	21.66	ppb
Silicon	28-1	4016.05	4061.50	4754.21	4277.25	9.67	ppb
Silver	107-1	10.41	10.68	12.25	11.11	8.97	ppb
Silver	109-1	10.40	10.61	12.12	11.04	8.49	ppb
Sodium	23-2	1894.86	1849.39	1883.53	1875.93	1.26	ppb
Strontium	86-1	1025.87	1042.32	1167.23	1078.47	7.17	ppb
Strontium	88-1	1028.36	1043.06	1173.58	1081.67	7.39	ppb
Sulfur	34-1	2809.69	2868.65	3950.50	3209.61	20.01	ppb
Terbium	159-1				110		%
Terbium	159-2				109		%
Thallium	203-1	1.82	1.83	2.18	1.94	10.64	ppb
Thallium	205-1	1.84	1.85	2.09	1.93	7.56	ppb
Tin	118-1	9.27	9.47	11.15	9.96	10.33	ppb
Titanium	47-1	102.86	104.62	121.88	109.79	9.57	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-15

Instrumnet Name :

P7

Client Sample ID :

MH2GL4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:16:39

DataFile Name :

042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.97	9.13	10.20	9.44	7.08	ppb
Vanadium	51-2	115.59	115.58	115.35	115.51	0.12	ppb
Yttrium	89-1				121		%
Yttrium	89-2				120		%
Zinc	66-2	3345.93	3313.28	3331.32	3330.18	0.49	ppb
Zirconium	90-1	3.72	3.77	4.26	3.92	7.68	ppb
Zirconium	91-1	3.65	3.85	4.32	3.94	8.71	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-16 Instrumnet Name : P7
Client Sample ID : MH2GL5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:19:37 DataFile Name : 043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12026.36	12034.27	11999.44	12020.02	0.15	ppb
Antimony	121-1	0.89	0.91	1.01	0.94	7.02	ppb
Arsenic	75-2	18.86	19.12	19.69	19.22	2.20	ppb
Barium	135-1	525.95	537.21	560.73	541.30	3.28	ppb
Barium	137-1	524.25	547.10	558.97	543.44	3.25	ppb
Beryllium	9-1	3.94	4.10	4.22	4.09	3.39	ppb
Bismuth	209-1				113		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.90	9.71	10.08	9.90	1.87	ppb
Cadmium	106-1	8.80	10.82	11.05	10.23	12.12	ppb
Cadmium	111-1	9.31	9.87	10.15	9.77	4.34	ppb
Calcium	43-1	162263.82	169492.76	169447.09	167067.89	2.49	ppb
Calcium	44-1	163696.41	170313.14	169716.08	167908.54	2.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34.40	34.50	34.33	34.41	0.25	ppb
Cobalt	59-2	19.00	19.04	19.00	19.01	0.13	ppb
Copper	63-2	99.79	100.33	99.65	99.92	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	56-2	31399.05	31368.79	31107.48	31291.77	0.51	ppb
Iron	57-2	31203.20	32009.06	31813.65	31675.30	1.33	ppb
Iron	54-2	31232.77	30918.24	31104.30	31085.10	0.51	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-16 Instrumnet Name : P7
Client Sample ID : MH2GL5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:19:37 DataFile Name : 043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	559.46	583.43	584.83	575.91	2.48	ppb
Lead	207-1	543.13	571.37	557.94	557.48	2.53	ppb
Lead	208-1	550.67	571.96	566.32	562.99	1.96	ppb
Lithium	6-1				115		%
Magnesium	24-2	19395.75	19417.78	19332.40	19381.98	0.23	ppb
Manganese	55-2	1529.52	1513.47	1499.79	1514.26	0.98	ppb
Molybdenum	94-1	5.57	5.73	6.04	5.78	4.13	ppb
Molybdenum	95-1	1.98	2.04	2.42	2.15	11.11	ppb
Molybdenum	96-1	2.61	2.74	3.09	2.81	8.80	ppb
Molybdenum	97-1	1.95	2.04	2.38	2.12	10.53	ppb
Molybdenum	98-1	2.02	2.05	2.35	2.14	8.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	62.49	61.90	62.18	62.19	0.48	ppb
Phosphorus	31-2	3377.05	3382.45	3429.14	3396.21	0.84	ppb
Potassium	39-2	4401.05	4454.04	4407.70	4420.93	0.65	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				108		%
Scandium	45-2				106		%
Selenium	82-1	2.50	2.51	2.63	2.55	2.86	ppb
Selenium	77-2	27.90	31.90	24.47	28.09	13.24	ppb
Selenium	78-2	4.79	7.90	6.24	6.31	24.70	ppb
Silicon	28-1	3798.15	3976.84	3959.76	3911.59	2.52	ppb
Silver	107-1	1.27	1.26	1.32	1.29	2.55	ppb
Silver	109-1	1.24	1.23	1.31	1.26	3.33	ppb
Sodium	23-2	692.83	695.75	689.09	692.55	0.48	ppb
Strontium	86-1	595.35	606.56	611.63	604.51	1.38	ppb
Strontium	88-1	593.73	597.75	612.24	601.24	1.62	ppb
Sulfur	34-1	9629.83	10158.55	10136.92	9975.10	3.00	ppb
Terbium	159-1				116		%
Terbium	159-2				110		%
Thallium	203-1	0.81	0.84	0.89	0.85	4.48	ppb
Thallium	205-1	0.86	0.87	0.92	0.88	3.78	ppb
Tin	118-1	1.74	1.83	1.95	1.84	5.68	ppb
Titanium	47-1	70.41	74.22	74.46	73.03	3.11	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-16

Instrumnet Name :

P7

Client Sample ID :

MH2GL5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:19:37

DataFile Name :

043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.70	4.95	4.98	4.88	3.18	ppb
Vanadium	51-2	75.35	75.55	75.18	75.36	0.24	ppb
Yttrium	89-1				121		%
Yttrium	89-2				116		%
Zinc	66-2	958.38	962.11	965.59	962.03	0.38	ppb
Zirconium	90-1	2.37	2.44	2.50	2.44	2.73	ppb
Zirconium	91-1	2.29	2.44	2.44	2.39	3.52	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-17 Instrumnet Name : P7
Client Sample ID : MH2GL6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:22:40 DataFile Name : 044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12931.78	13242.13	13108.07	13094.00	1.19	ppb
Antimony	121-1	1.07	1.04	1.02	1.04	2.07	ppb
Arsenic	75-2	20.84	21.25	21.87	21.32	2.44	ppb
Barium	135-1	629.71	597.64	599.06	608.81	2.98	ppb
Barium	137-1	629.89	594.40	599.92	608.07	3.14	ppb
Beryllium	9-1	4.48	4.35	4.49	4.44	1.82	ppb
Bismuth	209-1				112		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	10.13	9.81	9.75	9.89	2.06	ppb
Cadmium	106-1	10.74	9.65	8.43	9.61	12.04	ppb
Cadmium	111-1	9.52	8.93	9.07	9.18	3.37	ppb
Calcium	43-1	166357.74	158035.78	160842.95	161745.49	2.62	ppb
Calcium	44-1	167939.83	160619.97	159990.02	162849.94	2.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.32	26.69	26.52	26.51	0.72	ppb
Cobalt	59-2	19.45	19.89	19.95	19.76	1.38	ppb
Copper	63-2	91.66	94.38	93.94	93.33	1.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				103		%
Iron	56-2	34943.91	35521.26	35394.78	35286.65	0.86	ppb
Iron	57-2	34687.27	36166.40	35660.67	35504.78	2.12	ppb
Iron	54-2	34712.92	35125.35	35366.76	35068.34	0.94	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-17 Instrumnet Name : P7
Client Sample ID : MH2GL6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:22:40 DataFile Name : 044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	645.11	627.44	622.35	631.63	1.89	ppb
Lead	207-1	631.99	606.58	600.76	613.11	2.71	ppb
Lead	208-1	634.57	612.60	613.03	620.07	2.03	ppb
Lithium	6-1				113		%
Magnesium	24-2	17951.35	18409.14	18321.49	18227.33	1.33	ppb
Manganese	55-2	1636.84	1665.71	1649.85	1650.80	0.88	ppb
Molybdenum	94-1	7.32	6.97	7.04	7.11	2.58	ppb
Molybdenum	95-1	2.58	2.46	2.49	2.51	2.32	ppb
Molybdenum	96-1	3.35	3.19	3.20	3.25	2.67	ppb
Molybdenum	97-1	2.40	2.39	2.46	2.42	1.51	ppb
Molybdenum	98-1	2.50	2.38	2.41	2.43	2.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	76.74	77.94	78.59	77.75	1.21	ppb
Phosphorus	31-2	2709.88	2795.67	2786.50	2764.02	1.70	ppb
Potassium	39-2	4246.59	4481.64	4357.07	4361.77	2.70	ppb
Rhodium	103-1				99		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	2.59	2.41	2.06	2.35	11.37	ppb
Selenium	77-2	27.80	29.91	24.23	27.32	10.51	ppb
Selenium	78-2	5.14	5.54	7.51	6.07	20.91	ppb
Silicon	28-1	4777.08	4542.86	4579.51	4633.15	2.72	ppb
Silver	107-1	1.66	1.56	1.57	1.60	3.32	ppb
Silver	109-1	1.64	1.58	1.59	1.60	1.90	ppb
Sodium	23-2	902.35	922.67	922.67	915.90	1.28	ppb
Strontium	86-1	639.99	618.59	626.14	628.24	1.73	ppb
Strontium	88-1	632.10	611.06	608.46	617.21	2.10	ppb
Sulfur	34-1	9414.60	8857.70	8869.26	9047.19	3.52	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	1.09	1.01	1.03	1.04	4.17	ppb
Thallium	205-1	1.10	1.02	1.03	1.05	4.21	ppb
Tin	118-1	1.95	1.90	1.88	1.91	1.89	ppb
Titanium	47-1	84.14	80.24	80.73	81.71	2.60	ppb

LB Number :
Lab Sample ID :
Client Sample ID :
Date & Time Acquired :

LB133242
P4552-17
MH2GL6
2024-10-31 22:22:40

Operator :
Instrumnet Name :
Dilution Factor :
DataFile Name :

Jaswal
P7
1
044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.87	5.56	5.58	5.67	3.03	ppb
Vanadium	51-2	75.32	76.83	76.55	76.23	1.06	ppb
Yttrium	89-1				118		%
Yttrium	89-2				116		%
Zinc	66-2	1122.76	1154.15	1149.45	1142.12	1.48	ppb
Zirconium	90-1	3.11	3.03	3.05	3.06	1.45	ppb
Zirconium	91-1	3.15	3.05	3.02	3.07	2.22	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-18 Instrumnet Name : P7
Client Sample ID : MH2GL7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:25:41 DataFile Name : 045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14272.35	14659.33	14347.28	14426.32	1.42	ppb
Antimony	121-1	2.33	2.38	2.37	2.36	1.02	ppb
Arsenic	75-2	68.49	69.22	68.15	68.62	0.80	ppb
Barium	135-1	877.66	898.90	914.79	897.12	2.08	ppb
Barium	137-1	877.37	904.14	909.43	896.98	1.92	ppb
Beryllium	9-1	4.39	4.50	4.56	4.48	1.89	ppb
Bismuth	209-1				114		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.47	24.52	25.57	24.85	2.50	ppb
Cadmium	106-1	24.17	24.94	25.54	24.88	2.75	ppb
Cadmium	111-1	24.41	24.53	25.11	24.68	1.52	ppb
Calcium	43-1	174705.94	178299.92	177587.76	176864.54	1.08	ppb
Calcium	44-1	175456.85	179435.62	178724.88	177872.45	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.46	25.47	25.57	25.50	0.25	ppb
Cobalt	59-2	22.36	22.54	22.84	22.58	1.07	ppb
Copper	63-2	279.90	281.36	283.07	281.44	0.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	56-2	45234.96	45399.34	45406.07	45346.79	0.21	ppb
Iron	57-2	45300.76	45872.46	45542.03	45571.75	0.63	ppb
Iron	54-2	44617.10	45102.73	45182.62	44967.48	0.68	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-18 Instrumnet Name : P7
Client Sample ID : MH2GL7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:25:41 DataFile Name : 045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1734.52	1788.93	1781.79	1768.41	1.67	ppb
Lead	207-1	1742.32	1770.40	1795.42	1769.38	1.50	ppb
Lead	208-1	1743.57	1767.90	1768.35	1759.94	0.81	ppb
Lithium	6-1				114		%
Magnesium	24-2	17146.27	17446.38	17230.83	17274.49	0.90	ppb
Manganese	55-2	3355.18	3358.85	3367.86	3360.63	0.19	ppb
Molybdenum	94-1	8.25	8.34	8.35	8.31	0.67	ppb
Molybdenum	95-1	3.48	3.41	3.43	3.44	1.03	ppb
Molybdenum	96-1	4.27	4.33	4.40	4.33	1.51	ppb
Molybdenum	97-1	3.41	3.37	3.41	3.40	0.73	ppb
Molybdenum	98-1	3.34	3.45	3.42	3.40	1.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	128.38	128.92	129.96	129.09	0.62	ppb
Phosphorus	31-2	2779.45	2784.72	2833.36	2799.18	1.06	ppb
Potassium	39-2	5344.76	5448.53	5370.81	5388.03	1.00	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	2.96	2.46	2.93	2.78	10.09	ppb
Selenium	77-2	30.93	27.48	28.52	28.98	6.12	ppb
Selenium	78-2	6.19	7.13	6.33	6.55	7.72	ppb
Silicon	28-1	4782.73	4895.66	4890.97	4856.45	1.32	ppb
Silver	107-1	6.23	6.37	6.52	6.37	2.31	ppb
Silver	109-1	6.22	6.40	6.50	6.37	2.22	ppb
Sodium	23-2	1444.23	1452.64	1477.05	1457.97	1.17	ppb
Strontium	86-1	636.26	640.80	631.29	636.12	0.75	ppb
Strontium	88-1	623.55	631.02	631.42	628.66	0.70	ppb
Sulfur	34-1	12876.08	13303.99	13327.63	13169.23	1.93	ppb
Terbium	159-1				115		%
Terbium	159-2				108		%
Thallium	203-1	1.30	1.29	1.34	1.31	2.17	ppb
Thallium	205-1	1.30	1.32	1.34	1.32	1.33	ppb
Tin	118-1	2.16	2.24	2.27	2.22	2.43	ppb
Titanium	47-1	82.03	83.36	83.10	82.83	0.85	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-18

Instrumnet Name :P7

Client Sample ID :MH2GL7

Dilution Factor :1

Date & Time Acquired :2024-10-31 22:25:41

DataFile Name :045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.33	6.36	6.43	6.37	0.82	ppb
Vanadium	51-2	85.96	86.54	86.67	86.39	0.43	ppb
Yttrium	89-1				121		%
Yttrium	89-2				116		%
Zinc	66-2	3961.12	4039.61	4048.32	4016.35	1.20	ppb
Zirconium	90-1	3.28	3.32	3.33	3.31	0.82	ppb
Zirconium	91-1	3.27	3.41	3.43	3.37	2.52	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-19 Instrumnet Name : P7
Client Sample ID : MH2GL8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:28:40 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11852.92	11821.06	11741.05	11805.01	0.49	ppb
Antimony	121-1	1.05	1.07	1.08	1.06	1.29	ppb
Arsenic	75-2	47.70	47.63	47.50	47.61	0.22	ppb
Barium	135-1	384.84	392.22	389.36	388.81	0.96	ppb
Barium	137-1	424.44	430.20	425.91	426.85	0.70	ppb
Beryllium	9-1	5.79	5.92	5.89	5.87	1.14	ppb
Bismuth	209-1				112		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.67	24.92	24.06	24.55	1.79	ppb
Cadmium	106-1	24.69	25.08	23.51	24.42	3.34	ppb
Cadmium	111-1	24.04	24.21	24.53	24.26	1.02	ppb
Calcium	43-1	260273.99	258457.76	257951.85	258894.53	0.47	ppb
Calcium	44-1	260087.41	258667.47	262156.14	260303.67	0.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.05	32.14	32.15	32.11	0.16	ppb
Cobalt	59-2	27.28	27.11	27.28	27.22	0.35	ppb
Copper	63-2	256.52	253.81	255.05	255.13	0.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	46713.05	47014.15	46534.27	46753.83	0.52	ppb
Iron	57-2	47335.82	47379.54	47422.56	47379.31	0.09	ppb
Iron	54-2	46438.52	46480.65	46572.03	46497.07	0.15	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-19 Instrumnet Name : P7
Client Sample ID : MH2GL8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:28:40 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1388.65	1419.19	1427.49	1411.78	1.45	ppb
Lead	207-1	1416.73	1416.04	1452.67	1428.48	1.47	ppb
Lead	208-1	1401.92	1428.65	1425.30	1418.62	1.03	ppb
Lithium	6-1				112		%
Magnesium	24-2	19793.03	19676.41	19479.54	19649.66	0.81	ppb
Manganese	55-2	2885.83	2838.85	2859.30	2861.33	0.82	ppb
Molybdenum	94-1	4.90	4.99	5.06	4.98	1.54	ppb
Molybdenum	95-1	2.50	2.41	2.47	2.46	1.87	ppb
Molybdenum	96-1	3.18	3.08	3.17	3.14	1.82	ppb
Molybdenum	97-1	2.40	2.45	2.53	2.46	2.76	ppb
Molybdenum	98-1	2.39	2.42	2.47	2.43	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	298.10	297.55	296.69	297.45	0.24	ppb
Phosphorus	31-2	2967.50	2929.56	2906.17	2934.41	1.05	ppb
Potassium	39-2	6001.98	5908.38	5894.99	5935.12	0.98	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	3.93	3.81	4.31	4.02	6.47	ppb
Selenium	77-2	30.33	29.45	34.14	31.31	7.95	ppb
Selenium	78-2	7.09	8.04	6.23	7.12	12.77	ppb
Silicon	28-1	5240.97	5216.58	5239.02	5232.19	0.26	ppb
Silver	107-1	4.69	4.81	4.72	4.74	1.36	ppb
Silver	109-1	4.59	4.80	4.69	4.69	2.22	ppb
Sodium	23-2	2465.19	2406.57	2421.82	2431.19	1.25	ppb
Strontium	86-1	985.65	985.70	992.85	988.06	0.42	ppb
Strontium	88-1	969.93	970.10	986.49	975.50	0.97	ppb
Sulfur	34-1	38861.97	38810.24	38823.45	38831.89	0.07	ppb
Terbium	159-1				114		%
Terbium	159-2				108		%
Thallium	203-1	1.15	1.19	1.15	1.16	1.75	ppb
Thallium	205-1	1.15	1.14	1.15	1.14	0.70	ppb
Tin	118-1	1.84	1.91	1.93	1.89	2.39	ppb
Titanium	47-1	48.83	48.46	49.30	48.86	0.87	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-19

Instrumnet Name :

P7

Client Sample ID :

MH2GL8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:28:40

DataFile Name :

046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.51	8.57	8.60	8.56	0.57	ppb
Vanadium	51-2	137.26	137.90	137.40	137.52	0.25	ppb
Yttrium	89-1				119		%
Yttrium	89-2				115		%
Zinc	66-2	3915.13	3896.30	3851.68	3887.70	0.84	ppb
Zirconium	90-1	1.74	1.73	1.75	1.74	0.63	ppb
Zirconium	91-1	1.76	1.78	1.87	1.80	3.04	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-20 Instrumnet Name : P7
Client Sample ID : MH2GL9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:31:39 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13276.62	13264.99	13220.16	13253.92	0.22	ppb
Antimony	121-1	0.98	1.01	0.98	0.99	1.50	ppb
Arsenic	75-2	35.91	34.48	35.09	35.16	2.04	ppb
Barium	135-1	647.39	649.69	650.39	649.16	0.24	ppb
Barium	137-1	653.17	641.60	657.74	650.83	1.28	ppb
Beryllium	9-1	5.08	5.21	5.35	5.21	2.56	ppb
Bismuth	209-1				114		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	17.25	17.69	17.94	17.63	1.98	ppb
Cadmium	106-1	17.01	17.82	15.44	16.76	7.22	ppb
Cadmium	111-1	17.56	17.82	18.20	17.86	1.79	ppb
Calcium	43-1	228396.67	227306.08	234860.97	230187.90	1.77	ppb
Calcium	44-1	232773.38	229774.36	237350.52	233299.42	1.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	67.50	67.22	67.10	67.27	0.31	ppb
Cobalt	59-2	24.55	24.38	24.56	24.50	0.40	ppb
Copper	63-2	213.87	213.82	213.43	213.70	0.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	53614.63	53781.17	52577.72	53324.51	1.22	ppb
Iron	57-2	53710.26	53412.02	52898.10	53340.13	0.77	ppb
Iron	54-2	53035.84	52627.38	52466.60	52709.94	0.56	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-20 Instrumnet Name : P7
Client Sample ID : MH2GL9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:31:39 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	843.44	832.55	863.95	846.65	1.88	ppb
Lead	207-1	837.88	829.09	844.46	837.14	0.92	ppb
Lead	208-1	837.69	840.61	851.01	843.10	0.83	ppb
Lithium	6-1				113		%
Magnesium	24-2	31783.06	31857.80	31370.06	31670.31	0.83	ppb
Manganese	55-2	2164.14	2160.87	2134.90	2153.30	0.74	ppb
Molybdenum	94-1	6.22	6.43	6.35	6.33	1.65	ppb
Molybdenum	95-1	3.56	3.51	3.41	3.49	2.15	ppb
Molybdenum	96-1	4.25	4.29	4.16	4.23	1.59	ppb
Molybdenum	97-1	3.41	3.43	3.41	3.42	0.35	ppb
Molybdenum	98-1	3.43	3.44	3.41	3.43	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	113.49	113.99	113.78	113.76	0.22	ppb
Phosphorus	31-2	5316.31	5177.92	5245.28	5246.50	1.32	ppb
Potassium	39-2	5770.49	5812.65	5830.89	5804.68	0.53	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	2.92	2.61	2.88	2.80	6.12	ppb
Selenium	77-2	32.12	23.12	32.03	29.09	17.78	ppb
Selenium	78-2	6.41	6.59	5.25	6.08	11.94	ppb
Silicon	28-1	4526.42	4559.96	4642.02	4576.13	1.30	ppb
Silver	107-1	2.37	2.37	2.45	2.39	1.84	ppb
Silver	109-1	2.34	2.37	2.34	2.35	0.76	ppb
Sodium	23-2	723.57	724.38	723.58	723.84	0.06	ppb
Strontium	86-1	809.14	813.30	815.67	812.71	0.41	ppb
Strontium	88-1	791.18	804.68	799.92	798.59	0.86	ppb
Sulfur	34-1	13938.73	14070.49	14424.08	14144.44	1.77	ppb
Terbium	159-1				115		%
Terbium	159-2				108		%
Thallium	203-1	1.56	1.50	1.61	1.56	3.43	ppb
Thallium	205-1	1.53	1.49	1.56	1.53	2.36	ppb
Tin	118-1	7.94	8.03	7.97	7.98	0.61	ppb
Titanium	47-1	102.27	102.95	106.25	103.83	2.05	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-20

Instrumnet Name :

P7

Client Sample ID :

MH2GL9

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:31:39

DataFile Name :

047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.15	7.01	7.30	7.15	2.00	ppb
Vanadium	51-2	133.66	134.75	133.40	133.94	0.54	ppb
Yttrium	89-1				120		%
Yttrium	89-2				114		%
Zinc	66-2	2076.83	2099.96	2067.14	2081.31	0.81	ppb
Zirconium	90-1	2.10	2.12	2.08	2.10	0.92	ppb
Zirconium	91-1	2.07	2.19	2.09	2.12	3.14	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-21 Instrumnet Name : P7
Client Sample ID : MH2GM0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:34:40 DataFile Name : 048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10092.27	10091.84	10108.50	10097.54	0.09	ppb
Antimony	121-1	1.47	1.50	1.48	1.48	1.07	ppb
Arsenic	75-2	25.74	25.73	25.34	25.61	0.88	ppb
Barium	135-1	613.72	625.01	606.26	615.00	1.54	ppb
Barium	137-1	624.87	622.29	617.66	621.61	0.59	ppb
Beryllium	9-1	5.52	5.45	5.53	5.50	0.73	ppb
Bismuth	209-1				113		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	21.76	22.60	20.61	21.66	4.62	ppb
Cadmium	106-1	22.35	20.73	21.31	21.46	3.83	ppb
Cadmium	111-1	21.86	21.81	21.76	21.81	0.24	ppb
Calcium	43-1	276280.84	279873.07	277928.26	278027.39	0.65	ppb
Calcium	44-1	279411.79	282029.70	279284.22	280241.90	0.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.95	29.91	30.55	30.14	1.20	ppb
Cobalt	59-2	24.95	24.98	25.13	25.02	0.39	ppb
Copper	63-2	225.78	226.79	229.32	227.30	0.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	35682.56	35767.97	35608.21	35686.25	0.22	ppb
Iron	57-2	36651.22	36885.91	36913.90	36817.01	0.39	ppb
Iron	54-2	35447.62	35659.96	35652.76	35586.78	0.34	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-21 Instrumnet Name : P7
Client Sample ID : MH2GM0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:34:40 DataFile Name : 048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1256.99	1287.59	1284.80	1276.46	1.33	ppb
Lead	207-1	1263.98	1279.68	1279.47	1274.38	0.71	ppb
Lead	208-1	1263.71	1262.07	1276.10	1267.29	0.61	ppb
Lithium	6-1				112		%
Magnesium	24-2	19935.33	20135.27	20233.82	20101.47	0.76	ppb
Manganese	55-2	1855.20	1865.62	1874.26	1865.03	0.51	ppb
Molybdenum	94-1	3.37	3.40	3.45	3.41	1.31	ppb
Molybdenum	95-1	1.40	1.39	1.36	1.38	1.42	ppb
Molybdenum	96-1	1.91	1.90	1.95	1.92	1.31	ppb
Molybdenum	97-1	1.33	1.39	1.35	1.36	2.31	ppb
Molybdenum	98-1	1.32	1.34	1.37	1.34	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	145.78	144.75	146.23	145.58	0.52	ppb
Phosphorus	31-2	4316.62	4364.43	4404.61	4361.89	1.01	ppb
Potassium	39-2	4166.81	4140.20	4234.30	4180.43	1.16	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	2.40	2.77	3.01	2.72	11.42	ppb
Selenium	77-2	26.25	25.79	28.81	26.95	6.04	ppb
Selenium	78-2	6.05	5.89	6.03	5.99	1.48	ppb
Silicon	28-1	3646.69	3692.26	3700.69	3679.88	0.79	ppb
Silver	107-1	3.37	3.45	3.44	3.42	1.24	ppb
Silver	109-1	3.37	3.40	3.44	3.40	1.04	ppb
Sodium	23-2	740.32	737.91	743.50	740.58	0.38	ppb
Strontium	86-1	980.35	999.06	996.85	992.09	1.03	ppb
Strontium	88-1	977.41	981.31	985.07	981.26	0.39	ppb
Sulfur	34-1	8916.41	9025.46	9067.99	9003.29	0.87	ppb
Terbium	159-1				115		%
Terbium	159-2				108		%
Thallium	203-1	1.37	1.40	1.36	1.38	1.69	ppb
Thallium	205-1	1.38	1.39	1.39	1.39	0.57	ppb
Tin	118-1	1.98	1.93	1.98	1.96	1.61	ppb
Titanium	47-1	41.32	42.16	42.48	41.99	1.42	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-21

Instrumnet Name :

P7

Client Sample ID :

MH2GM0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:34:40

DataFile Name :

048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.84	8.85	8.93	8.87	0.55	ppb
Vanadium	51-2	117.82	118.51	118.58	118.31	0.35	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	2850.42	2913.21	2900.23	2887.95	1.15	ppb
Zirconium	90-1	1.35	1.38	1.39	1.37	1.64	ppb
Zirconium	91-1	1.32	1.35	1.45	1.38	5.05	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:37:41 DataFile Name : 049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47052.51	46701.59	47135.24	46963.11	0.49	ppb
Antimony	121-1	483.23	487.85	489.49	486.86	0.67	ppb
Arsenic	75-2	508.22	508.50	513.29	510.00	0.56	ppb
Barium	135-1	2438.78	2437.91	2444.17	2440.29	0.14	ppb
Barium	137-1	2464.67	2457.38	2473.92	2465.32	0.34	ppb
Beryllium	9-1	507.17	516.42	522.59	515.40	1.51	ppb
Bismuth	209-1				104		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	498.30	491.00	499.29	496.19	0.91	ppb
Cadmium	106-1	492.69	494.60	497.80	495.03	0.52	ppb
Cadmium	111-1	457.65	465.11	464.09	462.29	0.87	ppb
Calcium	43-1	246461.32	246351.19	248374.79	247062.43	0.46	ppb
Calcium	44-1	243155.26	245437.96	246917.94	245170.39	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.89	504.35	510.91	504.05	1.39	ppb
Cobalt	59-2	511.52	514.55	510.15	512.07	0.44	ppb
Copper	63-2	5148.84	5068.53	5044.85	5087.41	1.07	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				105		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	56-2	126875.55	125741.70	126993.97	126537.08	0.55	ppb
Iron	57-2	125514.72	125235.65	126244.32	125664.90	0.41	ppb
Iron	54-2	125090.11	125330.93	125675.34	125365.46	0.23	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:37:41 DataFile Name : 049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2555.41	2514.34	2534.48	2534.74	0.81	ppb
Lead	207-1	2551.75	2498.48	2517.45	2522.56	1.07	ppb
Lead	208-1	2557.86	2525.97	2530.35	2538.06	0.68	ppb
Lithium	6-1				103		%
Magnesium	24-2	253496.52	250979.79	254556.78	253011.03	0.73	ppb
Manganese	55-2	4966.67	4954.41	4968.44	4963.17	0.15	ppb
Molybdenum	94-1	5037.08	5076.90	5065.31	5059.76	0.40	ppb
Molybdenum	95-1	5009.00	5049.11	4991.70	5016.60	0.59	ppb
Molybdenum	96-1	4978.38	5039.20	5049.81	5022.46	0.77	ppb
Molybdenum	97-1	4990.98	5075.68	5097.79	5054.82	1.12	ppb
Molybdenum	98-1	4992.66	5037.18	5075.74	5035.19	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	483.49	479.67	483.13	482.10	0.44	ppb
Phosphorus	31-2	9864.98	9801.35	9918.09	9861.47	0.59	ppb
Potassium	39-2	119847.88	117943.89	120386.69	119392.82	1.07	ppb
Rhodium	103-1				91		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	493.88	501.71	505.50	500.36	1.18	ppb
Selenium	77-2	499.67	515.70	509.58	508.32	1.59	ppb
Selenium	78-2	499.94	505.82	507.74	504.50	0.81	ppb
Silicon	28-1	2858.99	2891.07	2891.12	2880.39	0.64	ppb
Silver	107-1	487.31	489.68	489.28	488.76	0.26	ppb
Silver	109-1	487.70	485.43	489.61	487.58	0.43	ppb
Sodium	23-2	239269.97	239504.57	239392.71	239389.08	0.05	ppb
Strontium	86-1	12403.17	12581.50	12714.51	12566.39	1.24	ppb
Strontium	88-1	12390.12	12524.77	12617.47	12510.79	0.91	ppb
Sulfur	34-1	9625.19	9572.58	9564.71	9587.49	0.34	ppb
Terbium	159-1				110		%
Terbium	159-2				105		%
Thallium	203-1	514.03	501.68	515.09	510.27	1.46	ppb
Thallium	205-1	504.24	504.45	509.20	505.96	0.55	ppb
Tin	118-1	477.49	481.79	474.73	478.00	0.74	ppb
Titanium	47-1	4954.07	5056.14	5027.70	5012.64	1.05	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV002

Instrumnet Name :

P7

Client Sample ID :

CCV002

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:37:41

DataFile Name :

049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	516.92	515.43	523.65	518.67	0.84	ppb
Vanadium	51-2	512.65	509.71	508.25	510.20	0.44	ppb
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	5040.07	5008.47	5103.38	5050.64	0.96	ppb
Zirconium	90-1	513.88	516.09	519.23	516.40	0.52	ppb
Zirconium	91-1	513.59	513.03	517.41	514.68	0.46	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:40:26 DataFile Name : 050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.31	5.34	5.56	5.40	2.49	ppb
Antimony	121-1	0.32	0.31	0.31	0.31	1.61	ppb
Arsenic	75-2	0.05	0.03	0.06	0.05	38.95	ppb
Barium	135-1	0.24	0.25	0.24	0.24	3.02	ppb
Barium	137-1	0.28	0.24	0.24	0.25	9.21	ppb
Beryllium	9-1	0.05	0.04	0.03	0.04	35.04	ppb
Bismuth	209-1				118		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.04	0.08	0.05	50.78	ppb
Cadmium	106-1	-0.87	-2.21	-1.83	-1.64		ppb
Cadmium	111-1	0.04	0.05	0.03	0.04	19.90	ppb
Calcium	43-1	65.85	63.99	59.09	62.97	5.55	ppb
Calcium	44-1	62.40	57.51	58.15	59.35	4.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.04	0.05	0.05	9.84	ppb
Cobalt	59-2	0.03	0.03	0.03	0.03	8.96	ppb
Copper	63-2	0.57	0.55	0.65	0.59	8.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				99		%
Iron	56-2	15.94	15.33	17.19	16.15	5.85	ppb
Iron	57-2	13.67	14.67	16.46	14.93	9.46	ppb
Iron	54-2	15.46	15.57	18.40	16.48	10.10	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:40:26 DataFile Name : 050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.59	0.57	0.56	0.57	2.49	ppb
Lead	207-1	0.58	0.55	0.56	0.56	2.64	ppb
Lead	208-1	0.58	0.55	0.55	0.56	2.42	ppb
Lithium	6-1				108		%
Magnesium	24-2	15.59	15.10	16.07	15.59	3.10	ppb
Manganese	55-2	0.61	0.61	0.64	0.62	2.98	ppb
Molybdenum	94-1	0.42	0.38	0.45	0.41	8.31	ppb
Molybdenum	95-1	0.39	0.35	0.33	0.35	8.37	ppb
Molybdenum	96-1	0.37	0.34	0.34	0.35	3.68	ppb
Molybdenum	97-1	0.41	0.34	0.36	0.37	9.13	ppb
Molybdenum	98-1	0.37	0.35	0.32	0.35	6.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.06	0.04	0.04	34.94	ppb
Phosphorus	31-2	-14.02	-14.38	-13.64	-14.01		ppb
Potassium	39-2	18.98	17.72	28.19	21.63	26.43	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	-0.06	-0.44	-0.40	-0.30		ppb
Selenium	77-2	0.27	0.28	-0.05	0.17	115.24	ppb
Selenium	78-2	-1.04	-1.58	0.04	-0.86		ppb
Silicon	28-1	-2.43	-2.74	-2.68	-2.62		ppb
Silver	107-1	0.08	0.08	0.05	0.07	20.73	ppb
Silver	109-1	0.09	0.07	0.06	0.07	19.14	ppb
Sodium	23-2	53.86	52.03	59.48	55.12	7.04	ppb
Strontium	86-1	0.78	0.71	0.70	0.73	6.11	ppb
Strontium	88-1	0.80	0.74	0.71	0.75	6.20	ppb
Sulfur	34-1	-369.48	-368.65	-354.86	-364.33		ppb
Terbium	159-1				112		%
Terbium	159-2				105		%
Thallium	203-1	0.07	0.07	0.05	0.07	15.37	ppb
Thallium	205-1	0.07	0.06	0.05	0.06	15.60	ppb
Tin	118-1	0.05	0.04	0.06	0.05	19.08	ppb
Titanium	47-1	0.34	0.31	0.30	0.32	6.84	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCB002

Instrumnet Name :

P7

Client Sample ID :

CCB002

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:40:26

DataFile Name :

050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	8.71	ppb
Vanadium	51-2	0.04	0.04	0.05	0.04	10.32	ppb
Yttrium	89-1				102		%
Yttrium	89-2				96		%
Zinc	66-2	0.64	0.63	0.73	0.67	7.95	ppb
Zirconium	90-1	0.08	0.07	0.08	0.08	6.23	ppb
Zirconium	91-1	0.08	0.08	0.09	0.09	5.81	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-04 Instrumnet Name : P7
Client Sample ID : MH2GK3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:43:41 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14059.29	14865.01	12876.93	13933.74	7.18	ppb
Antimony	121-1	2.57	2.56	2.60	2.58	0.85	ppb
Arsenic	75-2	58.37	60.68	54.82	57.96	5.09	ppb
Barium	135-1	904.07	918.04	905.74	909.28	0.84	ppb
Barium	137-1	902.12	897.15	906.35	901.87	0.51	ppb
Beryllium	9-1	4.47	4.45	4.53	4.48	1.00	ppb
Bismuth	209-1				116		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	15.02	16.28	16.14	15.82	4.35	ppb
Cadmium	106-1	14.72	14.68	13.51	14.30	4.78	ppb
Cadmium	111-1	14.40	14.54	14.62	14.52	0.79	ppb
Calcium	43-1	143187.06	141888.93	145367.38	143481.12	1.23	ppb
Calcium	44-1	144252.07	145065.27	148056.76	145791.37	1.37	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	83.03	88.98	76.55	82.86	7.50	ppb
Cobalt	59-2	18.40	19.68	16.99	18.36	7.33	ppb
Copper	63-2	222.42	239.33	206.17	222.64	7.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				112		%
Indium	115-1				109		%
Indium	115-2				106		%
Iron	56-2	36237.45	39013.33	33520.97	36257.25	7.57	ppb
Iron	57-2	36232.55	39210.21	33636.09	36359.62	7.67	ppb
Iron	54-2	36187.30	38384.35	33023.22	35864.96	7.51	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-04 Instrumnet Name : P7
Client Sample ID : MH2GK3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:43:41 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	813.81	806.07	819.06	812.98	0.80	ppb
Lead	207-1	788.44	790.39	804.13	794.32	1.08	ppb
Lead	208-1	790.30	793.88	802.93	795.70	0.82	ppb
Lithium	6-1				114		%
Magnesium	24-2	20262.31	21724.51	18567.31	20184.71	7.83	ppb
Manganese	55-2	1893.25	2024.60	1749.38	1889.08	7.29	ppb
Molybdenum	94-1	7.66	7.74	7.76	7.72	0.66	ppb
Molybdenum	95-1	3.51	3.50	3.50	3.51	0.11	ppb
Molybdenum	96-1	4.15	4.37	4.37	4.30	2.95	ppb
Molybdenum	97-1	3.45	3.55	3.62	3.54	2.37	ppb
Molybdenum	98-1	3.51	3.52	3.54	3.53	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	82.98	88.57	76.71	82.75	7.17	ppb
Phosphorus	31-2	6884.12	7402.70	6330.29	6872.37	7.80	ppb
Potassium	39-2	8211.22	8758.45	7539.16	8169.61	7.48	ppb
Rhodium	103-1				105		%
Rhodium	103-2				106		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	5.34	4.89	5.31	5.18	4.86	ppb
Selenium	77-2	23.60	24.12	24.27	23.99	1.47	ppb
Selenium	78-2	7.47	7.38	7.49	7.45	0.74	ppb
Silicon	28-1	4766.73	4797.94	4859.02	4807.89	0.98	ppb
Silver	107-1	2.67	2.66	2.68	2.67	0.55	ppb
Silver	109-1	2.68	2.64	2.63	2.65	1.07	ppb
Sodium	23-2	946.96	1026.72	880.61	951.43	7.69	ppb
Strontium	86-1	743.42	753.77	754.02	750.40	0.81	ppb
Strontium	88-1	738.97	746.52	745.19	743.56	0.54	ppb
Sulfur	34-1	4461.85	4412.01	4634.01	4502.62	2.59	ppb
Terbium	159-1				118		%
Terbium	159-2				112		%
Thallium	203-1	1.32	1.31	1.36	1.33	2.10	ppb
Thallium	205-1	1.33	1.30	1.35	1.33	2.01	ppb
Tin	118-1	19.09	19.23	19.46	19.26	0.97	ppb
Titanium	47-1	118.57	121.04	121.81	120.47	1.40	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-04

Instrumnet Name :

P7

Client Sample ID :

MH2GK3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:43:41

DataFile Name :

051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.59	6.56	6.74	6.63	1.44	ppb
Vanadium	51-2	94.86	100.79	87.54	94.40	7.03	ppb
Yttrium	89-1				120		%
Yttrium	89-2				117		%
Zinc	66-2	2087.43	2221.19	1896.51	2068.38	7.89	ppb
Zirconium	90-1	2.93	2.98	3.04	2.99	1.80	ppb
Zirconium	91-1	2.93	3.00	3.10	3.01	2.91	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-05 Instrumnet Name : P7
Client Sample ID : MH2GK4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:46:41 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15691.65	15844.77	15759.74	15765.39	0.49	ppb
Antimony	121-1	3.30	3.40	3.46	3.38	2.38	ppb
Arsenic	75-2	129.98	129.18	127.78	128.98	0.86	ppb
Barium	135-1	1111.59	1131.39	1128.73	1123.90	0.96	ppb
Barium	137-1	1106.20	1115.47	1135.71	1119.13	1.35	ppb
Beryllium	9-1	5.54	5.72	5.45	5.57	2.45	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	21.70	20.89	22.06	21.55	2.79	ppb
Cadmium	106-1	20.86	21.70	21.61	21.39	2.16	ppb
Cadmium	111-1	20.94	21.94	21.98	21.62	2.72	ppb
Calcium	43-1	193764.67	194730.95	195766.71	194754.11	0.51	ppb
Calcium	44-1	195631.72	195398.39	195735.04	195588.39	0.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.37	49.73	49.95	49.69	0.59	ppb
Cobalt	59-2	23.78	23.78	23.92	23.83	0.33	ppb
Copper	63-2	296.58	298.94	296.85	297.46	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				111		%
Indium	115-1				109		%
Indium	115-2				106		%
Iron	56-2	37380.77	36995.50	37451.32	37275.86	0.66	ppb
Iron	57-2	37933.11	37542.48	37968.62	37814.73	0.63	ppb
Iron	54-2	37564.88	36784.18	37421.83	37256.97	1.12	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-05 Instrumnet Name : P7
Client Sample ID : MH2GK4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:46:41 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1238.92	1252.12	1228.96	1240.00	0.94	ppb
Lead	207-1	1219.36	1226.52	1194.10	1213.33	1.40	ppb
Lead	208-1	1219.61	1225.22	1218.31	1221.05	0.30	ppb
Lithium	6-1				113		%
Magnesium	24-2	20324.36	20133.48	20322.35	20260.06	0.54	ppb
Manganese	55-2	1690.84	1678.22	1684.67	1684.58	0.37	ppb
Molybdenum	94-1	6.33	6.25	6.62	6.40	3.02	ppb
Molybdenum	95-1	2.44	2.45	2.58	2.49	3.07	ppb
Molybdenum	96-1	3.20	3.25	3.29	3.25	1.43	ppb
Molybdenum	97-1	2.48	2.43	2.49	2.47	1.29	ppb
Molybdenum	98-1	2.41	2.48	2.49	2.46	1.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	124.14	124.57	124.47	124.39	0.18	ppb
Phosphorus	31-2	4745.43	4741.42	4760.46	4749.10	0.21	ppb
Potassium	39-2	5126.02	5044.18	5043.56	5071.25	0.94	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				110		%
Scandium	45-2				107		%
Selenium	82-1	3.66	3.85	3.55	3.69	4.20	ppb
Selenium	77-2	29.78	27.81	28.35	28.65	3.56	ppb
Selenium	78-2	6.49	5.80	6.16	6.15	5.64	ppb
Silicon	28-1	4787.34	4822.14	4810.85	4806.78	0.37	ppb
Silver	107-1	3.85	4.02	4.07	3.98	2.97	ppb
Silver	109-1	3.90	3.99	4.06	3.99	2.07	ppb
Sodium	23-2	1046.61	1051.61	1055.94	1051.39	0.44	ppb
Strontium	86-1	878.51	877.41	888.97	881.63	0.72	ppb
Strontium	88-1	869.40	868.15	888.19	875.25	1.28	ppb
Sulfur	34-1	3163.32	3167.59	3129.35	3153.42	0.66	ppb
Terbium	159-1				116		%
Terbium	159-2				111		%
Thallium	203-1	1.63	1.70	1.59	1.64	3.53	ppb
Thallium	205-1	1.63	1.66	1.61	1.64	1.68	ppb
Tin	118-1	8.21	8.49	8.50	8.40	1.95	ppb
Titanium	47-1	98.89	97.35	97.15	97.79	0.97	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-05

Instrumnet Name :

P7

Client Sample ID :

MH2GK4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:46:41

DataFile Name :

052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.60	6.63	6.53	6.59	0.77	ppb
Vanadium	51-2	106.10	105.22	105.61	105.65	0.42	ppb
Yttrium	89-1				123		%
Yttrium	89-2				118		%
Zinc	66-2	2322.65	2336.71	2353.56	2337.64	0.66	ppb
Zirconium	90-1	2.57	2.62	2.63	2.61	1.15	ppb
Zirconium	91-1	2.63	2.64	2.69	2.65	1.22	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-06 Instrumnet Name : P7
Client Sample ID : MH2GK5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:49:40 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16171.90	16046.42	15988.58	16068.97	0.58	ppb
Antimony	121-1	2.82	2.76	2.76	2.78	1.17	ppb
Arsenic	75-2	52.57	52.66	53.13	52.79	0.56	ppb
Barium	135-1	1202.78	1159.81	1191.53	1184.71	1.88	ppb
Barium	137-1	1227.24	1166.01	1184.40	1192.55	2.63	ppb
Beryllium	9-1	6.75	6.96	6.77	6.83	1.74	ppb
Bismuth	209-1				113		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.95	24.82	24.44	24.74	1.06	ppb
Cadmium	106-1	25.53	23.51	24.90	24.65	4.19	ppb
Cadmium	111-1	25.79	24.92	25.45	25.39	1.72	ppb
Calcium	43-1	250902.56	246290.91	244561.81	247251.76	1.33	ppb
Calcium	44-1	254729.51	247721.29	247903.48	250118.09	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.62	40.69	40.86	40.72	0.30	ppb
Cobalt	59-2	26.35	26.49	26.52	26.46	0.34	ppb
Copper	63-2	296.91	298.13	294.36	296.46	0.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				111		%
Indium	115-1				108		%
Indium	115-2				104		%
Iron	56-2	41423.59	41366.85	41175.31	41321.92	0.31	ppb
Iron	57-2	42206.21	42384.56	41774.56	42121.78	0.74	ppb
Iron	54-2	41361.76	41156.44	41347.20	41288.47	0.28	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-06 Instrumnet Name : P7
Client Sample ID : MH2GK5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:49:40 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1500.39	1488.75	1501.00	1496.71	0.46	ppb
Lead	207-1	1456.73	1465.80	1467.61	1463.38	0.40	ppb
Lead	208-1	1453.20	1470.45	1486.39	1470.01	1.13	ppb
Lithium	6-1				114		%
Magnesium	24-2	20796.45	20793.57	20801.42	20797.15	0.02	ppb
Manganese	55-2	1721.83	1728.96	1723.69	1724.83	0.21	ppb
Molybdenum	94-1	8.46	8.42	8.33	8.40	0.75	ppb
Molybdenum	95-1	2.74	2.71	2.71	2.72	0.61	ppb
Molybdenum	96-1	3.70	3.74	3.69	3.71	0.69	ppb
Molybdenum	97-1	2.74	2.68	2.68	2.70	1.39	ppb
Molybdenum	98-1	2.75	2.70	2.67	2.71	1.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	186.67	185.78	185.62	186.02	0.30	ppb
Phosphorus	31-2	4335.96	4227.32	4246.50	4269.93	1.36	ppb
Potassium	39-2	4447.09	4466.16	4538.60	4483.95	1.08	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	3.46	3.35	3.68	3.50	4.78	ppb
Selenium	77-2	31.72	28.66	27.49	29.29	7.47	ppb
Selenium	78-2	7.53	6.97	6.66	7.05	6.27	ppb
Silicon	28-1	4073.42	4033.96	4012.06	4039.81	0.77	ppb
Silver	107-1	5.06	4.85	5.07	4.99	2.39	ppb
Silver	109-1	5.04	4.82	5.00	4.95	2.39	ppb
Sodium	23-2	1444.38	1418.43	1413.04	1425.28	1.18	ppb
Strontium	86-1	1088.40	1079.92	1079.78	1082.70	0.46	ppb
Strontium	88-1	1074.11	1064.12	1057.03	1065.09	0.81	ppb
Sulfur	34-1	2339.27	2295.78	2275.07	2303.38	1.42	ppb
Terbium	159-1				116		%
Terbium	159-2				111		%
Thallium	203-1	1.79	1.77	1.79	1.78	0.74	ppb
Thallium	205-1	1.78	1.73	1.75	1.75	1.45	ppb
Tin	118-1	11.16	10.91	11.04	11.03	1.14	ppb
Titanium	47-1	113.75	113.27	114.51	113.84	0.55	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-06

Instrumnet Name :

P7

Client Sample ID :

MH2GK5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:49:40

DataFile Name :

053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.55	8.35	8.34	8.41	1.37	ppb
Vanadium	51-2	112.71	111.79	112.13	112.21	0.42	ppb
Yttrium	89-1				125		%
Yttrium	89-2				121		%
Zinc	66-2	2342.15	2381.13	2379.19	2367.49	0.93	ppb
Zirconium	90-1	3.67	3.66	3.67	3.67	0.13	ppb
Zirconium	91-1	3.64	3.81	3.70	3.72	2.28	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-07 Instrumnet Name : P7
Client Sample ID : MH2GK6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:53:04 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19211.86	17649.88	18151.59	18337.78	4.35	ppb
Antimony	121-1	2.76	2.80	2.69	2.75	2.02	ppb
Arsenic	75-2	62.25	59.02	61.70	60.99	2.83	ppb
Barium	135-1	1249.31	1290.21	1264.63	1268.05	1.63	ppb
Barium	137-1	1242.12	1278.29	1247.85	1256.08	1.55	ppb
Beryllium	9-1	7.74	7.99	7.97	7.90	1.76	ppb
Bismuth	209-1				113		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	31.52	31.14	31.70	31.45	0.90	ppb
Cadmium	106-1	29.59	30.42	30.39	30.13	1.56	ppb
Cadmium	111-1	30.99	31.66	31.74	31.46	1.32	ppb
Calcium	43-1	242699.14	246404.84	244768.81	244624.26	0.76	ppb
Calcium	44-1	245036.25	248475.88	247045.92	246852.68	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.39	36.94	38.62	38.65	4.46	ppb
Cobalt	59-2	31.20	28.27	29.36	29.61	4.99	ppb
Copper	63-2	411.73	374.74	394.20	393.56	4.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				101		%
Iron	56-2	49422.42	45113.21	46895.90	47143.84	4.59	ppb
Iron	57-2	49965.83	46352.39	47582.39	47966.87	3.83	ppb
Iron	54-2	49249.70	44795.03	46897.12	46980.62	4.74	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-07 Instrumnet Name : P7
Client Sample ID : MH2GK6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:53:04 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2241.74	2252.08	2243.85	2245.89	0.24	ppb
Lead	207-1	2192.25	2229.29	2229.10	2216.88	0.96	ppb
Lead	208-1	2223.26	2241.36	2238.87	2234.50	0.44	ppb
Lithium	6-1				111		%
Magnesium	24-2	22415.27	20505.64	21276.89	21399.26	4.49	ppb
Manganese	55-2	2214.43	2028.60	2099.40	2114.14	4.44	ppb
Molybdenum	94-1	9.26	9.34	9.22	9.27	0.69	ppb
Molybdenum	95-1	3.16	3.19	3.19	3.18	0.41	ppb
Molybdenum	96-1	4.18	4.21	4.21	4.20	0.44	ppb
Molybdenum	97-1	3.16	3.11	3.18	3.15	1.26	ppb
Molybdenum	98-1	3.12	3.12	3.14	3.13	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	193.84	174.85	183.69	184.12	5.16	ppb
Phosphorus	31-2	4553.96	4287.17	4286.42	4375.85	3.53	ppb
Potassium	39-2	4701.10	4313.59	4442.82	4485.84	4.40	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				109		%
Scandium	45-2				107		%
Selenium	82-1	3.42	3.13	3.10	3.21	5.50	ppb
Selenium	77-2	33.41	28.80	30.79	31.00	7.45	ppb
Selenium	78-2	6.27	5.30	6.32	5.97	9.64	ppb
Silicon	28-1	4138.10	4231.50	4244.32	4204.64	1.38	ppb
Silver	107-1	7.34	7.48	7.34	7.38	1.11	ppb
Silver	109-1	7.21	7.39	7.42	7.34	1.53	ppb
Sodium	23-2	2120.09	1952.25	2025.53	2032.62	4.14	ppb
Strontium	86-1	1149.11	1165.16	1154.97	1156.41	0.70	ppb
Strontium	88-1	1131.09	1154.96	1145.43	1143.83	1.05	ppb
Sulfur	34-1	2409.52	2516.07	2525.94	2483.84	2.60	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	1.66	1.64	1.69	1.66	1.44	ppb
Thallium	205-1	1.62	1.64	1.65	1.64	1.09	ppb
Tin	118-1	13.00	13.25	13.00	13.08	1.08	ppb
Titanium	47-1	137.39	140.06	140.71	139.39	1.26	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-07

Instrumnet Name :P7

Client Sample ID :MH2GK6

Dilution Factor :1

Date & Time Acquired :2024-10-31 22:53:04

DataFile Name :054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.01	9.20	9.11	9.11	1.01	ppb
Vanadium	51-2	126.50	116.10	119.95	120.85	4.35	ppb
Yttrium	89-1				124		%
Yttrium	89-2				121		%
Zinc	66-2	3021.61	2778.24	2896.96	2898.93	4.20	ppb
Zirconium	90-1	3.98	4.09	4.01	4.02	1.42	ppb
Zirconium	91-1	3.96	4.06	4.07	4.03	1.58	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-04 Instrumnet Name : P7
Client Sample ID : MH2GM1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:56:03 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14833.84	15048.44	15014.33	14965.54	0.77	ppb
Antimony	121-1	3.89	3.99	3.94	3.94	1.20	ppb
Arsenic	75-2	59.15	59.59	59.30	59.35	0.38	ppb
Barium	135-1	860.56	849.88	867.76	859.40	1.05	ppb
Barium	137-1	856.11	865.38	870.94	864.14	0.87	ppb
Beryllium	9-1	7.69	7.74	7.61	7.68	0.86	ppb
Bismuth	209-1				111		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	25.83	26.18	26.95	26.32	2.18	ppb
Cadmium	106-1	25.49	25.29	26.61	25.79	2.76	ppb
Cadmium	111-1	24.54	24.53	24.93	24.67	0.93	ppb
Calcium	43-1	347500.82	351357.70	353212.31	350690.27	0.83	ppb
Calcium	44-1	351322.15	352426.75	356936.87	353561.92	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.21	53.48	52.83	52.84	1.21	ppb
Cobalt	59-2	35.62	36.13	35.83	35.86	0.71	ppb
Copper	63-2	463.02	468.37	471.78	467.73	0.94	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	85767.29	87273.13	86231.18	86423.86	0.89	ppb
Iron	57-2	85676.00	87514.81	87093.60	86761.47	1.11	ppb
Iron	54-2	85421.19	86720.60	85567.58	85903.13	0.83	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-04 Instrumnet Name : P7
Client Sample ID : MH2GM1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:56:03 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1808.00	1865.45	1853.29	1842.24	1.64	ppb
Lead	207-1	1856.91	1887.71	1891.24	1878.62	1.01	ppb
Lead	208-1	1843.14	1855.11	1872.83	1857.03	0.80	ppb
Lithium	6-1				107		%
Magnesium	24-2	23594.00	24192.99	24084.41	23957.13	1.33	ppb
Manganese	55-2	3763.68	3831.09	3789.87	3794.88	0.90	ppb
Molybdenum	94-1	22.93	23.15	23.29	23.12	0.79	ppb
Molybdenum	95-1	17.25	17.19	17.37	17.27	0.55	ppb
Molybdenum	96-1	18.31	18.55	18.73	18.53	1.13	ppb
Molybdenum	97-1	17.14	17.15	17.17	17.15	0.08	ppb
Molybdenum	98-1	16.94	17.04	17.07	17.02	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	348.11	355.58	352.92	352.20	1.08	ppb
Phosphorus	31-2	4931.53	5022.31	5058.46	5004.10	1.31	ppb
Potassium	39-2	5999.25	6037.26	5991.40	6009.30	0.41	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	9.48	9.95	10.57	10.00	5.51	ppb
Selenium	77-2	39.77	36.86	40.25	38.96	4.71	ppb
Selenium	78-2	13.05	13.27	13.54	13.29	1.85	ppb
Silicon	28-1	5264.75	5339.67	5389.82	5331.41	1.18	ppb
Silver	107-1	4.95	5.03	5.10	5.03	1.54	ppb
Silver	109-1	4.88	4.98	5.00	4.96	1.27	ppb
Sodium	23-2	1117.63	1160.95	1168.52	1149.03	2.39	ppb
Strontium	86-1	1433.74	1433.83	1440.16	1435.91	0.26	ppb
Strontium	88-1	1420.19	1428.29	1433.11	1427.20	0.46	ppb
Sulfur	34-1	55565.39	55904.19	56908.60	56126.06	1.24	ppb
Terbium	159-1				113		%
Terbium	159-2				107		%
Thallium	203-1	3.73	3.82	3.77	3.77	1.15	ppb
Thallium	205-1	3.69	3.82	3.73	3.75	1.77	ppb
Tin	118-1	6.83	6.84	6.95	6.87	0.95	ppb
Titanium	47-1	115.75	117.38	119.37	117.50	1.54	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-04

Instrumnet Name :

P7

Client Sample ID :

MH2GM1

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:56:03

DataFile Name :

055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	13.81	14.13	14.03	13.99	1.19	ppb
Vanadium	51-2	179.40	181.37	179.81	180.19	0.58	ppb
Yttrium	89-1				121		%
Yttrium	89-2				117		%
Zinc	66-2	6502.45	6611.96	6550.20	6554.87	0.84	ppb
Zirconium	90-1	5.24	5.32	5.36	5.31	1.20	ppb
Zirconium	91-1	5.25	5.27	5.35	5.29	0.97	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-05 Instrumnet Name : P7
Client Sample ID : MH2GM2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:59:02 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11233.07	11214.96	11201.23	11216.42	0.14	ppb
Antimony	121-1	2.75	2.82	2.84	2.80	1.77	ppb
Arsenic	75-2	51.99	52.30	51.04	51.78	1.27	ppb
Barium	135-1	419.99	427.94	430.05	425.99	1.25	ppb
Barium	137-1	462.54	470.17	463.71	465.47	0.88	ppb
Beryllium	9-1	7.49	7.51	7.50	7.50	0.12	ppb
Bismuth	209-1				113		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	21.04	22.04	21.42	21.50	2.34	ppb
Cadmium	106-1	19.85	21.00	20.06	20.30	3.01	ppb
Cadmium	111-1	20.20	20.50	20.35	20.35	0.74	ppb
Calcium	43-1	362233.09	362682.69	364617.62	363177.80	0.35	ppb
Calcium	44-1	364190.72	368595.76	370860.05	367882.18	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.06	35.99	35.90	35.98	0.22	ppb
Cobalt	59-2	30.39	30.52	30.50	30.47	0.22	ppb
Copper	63-2	352.92	364.05	355.61	357.53	1.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	68966.68	70432.00	68864.46	69421.05	1.26	ppb
Iron	57-2	70343.93	70258.96	70376.58	70326.49	0.09	ppb
Iron	54-2	68463.65	68887.06	68233.41	68528.04	0.48	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-05 Instrumnet Name : P7
Client Sample ID : MH2GM2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:59:02 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1389.78	1402.09	1427.02	1406.30	1.35	ppb
Lead	207-1	1423.02	1413.13	1453.84	1430.00	1.48	ppb
Lead	208-1	1412.39	1395.51	1428.22	1412.04	1.16	ppb
Lithium	6-1				108		%
Magnesium	24-2	19883.43	20033.11	19648.17	19854.90	0.98	ppb
Manganese	55-2	2781.25	2801.52	2763.14	2781.97	0.69	ppb
Molybdenum	94-1	17.74	17.94	18.13	17.94	1.11	ppb
Molybdenum	95-1	14.09	13.97	14.11	14.06	0.55	ppb
Molybdenum	96-1	14.95	14.97	15.22	15.05	1.01	ppb
Molybdenum	97-1	13.79	13.99	14.24	14.01	1.62	ppb
Molybdenum	98-1	13.76	13.95	14.00	13.90	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	165.76	165.69	164.19	165.21	0.54	ppb
Phosphorus	31-2	3585.65	3584.11	3590.26	3586.68	0.09	ppb
Potassium	39-2	3573.21	3516.87	3505.40	3531.83	1.03	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	9.27	9.27	9.22	9.26	0.31	ppb
Selenium	77-2	32.30	34.67	32.72	33.23	3.81	ppb
Selenium	78-2	11.56	13.16	12.14	12.29	6.60	ppb
Silicon	28-1	4239.64	4288.42	4307.95	4278.67	0.82	ppb
Silver	107-1	4.35	4.42	4.49	4.42	1.59	ppb
Silver	109-1	4.28	4.44	4.43	4.38	1.96	ppb
Sodium	23-2	890.80	889.35	884.82	888.32	0.35	ppb
Strontium	86-1	1520.27	1496.07	1525.29	1513.88	1.03	ppb
Strontium	88-1	1491.00	1500.07	1503.87	1498.31	0.44	ppb
Sulfur	34-1	83691.82	84264.87	84898.71	84285.13	0.72	ppb
Terbium	159-1				114		%
Terbium	159-2				107		%
Thallium	203-1	2.52	2.53	2.63	2.56	2.42	ppb
Thallium	205-1	2.46	2.49	2.63	2.53	3.67	ppb
Tin	118-1	7.88	8.00	8.07	7.98	1.22	ppb
Titanium	47-1	65.90	67.87	68.25	67.34	1.87	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-05

Instrumnet Name :

P7

Client Sample ID :

MH2GM2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:59:02

DataFile Name :

056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	12.52	12.88	13.26	12.89	2.86	ppb
Vanadium	51-2	144.07	144.87	143.28	144.07	0.55	ppb
Yttrium	89-1				118		%
Yttrium	89-2				114		%
Zinc	66-2	4602.76	4686.46	4626.00	4638.41	0.93	ppb
Zirconium	90-1	3.70	3.78	3.80	3.76	1.31	ppb
Zirconium	91-1	3.68	3.78	3.83	3.76	2.01	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-06 Instrumnet Name : P7
Client Sample ID : MH2GM3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:02:02 DataFile Name : 057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14268.21	13985.76	14061.44	14105.14	1.04	ppb
Antimony	121-1	2.93	2.89	2.96	2.93	1.28	ppb
Arsenic	75-2	31.24	31.66	31.93	31.61	1.10	ppb
Barium	135-1	781.68	775.35	777.84	778.29	0.41	ppb
Barium	137-1	764.74	787.54	779.04	777.11	1.48	ppb
Beryllium	9-1	4.55	4.54	4.49	4.53	0.64	ppb
Bismuth	209-1				115		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	12.64	13.51	13.63	13.26	4.09	ppb
Cadmium	106-1	12.41	13.63	11.66	12.57	7.93	ppb
Cadmium	111-1	12.78	12.73	12.68	12.73	0.42	ppb
Calcium	43-1	163783.13	165835.93	168011.75	165876.94	1.27	ppb
Calcium	44-1	166061.11	167713.96	168679.33	167484.80	0.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	131.31	129.99	129.90	130.40	0.61	ppb
Cobalt	59-2	23.70	23.39	23.51	23.53	0.67	ppb
Copper	63-2	180.21	179.31	180.74	180.08	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	45781.54	46047.37	45722.59	45850.50	0.38	ppb
Iron	57-2	46318.17	45691.39	46182.37	46063.98	0.72	ppb
Iron	54-2	45588.64	45387.20	45757.99	45577.94	0.41	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-06 Instrumnet Name : P7
Client Sample ID : MH2GM3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:02:02 DataFile Name : 057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	693.69	680.52	709.66	694.63	2.10	ppb
Lead	207-1	646.09	660.32	677.23	661.22	2.36	ppb
Lead	208-1	666.23	671.20	685.18	674.20	1.46	ppb
Lithium	6-1				110		%
Magnesium	24-2	34330.08	34178.36	33768.05	34092.16	0.85	ppb
Manganese	55-2	1969.08	1962.93	1958.54	1963.52	0.27	ppb
Molybdenum	94-1	7.43	7.51	7.66	7.53	1.59	ppb
Molybdenum	95-1	4.97	5.02	5.07	5.02	1.01	ppb
Molybdenum	96-1	5.54	5.78	5.81	5.71	2.61	ppb
Molybdenum	97-1	5.01	5.09	5.07	5.06	0.78	ppb
Molybdenum	98-1	4.86	5.03	5.03	4.97	1.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	108.58	107.29	107.24	107.70	0.71	ppb
Phosphorus	31-2	4950.37	4934.27	4941.71	4942.12	0.16	ppb
Potassium	39-2	5858.16	5805.53	5803.66	5822.45	0.53	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	4.08	4.57	4.54	4.40	6.32	ppb
Selenium	77-2	26.06	25.39	27.03	26.16	3.14	ppb
Selenium	78-2	7.53	6.67	6.79	7.00	6.60	ppb
Silicon	28-1	5437.90	5418.71	5530.70	5462.44	1.10	ppb
Silver	107-1	1.59	1.61	1.62	1.61	1.11	ppb
Silver	109-1	1.58	1.60	1.58	1.59	0.85	ppb
Sodium	23-2	1821.29	1831.62	1793.04	1815.31	1.10	ppb
Strontium	86-1	602.19	621.57	623.19	615.65	1.90	ppb
Strontium	88-1	599.00	608.24	610.18	605.81	0.99	ppb
Sulfur	34-1	3347.81	3410.11	3461.86	3406.59	1.68	ppb
Terbium	159-1				115		%
Terbium	159-2				108		%
Thallium	203-1	1.59	1.56	1.64	1.59	2.52	ppb
Thallium	205-1	1.58	1.57	1.60	1.59	0.92	ppb
Tin	118-1	6.13	6.19	6.24	6.18	0.87	ppb
Titanium	47-1	105.72	106.48	108.47	106.89	1.33	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-06

Instrumnet Name :

P7

Client Sample ID :

MH2GM3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:02:02

DataFile Name :

057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.13	6.20	6.28	6.21	1.17	ppb
Vanadium	51-2	112.01	112.19	110.94	111.71	0.61	ppb
Yttrium	89-1				116		%
Yttrium	89-2				113		%
Zinc	66-2	1806.09	1785.47	1774.05	1788.53	0.91	ppb
Zirconium	90-1	2.01	2.04	2.05	2.03	0.96	ppb
Zirconium	91-1	2.03	2.07	2.11	2.07	2.09	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-07 Instrumnet Name : P7
Client Sample ID : MH2GM4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:05:02 DataFile Name : 058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18606.42	17823.33	17468.10	17965.95	3.24	ppb
Antimony	121-1	3.64	3.68	3.79	3.70	2.08	ppb
Arsenic	75-2	44.69	43.26	42.43	43.46	2.63	ppb
Barium	135-1	720.09	721.83	733.82	725.25	1.03	ppb
Barium	137-1	717.32	726.97	735.63	726.64	1.26	ppb
Beryllium	9-1	6.79	6.81	6.85	6.82	0.49	ppb
Bismuth	209-1				113		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.84	20.65	19.89	20.46	2.47	ppb
Cadmium	106-1	18.80	19.16	20.67	19.54	5.06	ppb
Cadmium	111-1	20.57	20.91	21.55	21.01	2.37	ppb
Calcium	43-1	289488.97	289504.37	290380.97	289791.44	0.18	ppb
Calcium	44-1	290338.92	289961.07	291040.43	290446.81	0.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90.86	87.21	85.37	87.81	3.18	ppb
Cobalt	59-2	36.96	35.16	34.41	35.51	3.69	ppb
Copper	63-2	226.14	215.36	209.13	216.88	3.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				105		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	56-2	64476.20	62004.02	60080.77	62187.00	3.54	ppb
Iron	57-2	65188.59	61982.74	60494.16	62555.16	3.84	ppb
Iron	54-2	63997.22	61550.03	59786.97	61778.07	3.42	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-07 Instrumnet Name : P7
Client Sample ID : MH2GM4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:05:02 DataFile Name : 058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	859.91	831.97	853.49	848.45	1.72	ppb
Lead	207-1	827.14	797.42	807.40	810.65	1.87	ppb
Lead	208-1	835.84	816.96	821.85	824.88	1.19	ppb
Lithium	6-1				109		%
Magnesium	24-2	29012.86	27656.73	27170.89	27946.83	3.42	ppb
Manganese	55-2	2133.94	2056.48	1992.49	2060.97	3.44	ppb
Molybdenum	94-1	11.67	11.63	11.97	11.76	1.60	ppb
Molybdenum	95-1	8.37	8.37	8.59	8.44	1.53	ppb
Molybdenum	96-1	9.16	9.24	9.40	9.27	1.31	ppb
Molybdenum	97-1	8.49	8.43	8.65	8.52	1.30	ppb
Molybdenum	98-1	8.51	8.36	8.44	8.43	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	163.97	156.18	152.40	157.52	3.75	ppb
Phosphorus	31-2	4620.89	4339.82	4242.48	4401.07	4.46	ppb
Potassium	39-2	5239.69	5016.71	4900.55	5052.32	3.41	ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	6.14	6.10	6.80	6.35	6.21	ppb
Selenium	77-2	35.50	33.03	36.88	35.14	5.55	ppb
Selenium	78-2	10.64	10.06	9.37	10.02	6.35	ppb
Silicon	28-1	5543.77	5450.35	5457.29	5483.80	0.95	ppb
Silver	107-1	2.37	2.36	2.43	2.39	1.61	ppb
Silver	109-1	2.34	2.35	2.43	2.37	2.11	ppb
Sodium	23-2	943.01	904.85	882.98	910.28	3.34	ppb
Strontium	86-1	1011.52	996.35	1012.21	1006.70	0.89	ppb
Strontium	88-1	1009.23	993.72	1011.14	1004.70	0.95	ppb
Sulfur	34-1	40332.16	40140.66	40442.66	40305.16	0.38	ppb
Terbium	159-1				116		%
Terbium	159-2				104		%
Thallium	203-1	2.91	2.75	2.87	2.84	2.93	ppb
Thallium	205-1	2.92	2.76	2.80	2.83	3.01	ppb
Tin	118-1	5.26	5.26	5.37	5.30	1.22	ppb
Titanium	47-1	106.31	107.40	107.42	107.04	0.59	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-07

Instrumnet Name :

P7

Client Sample ID :

MH2GM4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:05:02

DataFile Name :

058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.75	9.41	9.69	9.62	1.93	ppb
Vanadium	51-2	163.37	155.96	151.89	157.07	3.71	ppb
Yttrium	89-1				120		%
Yttrium	89-2				112		%
Zinc	66-2	1924.53	1834.92	1773.57	1844.34	4.12	ppb
Zirconium	90-1	2.79	2.81	2.89	2.83	1.92	ppb
Zirconium	91-1	2.86	2.84	2.93	2.88	1.63	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-08 Instrumnet Name : P7
Client Sample ID : MH2GM5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:08:00 DataFile Name : 059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9648.02	10539.10	10938.53	10375.22	6.37	ppb
Antimony	121-1	2.52	2.72	2.68	2.64	4.00	ppb
Arsenic	75-2	45.56	50.41	50.34	48.77	5.70	ppb
Barium	135-1	326.25	335.66	337.26	333.06	1.79	ppb
Barium	137-1	361.49	373.48	368.55	367.84	1.64	ppb
Beryllium	9-1	6.28	6.56	6.47	6.44	2.21	ppb
Bismuth	209-1				113		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.94	21.61	22.83	21.80	4.40	ppb
Cadmium	106-1	19.95	20.63	20.05	20.21	1.80	ppb
Cadmium	111-1	21.85	22.65	22.74	22.41	2.18	ppb
Calcium	43-1	339290.81	346428.01	343646.19	343121.67	1.05	ppb
Calcium	44-1	341570.04	350712.59	347356.05	346546.23	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	35.53	39.48	40.25	38.42	6.59	ppb
Cobalt	59-2	29.06	32.07	32.99	31.37	6.55	ppb
Copper	63-2	153.82	170.20	176.08	166.70	6.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				112		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	61130.53	67006.09	69267.71	65801.45	6.38	ppb
Iron	57-2	62135.42	67338.17	69731.08	66401.55	5.85	ppb
Iron	54-2	59709.41	66582.66	68342.72	64878.26	7.03	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-08 Instrumnet Name : P7
Client Sample ID : MH2GM5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:08:00 DataFile Name : 059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	466.58	475.59	476.95	473.04	1.19	ppb
Lead	207-1	459.73	469.16	472.28	467.06	1.40	ppb
Lead	208-1	458.68	468.53	468.10	465.10	1.20	ppb
Lithium	6-1				107		%
Magnesium	24-2	18955.88	20951.52	21777.97	20561.79	7.06	ppb
Manganese	55-2	998.11	1091.75	1118.89	1069.58	5.92	ppb
Molybdenum	94-1	17.60	18.00	18.21	17.94	1.72	ppb
Molybdenum	95-1	16.07	16.44	16.38	16.30	1.22	ppb
Molybdenum	96-1	16.61	17.03	17.35	17.00	2.21	ppb
Molybdenum	97-1	15.95	16.30	16.67	16.31	2.20	ppb
Molybdenum	98-1	15.94	16.33	16.36	16.21	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	146.31	162.92	167.82	159.02	7.09	ppb
Phosphorus	31-2	2436.71	2719.18	2830.65	2662.18	7.63	ppb
Potassium	39-2	2771.71	3048.84	3136.43	2985.66	6.38	ppb
Rhodium	103-1				96		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	8.88	8.72	10.08	9.22	8.07	ppb
Selenium	77-2	30.93	30.49	35.73	32.39	8.98	ppb
Selenium	78-2	10.39	13.07	10.97	11.48	12.31	ppb
Silicon	28-1	3295.47	3371.86	3339.04	3335.46	1.15	ppb
Silver	107-1	2.12	2.21	2.19	2.17	2.14	ppb
Silver	109-1	2.12	2.18	2.19	2.16	1.69	ppb
Sodium	23-2	1002.29	1105.54	1137.87	1081.90	6.55	ppb
Strontium	86-1	1274.95	1279.20	1291.46	1281.87	0.67	ppb
Strontium	88-1	1255.25	1285.24	1299.42	1279.97	1.76	ppb
Sulfur	34-1	95992.42	99333.90	96853.36	97393.23	1.78	ppb
Terbium	159-1				114		%
Terbium	159-2				112		%
Thallium	203-1	3.82	3.81	3.89	3.84	1.12	ppb
Thallium	205-1	3.80	3.84	3.87	3.84	0.79	ppb
Tin	118-1	1.92	2.00	2.03	1.98	2.76	ppb
Titanium	47-1	53.63	53.67	53.89	53.73	0.26	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-08

Instrumnet Name :P7

Client Sample ID :MH2GM5

Dilution Factor :1

Date & Time Acquired :2024-10-31 23:08:00

DataFile Name :059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	11.55	11.64	11.65	11.62	0.48	ppb
Vanadium	51-2	139.77	154.43	159.24	151.15	6.71	ppb
Yttrium	89-1				117		%
Yttrium	89-2				116		%
Zinc	66-2	1284.23	1429.82	1466.28	1393.44	6.91	ppb
Zirconium	90-1	2.53	2.64	2.62	2.60	2.14	ppb
Zirconium	91-1	2.58	2.65	2.61	2.62	1.32	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-09 Instrumnet Name : P7
Client Sample ID : MH2GM6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:11:03 DataFile Name : 060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9832.68	10043.99	9863.71	9913.46	1.15	ppb
Antimony	121-1	2.60	2.63	2.64	2.63	0.75	ppb
Arsenic	75-2	52.09	52.30	53.21	52.53	1.13	ppb
Barium	135-1	280.08	282.07	284.99	282.38	0.87	ppb
Barium	137-1	312.30	311.13	315.04	312.82	0.64	ppb
Beryllium	9-1	7.43	7.54	7.59	7.52	1.05	ppb
Bismuth	209-1				114		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.29	23.74	24.70	23.91	3.01	ppb
Cadmium	106-1	23.55	24.59	23.09	23.74	3.24	ppb
Cadmium	111-1	25.50	25.10	25.45	25.35	0.87	ppb
Calcium	43-1	403971.44	404871.22	408335.49	405726.05	0.57	ppb
Calcium	44-1	407608.59	412099.31	412894.11	410867.34	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34.22	34.08	34.19	34.16	0.22	ppb
Cobalt	59-2	38.76	38.65	38.52	38.64	0.31	ppb
Copper	63-2	193.44	194.02	194.12	193.86	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	56-2	68572.00	68448.79	67158.87	68059.88	1.15	ppb
Iron	57-2	68726.53	69578.81	69132.02	69145.79	0.62	ppb
Iron	54-2	67661.16	67137.51	67129.27	67309.31	0.45	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-09 Instrumnet Name : P7
Client Sample ID : MH2GM6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:11:03 DataFile Name : 060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	583.40	578.59	570.12	577.37	1.16	ppb
Lead	207-1	575.53	577.88	579.41	577.61	0.34	ppb
Lead	208-1	573.73	577.08	569.43	573.41	0.67	ppb
Lithium	6-1				108		%
Magnesium	24-2	20493.68	20332.18	20234.82	20353.56	0.64	ppb
Manganese	55-2	1269.49	1262.71	1270.62	1267.60	0.34	ppb
Molybdenum	94-1	17.93	18.23	18.35	18.17	1.17	ppb
Molybdenum	95-1	14.98	15.05	15.20	15.08	0.73	ppb
Molybdenum	96-1	15.81	16.10	16.06	15.99	0.99	ppb
Molybdenum	97-1	15.25	15.18	15.41	15.28	0.75	ppb
Molybdenum	98-1	14.96	15.14	15.11	15.07	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	194.00	194.40	194.55	194.32	0.15	ppb
Phosphorus	31-2	2725.53	2746.28	2720.94	2730.92	0.49	ppb
Potassium	39-2	3059.24	3034.26	2999.83	3031.11	0.98	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	10.75	9.88	10.92	10.51	5.29	ppb
Selenium	77-2	33.84	38.92	35.70	36.15	7.11	ppb
Selenium	78-2	11.76	13.28	13.12	12.72	6.60	ppb
Silicon	28-1	3516.18	3530.59	3553.29	3533.35	0.53	ppb
Silver	107-1	2.57	2.59	2.60	2.59	0.45	ppb
Silver	109-1	2.56	2.52	2.64	2.57	2.49	ppb
Sodium	23-2	1165.94	1169.04	1172.96	1169.31	0.30	ppb
Strontium	86-1	1582.48	1608.98	1632.37	1607.94	1.55	ppb
Strontium	88-1	1575.45	1589.03	1601.37	1588.62	0.82	ppb
Sulfur	34-1	130079.09	131311.99	132938.77	131443.29	1.09	ppb
Terbium	159-1				116		%
Terbium	159-2				109		%
Thallium	203-1	3.86	3.79	3.77	3.81	1.24	ppb
Thallium	205-1	3.81	3.83	3.86	3.83	0.57	ppb
Tin	118-1	1.96	2.01	2.04	2.00	2.10	ppb
Titanium	47-1	43.46	43.53	43.51	43.50	0.09	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-09

Instrumnet Name :

P7

Client Sample ID :

MH2GM6

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:11:03

DataFile Name :

060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	14.33	14.15	14.27	14.25	0.63	ppb
Vanadium	51-2	157.70	157.30	157.03	157.34	0.21	ppb
Yttrium	89-1				119		%
Yttrium	89-2				114		%
Zinc	66-2	2072.04	2071.36	2069.03	2070.81	0.08	ppb
Zirconium	90-1	3.21	3.30	3.27	3.26	1.36	ppb
Zirconium	91-1	3.25	3.35	3.40	3.33	2.29	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-10 Instrumnet Name : P7
Client Sample ID : MH2GM7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:14:03 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9685.76	9845.85	9874.19	9801.93	1.04	ppb
Antimony	121-1	1.90	2.00	2.00	1.97	2.83	ppb
Arsenic	75-2	48.74	48.09	49.00	48.61	0.96	ppb
Barium	135-1	350.72	356.75	363.03	356.84	1.73	ppb
Barium	137-1	385.05	391.13	397.02	391.07	1.53	ppb
Beryllium	9-1	7.19	7.16	7.44	7.26	2.11	ppb
Bismuth	209-1				113		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	15.12	16.13	15.98	15.75	3.46	ppb
Cadmium	106-1	14.56	15.19	15.68	15.14	3.71	ppb
Cadmium	111-1	16.09	16.42	16.56	16.36	1.46	ppb
Calcium	43-1	409834.35	405377.69	410200.72	408470.92	0.66	ppb
Calcium	44-1	411111.16	409533.74	414050.36	411565.08	0.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.25	30.57	30.64	30.49	0.67	ppb
Cobalt	59-2	26.22	26.43	26.30	26.32	0.40	ppb
Copper	63-2	131.61	132.73	132.00	132.11	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				110		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	45907.81	46217.29	46499.82	46208.31	0.64	ppb
Iron	57-2	47494.54	48035.55	48248.19	47926.09	0.81	ppb
Iron	54-2	45759.68	45519.10	46131.93	45803.57	0.67	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-10 Instrumnet Name : P7
Client Sample ID : MH2GM7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:14:03 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	335.05	344.41	353.32	344.26	2.65	ppb
Lead	207-1	324.23	339.88	341.07	335.06	2.80	ppb
Lead	208-1	332.46	341.23	343.36	339.01	1.70	ppb
Lithium	6-1				109		%
Magnesium	24-2	97981.85	98792.02	97886.50	98220.12	0.51	ppb
Manganese	55-2	2281.15	2276.62	2288.05	2281.94	0.25	ppb
Molybdenum	94-1	12.20	12.45	12.40	12.35	1.07	ppb
Molybdenum	95-1	9.16	9.39	9.56	9.37	2.11	ppb
Molybdenum	96-1	9.84	9.91	10.28	10.01	2.35	ppb
Molybdenum	97-1	9.16	9.45	9.65	9.42	2.59	ppb
Molybdenum	98-1	9.15	9.36	9.48	9.33	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	111.02	111.30	111.52	111.28	0.23	ppb
Phosphorus	31-2	3931.06	3941.33	3982.65	3951.68	0.69	ppb
Potassium	39-2	3411.35	3459.13	3476.49	3448.99	0.98	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				105		%
Selenium	82-1	19.42	19.13	19.81	19.45	1.74	ppb
Selenium	77-2	39.83	38.69	40.48	39.67	2.29	ppb
Selenium	78-2	20.86	20.61	20.18	20.55	1.68	ppb
Silicon	28-1	3412.85	3400.56	3456.33	3423.25	0.86	ppb
Silver	107-1	1.34	1.35	1.41	1.37	2.65	ppb
Silver	109-1	1.29	1.35	1.40	1.35	4.15	ppb
Sodium	23-2	897.29	912.71	911.86	907.29	0.96	ppb
Strontium	86-1	943.60	958.50	978.08	960.06	1.80	ppb
Strontium	88-1	936.06	944.48	952.60	944.38	0.88	ppb
Sulfur	34-1	68773.62	67684.27	68154.67	68204.19	0.80	ppb
Terbium	159-1				116		%
Terbium	159-2				110		%
Thallium	203-1	2.55	2.60	2.62	2.59	1.38	ppb
Thallium	205-1	2.52	2.54	2.62	2.56	2.08	ppb
Tin	118-1	1.80	1.87	1.89	1.85	2.42	ppb
Titanium	47-1	59.48	59.39	59.72	59.53	0.29	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-10

Instrumnet Name :P7

Client Sample ID :MH2GM7

Dilution Factor :1

Date & Time Acquired :2024-10-31 23:14:03

DataFile Name :061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.24	9.56	9.59	9.46	2.02	ppb
Vanadium	51-2	124.10	124.78	125.30	124.73	0.49	ppb
Yttrium	89-1				119		%
Yttrium	89-2				116		%
Zinc	66-2	875.32	875.30	875.11	875.24	0.01	ppb
Zirconium	90-1	2.70	2.76	2.74	2.74	1.06	ppb
Zirconium	91-1	2.69	2.79	2.82	2.77	2.43	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-11 Instrumnet Name : P7
Client Sample ID : MH2GM8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:17:06 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9806.57	9864.79	9926.63	9866.00	0.61	ppb
Antimony	121-1	1.44	1.43	1.59	1.48	6.19	ppb
Arsenic	75-2	56.54	58.22	57.36	57.37	1.46	ppb
Barium	135-1	269.83	271.28	287.55	276.22	3.56	ppb
Barium	137-1	301.29	298.04	318.24	305.85	3.55	ppb
Beryllium	9-1	6.00	6.06	6.29	6.12	2.52	ppb
Bismuth	209-1				115		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	19.34	19.38	19.33	19.35	0.13	ppb
Cadmium	106-1	16.47	16.74	18.49	17.23	6.35	ppb
Cadmium	111-1	18.97	18.70	20.02	19.23	3.63	ppb
Calcium	43-1	273705.92	279555.16	291487.32	281582.80	3.22	ppb
Calcium	44-1	278016.63	281793.04	293988.14	284599.27	2.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.00	24.91	24.96	24.96	0.19	ppb
Cobalt	59-2	29.45	29.25	29.35	29.35	0.34	ppb
Copper	63-2	158.97	160.03	158.85	159.28	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				101		%
Iron	56-2	56924.96	56883.06	56344.07	56717.36	0.57	ppb
Iron	57-2	57284.67	57593.59	57432.07	57436.78	0.27	ppb
Iron	54-2	56324.12	56437.61	56119.03	56293.59	0.29	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-11 Instrumnet Name : P7
Client Sample ID : MH2GM8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:17:06 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	547.44	546.95	579.36	557.92	3.33	ppb
Lead	207-1	542.65	543.98	569.32	551.98	2.72	ppb
Lead	208-1	540.16	542.48	569.68	550.77	2.98	ppb
Lithium	6-1				110		%
Magnesium	24-2	33481.62	33329.05	33231.49	33347.39	0.38	ppb
Manganese	55-2	1067.83	1062.28	1065.02	1065.04	0.26	ppb
Molybdenum	94-1	13.91	14.13	14.68	14.24	2.78	ppb
Molybdenum	95-1	11.20	11.34	11.74	11.43	2.46	ppb
Molybdenum	96-1	11.88	12.17	12.59	12.22	2.93	ppb
Molybdenum	97-1	11.14	11.44	11.88	11.49	3.23	ppb
Molybdenum	98-1	11.10	11.34	11.73	11.39	2.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	154.02	151.65	151.99	152.55	0.84	ppb
Phosphorus	31-2	2720.31	2721.50	2771.67	2737.83	1.07	ppb
Potassium	39-2	2630.23	2615.25	2595.10	2613.53	0.67	ppb
Rhodium	103-1				98		%
Rhodium	103-2				102		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	8.41	8.50	8.25	8.39	1.51	ppb
Selenium	77-2	35.22	35.71	36.80	35.91	2.25	ppb
Selenium	78-2	12.21	11.09	12.28	11.86	5.63	ppb
Silicon	28-1	2825.59	2900.84	3027.11	2917.85	3.49	ppb
Silver	107-1	2.44	2.44	2.61	2.50	3.94	ppb
Silver	109-1	2.38	2.45	2.58	2.47	4.15	ppb
Sodium	23-2	737.70	739.25	741.39	739.45	0.25	ppb
Strontium	86-1	1081.77	1105.95	1140.60	1109.44	2.67	ppb
Strontium	88-1	1071.93	1095.46	1130.21	1099.20	2.67	ppb
Sulfur	34-1	64757.67	65333.60	67306.46	65799.24	2.03	ppb
Terbium	159-1				117		%
Terbium	159-2				112		%
Thallium	203-1	3.06	3.07	3.17	3.10	2.04	ppb
Thallium	205-1	3.05	3.09	3.21	3.12	2.56	ppb
Tin	118-1	1.98	1.98	2.17	2.04	5.34	ppb
Titanium	47-1	43.05	43.88	46.05	44.33	3.49	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-11 Instrumnet Name : P7
Client Sample ID : MH2GM8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:17:06 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.29	10.47	10.98	10.58	3.39	ppb
Vanadium	51-2	128.25	128.52	127.24	128.00	0.53	ppb
Yttrium	89-1				120		%
Yttrium	89-2				117		%
Zinc	66-2	1199.40	1202.85	1190.90	1197.71	0.51	ppb
Zirconium	90-1	2.78	2.85	3.03	2.89	4.51	ppb
Zirconium	91-1	2.71	2.95	2.97	2.88	4.94	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-12 Instrumnet Name : P7
Client Sample ID : MH2GM9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:20:07 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11577.80	11551.66	11522.93	11550.80	0.24	ppb
Antimony	121-1	1.75	1.78	1.81	1.78	1.57	ppb
Arsenic	75-2	43.62	43.85	42.19	43.22	2.08	ppb
Barium	135-1	318.41	319.86	325.50	321.25	1.17	ppb
Barium	137-1	358.34	352.13	366.71	359.06	2.04	ppb
Beryllium	9-1	6.94	6.68	6.80	6.81	1.86	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.17	19.77	19.80	19.91	1.12	ppb
Cadmium	106-1	19.20	18.72	19.16	19.03	1.41	ppb
Cadmium	111-1	19.46	19.48	20.04	19.66	1.68	ppb
Calcium	43-1	268438.59	268304.75	269540.12	268761.15	0.25	ppb
Calcium	44-1	269854.88	271138.95	271578.15	270857.32	0.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.18	23.58	22.95	23.24	1.38	ppb
Cobalt	59-2	29.06	29.12	28.98	29.05	0.24	ppb
Copper	63-2	244.78	243.77	233.62	240.72	2.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				111		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	50404.22	51071.37	50742.15	50739.24	0.66	ppb
Iron	57-2	51552.84	51444.22	52052.61	51683.23	0.63	ppb
Iron	54-2	50484.85	50393.10	50149.72	50342.56	0.34	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-12 Instrumnet Name : P7
Client Sample ID : MH2GM9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:20:07 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1036.76	1041.39	1062.52	1046.89	1.31	ppb
Lead	207-1	1016.96	1052.01	1058.11	1042.36	2.13	ppb
Lead	208-1	1027.49	1049.54	1055.83	1044.29	1.42	ppb
Lithium	6-1				110		%
Magnesium	24-2	22812.82	22668.23	22577.32	22686.12	0.52	ppb
Manganese	55-2	1406.07	1412.80	1408.86	1409.24	0.24	ppb
Molybdenum	94-1	11.55	11.90	11.67	11.71	1.50	ppb
Molybdenum	95-1	6.41	6.56	6.44	6.47	1.24	ppb
Molybdenum	96-1	7.51	7.56	7.59	7.55	0.50	ppb
Molybdenum	97-1	6.41	6.59	6.53	6.51	1.43	ppb
Molybdenum	98-1	6.39	6.54	6.44	6.46	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	172.39	172.86	172.95	172.74	0.17	ppb
Phosphorus	31-2	2537.47	2547.05	2578.20	2554.24	0.83	ppb
Potassium	39-2	2760.01	2718.30	2713.70	2730.67	0.93	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	7.42	7.51	6.95	7.29	4.14	ppb
Selenium	77-2	28.31	32.67	30.97	30.65	7.18	ppb
Selenium	78-2	8.37	9.85	9.80	9.34	8.98	ppb
Silicon	28-1	3176.32	3211.22	3200.83	3196.12	0.56	ppb
Silver	107-1	4.19	4.19	4.32	4.23	1.82	ppb
Silver	109-1	4.17	4.26	4.31	4.24	1.64	ppb
Sodium	23-2	936.05	941.03	937.65	938.24	0.27	ppb
Strontium	86-1	1189.66	1221.18	1200.17	1203.67	1.33	ppb
Strontium	88-1	1189.28	1206.53	1197.94	1197.92	0.72	ppb
Sulfur	34-1	84033.22	84319.01	83864.22	84072.15	0.27	ppb
Terbium	159-1				117		%
Terbium	159-2				111		%
Thallium	203-1	2.10	2.12	2.15	2.12	1.32	ppb
Thallium	205-1	2.04	2.12	2.16	2.11	3.10	ppb
Tin	118-1	2.45	2.46	2.57	2.49	2.83	ppb
Titanium	47-1	71.85	72.32	72.26	72.14	0.36	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-12

Instrumnet Name :P7

Client Sample ID :MH2GM9

Dilution Factor :1

Date & Time Acquired :2024-10-31 23:20:07

DataFile Name :063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.88	10.18	10.26	10.11	1.97	ppb
Vanadium	51-2	113.18	113.65	113.33	113.39	0.21	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	2912.69	2946.07	2898.42	2919.06	0.84	ppb
Zirconium	90-1	3.78	3.86	3.78	3.80	1.17	ppb
Zirconium	91-1	3.76	3.81	3.82	3.80	0.82	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-13 Instrumnet Name : P7
Client Sample ID : MH2GN0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:23:09 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9728.97	9765.80	9584.68	9693.15	0.99	ppb
Antimony	121-1	1.28	1.18	1.15	1.20	6.01	ppb
Arsenic	75-2	38.78	38.49	38.23	38.50	0.72	ppb
Barium	135-1	246.81	223.29	217.94	229.35	6.70	ppb
Barium	137-1	250.14	226.56	219.99	232.23	6.83	ppb
Beryllium	9-1	8.27	7.71	7.67	7.88	4.24	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.37	18.46	17.11	18.65	8.80	ppb
Cadmium	106-1	18.74	17.22	14.66	16.87	12.21	ppb
Cadmium	111-1	19.89	18.54	18.02	18.82	5.15	ppb
Calcium	43-1	325972.88	307012.20	300422.55	311135.88	4.26	ppb
Calcium	44-1	329429.85	306762.95	300928.97	312373.92	4.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.37	22.64	22.77	22.60	0.92	ppb
Cobalt	59-2	31.57	31.61	31.53	31.57	0.12	ppb
Copper	63-2	155.43	155.11	156.01	155.52	0.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				108		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	57551.36	56840.03	57262.89	57218.09	0.63	ppb
Iron	57-2	58285.32	58160.70	58593.92	58346.65	0.38	ppb
Iron	54-2	56658.29	56665.90	56840.78	56721.66	0.18	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-13 Instrumnet Name : P7
Client Sample ID : MH2GN0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:23:09 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	592.83	546.44	549.07	562.78	4.63	ppb
Lead	207-1	592.52	553.37	554.40	566.77	3.94	ppb
Lead	208-1	590.27	548.13	541.79	560.06	4.70	ppb
Lithium	6-1				102		%
Magnesium	24-2	24383.95	24723.93	24433.38	24513.75	0.75	ppb
Manganese	55-2	978.57	982.43	968.63	976.54	0.73	ppb
Molybdenum	94-1	14.82	13.64	13.42	13.96	5.41	ppb
Molybdenum	95-1	9.39	8.64	8.51	8.85	5.36	ppb
Molybdenum	96-1	10.46	9.75	9.55	9.92	4.85	ppb
Molybdenum	97-1	9.47	8.71	8.56	8.91	5.49	ppb
Molybdenum	98-1	9.37	8.63	8.49	8.83	5.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	159.91	160.68	160.05	160.21	0.25	ppb
Phosphorus	31-2	2583.88	2558.61	2606.23	2582.91	0.92	ppb
Potassium	39-2	2592.31	2628.89	2575.66	2598.95	1.05	ppb
Rhodium	103-1				91		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				102		%
Selenium	82-1	10.83	9.57	10.25	10.22	6.14	ppb
Selenium	77-2	34.60	32.30	33.25	33.38	3.47	ppb
Selenium	78-2	11.99	11.63	11.63	11.75	1.78	ppb
Silicon	28-1	3021.34	2853.37	2790.22	2888.31	4.14	ppb
Silver	107-1	3.42	3.02	3.05	3.16	7.13	ppb
Silver	109-1	3.45	3.10	3.00	3.18	7.48	ppb
Sodium	23-2	781.90	784.49	786.96	784.45	0.32	ppb
Strontium	86-1	1754.88	1596.80	1574.31	1642.00	5.99	ppb
Strontium	88-1	1728.76	1594.20	1566.19	1629.72	5.33	ppb
Sulfur	34-1	117456.56	110195.68	107008.53	111553.59	4.80	ppb
Terbium	159-1				110		%
Terbium	159-2				110		%
Thallium	203-1	3.07	2.81	2.73	2.87	6.09	ppb
Thallium	205-1	3.02	2.83	2.80	2.88	4.23	ppb
Tin	118-1	1.69	1.58	1.51	1.60	5.64	ppb
Titanium	47-1	52.01	48.61	46.55	49.06	5.63	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-13

Instrumnet Name :

P7

Client Sample ID :

MH2GN0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:23:09

DataFile Name :

064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	12.92	12.02	11.79	12.25	4.86	ppb
Vanadium	51-2	119.83	119.05	119.28	119.39	0.34	ppb
Yttrium	89-1				112		%
Yttrium	89-2				113		%
Zinc	66-2	1455.28	1458.23	1466.09	1459.87	0.38	ppb
Zirconium	90-1	4.27	3.96	3.89	4.04	4.99	ppb
Zirconium	91-1	4.40	4.00	3.94	4.11	6.13	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-14 Instrumnet Name : P7
Client Sample ID : MH2GN1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:26:11 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10065.17	10104.34	10071.67	10080.39	0.21	ppb
Antimony	121-1	1.72	1.82	1.86	1.80	3.95	ppb
Arsenic	75-2	98.59	96.83	98.23	97.88	0.95	ppb
Barium	135-1	626.07	646.71	650.70	641.16	2.06	ppb
Barium	137-1	619.81	640.08	670.38	643.42	3.95	ppb
Beryllium	9-1	6.55	6.77	7.02	6.78	3.46	ppb
Bismuth	209-1				111		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	10.97	10.95	11.57	11.16	3.19	ppb
Cadmium	106-1	11.14	10.69	11.31	11.05	2.87	ppb
Cadmium	111-1	11.06	11.08	11.52	11.22	2.31	ppb
Calcium	43-1	429572.78	445703.45	454796.55	443357.59	2.88	ppb
Calcium	44-1	435604.06	454178.31	458355.89	449379.42	2.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	54.89	54.54	55.00	54.81	0.44	ppb
Cobalt	59-2	22.79	22.91	22.77	22.82	0.33	ppb
Copper	63-2	121.50	120.97	121.17	121.22	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				99		%
Iron	56-2	34066.83	33842.29	34211.94	34040.35	0.55	ppb
Iron	57-2	35975.49	35798.92	36045.20	35939.87	0.35	ppb
Iron	54-2	33814.40	33870.40	33858.55	33847.78	0.09	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-14 Instrumnet Name : P7
Client Sample ID : MH2GN1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:26:11 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	663.64	701.85	726.50	697.33	4.54	ppb
Lead	207-1	640.04	684.64	701.68	675.45	4.71	ppb
Lead	208-1	651.17	692.11	707.00	683.43	4.23	ppb
Lithium	6-1				109		%
Magnesium	24-2	191197.07	190152.89	191074.94	190808.30	0.30	ppb
Manganese	55-2	3959.69	3954.76	4011.62	3975.36	0.79	ppb
Molybdenum	94-1	4.30	4.60	4.63	4.51	3.98	ppb
Molybdenum	95-1	1.81	1.93	1.96	1.90	4.17	ppb
Molybdenum	96-1	2.26	2.48	2.48	2.41	5.40	ppb
Molybdenum	97-1	1.75	1.87	1.92	1.85	4.88	ppb
Molybdenum	98-1	1.74	1.80	1.84	1.79	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	65.85	66.12	65.52	65.83	0.45	ppb
Phosphorus	31-2	6031.23	6077.03	6116.50	6074.92	0.70	ppb
Potassium	39-2	3239.27	3193.51	3214.12	3215.63	0.71	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	3.15	3.33	2.44	2.98	15.76	ppb
Selenium	77-2	25.40	28.72	24.18	26.10	8.99	ppb
Selenium	78-2	6.49	6.38	5.85	6.24	5.43	ppb
Silicon	28-1	3828.99	3984.00	3977.46	3930.15	2.23	ppb
Silver	107-1	1.55	1.55	1.68	1.60	4.62	ppb
Silver	109-1	1.55	1.58	1.67	1.60	3.81	ppb
Sodium	23-2	1131.73	1161.78	1165.92	1153.14	1.62	ppb
Strontium	86-1	519.56	548.11	552.94	540.20	3.34	ppb
Strontium	88-1	515.46	538.18	539.54	531.06	2.55	ppb
Sulfur	34-1	786.33	1003.77	1017.04	935.71	13.84	ppb
Terbium	159-1				116		%
Terbium	159-2				108		%
Thallium	203-1	0.95	1.00	1.03	1.00	4.02	ppb
Thallium	205-1	0.95	1.04	1.05	1.01	5.30	ppb
Tin	118-1	3.64	3.79	4.05	3.83	5.43	ppb
Titanium	47-1	89.89	92.97	94.22	92.36	2.42	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-14

Instrumnet Name :

P7

Client Sample ID :

MH2GN1

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:26:11

DataFile Name :

065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	7.03	7.63	7.84	7.50	5.60	ppb
Vanadium	51-2	101.24	101.26	101.25	101.25	0.01	ppb
Yttrium	89-1				122		%
Yttrium	89-2				117		%
Zinc	66-2	934.01	935.20	937.01	935.40	0.16	ppb
Zirconium	90-1	1.71	1.83	1.78	1.78	3.45	ppb
Zirconium	91-1	1.76	1.80	1.86	1.81	2.86	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-15 Instrumnet Name : P7
Client Sample ID : MH2GN2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:29:14 DataFile Name : 066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12606.37	12459.58	12506.44	12524.13	0.60	ppb
Antimony	121-1	1.65	1.70	1.64	1.66	1.84	ppb
Arsenic	75-2	100.54	99.51	99.84	99.97	0.53	ppb
Barium	135-1	787.00	805.18	781.67	791.28	1.56	ppb
Barium	137-1	791.15	790.39	791.36	790.96	0.06	ppb
Beryllium	9-1	6.89	6.88	7.00	6.92	0.95	ppb
Bismuth	209-1				111		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	19.65	18.74	19.94	19.44	3.21	ppb
Cadmium	106-1	19.96	19.59	19.11	19.55	2.19	ppb
Cadmium	111-1	20.08	20.11	19.80	20.00	0.85	ppb
Calcium	43-1	325074.93	328644.44	329015.38	327578.25	0.66	ppb
Calcium	44-1	331974.18	330904.26	332805.44	331894.63	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.60	39.14	38.81	38.85	0.69	ppb
Cobalt	59-2	26.21	26.47	26.39	26.36	0.52	ppb
Copper	63-2	180.13	179.81	180.49	180.14	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	39826.00	39765.99	40133.97	39908.65	0.49	ppb
Iron	57-2	40960.27	41035.72	41201.48	41065.82	0.30	ppb
Iron	54-2	39747.81	39551.24	39645.82	39648.29	0.25	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-15 Instrumnet Name : P7
Client Sample ID : MH2GN2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:29:14 DataFile Name : 066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	963.59	979.55	992.30	978.48	1.47	ppb
Lead	207-1	944.82	956.62	967.36	956.27	1.18	ppb
Lead	208-1	949.12	963.97	971.97	961.68	1.21	ppb
Lithium	6-1				109		%
Magnesium	24-2	101294.44	101857.88	102121.90	101758.07	0.42	ppb
Manganese	55-2	2522.83	2521.83	2517.56	2520.74	0.11	ppb
Molybdenum	94-1	5.17	5.30	5.31	5.26	1.48	ppb
Molybdenum	95-1	2.05	2.13	2.10	2.09	1.91	ppb
Molybdenum	96-1	2.73	2.73	2.79	2.75	1.18	ppb
Molybdenum	97-1	2.08	2.03	2.01	2.04	1.71	ppb
Molybdenum	98-1	2.01	2.01	2.05	2.02	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	100.89	99.88	100.69	100.49	0.53	ppb
Phosphorus	31-2	5222.27	5148.75	5194.19	5188.40	0.72	ppb
Potassium	39-2	3509.67	3574.81	3550.56	3545.01	0.93	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	3.47	3.24	3.08	3.26	5.92	ppb
Selenium	77-2	37.35	29.50	34.13	33.66	11.73	ppb
Selenium	78-2	6.70	6.35	6.42	6.49	2.80	ppb
Silicon	28-1	4237.90	4317.52	4326.03	4293.82	1.13	ppb
Silver	107-1	3.07	3.15	3.10	3.11	1.30	ppb
Silver	109-1	3.06	3.11	3.11	3.09	1.00	ppb
Sodium	23-2	981.62	984.16	989.71	985.17	0.42	ppb
Strontium	86-1	742.09	757.90	749.96	749.99	1.05	ppb
Strontium	88-1	742.95	741.53	749.29	744.59	0.55	ppb
Sulfur	34-1	1477.21	1518.01	1498.32	1497.85	1.36	ppb
Terbium	159-1				116		%
Terbium	159-2				110		%
Thallium	203-1	1.83	1.78	1.88	1.83	2.76	ppb
Thallium	205-1	1.80	1.83	1.83	1.82	1.11	ppb
Tin	118-1	4.12	4.19	4.16	4.16	0.78	ppb
Titanium	47-1	76.43	76.49	76.44	76.45	0.04	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-15

Instrumnet Name :

P7

Client Sample ID :

MH2GN2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:29:14

DataFile Name :

066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.16	9.46	9.48	9.37	1.93	ppb
Vanadium	51-2	108.26	109.58	109.79	109.21	0.76	ppb
Yttrium	89-1				123		%
Yttrium	89-2				119		%
Zinc	66-2	1464.59	1469.50	1463.53	1465.87	0.22	ppb
Zirconium	90-1	2.13	2.12	2.18	2.14	1.60	ppb
Zirconium	91-1	2.11	2.12	2.27	2.17	4.21	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-16 Instrumnet Name : P7
Client Sample ID : MH2GN3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:32:15 DataFile Name : 067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10801.15	10599.07	10650.89	10683.70	0.98	ppb
Antimony	121-1	1.56	1.55	1.59	1.57	1.12	ppb
Arsenic	75-2	54.76	54.65	54.60	54.67	0.15	ppb
Barium	135-1	981.27	1016.60	1035.19	1011.02	2.71	ppb
Barium	137-1	981.17	1031.26	1039.89	1017.44	3.12	ppb
Beryllium	9-1	6.07	6.09	6.14	6.10	0.57	ppb
Bismuth	209-1				113		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.09	25.76	25.40	25.08	3.49	ppb
Cadmium	106-1	24.26	25.29	25.56	25.04	2.76	ppb
Cadmium	111-1	24.85	25.96	26.00	25.60	2.55	ppb
Calcium	43-1	254700.59	255649.63	259806.64	256718.96	1.06	ppb
Calcium	44-1	255925.78	259645.01	260990.37	258853.72	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.66	27.61	27.71	27.66	0.18	ppb
Cobalt	59-2	29.02	28.83	28.80	28.88	0.41	ppb
Copper	63-2	218.23	216.81	218.79	217.95	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	41281.56	41498.25	41171.74	41317.18	0.40	ppb
Iron	57-2	42505.54	41957.23	42111.54	42191.44	0.67	ppb
Iron	54-2	41158.97	41225.39	41246.84	41210.40	0.11	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-16 Instrumnet Name : P7
Client Sample ID : MH2GN3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:32:15 DataFile Name : 067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1212.96	1222.28	1259.29	1231.51	1.99	ppb
Lead	207-1	1215.98	1217.82	1263.50	1232.43	2.18	ppb
Lead	208-1	1211.00	1217.42	1255.03	1227.82	1.94	ppb
Lithium	6-1				109		%
Magnesium	24-2	46847.42	46612.94	46973.85	46811.40	0.39	ppb
Manganese	55-2	1882.62	1900.02	1882.59	1888.41	0.53	ppb
Molybdenum	94-1	6.05	5.93	6.13	6.04	1.65	ppb
Molybdenum	95-1	1.93	1.99	2.02	1.98	2.36	ppb
Molybdenum	96-1	2.71	2.76	2.75	2.74	0.93	ppb
Molybdenum	97-1	1.99	1.96	1.97	1.98	0.67	ppb
Molybdenum	98-1	1.95	1.94	1.98	1.95	1.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	121.03	123.06	122.24	122.11	0.83	ppb
Phosphorus	31-2	3609.28	3651.25	3633.17	3631.23	0.58	ppb
Potassium	39-2	3180.46	3186.84	3236.18	3201.16	0.95	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	2.64	2.86	3.14	2.88	8.71	ppb
Selenium	77-2	37.25	33.71	29.12	33.36	12.23	ppb
Selenium	78-2	6.88	6.31	6.88	6.69	4.87	ppb
Silicon	28-1	3716.61	3733.44	3818.28	3756.11	1.45	ppb
Silver	107-1	4.44	4.63	4.70	4.59	2.86	ppb
Silver	109-1	4.51	4.58	4.68	4.59	1.96	ppb
Sodium	23-2	847.19	846.69	852.31	848.73	0.37	ppb
Strontium	86-1	878.82	873.23	891.98	881.34	1.09	ppb
Strontium	88-1	877.51	872.86	891.65	880.67	1.11	ppb
Sulfur	34-1	1319.12	1355.48	1470.02	1381.54	5.70	ppb
Terbium	159-1				116		%
Terbium	159-2				109		%
Thallium	203-1	1.71	1.67	1.76	1.71	2.70	ppb
Thallium	205-1	1.67	1.71	1.71	1.70	1.35	ppb
Tin	118-1	2.58	2.66	2.65	2.63	1.67	ppb
Titanium	47-1	56.95	56.60	58.72	57.42	1.97	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-16

Instrumnet Name :

P7

Client Sample ID :

MH2GN3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:32:15

DataFile Name :

067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.19	10.46	10.62	10.42	2.09	ppb
Vanadium	51-2	99.21	99.50	98.83	99.18	0.34	ppb
Yttrium	89-1				123		%
Yttrium	89-2				118		%
Zinc	66-2	2747.37	2731.49	2736.81	2738.56	0.30	ppb
Zirconium	90-1	2.64	2.61	2.70	2.65	1.70	ppb
Zirconium	91-1	2.65	2.69	2.68	2.67	0.83	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-17 Instrumnet Name : P7
Client Sample ID : MH2GN4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:35:17 DataFile Name : 068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11364.39	11392.50	11118.15	11291.68	1.34	ppb
Antimony	121-1	0.85	0.90	0.90	0.88	2.95	ppb
Arsenic	75-2	23.56	23.93	22.80	23.43	2.45	ppb
Barium	135-1	706.96	734.60	729.87	723.81	2.04	ppb
Barium	137-1	701.33	718.92	729.59	716.61	1.99	ppb
Beryllium	9-1	6.03	5.92	6.25	6.07	2.79	ppb
Bismuth	209-1				113		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	22.30	22.84	22.30	22.48	1.39	ppb
Cadmium	106-1	21.69	22.08	20.90	21.56	2.78	ppb
Cadmium	111-1	22.99	23.48	23.35	23.27	1.11	ppb
Calcium	43-1	232170.89	227108.43	229656.55	229645.29	1.10	ppb
Calcium	44-1	232276.70	230673.61	232539.86	231830.06	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	160.35	161.91	160.88	161.04	0.49	ppb
Cobalt	59-2	30.51	30.93	30.68	30.71	0.69	ppb
Copper	63-2	151.75	154.02	152.81	152.86	0.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	49585.43	49431.33	49044.64	49353.80	0.56	ppb
Iron	57-2	49932.46	50139.67	50030.85	50034.33	0.21	ppb
Iron	54-2	49420.81	49197.51	48929.91	49182.74	0.50	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-17 Instrumnet Name : P7
Client Sample ID : MH2GN4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:35:17 DataFile Name : 068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	611.50	623.46	614.29	616.42	1.02	ppb
Lead	207-1	604.51	611.16	601.65	605.78	0.81	ppb
Lead	208-1	600.42	608.90	604.16	604.50	0.70	ppb
Lithium	6-1				108		%
Magnesium	24-2	31265.07	31744.50	31337.92	31449.16	0.82	ppb
Manganese	55-2	1091.85	1096.66	1084.39	1090.97	0.57	ppb
Molybdenum	94-1	6.31	6.41	6.47	6.40	1.22	ppb
Molybdenum	95-1	2.79	2.95	2.83	2.86	2.75	ppb
Molybdenum	96-1	3.53	3.76	3.60	3.63	3.32	ppb
Molybdenum	97-1	2.80	2.76	2.85	2.80	1.54	ppb
Molybdenum	98-1	2.76	2.91	2.84	2.84	2.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	141.45	142.96	143.31	142.57	0.70	ppb
Phosphorus	31-2	3115.32	3167.44	3102.79	3128.52	1.10	ppb
Potassium	39-2	3204.98	3202.07	3176.82	3194.62	0.48	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	3.08	3.49	3.34	3.30	6.35	ppb
Selenium	77-2	37.71	35.60	34.97	36.09	3.98	ppb
Selenium	78-2	8.53	6.09	6.75	7.13	17.74	ppb
Silicon	28-1	3194.98	3179.07	3214.87	3196.31	0.56	ppb
Silver	107-1	2.95	3.06	3.00	3.00	1.93	ppb
Silver	109-1	2.90	2.95	2.98	2.94	1.39	ppb
Sodium	23-2	843.16	855.49	849.64	849.43	0.73	ppb
Strontium	86-1	985.32	996.00	1013.08	998.13	1.40	ppb
Strontium	88-1	997.02	996.71	998.35	997.36	0.09	ppb
Sulfur	34-1	4847.61	4803.84	4938.55	4863.34	1.41	ppb
Terbium	159-1				117		%
Terbium	159-2				110		%
Thallium	203-1	2.71	2.68	2.80	2.73	2.33	ppb
Thallium	205-1	2.65	2.76	2.67	2.70	2.18	ppb
Tin	118-1	1.48	1.57	1.56	1.54	3.07	ppb
Titanium	47-1	42.29	42.19	41.84	42.11	0.56	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-17

Instrumnet Name :

P7

Client Sample ID :

MH2GN4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:35:17

DataFile Name :

068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	12.32	12.80	12.55	12.56	1.88	ppb
Vanadium	51-2	108.60	110.01	109.19	109.27	0.65	ppb
Yttrium	89-1				122		%
Yttrium	89-2				118		%
Zinc	66-2	1186.26	1191.68	1192.66	1190.20	0.29	ppb
Zirconium	90-1	2.39	2.49	2.45	2.44	1.99	ppb
Zirconium	91-1	2.37	2.39	2.42	2.40	1.03	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-18 Instrumnet Name : P7
Client Sample ID : MH2GN5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:38:18 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14237.55	14427.66	14384.55	14349.92	0.69	ppb
Antimony	121-1	1.83	1.85	1.84	1.84	0.36	ppb
Arsenic	75-2	36.87	37.02	36.80	36.90	0.31	ppb
Barium	135-1	936.18	935.37	936.98	936.17	0.09	ppb
Barium	137-1	933.22	942.68	949.65	941.85	0.88	ppb
Beryllium	9-1	5.12	5.29	5.24	5.22	1.75	ppb
Bismuth	209-1				117		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	20.96	20.84	21.22	21.01	0.94	ppb
Cadmium	106-1	19.59	20.49	19.97	20.02	2.27	ppb
Cadmium	111-1	20.90	21.03	21.15	21.03	0.60	ppb
Calcium	43-1	194670.20	199349.89	199303.78	197774.62	1.36	ppb
Calcium	44-1	196772.49	200372.16	202111.46	199752.04	1.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	65.19	64.84	64.78	64.94	0.34	ppb
Cobalt	59-2	22.10	22.30	22.29	22.23	0.51	ppb
Copper	63-2	260.96	261.46	258.81	260.41	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	43887.91	43995.81	44277.29	44053.67	0.46	ppb
Iron	57-2	44711.97	44005.28	44377.36	44364.87	0.80	ppb
Iron	54-2	43853.85	43918.89	44018.46	43930.40	0.19	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-18 Instrumnet Name : P7
Client Sample ID : MH2GN5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:38:18 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	995.03	1024.36	1024.55	1014.65	1.67	ppb
Lead	207-1	976.04	1003.59	994.22	991.28	1.41	ppb
Lead	208-1	982.61	1013.42	1002.02	999.35	1.56	ppb
Lithium	6-1				108		%
Magnesium	24-2	24045.93	24102.44	23948.95	24032.44	0.32	ppb
Manganese	55-2	1773.28	1763.29	1771.09	1769.22	0.30	ppb
Molybdenum	94-1	7.55	7.86	7.65	7.69	2.07	ppb
Molybdenum	95-1	3.10	3.25	3.19	3.18	2.29	ppb
Molybdenum	96-1	4.01	4.11	4.06	4.06	1.34	ppb
Molybdenum	97-1	3.00	3.20	3.21	3.14	3.77	ppb
Molybdenum	98-1	3.04	3.16	3.14	3.11	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	87.27	88.54	88.72	88.18	0.89	ppb
Phosphorus	31-2	8195.62	8212.75	8197.75	8202.04	0.11	ppb
Potassium	39-2	9125.91	9201.29	9076.35	9134.52	0.69	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	3.67	2.98	3.33	3.33	10.34	ppb
Selenium	77-2	23.66	25.48	28.38	25.84	9.20	ppb
Selenium	78-2	8.02	5.49	6.55	6.68	19.02	ppb
Silicon	28-1	4736.43	4846.97	4895.18	4826.19	1.69	ppb
Silver	107-1	3.42	3.46	3.44	3.44	0.67	ppb
Silver	109-1	3.44	3.38	3.52	3.45	1.93	ppb
Sodium	23-2	810.76	814.64	816.65	814.01	0.37	ppb
Strontium	86-1	897.86	930.21	925.15	917.74	1.90	ppb
Strontium	88-1	890.27	924.13	914.91	909.77	1.92	ppb
Sulfur	34-1	2401.78	2599.70	2625.22	2542.23	4.81	ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	1.38	1.43	1.41	1.40	1.90	ppb
Thallium	205-1	1.36	1.43	1.41	1.40	2.55	ppb
Tin	118-1	10.30	10.51	10.54	10.45	1.23	ppb
Titanium	47-1	100.82	105.16	106.53	104.17	2.86	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-18

Instrumnet Name :

P7

Client Sample ID :

MH2GN5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:38:18

DataFile Name :

069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	6.90	7.08	7.00	6.99	1.27	ppb
Vanadium	51-2	110.11	110.84	110.87	110.61	0.39	ppb
Yttrium	89-1				116		%
Yttrium	89-2				112		%
Zinc	66-2	2172.27	2171.41	2141.78	2161.82	0.80	ppb
Zirconium	90-1	2.99	3.11	3.14	3.08	2.55	ppb
Zirconium	91-1	3.14	3.19	3.12	3.15	1.05	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-19 Instrumnet Name : P7
Client Sample ID : MH2GN6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:41:18 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14852.66	14895.43	15228.15	14992.08	1.37	ppb
Antimony	121-1	2.05	2.14	2.10	2.10	2.29	ppb
Arsenic	75-2	47.48	47.97	48.43	47.96	0.99	ppb
Barium	135-1	1186.33	1170.78	1207.65	1188.25	1.56	ppb
Barium	137-1	1179.22	1180.83	1209.52	1189.86	1.43	ppb
Beryllium	9-1	5.98	6.11	6.17	6.08	1.61	ppb
Bismuth	209-1				119		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	26.20	27.31	28.05	27.18	3.43	ppb
Cadmium	106-1	25.91	25.30	26.95	26.05	3.20	ppb
Cadmium	111-1	26.82	26.37	27.30	26.83	1.73	ppb
Calcium	43-1	228133.95	230995.76	235184.08	231437.93	1.53	ppb
Calcium	44-1	230395.33	234373.70	237127.96	233965.66	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.67	40.79	42.33	41.26	2.25	ppb
Cobalt	59-2	29.11	28.94	29.89	29.31	1.73	ppb
Copper	63-2	330.07	332.59	342.95	335.20	2.04	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				100		%
Iron	56-2	53843.60	53925.11	55794.68	54521.13	2.02	ppb
Iron	57-2	54919.37	54173.48	56282.04	55124.96	1.94	ppb
Iron	54-2	53364.70	53839.48	54787.77	53997.32	1.34	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-19 Instrumnet Name : P7
Client Sample ID : MH2GN6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:41:18 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2050.84	2043.96	2077.10	2057.30	0.85	ppb
Lead	207-1	2023.36	2012.05	2076.82	2037.41	1.70	ppb
Lead	208-1	2022.88	2027.31	2063.16	2037.78	1.08	ppb
Lithium	6-1				110		%
Magnesium	24-2	23927.10	23684.71	24558.10	24056.64	1.87	ppb
Manganese	55-2	2204.41	2200.81	2283.18	2229.47	2.09	ppb
Molybdenum	94-1	8.19	8.26	8.28	8.24	0.53	ppb
Molybdenum	95-1	3.38	3.49	3.51	3.46	2.02	ppb
Molybdenum	96-1	4.38	4.38	4.49	4.42	1.45	ppb
Molybdenum	97-1	3.53	3.40	3.45	3.46	1.99	ppb
Molybdenum	98-1	3.40	3.38	3.43	3.41	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	136.04	135.80	141.35	137.73	2.28	ppb
Phosphorus	31-2	6016.85	6132.10	6340.81	6163.25	2.66	ppb
Potassium	39-2	7736.75	7713.78	7955.90	7802.14	1.71	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	3.76	3.34	3.53	3.54	5.91	ppb
Selenium	77-2	28.21	28.87	31.45	29.51	5.79	ppb
Selenium	78-2	6.19	6.10	8.37	6.88	18.66	ppb
Silicon	28-1	4878.48	4994.15	5071.28	4981.30	1.95	ppb
Silver	107-1	5.46	5.53	5.58	5.52	1.14	ppb
Silver	109-1	5.41	5.50	5.73	5.55	2.99	ppb
Sodium	23-2	897.47	899.10	927.59	908.06	1.87	ppb
Strontium	86-1	1042.83	1050.27	1044.01	1045.71	0.38	ppb
Strontium	88-1	1020.58	1046.05	1045.67	1037.44	1.41	ppb
Sulfur	34-1	1829.65	1993.66	2051.80	1958.37	5.88	ppb
Terbium	159-1				118		%
Terbium	159-2				109		%
Thallium	203-1	1.89	1.89	1.91	1.90	0.64	ppb
Thallium	205-1	1.88	1.87	1.94	1.90	1.89	ppb
Tin	118-1	5.37	5.52	5.57	5.49	1.89	ppb
Titanium	47-1	81.90	84.51	84.54	83.65	1.81	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-19

Instrumnet Name :

P7

Client Sample ID :

MH2GN6

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:41:18

DataFile Name :

070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.55	8.71	8.69	8.65	1.01	ppb
Vanadium	51-2	121.20	121.65	125.08	122.65	1.73	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	3656.22	3679.72	3774.39	3703.44	1.69	ppb
Zirconium	90-1	3.18	3.24	3.19	3.20	1.02	ppb
Zirconium	91-1	3.14	3.19	3.19	3.17	0.99	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-20 Instrumnet Name : P7
Client Sample ID : MH2GN7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:44:17 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14216.37	12352.94	12858.96	13142.76	7.33	ppb
Antimony	121-1	1.78	1.74	1.78	1.77	1.37	ppb
Arsenic	75-2	57.58	50.87	54.07	54.17	6.20	ppb
Barium	135-1	815.36	795.29	825.70	812.12	1.90	ppb
Barium	137-1	813.11	802.20	812.13	809.15	0.75	ppb
Beryllium	9-1	6.45	6.42	6.29	6.39	1.30	ppb
Bismuth	209-1				119		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	28.76	27.79	29.47	28.67	2.95	ppb
Cadmium	106-1	26.88	26.25	27.11	26.75	1.67	ppb
Cadmium	111-1	29.11	28.86	29.46	29.14	1.04	ppb
Calcium	43-1	245586.07	249456.02	250219.94	248420.67	1.00	ppb
Calcium	44-1	246577.95	252002.76	250743.05	249774.59	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.64	32.39	34.40	34.81	7.62	ppb
Cobalt	59-2	34.93	30.54	32.22	32.57	6.80	ppb
Copper	63-2	300.82	258.92	275.08	278.27	7.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	66211.68	58294.06	60669.62	61725.12	6.58	ppb
Iron	57-2	67386.29	58283.56	61671.93	62447.26	7.37	ppb
Iron	54-2	66169.18	57681.09	59780.07	61210.11	7.22	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-20 Instrumnet Name : P7
Client Sample ID : MH2GN7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:44:17 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1454.99	1456.09	1482.80	1464.63	1.08	ppb
Lead	207-1	1453.42	1474.06	1485.15	1470.88	1.09	ppb
Lead	208-1	1456.11	1467.98	1480.84	1468.31	0.84	ppb
Lithium	6-1				108		%
Magnesium	24-2	24620.10	21140.38	22133.31	22631.26	7.92	ppb
Manganese	55-2	1635.42	1430.27	1505.40	1523.70	6.81	ppb
Molybdenum	94-1	9.95	10.13	10.06	10.04	0.88	ppb
Molybdenum	95-1	6.04	6.20	6.05	6.09	1.47	ppb
Molybdenum	96-1	7.07	7.06	7.03	7.05	0.31	ppb
Molybdenum	97-1	5.93	6.17	6.15	6.08	2.18	ppb
Molybdenum	98-1	6.03	6.10	6.07	6.07	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	186.96	163.83	172.42	174.40	6.71	ppb
Phosphorus	31-2	4478.99	3892.37	4046.99	4139.45	7.34	ppb
Potassium	39-2	5560.81	4850.59	5054.91	5155.44	7.09	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	4.41	4.97	4.56	4.65	6.21	ppb
Selenium	77-2	36.65	28.66	33.28	32.86	12.21	ppb
Selenium	78-2	9.95	7.89	6.27	8.04	22.94	ppb
Silicon	28-1	3963.06	4027.41	4022.20	4004.23	0.89	ppb
Silver	107-1	5.51	5.38	5.50	5.46	1.32	ppb
Silver	109-1	5.56	5.41	5.56	5.51	1.58	ppb
Sodium	23-2	1137.30	984.32	1036.92	1052.85	7.38	ppb
Strontium	86-1	1122.62	1130.93	1125.70	1126.41	0.37	ppb
Strontium	88-1	1110.33	1119.63	1120.84	1116.93	0.52	ppb
Sulfur	34-1	11449.27	11763.92	11688.24	11633.81	1.41	ppb
Terbium	159-1				117		%
Terbium	159-2				110		%
Thallium	203-1	2.79	2.87	2.79	2.82	1.76	ppb
Thallium	205-1	2.78	2.78	2.84	2.80	1.25	ppb
Tin	118-1	4.10	4.04	4.13	4.09	1.18	ppb
Titanium	47-1	66.15	66.30	66.24	66.23	0.12	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-20

Instrumnet Name :

P7

Client Sample ID :

MH2GN7

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:44:17

DataFile Name :

071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.35	10.36	10.38	10.36	0.12	ppb
Vanadium	51-2	150.86	130.56	137.35	139.59	7.40	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	2498.03	2209.16	2302.62	2336.60	6.31	ppb
Zirconium	90-1	2.92	3.02	2.98	2.97	1.63	ppb
Zirconium	91-1	2.99	3.05	2.99	3.01	1.16	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-21 Instrumnet Name : P7
Client Sample ID : MH2GN8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:47:19 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14007.23	13983.36	13937.17	13975.92	0.25	ppb
Antimony	121-1	1.67	1.70	1.72	1.70	1.38	ppb
Arsenic	75-2	45.44	46.19	46.32	45.98	1.03	ppb
Barium	135-1	823.63	845.43	844.56	837.87	1.47	ppb
Barium	137-1	809.51	838.97	844.09	830.86	2.25	ppb
Beryllium	9-1	6.56	6.50	6.55	6.53	0.51	ppb
Bismuth	209-1				118		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	26.56	29.07	27.60	27.75	4.55	ppb
Cadmium	106-1	23.96	25.72	26.25	25.31	4.73	ppb
Cadmium	111-1	27.19	28.21	28.59	28.00	2.59	ppb
Calcium	43-1	249868.09	254380.61	256261.26	253503.32	1.30	ppb
Calcium	44-1	253079.59	254954.21	257249.02	255094.27	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.69	32.71	32.57	32.66	0.23	ppb
Cobalt	59-2	34.07	34.29	34.13	34.16	0.34	ppb
Copper	63-2	220.76	221.64	221.71	221.37	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				110		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	62143.87	62043.94	61865.26	62017.69	0.23	ppb
Iron	57-2	62571.41	62372.05	62882.92	62608.79	0.41	ppb
Iron	54-2	61161.74	61736.62	61382.95	61427.10	0.47	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-21 Instrumnet Name : P7
Client Sample ID : MH2GN8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:47:19 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1114.36	1138.67	1164.28	1139.10	2.19	ppb
Lead	207-1	1104.22	1108.92	1160.47	1124.54	2.77	ppb
Lead	208-1	1101.76	1114.42	1161.75	1125.98	2.81	ppb
Lithium	6-1				108		%
Magnesium	24-2	22791.22	22871.14	22766.11	22809.49	0.24	ppb
Manganese	55-2	1446.06	1455.53	1428.03	1443.21	0.97	ppb
Molybdenum	94-1	10.23	10.33	10.63	10.40	2.00	ppb
Molybdenum	95-1	6.25	6.30	6.43	6.33	1.42	ppb
Molybdenum	96-1	7.23	7.35	7.43	7.34	1.37	ppb
Molybdenum	97-1	6.21	6.32	6.45	6.33	1.88	ppb
Molybdenum	98-1	6.21	6.27	6.38	6.29	1.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	205.61	206.27	205.66	205.84	0.18	ppb
Phosphorus	31-2	3662.95	3719.96	3705.89	3696.27	0.80	ppb
Potassium	39-2	4395.87	4449.64	4404.77	4416.76	0.65	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	4.02	3.62	4.58	4.07	11.90	ppb
Selenium	77-2	33.63	27.67	30.47	30.59	9.75	ppb
Selenium	78-2	9.03	8.97	7.50	8.50	10.16	ppb
Silicon	28-1	3815.43	3872.65	3869.96	3852.68	0.84	ppb
Silver	107-1	4.20	4.47	4.48	4.39	3.57	ppb
Silver	109-1	4.24	4.39	4.46	4.36	2.49	ppb
Sodium	23-2	1114.94	1125.75	1121.30	1120.67	0.48	ppb
Strontium	86-1	1054.59	1064.88	1088.52	1069.33	1.63	ppb
Strontium	88-1	1044.44	1063.67	1074.81	1060.97	1.45	ppb
Sulfur	34-1	10067.35	10134.00	10202.55	10134.64	0.67	ppb
Terbium	159-1				118		%
Terbium	159-2				111		%
Thallium	203-1	2.73	2.85	2.83	2.80	2.17	ppb
Thallium	205-1	2.75	2.81	2.88	2.81	2.29	ppb
Tin	118-1	4.62	4.76	4.76	4.72	1.72	ppb
Titanium	47-1	74.18	74.22	75.37	74.59	0.90	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-21

Instrumnet Name :

P7

Client Sample ID :

MH2GN8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:47:19

DataFile Name :

072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	10.88	10.88	11.14	10.97	1.39	ppb
Vanadium	51-2	145.20	145.89	145.07	145.39	0.30	ppb
Yttrium	89-1				121		%
Yttrium	89-2				116		%
Zinc	66-2	1923.92	1919.65	1900.16	1914.58	0.66	ppb
Zirconium	90-1	3.02	3.08	3.14	3.08	1.83	ppb
Zirconium	91-1	3.06	3.20	3.17	3.14	2.37	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:50:18 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9142.29	7746.12	8141.19	8343.20	8.63	ppb
Antimony	121-1	1.69	1.76	1.69	1.71	2.25	ppb
Arsenic	75-2	26.21	22.38	23.10	23.89	8.52	ppb
Barium	135-1	290.87	296.24	290.90	292.67	1.06	ppb
Barium	137-1	327.96	325.84	323.37	325.72	0.71	ppb
Beryllium	9-1	3.06	3.16	3.19	3.14	2.26	ppb
Bismuth	209-1				117		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.69	9.17	9.02	9.29	3.78	ppb
Cadmium	106-1	8.16	8.42	7.87	8.15	3.37	ppb
Cadmium	111-1	9.59	9.85	9.73	9.73	1.33	ppb
Calcium	43-1	132938.91	134158.73	136873.33	134656.99	1.50	ppb
Calcium	44-1	134694.26	135436.68	136167.66	135432.87	0.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	45.63	38.13	40.12	41.29	9.41	ppb
Cobalt	59-2	19.26	15.93	16.87	17.35	9.88	ppb
Copper	63-2	114.66	95.54	100.83	103.67	9.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				107		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	56-2	35087.74	29058.87	30921.22	31689.27	9.74	ppb
Iron	57-2	35689.26	29265.82	30837.35	31930.81	10.49	ppb
Iron	54-2	34975.38	28883.80	30401.94	31420.37	10.09	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:50:18 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	374.84	397.76	391.89	388.16	3.07	ppb
Lead	207-1	365.39	376.50	383.43	375.10	2.43	ppb
Lead	208-1	367.32	380.89	382.08	376.76	2.18	ppb
Lithium	6-1				104		%
Magnesium	24-2	14204.03	12003.73	12425.91	12877.89	9.07	ppb
Manganese	55-2	1091.28	904.48	960.84	985.54	9.72	ppb
Molybdenum	94-1	6.71	6.72	6.88	6.77	1.47	ppb
Molybdenum	95-1	5.19	5.14	5.26	5.20	1.18	ppb
Molybdenum	96-1	5.74	5.75	5.71	5.73	0.41	ppb
Molybdenum	97-1	5.20	5.35	5.25	5.27	1.45	ppb
Molybdenum	98-1	5.14	5.20	5.29	5.21	1.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	84.25	69.74	74.70	76.23	9.67	ppb
Phosphorus	31-2	2231.13	1870.68	1954.22	2018.68	9.35	ppb
Potassium	39-2	2638.18	2175.06	2325.53	2379.59	9.93	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	3.49	3.87	3.07	3.48	11.46	ppb
Selenium	77-2	20.57	16.04	13.24	16.61	22.26	ppb
Selenium	78-2	6.09	4.17	4.67	4.98	19.94	ppb
Silicon	28-1	2244.97	2282.98	2292.68	2273.54	1.11	ppb
Silver	107-1	1.10	1.11	1.08	1.10	1.40	ppb
Silver	109-1	1.10	1.14	1.10	1.11	2.04	ppb
Sodium	23-2	473.93	394.99	417.26	428.73	9.49	ppb
Strontium	86-1	500.56	499.77	507.05	502.46	0.80	ppb
Strontium	88-1	493.65	495.24	505.08	497.99	1.24	ppb
Sulfur	34-1	18111.55	18901.98	18499.80	18504.44	2.14	ppb
Terbium	159-1				115		%
Terbium	159-2				106		%
Thallium	203-1	1.22	1.30	1.27	1.26	3.13	ppb
Thallium	205-1	1.22	1.27	1.25	1.25	1.88	ppb
Tin	118-1	2.87	2.98	3.00	2.95	2.35	ppb
Titanium	47-1	49.68	50.41	51.05	50.38	1.37	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK1

Dilution Factor :

2

Date & Time Acquired :

2024-10-31 23:50:18

DataFile Name :

073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.26	4.49	4.42	4.39	2.61	ppb
Vanadium	51-2	86.08	71.87	75.89	77.95	9.40	ppb
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	971.82	804.57	850.26	875.55	9.87	ppb
Zirconium	90-1	1.38	1.45	1.43	1.42	2.51	ppb
Zirconium	91-1	1.44	1.44	1.54	1.47	4.01	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:53:21 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8116.84	8091.81	8221.68	8143.44	0.85	ppb
Antimony	121-1	1.67	1.70	1.81	1.72	4.16	ppb
Arsenic	75-2	23.50	22.71	23.08	23.10	1.71	ppb
Barium	135-1	285.05	289.68	292.34	289.03	1.28	ppb
Barium	137-1	313.27	319.70	322.09	318.35	1.43	ppb
Beryllium	9-1	3.13	3.19	3.19	3.17	1.11	ppb
Bismuth	209-1				117		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.33	9.07	9.65	9.35	3.06	ppb
Cadmium	106-1	8.06	7.30	7.53	7.63	5.08	ppb
Cadmium	111-1	9.48	9.60	9.69	9.59	1.13	ppb
Calcium	43-1	135891.98	135341.95	134125.56	135119.83	0.67	ppb
Calcium	44-1	136050.45	135637.57	135146.47	135611.50	0.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.13	39.44	40.15	39.91	1.02	ppb
Cobalt	59-2	16.68	16.86	16.82	16.79	0.57	ppb
Copper	63-2	99.75	100.51	100.88	100.38	0.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				110		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	56-2	30758.73	30684.87	30721.61	30721.74	0.12	ppb
Iron	57-2	30893.28	30959.23	31522.19	31124.90	1.11	ppb
Iron	54-2	30707.17	30861.62	30547.61	30705.47	0.51	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:53:21 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	387.56	381.84	387.95	385.78	0.89	ppb
Lead	207-1	375.29	366.15	371.85	371.10	1.24	ppb
Lead	208-1	375.00	371.28	375.27	373.85	0.60	ppb
Lithium	6-1				103		%
Magnesium	24-2	12402.43	12504.31	12536.75	12481.16	0.56	ppb
Manganese	55-2	952.33	941.34	941.81	945.16	0.66	ppb
Molybdenum	94-1	7.01	6.85	6.96	6.94	1.21	ppb
Molybdenum	95-1	5.17	5.16	5.27	5.20	1.20	ppb
Molybdenum	96-1	5.71	5.74	5.78	5.74	0.60	ppb
Molybdenum	97-1	5.26	5.33	5.40	5.33	1.29	ppb
Molybdenum	98-1	5.23	5.29	5.36	5.29	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	73.14	73.32	74.40	73.62	0.92	ppb
Phosphorus	31-2	1986.83	2027.98	1959.99	1991.60	1.72	ppb
Potassium	39-2	2277.92	2316.06	2318.55	2304.18	0.99	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	3.59	3.18	3.27	3.35	6.46	ppb
Selenium	77-2	17.59	17.35	14.94	16.63	8.84	ppb
Selenium	78-2	5.48	5.38	4.79	5.22	7.23	ppb
Silicon	28-1	2301.76	2312.68	2307.47	2307.30	0.24	ppb
Silver	107-1	1.09	1.09	1.12	1.10	1.42	ppb
Silver	109-1	1.07	1.07	1.13	1.09	2.94	ppb
Sodium	23-2	409.51	409.91	411.48	410.30	0.25	ppb
Strontium	86-1	510.76	511.13	502.87	508.25	0.92	ppb
Strontium	88-1	495.25	499.94	504.46	499.88	0.92	ppb
Sulfur	34-1	19312.43	19007.65	18865.36	19061.81	1.20	ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	1.28	1.23	1.23	1.25	2.41	ppb
Thallium	205-1	1.28	1.25	1.24	1.25	1.64	ppb
Tin	118-1	2.89	2.96	2.96	2.94	1.38	ppb
Titanium	47-1	50.83	51.24	50.92	51.00	0.43	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-02DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK1D

Dilution Factor :

2

Date & Time Acquired :

2024-10-31 23:53:21

DataFile Name :

074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.41	4.35	4.43	4.40	0.93	ppb
Vanadium	51-2	76.15	76.21	76.44	76.26	0.20	ppb
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	854.27	848.06	853.65	851.99	0.40	ppb
Zirconium	90-1	1.43	1.44	1.47	1.45	1.34	ppb
Zirconium	91-1	1.40	1.44	1.53	1.46	4.72	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 10
Date & Time Acquired : 2024-10-31 23:56:21 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1774.37	1753.75	1757.51	1761.87	0.62	ppb
Antimony	121-1	0.36	0.35	0.35	0.35	1.47	ppb
Arsenic	75-2	5.39	4.93	5.15	5.16	4.40	ppb
Barium	135-1	62.29	63.22	62.68	62.73	0.75	ppb
Barium	137-1	63.16	63.29	62.77	63.07	0.43	ppb
Beryllium	9-1	0.64	0.68	0.67	0.66	2.88	ppb
Bismuth	209-1				118		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.03	1.95	2.23	2.07	6.92	ppb
Cadmium	106-1	0.35	0.32	0.47	0.38	21.08	ppb
Cadmium	111-1	2.07	2.13	2.01	2.07	2.93	ppb
Calcium	43-1	29599.52	30370.24	29860.08	29943.28	1.31	ppb
Calcium	44-1	28545.94	28994.50	28878.17	28806.20	0.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.51	8.59	8.75	8.62	1.43	ppb
Cobalt	59-2	3.65	3.60	3.58	3.61	0.97	ppb
Copper	63-2	22.44	21.98	22.13	22.18	1.07	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	6660.90	6618.40	6666.12	6648.47	0.39	ppb
Iron	57-2	6854.90	6790.52	6845.96	6830.46	0.51	ppb
Iron	54-2	6678.98	6604.11	6514.03	6599.04	1.25	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 10
Date & Time Acquired : 2024-10-31 23:56:21 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	67.92	70.02	70.11	69.35	1.79	ppb
Lead	207-1	65.03	66.93	66.14	66.03	1.45	ppb
Lead	208-1	65.89	67.78	67.47	67.05	1.51	ppb
Lithium	6-1				102		%
Magnesium	24-2	2703.19	2628.65	2687.91	2673.25	1.47	ppb
Manganese	55-2	205.27	202.46	203.80	203.84	0.69	ppb
Molybdenum	94-1	1.48	1.55	1.49	1.50	2.41	ppb
Molybdenum	95-1	1.20	1.18	1.18	1.19	0.88	ppb
Molybdenum	96-1	1.24	1.27	1.30	1.27	2.31	ppb
Molybdenum	97-1	1.16	1.21	1.19	1.19	2.45	ppb
Molybdenum	98-1	1.16	1.15	1.18	1.17	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.26	16.02	16.02	16.10	0.86	ppb
Phosphorus	31-2	416.73	415.37	417.92	416.67	0.31	ppb
Potassium	39-2	526.93	522.43	523.90	524.42	0.44	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				95		%
Scandium	45-2				92		%
Selenium	82-1	0.69	0.44	0.82	0.65	29.99	ppb
Selenium	77-2	3.96	2.38	4.65	3.66	31.67	ppb
Selenium	78-2	0.30	0.54	0.98	0.61	56.87	ppb
Silicon	28-1	481.31	486.92	479.09	482.44	0.84	ppb
Silver	107-1	0.24	0.24	0.25	0.24	1.36	ppb
Silver	109-1	0.24	0.25	0.24	0.25	1.43	ppb
Sodium	23-2	115.05	115.08	113.37	114.50	0.85	ppb
Strontium	86-1	106.56	106.70	106.32	106.53	0.18	ppb
Strontium	88-1	109.93	111.87	109.93	110.58	1.01	ppb
Sulfur	34-1	3776.18	3890.65	3825.83	3830.89	1.50	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	0.25	0.25	0.25	0.25	1.44	ppb
Thallium	205-1	0.25	0.26	0.26	0.25	1.26	ppb
Tin	118-1	0.92	0.58	0.58	0.69	28.02	ppb
Titanium	47-1	10.54	10.89	10.76	10.73	1.66	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MH2GK1L

Dilution Factor :

10

Date & Time Acquired :

2024-10-31 23:56:21

DataFile Name :

075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.89	0.90	0.92	0.90	1.43	ppb
Vanadium	51-2	16.34	16.03	16.05	16.14	1.06	ppb
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	187.63	186.28	186.61	186.84	0.38	ppb
Zirconium	90-1	0.31	0.33	0.33	0.32	4.12	ppb
Zirconium	91-1	0.32	0.31	0.31	0.31	1.94	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:59:33 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8264.96	8173.16	8062.03	8166.72	1.24	ppb
Antimony	121-1	10.80	11.14	11.19	11.04	1.89	ppb
Arsenic	75-2	25.48	26.77	26.69	26.31	2.75	ppb
Barium	135-1	490.14	504.44	500.26	498.28	1.48	ppb
Barium	137-1	489.80	514.63	507.83	504.09	2.55	ppb
Beryllium	9-1	7.78	7.87	7.98	7.88	1.30	ppb
Bismuth	209-1				118		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	12.78	12.98	14.53	13.43	7.10	ppb
Cadmium	106-1	11.05	12.64	12.22	11.97	6.87	ppb
Cadmium	111-1	13.86	13.96	14.23	14.02	1.38	ppb
Calcium	43-1	130330.78	131158.46	128917.40	130135.55	0.87	ppb
Calcium	44-1	130807.36	131460.05	130242.66	130836.69	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	60.01	60.41	59.84	60.09	0.49	ppb
Cobalt	59-2	68.35	68.10	68.34	68.26	0.21	ppb
Copper	63-2	121.49	122.03	121.76	121.76	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				110		%
Indium	115-1				104		%
Indium	115-2				99		%
Iron	56-2	30103.90	30020.61	29889.74	30004.75	0.36	ppb
Iron	57-2	30088.05	30185.14	30049.84	30107.68	0.23	ppb
Iron	54-2	29837.65	29596.80	30145.24	29859.90	0.92	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:59:33 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	366.84	369.13	372.15	369.37	0.72	ppb
Lead	207-1	353.45	358.52	361.02	357.66	1.08	ppb
Lead	208-1	358.01	362.67	365.90	362.19	1.10	ppb
Lithium	6-1				102		%
Magnesium	24-2	12044.09	12066.59	12165.36	12092.01	0.53	ppb
Manganese	55-2	978.83	995.62	986.42	986.96	0.85	ppb
Molybdenum	94-1	6.42	6.70	6.70	6.61	2.49	ppb
Molybdenum	95-1	5.04	5.12	5.11	5.09	0.85	ppb
Molybdenum	96-1	5.39	5.50	5.61	5.50	1.94	ppb
Molybdenum	97-1	5.00	5.15	5.20	5.12	2.03	ppb
Molybdenum	98-1	4.90	5.08	5.15	5.04	2.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	122.77	123.76	123.99	123.50	0.52	ppb
Phosphorus	31-2	1924.48	1879.01	1896.22	1899.91	1.21	ppb
Potassium	39-2	2203.89	2206.10	2241.97	2217.32	0.96	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				95		%
Scandium	45-2				93		%
Selenium	82-1	13.11	13.79	13.86	13.59	3.05	ppb
Selenium	77-2	24.56	25.29	29.47	26.44	10.02	ppb
Selenium	78-2	16.58	15.33	15.11	15.67	5.06	ppb
Silicon	28-1	2205.24	2222.80	2219.98	2216.00	0.43	ppb
Silver	107-1	5.43	5.72	5.76	5.64	3.18	ppb
Silver	109-1	5.54	5.71	5.77	5.67	2.05	ppb
Sodium	23-2	385.53	389.51	389.50	388.18	0.59	ppb
Strontium	86-1	482.85	492.08	495.86	490.26	1.37	ppb
Strontium	88-1	477.79	484.12	486.58	482.83	0.94	ppb
Sulfur	34-1	17669.12	17776.78	17810.85	17752.25	0.42	ppb
Terbium	159-1				115		%
Terbium	159-2				109		%
Thallium	203-1	5.31	5.57	5.55	5.47	2.66	ppb
Thallium	205-1	5.34	5.50	5.56	5.47	2.06	ppb
Tin	118-1	2.68	2.78	2.84	2.77	2.90	ppb
Titanium	47-1	48.04	48.52	48.12	48.23	0.54	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-03DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK1S

Dilution Factor :

2

Date & Time Acquired :

2024-10-31 23:59:33

DataFile Name :

076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.15	4.21	4.22	4.19	0.90	ppb
Vanadium	51-2	125.88	125.86	125.87	125.87	0.01	ppb
Yttrium	89-1				107		%
Yttrium	89-2				105		%
Zinc	66-2	877.17	875.43	877.75	876.78	0.14	ppb
Zirconium	90-1	1.37	1.40	1.40	1.39	1.38	ppb
Zirconium	91-1	1.39	1.47	1.38	1.41	3.22	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:08:35 DataFile Name : 079CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	45783.01	46223.52	46115.18	46040.57	0.50	ppb
Antimony	121-1	471.49	478.68	477.53	475.90	0.81	ppb
Arsenic	75-2	504.32	513.09	506.01	507.81	0.92	ppb
Barium	135-1	2389.92	2408.02	2397.29	2398.41	0.38	ppb
Barium	137-1	2424.10	2446.63	2455.57	2442.10	0.66	ppb
Beryllium	9-1	496.30	492.16	505.46	497.97	1.37	ppb
Bismuth	209-1				106		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	510.17	510.66	513.92	511.58	0.40	ppb
Cadmium	106-1	508.22	514.88	509.14	510.75	0.71	ppb
Cadmium	111-1	485.06	489.74	489.72	488.17	0.55	ppb
Calcium	43-1	243705.14	244830.10	246305.84	244947.03	0.53	ppb
Calcium	44-1	242537.48	242841.02	244104.23	243160.91	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.95	507.63	507.31	506.63	0.29	ppb
Cobalt	59-2	520.44	525.08	518.62	521.38	0.64	ppb
Copper	63-2	5089.29	5145.72	5128.75	5121.25	0.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				106		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	56-2	125325.81	126960.65	125243.90	125843.45	0.77	ppb
Iron	57-2	124928.46	125228.82	124235.51	124797.60	0.41	ppb
Iron	54-2	125670.41	126015.38	125860.88	125848.89	0.14	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:08:35 DataFile Name : 079CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2561.68	2550.25	2592.88	2568.27	0.86	ppb
Lead	207-1	2537.14	2473.33	2566.30	2525.59	1.88	ppb
Lead	208-1	2539.43	2494.38	2571.38	2535.06	1.53	ppb
Lithium	6-1				97		%
Magnesium	24-2	247471.11	249728.69	247453.62	248217.81	0.53	ppb
Manganese	55-2	4908.30	4996.16	4935.86	4946.78	0.91	ppb
Molybdenum	94-1	5085.87	4993.29	5042.41	5040.52	0.92	ppb
Molybdenum	95-1	5035.67	4924.37	5082.28	5014.11	1.62	ppb
Molybdenum	96-1	5042.61	4942.64	5036.56	5007.27	1.12	ppb
Molybdenum	97-1	5033.90	4939.68	5078.15	5017.25	1.41	ppb
Molybdenum	98-1	5060.73	4967.80	5046.09	5024.88	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	491.72	492.21	486.48	490.14	0.65	ppb
Phosphorus	31-2	9563.59	9719.25	9607.95	9630.26	0.83	ppb
Potassium	39-2	117101.18	117814.37	117373.26	117429.60	0.31	ppb
Rhodium	103-1				88		%
Rhodium	103-2				91		%
Scandium	45-1				90		%
Scandium	45-2				93		%
Selenium	82-1	500.19	490.79	498.72	496.56	1.02	ppb
Selenium	77-2	499.58	500.32	495.70	498.53	0.50	ppb
Selenium	78-2	490.97	490.02	497.57	492.85	0.83	ppb
Silicon	28-1	2803.65	2810.47	2835.54	2816.55	0.60	ppb
Silver	107-1	473.76	477.52	476.86	476.05	0.42	ppb
Silver	109-1	477.59	471.91	474.31	474.61	0.60	ppb
Sodium	23-2	232984.77	236366.25	235304.26	234885.10	0.74	ppb
Strontium	86-1	12447.87	12368.73	12614.82	12477.14	1.01	ppb
Strontium	88-1	12510.53	12315.13	12522.67	12449.44	0.94	ppb
Sulfur	34-1	9164.43	9077.73	9094.21	9112.12	0.51	ppb
Terbium	159-1				110		%
Terbium	159-2				105		%
Thallium	203-1	523.41	512.51	512.94	516.29	1.19	ppb
Thallium	205-1	513.64	511.13	511.02	511.93	0.29	ppb
Tin	118-1	466.89	470.39	470.66	469.31	0.45	ppb
Titanium	47-1	5023.69	4921.85	4975.84	4973.79	1.02	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV003

Instrumnet Name :

P7

Client Sample ID :

CCV003

Dilution Factor :

1

Date & Time Acquired :

2024-11-01 00:08:35

DataFile Name :

079CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	531.92	521.04	519.48	524.15	1.29	ppb
Vanadium	51-2	504.81	503.51	503.05	503.79	0.18	ppb
Yttrium	89-1				96		%
Yttrium	89-2				95		%
Zinc	66-2	5075.65	5094.07	5083.56	5084.43	0.18	ppb
Zirconium	90-1	515.02	504.70	514.44	511.39	1.13	ppb
Zirconium	91-1	518.24	506.14	517.46	513.94	1.32	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:13:13 DataFile Name : 080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.55	3.63	3.37	3.52	3.82	ppb
Antimony	121-1	0.15	0.15	0.16	0.16	4.12	ppb
Arsenic	75-2	0.02	0.04	0.02	0.03	60.76	ppb
Barium	135-1	0.20	0.15	0.19	0.18	13.90	ppb
Barium	137-1	0.23	0.16	0.17	0.19	20.14	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	4.15	ppb
Bismuth	209-1				117		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.00	0.05	0.01	212.02	ppb
Cadmium	106-1	-2.65	-3.01	-2.96	-2.87		ppb
Cadmium	111-1	0.02	0.01	0.00	0.01	55.11	ppb
Calcium	43-1	53.07	55.42	55.06	54.52	2.33	ppb
Calcium	44-1	51.32	46.99	49.57	49.29	4.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.03	0.05	0.04	17.93	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	6.13	ppb
Copper	63-2	0.30	0.31	0.32	0.31	2.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				105		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	13.17	13.32	13.25	13.25	0.55	ppb
Iron	57-2	9.98	9.36	11.64	10.33	11.45	ppb
Iron	54-2	12.81	14.22	14.34	13.79	6.19	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:13:13 DataFile Name : 080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.44	0.43	0.42	0.43	1.76	ppb
Lead	207-1	0.42	0.39	0.42	0.41	4.20	ppb
Lead	208-1	0.42	0.40	0.42	0.42	2.96	ppb
Lithium	6-1				100		%
Magnesium	24-2	16.52	17.02	15.79	16.45	3.76	ppb
Manganese	55-2	0.46	0.48	0.45	0.47	3.33	ppb
Molybdenum	94-1	0.28	0.32	0.32	0.30	7.62	ppb
Molybdenum	95-1	0.26	0.25	0.24	0.25	3.34	ppb
Molybdenum	96-1	0.26	0.25	0.27	0.26	4.59	ppb
Molybdenum	97-1	0.26	0.27	0.24	0.25	6.48	ppb
Molybdenum	98-1	0.24	0.25	0.24	0.24	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	0.04	0.02	0.03	42.41	ppb
Phosphorus	31-2	-15.89	-15.02	-17.76	-16.22		ppb
Potassium	39-2	4.58	5.38	5.54	5.16	9.92	ppb
Rhodium	103-1				96		%
Rhodium	103-2				100		%
Scandium	45-1				89		%
Scandium	45-2				88		%
Selenium	82-1	-0.74	-0.03	-0.31	-0.36		ppb
Selenium	77-2	0.29	0.30	0.12	0.24	42.57	ppb
Selenium	78-2	-0.40	0.19	-0.29	-0.17		ppb
Silicon	28-1	-4.42	-4.51	-4.11	-4.35		ppb
Silver	107-1	0.04	0.04	0.03	0.04	8.47	ppb
Silver	109-1	0.03	0.03	0.03	0.03	3.26	ppb
Sodium	23-2	27.07	25.82	26.41	26.44	2.37	ppb
Strontium	86-1	0.66	0.67	0.69	0.67	2.09	ppb
Strontium	88-1	0.67	0.65	0.65	0.66	1.55	ppb
Sulfur	34-1	-370.28	-400.52	-327.48	-366.10		ppb
Terbium	159-1				109		%
Terbium	159-2				106		%
Thallium	203-1	0.04	0.05	0.05	0.05	11.64	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	4.24	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.23	0.14	0.20	0.19	25.82	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :CCB003

Instrumnet Name :P7

Client Sample ID :CCB003

Dilution Factor :1

Date & Time Acquired :2024-11-01 00:13:13

DataFile Name :080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	9.72	ppb
Vanadium	51-2	0.03	0.03	0.05	0.04	35.99	ppb
Yttrium	89-1				96		%
Yttrium	89-2				95		%
Zinc	66-2	0.43	0.38	0.39	0.40	6.84	ppb
Zirconium	90-1	0.05	0.06	0.07	0.06	14.69	ppb
Zirconium	91-1	0.07	0.06	0.07	0.07	6.93	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:16:31 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6535.18	6537.12	6481.72	6518.01	0.48	ppb
Antimony	121-1	1.07	1.10	1.13	1.10	2.62	ppb
Arsenic	75-2	47.66	47.41	47.84	47.64	0.45	ppb
Barium	135-1	155.61	157.60	159.20	157.47	1.14	ppb
Barium	137-1	156.38	158.74	160.73	158.62	1.37	ppb
Beryllium	9-1	3.39	3.38	3.40	3.39	0.20	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.95	10.87	10.42	10.41	4.39	ppb
Cadmium	106-1	8.23	9.12	8.47	8.61	5.31	ppb
Cadmium	111-1	10.61	10.43	10.74	10.59	1.47	ppb
Calcium	43-1	155188.30	155089.72	154174.25	154817.42	0.36	ppb
Calcium	44-1	155460.21	156946.92	157340.57	156582.57	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	15.41	15.50	15.50	15.47	0.33	ppb
Cobalt	59-2	17.88	17.87	17.88	17.88	0.02	ppb
Copper	63-2	103.75	103.63	103.53	103.64	0.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				109		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	56-2	40961.16	40562.62	40943.99	40822.59	0.55	ppb
Iron	57-2	41166.39	40783.44	41143.35	41031.06	0.52	ppb
Iron	54-2	40355.43	40360.64	39905.46	40207.18	0.65	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:16:31 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	292.54	297.48	301.55	297.19	1.52	ppb
Lead	207-1	290.64	290.30	290.46	290.47	0.06	ppb
Lead	208-1	293.67	290.75	291.12	291.85	0.54	ppb
Lithium	6-1				106		%
Magnesium	24-2	19179.41	19073.24	18919.41	19057.35	0.69	ppb
Manganese	55-2	627.82	618.67	615.21	620.57	1.05	ppb
Molybdenum	94-1	14.06	13.95	14.14	14.05	0.68	ppb
Molybdenum	95-1	11.60	11.57	11.47	11.54	0.59	ppb
Molybdenum	96-1	12.25	11.93	12.24	12.14	1.51	ppb
Molybdenum	97-1	11.56	11.66	11.57	11.60	0.48	ppb
Molybdenum	98-1	11.49	11.50	11.56	11.52	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	104.23	103.59	103.74	103.85	0.32	ppb
Phosphorus	31-2	1563.08	1575.55	1547.60	1562.08	0.90	ppb
Potassium	39-2	1798.92	1787.27	1790.31	1792.17	0.34	ppb
Rhodium	103-1				96		%
Rhodium	103-2				99		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	8.59	9.10	9.08	8.92	3.26	ppb
Selenium	77-2	23.72	20.26	25.11	23.03	10.84	ppb
Selenium	78-2	9.08	9.80	8.68	9.18	6.17	ppb
Silicon	28-1	1595.87	1587.83	1600.12	1594.61	0.39	ppb
Silver	107-1	1.38	1.35	1.33	1.35	1.69	ppb
Silver	109-1	1.35	1.36	1.35	1.35	0.45	ppb
Sodium	23-2	446.96	444.70	443.75	445.13	0.37	ppb
Strontium	86-1	666.57	657.16	663.00	662.24	0.72	ppb
Strontium	88-1	652.39	655.65	654.88	654.30	0.26	ppb
Sulfur	34-1	36438.09	36557.01	36279.75	36424.95	0.38	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	1.84	1.77	1.80	1.81	1.93	ppb
Thallium	205-1	1.83	1.76	1.82	1.80	1.93	ppb
Tin	118-1	2.31	2.31	2.34	2.32	0.71	ppb
Titanium	47-1	29.58	30.25	30.55	30.12	1.65	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:16:31

DataFile Name :

081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.60	5.56	5.63	5.60	0.64	ppb
Vanadium	51-2	86.83	86.40	86.89	86.71	0.31	ppb
Yttrium	89-1				107		%
Yttrium	89-2				105		%
Zinc	66-2	767.79	764.74	763.72	765.42	0.28	ppb
Zirconium	90-1	2.55	2.60	2.57	2.57	0.88	ppb
Zirconium	91-1	2.60	2.60	2.54	2.58	1.32	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:19:33 DataFile Name : 082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6219.26	6302.54	6317.33	6279.71	0.84	ppb
Antimony	121-1	1.01	0.99	0.97	0.99	2.39	ppb
Arsenic	75-2	44.95	44.08	44.34	44.46	1.00	ppb
Barium	135-1	152.55	154.04	152.05	152.88	0.68	ppb
Barium	137-1	154.27	154.90	151.44	153.54	1.20	ppb
Beryllium	9-1	3.37	3.30	3.37	3.34	1.22	ppb
Bismuth	209-1				115		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.18	9.35	10.29	10.27	8.91	ppb
Cadmium	106-1	8.98	9.09	8.17	8.75	5.73	ppb
Cadmium	111-1	10.33	10.75	10.32	10.47	2.33	ppb
Calcium	43-1	152524.29	154269.73	152764.86	153186.30	0.62	ppb
Calcium	44-1	154811.64	154874.70	154032.57	154572.97	0.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.87	14.92	15.01	14.93	0.49	ppb
Cobalt	59-2	17.60	17.49	17.49	17.53	0.37	ppb
Copper	63-2	100.31	99.60	100.25	100.05	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	56-2	38901.11	38640.86	38492.47	38678.15	0.53	ppb
Iron	57-2	38522.41	38687.44	39464.03	38891.29	1.29	ppb
Iron	54-2	38592.24	38108.83	38709.38	38470.15	0.83	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:19:33 DataFile Name : 082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	291.02	297.77	293.77	294.19	1.15	ppb
Lead	207-1	291.29	294.32	283.18	289.59	1.99	ppb
Lead	208-1	290.05	294.36	286.89	290.43	1.29	ppb
Lithium	6-1				107		%
Magnesium	24-2	18882.38	18827.25	18765.00	18824.88	0.31	ppb
Manganese	55-2	615.36	605.92	611.86	611.05	0.78	ppb
Molybdenum	94-1	12.72	12.75	12.78	12.75	0.22	ppb
Molybdenum	95-1	10.60	10.40	10.43	10.48	1.05	ppb
Molybdenum	96-1	11.13	11.03	11.14	11.10	0.58	ppb
Molybdenum	97-1	10.50	10.43	10.51	10.48	0.40	ppb
Molybdenum	98-1	10.37	10.56	10.48	10.47	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	100.31	100.10	98.70	99.70	0.88	ppb
Phosphorus	31-2	1539.43	1564.49	1489.14	1531.02	2.51	ppb
Potassium	39-2	1723.89	1735.30	1744.09	1734.43	0.58	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	8.57	8.58	8.59	8.58	0.12	ppb
Selenium	77-2	22.51	20.19	22.99	21.90	6.84	ppb
Selenium	78-2	10.99	8.26	9.59	9.61	14.24	ppb
Silicon	28-1	1570.20	1575.59	1579.80	1575.20	0.31	ppb
Silver	107-1	1.31	1.34	1.30	1.32	1.54	ppb
Silver	109-1	1.29	1.35	1.29	1.31	2.88	ppb
Sodium	23-2	432.88	439.06	443.81	438.58	1.25	ppb
Strontium	86-1	645.24	652.40	652.66	650.10	0.65	ppb
Strontium	88-1	639.41	636.71	645.29	640.47	0.69	ppb
Sulfur	34-1	36216.93	36579.15	36365.57	36387.22	0.50	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	1.74	1.76	1.78	1.76	1.10	ppb
Thallium	205-1	1.73	1.79	1.74	1.75	2.09	ppb
Tin	118-1	2.07	2.07	2.04	2.06	0.78	ppb
Titanium	47-1	27.86	28.71	28.28	28.28	1.50	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-02DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2D

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:19:33

DataFile Name :

082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.54	5.66	5.61	5.60	1.10	ppb
Vanadium	51-2	83.27	83.32	83.50	83.36	0.15	ppb
Yttrium	89-1				109		%
Yttrium	89-2				106		%
Zinc	66-2	746.97	747.76	746.56	747.09	0.08	ppb
Zirconium	90-1	2.35	2.39	2.41	2.38	1.29	ppb
Zirconium	91-1	2.38	2.36	2.41	2.38	1.04	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 10
Date & Time Acquired : 2024-11-01 00:22:38 DataFile Name : 083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1357.64	1355.65	1358.71	1357.33	0.11	ppb
Antimony	121-1	0.22	0.23	0.25	0.23	7.62	ppb
Arsenic	75-2	9.88	10.24	10.27	10.13	2.17	ppb
Barium	135-1	31.34	31.99	32.54	31.96	1.88	ppb
Barium	137-1	31.55	31.93	32.93	32.14	2.22	ppb
Beryllium	9-1	0.75	0.71	0.71	0.73	3.36	ppb
Bismuth	209-1				117		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.58	1.86	2.26	2.23	16.19	ppb
Cadmium	106-1	0.98	0.63	0.39	0.66	44.82	ppb
Cadmium	111-1	2.10	2.22	2.26	2.19	3.81	ppb
Calcium	43-1	33163.07	33583.69	33717.73	33488.16	0.86	ppb
Calcium	44-1	32023.49	32222.75	32594.38	32280.21	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.31	3.23	3.30	3.28	1.27	ppb
Cobalt	59-2	3.74	3.70	3.78	3.74	1.13	ppb
Copper	63-2	22.08	21.96	22.04	22.03	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	8405.35	8431.62	8435.43	8424.13	0.19	ppb
Iron	57-2	8654.96	8631.19	8609.03	8631.73	0.27	ppb
Iron	54-2	8474.32	8344.11	8438.86	8419.10	0.80	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 10
Date & Time Acquired : 2024-11-01 00:22:38 DataFile Name : 083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	49.38	50.22	50.99	50.20	1.61	ppb
Lead	207-1	48.20	48.64	49.71	48.85	1.59	ppb
Lead	208-1	48.69	49.57	50.30	49.52	1.63	ppb
Lithium	6-1				104		%
Magnesium	24-2	3996.23	3937.73	3936.37	3956.78	0.86	ppb
Manganese	55-2	127.62	127.64	126.65	127.31	0.44	ppb
Molybdenum	94-1	3.01	3.04	3.08	3.04	1.29	ppb
Molybdenum	95-1	2.46	2.49	2.56	2.51	2.11	ppb
Molybdenum	96-1	2.61	2.67	2.73	2.67	2.21	ppb
Molybdenum	97-1	2.47	2.52	2.64	2.54	3.54	ppb
Molybdenum	98-1	2.54	2.49	2.55	2.53	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.94	21.56	21.66	21.72	0.91	ppb
Phosphorus	31-2	305.74	303.41	303.53	304.23	0.43	ppb
Potassium	39-2	380.15	375.70	378.20	378.02	0.59	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	2.10	1.82	1.69	1.87	11.01	ppb
Selenium	77-2	4.41	4.07	5.77	4.75	18.95	ppb
Selenium	78-2	1.73	1.18	2.78	1.90	43.11	ppb
Silicon	28-1	323.88	322.04	330.30	325.41	1.33	ppb
Silver	107-1	0.28	0.28	0.29	0.28	1.08	ppb
Silver	109-1	0.28	0.29	0.28	0.28	2.62	ppb
Sodium	23-2	129.89	128.03	127.21	128.37	1.07	ppb
Strontium	86-1	130.57	132.95	133.96	132.50	1.31	ppb
Strontium	88-1	135.60	137.70	139.29	137.53	1.35	ppb
Sulfur	34-1	7263.84	7311.14	7405.79	7326.92	0.99	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	0.35	0.36	0.36	0.36	1.60	ppb
Thallium	205-1	0.35	0.36	0.34	0.35	2.87	ppb
Tin	118-1	0.45	0.45	0.46	0.45	1.39	ppb
Titanium	47-1	6.49	6.29	6.21	6.33	2.27	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MH2GK2L

Dilution Factor :

10

Date & Time Acquired :

2024-11-01 00:22:38

DataFile Name :

083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.05	1.11	1.11	1.09	3.12	ppb
Vanadium	51-2	18.10	17.76	17.68	17.85	1.26	ppb
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	162.63	163.88	162.15	162.89	0.55	ppb
Zirconium	90-1	0.54	0.55	0.57	0.55	2.53	ppb
Zirconium	91-1	0.54	0.57	0.59	0.57	3.77	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:25:48 DataFile Name : 084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6521.46	6377.43	7320.85	6739.92	7.54	ppb
Antimony	121-1	10.59	10.84	10.86	10.76	1.39	ppb
Arsenic	75-2	49.54	49.70	57.17	52.14	8.35	ppb
Barium	135-1	334.17	341.92	346.73	340.94	1.86	ppb
Barium	137-1	365.74	374.07	377.88	372.56	1.67	ppb
Beryllium	9-1	7.98	8.17	8.36	8.17	2.36	ppb
Bismuth	209-1				116		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	15.67	14.48	15.13	15.10	3.96	ppb
Cadmium	106-1	13.75	12.63	13.80	13.39	4.95	ppb
Cadmium	111-1	14.84	15.32	15.18	15.11	1.62	ppb
Calcium	43-1	151880.86	154023.39	157857.84	154587.37	1.96	ppb
Calcium	44-1	152824.38	153391.90	156404.50	154206.93	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.38	35.83	41.38	37.86	8.08	ppb
Cobalt	59-2	69.65	69.08	79.33	72.69	7.92	ppb
Copper	63-2	126.21	125.10	142.60	131.30	7.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				105		%
Indium	115-1				103		%
Indium	115-2				95		%
Iron	56-2	39624.76	39131.33	45150.98	41302.35	8.09	ppb
Iron	57-2	40115.91	39617.12	45391.52	41708.18	7.67	ppb
Iron	54-2	39435.82	38832.33	44709.55	40992.57	7.89	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:25:48 DataFile Name : 084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	284.96	291.78	288.88	288.54	1.19	ppb
Lead	207-1	286.18	288.89	279.98	285.02	1.60	ppb
Lead	208-1	286.42	287.22	285.00	286.21	0.39	ppb
Lithium	6-1				106		%
Magnesium	24-2	18608.83	18477.80	21147.69	19411.44	7.75	ppb
Manganese	55-2	663.16	652.86	755.08	690.37	8.15	ppb
Molybdenum	94-1	12.65	12.96	12.97	12.86	1.44	ppb
Molybdenum	95-1	10.62	10.85	10.92	10.80	1.47	ppb
Molybdenum	96-1	11.30	11.44	11.43	11.39	0.67	ppb
Molybdenum	97-1	10.63	10.88	10.90	10.80	1.40	ppb
Molybdenum	98-1	10.71	10.78	10.89	10.79	0.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	155.01	152.71	174.67	160.80	7.51	ppb
Phosphorus	31-2	1506.49	1519.91	1734.99	1587.13	8.08	ppb
Potassium	39-2	1746.93	1726.76	2000.13	1824.60	8.35	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				93		%
Selenium	82-1	18.98	19.10	19.22	19.10	0.63	ppb
Selenium	77-2	32.86	31.58	34.25	32.90	4.05	ppb
Selenium	78-2	19.45	18.96	22.98	20.47	10.73	ppb
Silicon	28-1	1474.53	1485.80	1504.57	1488.30	1.02	ppb
Silver	107-1	5.85	6.06	6.05	5.99	1.97	ppb
Silver	109-1	5.88	6.08	6.07	6.01	1.93	ppb
Sodium	23-2	433.37	430.90	503.10	455.79	8.99	ppb
Strontium	86-1	626.14	637.69	634.83	632.89	0.95	ppb
Strontium	88-1	618.58	625.60	626.57	623.59	0.70	ppb
Sulfur	34-1	35794.31	36082.37	36720.00	36198.89	1.31	ppb
Terbium	159-1				115		%
Terbium	159-2				104		%
Thallium	203-1	6.13	6.17	6.28	6.19	1.24	ppb
Thallium	205-1	6.05	6.16	6.19	6.13	1.17	ppb
Tin	118-1	2.24	2.36	2.32	2.31	2.67	ppb
Titanium	47-1	29.76	29.90	30.75	30.14	1.77	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-03DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2S

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:25:48

DataFile Name :

084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.44	5.49	5.56	5.50	1.11	ppb
Vanadium	51-2	136.77	135.84	156.22	142.94	8.05	ppb
Yttrium	89-1				110		%
Yttrium	89-2				102		%
Zinc	66-2	804.35	803.24	913.89	840.49	7.56	ppb
Zirconium	90-1	2.26	2.30	2.30	2.29	1.00	ppb
Zirconium	91-1	2.30	2.31	2.31	2.31	0.28	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:28:52 DataFile Name : 085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7353.37	7432.73	7261.53	7349.21	1.17	ppb
Antimony	121-1	1.18	1.15	1.18	1.17	1.66	ppb
Arsenic	75-2	15.25	15.23	15.95	15.48	2.65	ppb
Barium	135-1	413.65	423.91	416.49	418.01	1.27	ppb
Barium	137-1	462.78	459.74	455.32	459.28	0.82	ppb
Beryllium	9-1	2.35	2.31	2.23	2.30	2.75	ppb
Bismuth	209-1				117		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.50	8.13	6.86	7.50	8.47	ppb
Cadmium	106-1	7.73	6.08	5.24	6.35	19.96	ppb
Cadmium	111-1	7.66	7.68	7.50	7.61	1.32	ppb
Calcium	43-1	72477.24	73496.38	74666.35	73546.66	1.49	ppb
Calcium	44-1	72684.00	74048.15	74999.84	73910.67	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41.38	42.15	41.89	41.81	0.94	ppb
Cobalt	59-2	9.88	9.96	9.82	9.89	0.75	ppb
Copper	63-2	107.25	109.20	107.96	108.14	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	18128.32	18338.81	18107.86	18191.66	0.70	ppb
Iron	57-2	18187.24	18617.43	18126.61	18310.43	1.46	ppb
Iron	54-2	18042.12	18379.20	17988.71	18136.68	1.17	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:28:52 DataFile Name : 085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	419.19	415.20	418.29	417.56	0.50	ppb
Lead	207-1	408.72	411.20	410.25	410.06	0.31	ppb
Lead	208-1	407.27	413.20	408.80	409.76	0.75	ppb
Lithium	6-1				106		%
Magnesium	24-2	10410.72	10589.28	10525.29	10508.43	0.86	ppb
Manganese	55-2	954.78	963.85	953.20	957.28	0.60	ppb
Molybdenum	94-1	3.31	3.29	3.22	3.27	1.37	ppb
Molybdenum	95-1	1.55	1.57	1.61	1.58	2.04	ppb
Molybdenum	96-1	1.87	1.94	1.95	1.92	2.22	ppb
Molybdenum	97-1	1.58	1.59	1.61	1.59	1.01	ppb
Molybdenum	98-1	1.55	1.59	1.57	1.57	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	45.15	45.47	45.22	45.28	0.37	ppb
Phosphorus	31-2	2874.52	2876.41	2819.73	2856.88	1.13	ppb
Potassium	39-2	3339.74	3395.97	3287.68	3341.13	1.62	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	2.31	2.71	1.89	2.31	17.74	ppb
Selenium	77-2	10.84	12.66	10.91	11.47	8.99	ppb
Selenium	78-2	3.03	4.02	1.75	2.93	38.69	ppb
Silicon	28-1	3001.26	3039.33	3072.58	3037.72	1.17	ppb
Silver	107-1	1.34	1.39	1.38	1.37	1.88	ppb
Silver	109-1	1.36	1.37	1.38	1.37	0.57	ppb
Sodium	23-2	478.29	488.56	481.14	482.66	1.10	ppb
Strontium	86-1	382.17	391.22	396.31	389.90	1.84	ppb
Strontium	88-1	381.34	388.27	385.65	385.09	0.91	ppb
Sulfur	34-1	2073.43	2083.83	2152.01	2103.09	2.03	ppb
Terbium	159-1				114		%
Terbium	159-2				108		%
Thallium	203-1	0.68	0.69	0.69	0.69	0.54	ppb
Thallium	205-1	0.68	0.68	0.68	0.68	0.47	ppb
Tin	118-1	4.11	4.19	4.00	4.10	2.42	ppb
Titanium	47-1	60.45	61.35	60.90	60.90	0.74	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-08DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK7

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:28:52

DataFile Name :

085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.37	3.37	3.39	3.38	0.42	ppb
Vanadium	51-2	46.91	47.67	47.41	47.33	0.81	ppb
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	998.63	1005.21	993.79	999.21	0.57	ppb
Zirconium	90-1	1.13	1.17	1.23	1.18	4.40	ppb
Zirconium	91-1	1.13	1.14	1.24	1.17	5.56	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:31:52 DataFile Name : 086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9114.95	9007.47	9059.92	9060.78	0.59	ppb
Antimony	121-1	1.75	1.76	1.77	1.76	0.34	ppb
Arsenic	75-2	23.22	23.25	23.31	23.26	0.18	ppb
Barium	135-1	687.44	693.99	686.18	689.20	0.61	ppb
Barium	137-1	682.19	681.50	687.38	683.69	0.47	ppb
Beryllium	9-1	2.95	2.95	3.04	2.98	1.74	ppb
Bismuth	209-1				117		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.39	10.54	10.99	10.97	3.85	ppb
Cadmium	106-1	8.43	10.52	10.02	9.66	11.30	ppb
Cadmium	111-1	10.75	11.26	11.01	11.01	2.34	ppb
Calcium	43-1	101622.49	100684.00	104030.59	102112.36	1.69	ppb
Calcium	44-1	101414.15	101930.22	103812.39	102385.59	1.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28.55	28.36	28.14	28.35	0.73	ppb
Cobalt	59-2	13.41	13.29	13.36	13.35	0.47	ppb
Copper	63-2	161.40	160.61	161.35	161.12	0.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	25292.58	24842.31	24927.89	25020.92	0.96	ppb
Iron	57-2	25268.85	24957.56	24872.00	25032.80	0.83	ppb
Iron	54-2	25075.57	24701.56	24674.79	24817.31	0.90	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:31:52 DataFile Name : 086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	678.20	680.95	716.21	691.79	3.06	ppb
Lead	207-1	651.20	668.21	691.10	670.17	2.99	ppb
Lead	208-1	666.94	673.55	691.80	677.43	1.90	ppb
Lithium	6-1				106		%
Magnesium	24-2	10942.76	10822.21	10839.19	10868.05	0.60	ppb
Manganese	55-2	959.47	944.91	948.90	951.10	0.79	ppb
Molybdenum	94-1	4.43	4.35	4.27	4.35	1.92	ppb
Molybdenum	95-1	2.15	2.23	2.19	2.19	1.94	ppb
Molybdenum	96-1	2.58	2.62	2.61	2.60	0.91	ppb
Molybdenum	97-1	2.15	2.15	2.19	2.16	1.03	ppb
Molybdenum	98-1	2.19	2.17	2.15	2.17	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	59.81	58.76	59.29	59.29	0.88	ppb
Phosphorus	31-2	2401.86	2363.24	2352.79	2372.63	1.09	ppb
Potassium	39-2	2525.65	2465.37	2490.39	2493.80	1.21	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	1.52	2.16	2.15	1.94	18.80	ppb
Selenium	77-2	14.32	12.50	12.08	12.97	9.17	ppb
Selenium	78-2	3.74	3.26	3.40	3.47	7.16	ppb
Silicon	28-1	2446.00	2491.28	2504.57	2480.61	1.24	ppb
Silver	107-1	2.20	2.30	2.24	2.24	2.20	ppb
Silver	109-1	2.17	2.22	2.24	2.21	1.60	ppb
Sodium	23-2	567.87	559.75	562.58	563.40	0.73	ppb
Strontium	86-1	473.67	491.36	486.72	483.92	1.90	ppb
Strontium	88-1	472.28	475.80	477.82	475.30	0.59	ppb
Sulfur	34-1	1516.55	1553.46	1647.56	1572.52	4.30	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	0.81	0.88	0.87	0.85	4.21	ppb
Thallium	205-1	0.86	0.85	0.88	0.86	1.83	ppb
Tin	118-1	6.68	6.83	6.73	6.75	1.09	ppb
Titanium	47-1	64.23	66.03	66.43	65.56	1.78	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-09DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK8

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:31:52

DataFile Name :

086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.32	3.37	3.50	3.39	2.70	ppb
Vanadium	51-2	61.29	61.45	61.31	61.35	0.15	ppb
Yttrium	89-1				110		%
Yttrium	89-2				106		%
Zinc	66-2	1213.62	1207.14	1206.88	1209.21	0.32	ppb
Zirconium	90-1	1.43	1.50	1.50	1.48	2.84	ppb
Zirconium	91-1	1.53	1.54	1.46	1.51	2.85	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-11DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL0

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:34:52

DataFile Name :

087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6887.84	6886.63	6918.19	6897.55	0.26	ppb
Antimony	121-1	1.02	1.04	1.01	1.03	1.52	ppb
Arsenic	75-2	18.24	17.59	18.12	17.98	1.93	ppb
Barium	135-1	538.06	556.05	547.86	547.32	1.65	ppb
Barium	137-1	544.53	554.01	548.16	548.90	0.87	ppb
Beryllium	9-1	3.18	3.18	3.33	3.23	2.68	ppb
Bismuth	209-1				119		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	14.76	13.98	13.26	14.00	5.34	ppb
Cadmium	106-1	12.39	13.29	12.16	12.61	4.73	ppb
Cadmium	111-1	14.36	14.44	14.62	14.47	0.90	ppb
Calcium	43-1	123889.23	126630.58	126059.22	125526.34	1.15	ppb
Calcium	44-1	126106.54	127801.45	128206.49	127371.49	0.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16.77	16.59	16.44	16.60	1.00	ppb
Cobalt	59-2	14.26	14.42	14.25	14.31	0.65	ppb
Copper	63-2	131.67	131.09	131.04	131.27	0.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				101		%
Iron	56-2	24371.88	24239.31	24122.10	24244.43	0.52	ppb
Iron	57-2	24791.36	24627.19	24297.96	24572.17	1.02	ppb
Iron	54-2	24307.77	23971.10	24010.55	24096.47	0.76	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:34:52 DataFile Name : 087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	652.31	658.75	643.68	651.58	1.16	ppb
Lead	207-1	657.64	651.20	651.80	653.55	0.54	ppb
Lead	208-1	655.78	658.88	650.74	655.13	0.63	ppb
Lithium	6-1				108		%
Magnesium	24-2	12012.48	11936.28	11906.74	11951.83	0.46	ppb
Manganese	55-2	745.77	746.80	746.44	746.34	0.07	ppb
Molybdenum	94-1	4.22	4.46	4.50	4.39	3.42	ppb
Molybdenum	95-1	1.58	1.60	1.58	1.58	0.68	ppb
Molybdenum	96-1	2.08	2.06	2.09	2.08	0.67	ppb
Molybdenum	97-1	1.46	1.55	1.57	1.53	3.85	ppb
Molybdenum	98-1	1.54	1.54	1.54	1.54	0.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	87.53	87.55	86.88	87.32	0.44	ppb
Phosphorus	31-2	1744.34	1734.19	1728.65	1735.73	0.46	ppb
Potassium	39-2	1938.68	1937.27	1943.64	1939.86	0.17	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	1.04	1.13	1.38	1.18	14.82	ppb
Selenium	77-2	14.50	16.17	16.48	15.72	6.79	ppb
Selenium	78-2	2.37	2.83	3.04	2.74	12.52	ppb
Silicon	28-1	1811.12	1857.66	1861.80	1843.53	1.53	ppb
Silver	107-1	2.62	2.70	2.65	2.66	1.49	ppb
Silver	109-1	2.65	2.65	2.68	2.66	0.75	ppb
Sodium	23-2	684.16	687.64	682.41	684.74	0.39	ppb
Strontium	86-1	553.98	560.01	562.37	558.79	0.77	ppb
Strontium	88-1	550.08	550.03	556.35	552.15	0.66	ppb
Sulfur	34-1	780.79	862.55	890.97	844.77	6.77	ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	1.01	1.04	1.02	1.02	1.16	ppb
Thallium	205-1	1.04	1.04	1.05	1.04	0.22	ppb
Tin	118-1	2.34	2.43	2.31	2.36	2.52	ppb
Titanium	47-1	36.47	37.42	37.49	37.13	1.53	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-11DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL0

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:34:52

DataFile Name :

087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.68	4.81	4.70	4.73	1.52	ppb
Vanadium	51-2	63.00	62.44	62.61	62.68	0.46	ppb
Yttrium	89-1				112		%
Yttrium	89-2				108		%
Zinc	66-2	971.72	967.35	970.43	969.83	0.23	ppb
Zirconium	90-1	1.81	1.86	1.91	1.86	2.55	ppb
Zirconium	91-1	1.81	1.81	1.92	1.85	3.45	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:37:51 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9127.17	9189.09	9076.70	9130.98	0.62	ppb
Antimony	121-1	1.53	1.56	1.59	1.56	2.05	ppb
Arsenic	75-2	27.90	27.64	26.99	27.51	1.70	ppb
Barium	135-1	521.82	524.47	544.24	530.18	2.31	ppb
Barium	137-1	523.11	527.72	535.75	528.86	1.21	ppb
Beryllium	9-1	2.95	2.93	2.94	2.94	0.30	ppb
Bismuth	209-1				119		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.40	11.53	12.11	11.68	3.22	ppb
Cadmium	106-1	9.58	9.58	10.14	9.77	3.33	ppb
Cadmium	111-1	11.40	11.89	12.04	11.78	2.85	ppb
Calcium	43-1	113612.07	115447.22	114731.12	114596.81	0.81	ppb
Calcium	44-1	114349.13	114500.11	115125.69	114658.31	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.94	29.46	29.48	29.62	0.92	ppb
Cobalt	59-2	14.55	14.17	14.46	14.39	1.37	ppb
Copper	63-2	157.11	156.72	156.85	156.89	0.13	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				110		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	56-2	30890.39	31035.44	30512.36	30812.73	0.88	ppb
Iron	57-2	30959.70	31268.36	30989.41	31072.49	0.55	ppb
Iron	54-2	30693.61	30628.33	30292.94	30538.29	0.70	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:37:51 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	650.49	675.64	657.79	661.31	1.96	ppb
Lead	207-1	629.39	666.63	638.65	644.89	3.01	ppb
Lead	208-1	637.50	668.50	646.87	650.96	2.44	ppb
Lithium	6-1				107		%
Magnesium	24-2	11188.87	11285.53	11302.44	11258.95	0.54	ppb
Manganese	55-2	924.22	921.47	916.25	920.65	0.44	ppb
Molybdenum	94-1	5.04	5.20	5.19	5.14	1.76	ppb
Molybdenum	95-1	3.29	3.28	3.37	3.31	1.48	ppb
Molybdenum	96-1	3.77	3.82	3.83	3.81	0.88	ppb
Molybdenum	97-1	3.32	3.26	3.33	3.30	1.16	ppb
Molybdenum	98-1	3.27	3.33	3.34	3.31	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	66.87	66.10	66.15	66.37	0.65	ppb
Phosphorus	31-2	2288.13	2293.63	2282.97	2288.24	0.23	ppb
Potassium	39-2	2312.45	2327.65	2337.08	2325.73	0.53	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	2.99	2.73	2.73	2.81	5.26	ppb
Selenium	77-2	13.80	13.54	17.37	14.90	14.35	ppb
Selenium	78-2	4.60	5.30	4.04	4.65	13.54	ppb
Silicon	28-1	2498.98	2547.81	2528.32	2525.03	0.97	ppb
Silver	107-1	2.17	2.21	2.24	2.21	1.66	ppb
Silver	109-1	2.19	2.17	2.23	2.19	1.39	ppb
Sodium	23-2	720.51	724.28	719.59	721.46	0.34	ppb
Strontium	86-1	518.34	520.26	530.68	523.09	1.27	ppb
Strontium	88-1	506.81	515.39	517.92	513.37	1.13	ppb
Sulfur	34-1	3200.92	3320.72	3285.05	3268.90	1.88	ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	1.10	1.11	1.12	1.11	0.85	ppb
Thallium	205-1	1.09	1.14	1.13	1.12	2.12	ppb
Tin	118-1	6.86	7.16	7.14	7.05	2.34	ppb
Titanium	47-1	60.69	61.25	60.45	60.80	0.68	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-13DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL2

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:37:51

DataFile Name :

088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.85	4.06	4.01	3.97	2.72	ppb
Vanadium	51-2	76.97	76.15	76.07	76.40	0.65	ppb
Yttrium	89-1				109		%
Yttrium	89-2				107		%
Zinc	66-2	1189.17	1188.23	1185.56	1187.65	0.16	ppb
Zirconium	90-1	1.34	1.38	1.38	1.37	1.54	ppb
Zirconium	91-1	1.39	1.37	1.37	1.38	0.72	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:40:53 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8651.04	8442.62	8603.06	8565.57	1.27	ppb
Antimony	121-1	1.28	1.29	1.32	1.30	1.33	ppb
Arsenic	75-2	18.60	18.01	17.92	18.18	2.02	ppb
Barium	135-1	601.13	573.01	594.62	589.58	2.50	ppb
Barium	137-1	606.42	582.74	592.35	593.83	2.01	ppb
Beryllium	9-1	3.42	3.23	3.46	3.37	3.52	ppb
Bismuth	209-1				120		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.17	11.00	10.97	11.05	0.97	ppb
Cadmium	106-1	10.61	9.34	9.94	9.96	6.34	ppb
Cadmium	111-1	11.43	10.85	11.14	11.14	2.60	ppb
Calcium	43-1	120934.93	119378.23	119804.86	120039.34	0.67	ppb
Calcium	44-1	120422.96	120226.54	121687.21	120778.90	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.31	18.33	18.13	18.25	0.60	ppb
Cobalt	59-2	14.08	13.81	13.80	13.90	1.15	ppb
Copper	63-2	165.89	164.17	164.01	164.69	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	56-2	21849.34	21541.67	21724.62	21705.21	0.71	ppb
Iron	57-2	22195.06	21923.09	21943.69	22020.61	0.69	ppb
Iron	54-2	21787.66	21441.20	21358.11	21528.99	1.06	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:40:53 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	871.10	881.84	890.34	881.09	1.09	ppb
Lead	207-1	855.31	877.67	893.58	875.52	2.20	ppb
Lead	208-1	868.84	878.50	885.99	877.78	0.98	ppb
Lithium	6-1				108		%
Magnesium	24-2	10679.82	10523.05	10442.58	10548.49	1.14	ppb
Manganese	55-2	1137.53	1121.12	1110.19	1122.95	1.23	ppb
Molybdenum	94-1	4.29	4.10	4.29	4.23	2.62	ppb
Molybdenum	95-1	1.44	1.39	1.44	1.42	1.94	ppb
Molybdenum	96-1	1.95	1.94	1.95	1.95	0.22	ppb
Molybdenum	97-1	1.40	1.42	1.38	1.40	1.51	ppb
Molybdenum	98-1	1.42	1.42	1.42	1.42	0.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	59.74	59.05	59.06	59.28	0.66	ppb
Phosphorus	31-2	2209.73	2145.78	2189.94	2181.82	1.50	ppb
Potassium	39-2	2000.45	1996.05	1989.29	1995.26	0.28	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	0.88	1.28	1.40	1.19	22.69	ppb
Selenium	77-2	15.56	15.56	16.68	15.93	4.05	ppb
Selenium	78-2	2.39	2.57	3.30	2.75	17.45	ppb
Silicon	28-1	2196.29	2192.99	2219.61	2202.96	0.66	ppb
Silver	107-1	2.58	2.53	2.56	2.55	0.90	ppb
Silver	109-1	2.52	2.49	2.55	2.52	1.33	ppb
Sodium	23-2	904.43	898.57	890.22	897.74	0.80	ppb
Strontium	86-1	562.31	553.78	562.56	559.55	0.89	ppb
Strontium	88-1	552.89	549.90	558.94	553.91	0.83	ppb
Sulfur	34-1	1079.13	1083.02	1147.08	1103.08	3.46	ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	0.76	0.73	0.75	0.75	2.47	ppb
Thallium	205-1	0.74	0.73	0.74	0.74	1.10	ppb
Tin	118-1	3.84	3.81	3.88	3.84	0.89	ppb
Titanium	47-1	59.83	59.08	59.69	59.54	0.67	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-14DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL3

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:40:53

DataFile Name :

089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.88	3.91	3.88	3.89	0.43	ppb
Vanadium	51-2	53.15	52.47	52.58	52.73	0.69	ppb
Yttrium	89-1				110		%
Yttrium	89-2				107		%
Zinc	66-2	1714.77	1727.09	1732.14	1724.67	0.52	ppb
Zirconium	90-1	1.79	1.86	1.90	1.85	2.89	ppb
Zirconium	91-1	1.86	1.87	1.95	1.89	2.68	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:58:58 DataFile Name : 091CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47627.92	47396.34	47301.31	47441.86	0.35	ppb
Antimony	121-1	481.93	483.25	561.70	508.96	8.98	ppb
Arsenic	75-2	495.73	498.90	504.48	499.70	0.89	ppb
Barium	135-1	2446.74	2477.83	2840.39	2588.32	8.46	ppb
Barium	137-1	2433.91	2471.53	2817.89	2574.44	8.22	ppb
Beryllium	9-1	515.79	509.40	595.95	540.38	8.93	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	540.62	548.61	639.49	576.24	9.53	ppb
Cadmium	106-1	538.19	547.15	632.51	572.61	9.09	ppb
Cadmium	111-1	516.27	525.78	605.47	549.17	8.92	ppb
Calcium	43-1	247879.50	247836.30	289320.13	261678.64	9.15	ppb
Calcium	44-1	245837.92	245506.36	281373.98	257572.75	8.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.13	519.43	520.21	516.59	1.09	ppb
Cobalt	59-2	512.43	521.21	519.08	517.57	0.89	ppb
Copper	63-2	5071.91	5092.80	5044.29	5069.67	0.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				89		%
Indium	115-2				91		%
Iron	56-2	128498.97	128573.40	127725.60	128265.99	0.37	ppb
Iron	57-2	126545.65	127254.87	128693.88	127498.13	0.86	ppb
Iron	54-2	126812.45	128326.32	128122.57	127753.78	0.64	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:58:58 DataFile Name : 091CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2581.06	2590.57	2957.96	2709.87	7.93	ppb
Lead	207-1	2593.66	2553.22	2973.91	2706.93	8.57	ppb
Lead	208-1	2578.96	2574.64	2947.57	2700.39	7.93	ppb
Lithium	6-1				92		%
Magnesium	24-2	254686.82	254577.19	255015.31	254759.78	0.09	ppb
Manganese	55-2	5042.92	5037.26	5038.97	5039.71	0.06	ppb
Molybdenum	94-1	5060.70	5093.63	5884.26	5346.19	8.72	ppb
Molybdenum	95-1	5007.38	5060.30	5904.03	5323.90	9.45	ppb
Molybdenum	96-1	4964.71	5021.93	5845.77	5277.47	9.34	ppb
Molybdenum	97-1	5006.79	5076.87	5881.22	5321.63	9.13	ppb
Molybdenum	98-1	4991.91	5053.01	5814.70	5286.54	8.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	483.18	487.77	487.52	486.16	0.53	ppb
Phosphorus	31-2	9839.80	9914.82	9891.22	9881.95	0.39	ppb
Potassium	39-2	120288.61	119922.89	120656.71	120289.40	0.31	ppb
Rhodium	103-1				83		%
Rhodium	103-2				89		%
Scandium	45-1				86		%
Scandium	45-2				92		%
Selenium	82-1	484.05	492.36	564.52	513.64	8.62	ppb
Selenium	77-2	473.71	498.88	499.63	490.74	3.01	ppb
Selenium	78-2	490.53	495.13	492.29	492.65	0.47	ppb
Silicon	28-1	2864.82	2869.95	3308.57	3014.45	8.45	ppb
Silver	107-1	473.18	469.44	544.73	495.78	8.56	ppb
Silver	109-1	472.03	471.50	549.61	497.71	9.03	ppb
Sodium	23-2	242724.84	242019.19	241012.35	241918.79	0.36	ppb
Strontium	86-1	12537.18	12705.18	14473.04	13238.46	8.10	ppb
Strontium	88-1	12459.85	12540.28	14365.17	13121.77	8.21	ppb
Sulfur	34-1	9407.38	9392.58	11231.46	10010.48	10.56	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	524.19	515.02	585.16	541.46	7.04	ppb
Thallium	205-1	528.97	514.29	594.36	545.87	7.81	ppb
Tin	118-1	470.14	476.75	554.10	500.33	9.33	ppb
Titanium	47-1	4999.46	5046.85	5762.83	5269.71	8.12	ppb

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV004

Instrumnet Name :

P7

Client Sample ID :

CCV004

Dilution Factor :

1

Date & Time Acquired :

2024-11-01 00:58:58

DataFile Name :

091CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	536.40	537.52	611.50	561.81	7.66	ppb
Vanadium	51-2	508.93	517.03	521.85	515.94	1.27	ppb
Yttrium	89-1				91		%
Yttrium	89-2				94		%
Zinc	66-2	5007.29	5078.90	5035.48	5040.56	0.72	ppb
Zirconium	90-1	513.54	523.19	593.24	543.32	8.01	ppb
Zirconium	91-1	513.23	518.05	606.07	545.78	9.58	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 01:02:40 DataFile Name : 092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.38	2.47	2.17	2.34	6.54	ppb
Antimony	121-1	0.22	0.22	0.26	0.23	9.96	ppb
Arsenic	75-2	0.01	0.02	0.02	0.02	32.39	ppb
Barium	135-1	0.14	0.11	0.11	0.12	14.54	ppb
Barium	137-1	0.14	0.11	0.11	0.12	14.20	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	4.77	ppb
Bismuth	209-1				116		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.05	0.11	0.10	54.20	ppb
Cadmium	106-1	-2.83	-1.61	-3.09	-2.51		ppb
Cadmium	111-1	0.01	0.02	-0.01	0.01	212.96	ppb
Calcium	43-1	25.85	24.75	18.06	22.89	18.43	ppb
Calcium	44-1	23.70	16.83	15.25	18.60	24.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.04	0.02	0.02	124.48	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	2.45	ppb
Copper	63-2	0.23	0.21	0.22	0.22	3.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				105		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	56-2	7.68	8.10	7.63	7.81	3.35	ppb
Iron	57-2	6.20	6.51	4.94	5.88	14.14	ppb
Iron	54-2	7.54	8.23	7.79	7.86	4.44	ppb
Krypton	83-1						cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 01:02:40 DataFile Name : 092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.26	0.21	0.19	0.22	14.97	ppb
Lead	207-1	0.24	0.22	0.20	0.22	9.14	ppb
Lead	208-1	0.25	0.21	0.20	0.22	12.81	ppb
Lithium	6-1				100		%
Magnesium	24-2	11.81	11.91	11.46	11.73	1.98	ppb
Manganese	55-2	0.29	0.24	0.29	0.27	8.72	ppb
Molybdenum	94-1	0.37	0.40	0.41	0.39	4.72	ppb
Molybdenum	95-1	0.34	0.27	0.27	0.29	14.32	ppb
Molybdenum	96-1	0.30	0.28	0.25	0.28	8.51	ppb
Molybdenum	97-1	0.32	0.29	0.28	0.29	6.86	ppb
Molybdenum	98-1	0.31	0.27	0.27	0.28	9.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	-0.01	0.00	0.01	299.12	ppb
Phosphorus	31-2	-15.92	-15.89	-16.35	-16.05		ppb
Potassium	39-2	0.65	0.28	0.59	0.51	39.03	ppb
Rhodium	103-1				97		%
Rhodium	103-2				101		%
Scandium	45-1				91		%
Scandium	45-2				91		%
Selenium	82-1	-0.49	-0.46	-0.07	-0.34		ppb
Selenium	77-2	-0.05	-0.05	-0.05	-0.05		ppb
Selenium	78-2	-0.35	-0.90	-0.31	-0.52		ppb
Silicon	28-1	-4.52	-4.52	-4.60	-4.55		ppb
Silver	107-1	0.05	0.05	0.05	0.05	2.55	ppb
Silver	109-1	0.06	0.05	0.05	0.05	7.07	ppb
Sodium	23-2	25.58	25.75	23.38	24.91	5.31	ppb
Strontium	86-1	0.65	0.55	0.49	0.56	14.23	ppb
Strontium	88-1	0.63	0.50	0.48	0.54	15.58	ppb
Sulfur	34-1	-293.11	-315.18	-317.74	-308.68		ppb
Terbium	159-1				110		%
Terbium	159-2				107		%
Thallium	203-1	0.07	0.06	0.05	0.06	13.66	ppb
Thallium	205-1	0.06	0.06	0.05	0.06	9.39	ppb
Tin	118-1	0.02	0.02	0.03	0.02	20.41	ppb
Titanium	47-1	0.23	0.24	0.18	0.22	13.85	ppb

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :CCB004

Instrumnet Name :P7

Client Sample ID :CCB004

Dilution Factor :1

Date & Time Acquired :2024-11-01 01:02:40

DataFile Name :092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	11.03	ppb
Vanadium	51-2	0.02	0.04	0.03	0.03	20.68	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	0.24	0.34	0.23	0.27	21.90	ppb
Zirconium	90-1	0.07	0.09	0.09	0.08	10.93	ppb
Zirconium	91-1	0.08	0.09	0.08	0.08	7.55	ppb

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:06:40 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	263	233	263	253	6.84	cps
Antimony	121-1	50	53	70	58	18.55	cps
Arsenic	75-2	13	7	10	10	33.30	cps
Barium	135-1	73	113	103	97	21.54	cps
Barium	137-1	167	160	147	158	6.45	cps
Beryllium	9-1	33	30	37	33	9.99	cps
Bismuth	209-1	6201310	6104347	6154733	6153463	0.79	cps
Bismuth	209-2	5643611	5577616	5540425	5587217	0.94	cps
Bromine	81-1	15211	15695	15949	15618	2.40	cps
Bromine	81-2	100	133	123	119	14.39	cps
Cadmium	108-1	3	10	7	7	50.03	cps
Cadmium	106-1	3347	3147	3177	3224	3.35	cps
Cadmium	111-1	339	311	316	322	4.62	cps
Calcium	43-1	313	317	280	303	6.68	cps
Calcium	44-1	18359	17111	17508	17659	3.61	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	777	777	780	778	0.25	cps
Cobalt	59-2	53	77	60	63	18.98	cps
Copper	63-2	1733	1720	1647	1700	2.75	cps
Dysprosium	156-1	63	73	37	58	32.80	cps
Dysprosium	156-2	10	17	27	18	47.19	cps
Erbium	164-1	80	87	77	81	6.28	cps
Erbium	164-2	37	53	47	46	18.41	cps
Gadolinium	160-1	57	50	37	48	21.31	cps
Gadolinium	160-2	380	367	370	372	1.86	cps
Holmium	165-1	10620283	10424411	10384455	10476383	1.20	cps
Holmium	165-2	8079586	8042146	8066070	8062600	0.24	cps
Indium	115-1	9138148	9067055	9122680	9109294	0.41	cps
Indium	115-2	3425291	3510818	3493818	3476642	1.30	cps
Iron	56-2	15074	14841	15827	15247	3.38	cps
Iron	57-2	1333	1433	1550	1439	7.54	cps
Iron	54-2	2064	2033	2234	2110	5.11	cps
Krypton	83-1	200	230	220	217	7.05	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:06:40 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	433	457	353	414	13.08	cps
Lead	207-1	430	320	357	369	15.18	cps
Lead	208-1	1837	1677	1553	1689	8.41	cps
Lithium	6-1	1927566	1918331	1855633	1900510	2.06	cps
Magnesium	24-2	637	690	690	672	4.58	cps
Manganese	55-2	340	343	430	371	13.75	cps
Molybdenum	94-1	200	203	217	207	4.27	cps
Molybdenum	95-1	27	40	37	34	20.14	cps
Molybdenum	96-1	117	97	130	114	14.66	cps
Molybdenum	97-1	27	43	33	34	24.35	cps
Molybdenum	98-1	60	60	50	57	10.19	cps
Neodymium	150-1	17	3	3	8	99.04	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	110	90	110	103	11.17	cps
Phosphorus	31-2	150	163	183	166	10.14	cps
Potassium	39-2	56113	56501	55698	56104	0.72	cps
Rhodium	103-1	8763815	8729620	8553187	8682208	1.30	cps
Rhodium	103-2	5738426	5736811	5715354	5730197	0.22	cps
Scandium	45-1	5661740	5684022	5649842	5665201	0.31	cps
Scandium	45-2	543888	542281	540087	542085	0.35	cps
Selenium	82-1	551	485	531	522	6.46	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	387	357	317	353	9.94	cps
Silicon	28-1	355753	358055	356883	356897	0.32	cps
Silver	107-1	93	63	77	78	19.33	cps
Silver	109-1	27	23	27	26	7.55	cps
Sodium	23-2	22640	22957	23087	22895	1.00	cps
Strontium	86-1	347	310	310	322	6.57	cps
Strontium	88-1	227	210	203	213	5.63	cps
Sulfur	34-1	198442	195196	192932	195523	1.42	cps
Terbium	159-1	10824865	10926749	10604066	10785227	1.53	cps
Terbium	159-2	8122404	7960809	7917209	8000141	1.35	cps
Thallium	203-1	153	113	160	142	17.74	cps
Thallium	205-1	373	350	300	341	10.98	cps
Tin	118-1	2030	1853	2044	1976	5.37	cps
Titanium	47-1	140	137	137	138	1.40	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S00

Instrumnet Name :P7

Client Sample ID :S0

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:06:40

DataFile Name :004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	27	20	13	20	33.35	cps
Vanadium	51-2	10	7	30	16	81.11	cps
Yttrium	89-1	15380872	15390849	15089261	15286994	1.12	cps
Yttrium	89-2	4399437	4391514	4315726	4368892	1.06	cps
Zinc	66-2	907	693	920	840	15.14	cps
Zirconium	90-1	570	650	583	601	7.13	cps
Zirconium	91-1	97	113	123	111	12.12	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:13:13 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5998	5908	5751	5886	2.12	cps
Antimony	121-1	20238	19901	20585	20241	1.69	cps
Arsenic	75-2	740	697	730	722	3.14	cps
Barium	135-1	25954	26051	26314	26106	0.72	cps
Barium	137-1	44991	46288	45740	45673	1.43	cps
Beryllium	9-1	2137	2343	2313	2265	4.93	cps
Bismuth	209-1	6121558	6297857	6235920	6218445	1.44	cps
Bismuth	209-2	5578011	5640239	5622674	5613642	0.57	cps
Bromine	81-1	16179	15608	15615	15801	2.07	cps
Bromine	81-2	73	90	90	84	11.40	cps
Cadmium	108-1	247	210	227	228	8.06	cps
Cadmium	106-1	3734	3624	3604	3654	1.92	cps
Cadmium	111-1	2838	3146	3085	3023	5.40	cps
Calcium	43-1	18171	18047	18528	18249	1.37	cps
Calcium	44-1	307352	308507	309863	308574	0.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12155	12045	12015	12072	0.61	cps
Cobalt	59-2	8783	9049	8813	8882	1.65	cps
Copper	63-2	13356	12829	13303	13163	2.20	cps
Dysprosium	156-1	70	70	77	72	5.33	cps
Dysprosium	156-2	23	13	13	17	34.65	cps
Erbium	164-1	110	50	77	79	38.11	cps
Erbium	164-2	57	73	70	67	13.22	cps
Gadolinium	160-1	47	33	50	43	20.36	cps
Gadolinium	160-2	393	323	327	348	11.35	cps
Holmium	165-1	10677892	10646762	10413964	10579539	1.36	cps
Holmium	165-2	8109019	8120647	8228220	8152629	0.81	cps
Indium	115-1	9179062	9251607	9378734	9269801	1.09	cps
Indium	115-2	3556703	3541158	3484184	3527348	1.08	cps
Iron	56-2	269725	271215	267015	269318	0.79	cps
Iron	57-2	8136	8236	8409	8260	1.68	cps
Iron	54-2	16369	16836	16419	16541	1.55	cps
Krypton	83-1	207	183	203	198	6.38	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:13:13 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7062	6695	6958	6905	2.74	cps
Lead	207-1	6278	6211	6085	6191	1.59	cps
Lead	208-1	27628	27381	27301	27437	0.62	cps
Lithium	6-1	1938784	1969126	1927449	1945120	1.11	cps
Magnesium	24-2	275708	274742	271216	273889	0.86	cps
Manganese	55-2	4384	4501	4504	4463	1.53	cps
Molybdenum	94-1	22821	23392	22978	23064	1.28	cps
Molybdenum	95-1	27890	27780	27843	27838	0.20	cps
Molybdenum	96-1	30509	31397	31591	31165	1.85	cps
Molybdenum	97-1	17727	16993	17427	17383	2.12	cps
Molybdenum	98-1	45150	45002	45023	45058	0.18	cps
Neodymium	150-1	0	13	30	14	104.07	cps
Neodymium	150-2	13	10	7	10	33.30	cps
Nickel	60-2	2150	2190	2354	2231	4.83	cps
Phosphorus	31-2	650	677	607	644	5.48	cps
Potassium	39-2	395118	391472	391485	392692	0.54	cps
Rhodium	103-1	8800782	8730322	8715829	8748978	0.52	cps
Rhodium	103-2	5821063	5736443	5690844	5749450	1.15	cps
Scandium	45-1	5758002	5750519	5779387	5762636	0.26	cps
Scandium	45-2	551407	551211	552034	551551	0.08	cps
Selenium	82-1	1508	1393	1478	1460	4.08	cps
Selenium	77-2	123	113	103	113	8.83	cps
Selenium	78-2	627	813	630	690	15.48	cps
Silicon	28-1	390386	393142	392361	391963	0.36	cps
Silver	107-1	13637	13713	13680	13677	0.28	cps
Silver	109-1	12822	12913	13179	12971	1.43	cps
Sodium	23-2	461967	462456	460943	461789	0.17	cps
Strontium	86-1	4351	4221	3991	4187	4.36	cps
Strontium	88-1	33431	33174	32683	33096	1.15	cps
Sulfur	34-1	202929	203517	203010	203152	0.16	cps
Terbium	159-1	11150440	10889571	10984357	11008123	1.20	cps
Terbium	159-2	8116039	8099722	8048817	8088193	0.43	cps
Thallium	203-1	8356	8096	8039	8164	2.07	cps
Thallium	205-1	19965	19501	19377	19614	1.58	cps
Tin	118-1	45431	45809	45421	45554	0.49	cps
Titanium	47-1	8116	7925	7989	8010	1.21	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S02

Instrumnet Name :P7

Client Sample ID :S02

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:13:13

DataFile Name :006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23407	23541	23100	23349	0.97	cps
Vanadium	51-2	25014	24617	24333	24655	1.39	cps
Yttrium	89-1	15517776	15544169	15387784	15483243	0.54	cps
Yttrium	89-2	4390112	4432237	4411468	4411272	0.48	cps
Zinc	66-2	5448	5514	5368	5443	1.35	cps
Zirconium	90-1	19410	20201	19513	19708	2.18	cps
Zirconium	91-1	4371	4557	4324	4417	2.80	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:16:30 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	316970	315661	315084	315905	0.31	cps
Antimony	121-1	525566	532370	530848	529595	0.67	cps
Arsenic	75-2	34340	33849	33585	33924	1.13	cps
Barium	135-1	705804	716692	707281	709926	0.83	cps
Barium	137-1	1210426	1217842	1217253	1215173	0.34	cps
Beryllium	9-1	126336	127916	127071	127107	0.62	cps
Bismuth	209-1	6270572	6318481	6484207	6357754	1.76	cps
Bismuth	209-2	5224603	5275072	5704215	5401297	4.88	cps
Bromine	81-1	15879	15552	15298	15576	1.87	cps
Bromine	81-2	73	63	60	66	10.58	cps
Cadmium	108-1	11214	10824	11058	11032	1.78	cps
Cadmium	106-1	18969	18422	18699	18697	1.46	cps
Cadmium	111-1	137685	139687	138185	138519	0.75	cps
Calcium	43-1	217948	220386	216729	218354	0.85	cps
Calcium	44-1	3160831	3169922	3135382	3155379	0.57	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	288094	284593	282790	285159	0.95	cps
Cobalt	59-2	439039	427399	429520	431986	1.44	cps
Copper	63-2	3235341	3238320	3139247	3204303	1.76	cps
Dysprosium	156-1	87	87	63	79	17.08	cps
Dysprosium	156-2	77	53	60	63	18.98	cps
Erbium	164-1	73	77	97	82	15.35	cps
Erbium	164-2	77	67	83	76	11.10	cps
Gadolinium	160-1	37	70	40	49	37.55	cps
Gadolinium	160-2	237	317	383	312	23.52	cps
Holmium	165-1	10918276	10967992	10753400	10879889	1.03	cps
Holmium	165-2	7383939	7757669	8082579	7741395	4.52	cps
Indium	115-1	9385775	9417065	9249899	9350913	0.95	cps
Indium	115-2	3114743	3237320	3427341	3259802	4.83	cps
Iron	56-2	12573527	12514798	12460117	12516147	0.45	cps
Iron	57-2	325770	326215	319899	323961	1.09	cps
Iron	54-2	722663	714485	719333	718827	0.57	cps
Krypton	83-1	163	217	163	181	17.00	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:16:30 DataFile Name : 007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2021713	1976831	1999843	1999462	1.12	cps
Lead	207-1	1491629	1783809	1778776	1684738	9.93	cps
Lead	208-1	7644037	8144614	8127479	7972043	3.56	cps
Lithium	6-1	2016868	1964026	1976326	1985740	1.39	cps
Magnesium	24-2	2597226	2589795	2596029	2594350	0.15	cps
Manganese	55-2	2140438	2101544	2110954	2117646	0.96	cps
Molybdenum	94-1	2263275	2288070	2235213	2262186	1.17	cps
Molybdenum	95-1	3360753	3382765	3289801	3344440	1.45	cps
Molybdenum	96-1	3662272	3670839	3615038	3649383	0.82	cps
Molybdenum	97-1	2089675	2064613	2061818	2072035	0.74	cps
Molybdenum	98-1	5343005	5300014	5261838	5301619	0.77	cps
Neodymium	150-1	33	47	40	40	16.68	cps
Neodymium	150-2	13	7	0	7	99.98	cps
Nickel	60-2	109751	110641	109392	109928	0.59	cps
Phosphorus	31-2	17317	17490	17473	17427	0.55	cps
Potassium	39-2	1725146	1697423	1680868	1701146	1.32	cps
Rhodium	103-1	8734603	8729444	8593523	8685857	0.92	cps
Rhodium	103-2	5178021	5312064	5560853	5350313	3.63	cps
Scandium	45-1	5869189	5821149	5806687	5832342	0.56	cps
Scandium	45-2	484391	500396	548552	511113	6.53	cps
Selenium	82-1	10407	10408	10683	10499	1.51	cps
Selenium	77-2	1097	1043	963	1034	6.49	cps
Selenium	78-2	3884	3884	4037	3935	2.25	cps
Silicon	28-1	1385139	1430887	1412536	1409521	1.63	cps
Silver	107-1	736435	739669	742427	739510	0.41	cps
Silver	109-1	690586	692800	693278	692221	0.21	cps
Sodium	23-2	4423243	4373536	4384037	4393606	0.60	cps
Strontium	86-1	4968151	5006365	4961961	4978826	0.48	cps
Strontium	88-1	43712459	43551961	42905318	43389913	0.98	cps
Sulfur	34-1	259972	264838	262545	262452	0.93	cps
Terbium	159-1	11135493	11165555	11277785	11192945	0.67	cps
Terbium	159-2	7350444	7553442	8441350	7781746	7.46	cps
Thallium	203-1	429467	433733	431167	431455	0.50	cps
Thallium	205-1	1010349	1022147	1036397	1022964	1.28	cps
Tin	118-1	472427	487196	478559	479394	1.55	cps
Titanium	47-1	915688	922778	907664	915377	0.83	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:16:30 DataFile Name : 007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1257782	1281209	1284892	1274628	1.15	cps
Vanadium	51-2	249213	251757	248535	249835	0.68	cps
Yttrium	89-1	15714117	15492442	15482189	15562916	0.84	cps
Yttrium	89-2	3898460	4122189	4276275	4098975	4.63	cps
Zinc	66-2	485476	489782	479520	484926	1.06	cps
Zirconium	90-1	1002325	1013102	1005035	1006821	0.56	cps
Zirconium	91-1	224948	224447	224284	224559	0.15	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:19:29 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	759229	753521	750132	754294	0.61	cps
Antimony	121-1	1302045	1315554	1307728	1308442	0.52	cps
Arsenic	75-2	82427	81093	81043	81521	0.96	cps
Barium	135-1	1912801	1915189	1889351	1905780	0.75	cps
Barium	137-1	3304984	3301483	3318490	3308319	0.27	cps
Beryllium	9-1	308156	314674	310139	310990	1.07	cps
Bismuth	209-1	6465768	6408160	6532970	6468966	0.97	cps
Bismuth	209-2	5694579	5734517	5579510	5669536	1.42	cps
Bromine	81-1	14767	15231	14300	14766	3.15	cps
Bromine	81-2	53	90	90	78	27.22	cps
Cadmium	108-1	26628	26745	27162	26845	1.05	cps
Cadmium	106-1	40045	41603	41837	41162	2.37	cps
Cadmium	111-1	338227	340011	337415	338551	0.39	cps
Calcium	43-1	514720	520687	513805	516404	0.72	cps
Calcium	44-1	7527589	7567384	7459145	7518039	0.73	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	681674	674254	674073	676667	0.64	cps
Cobalt	59-2	1030314	1015537	1017647	1021166	0.78	cps
Copper	63-2	7662361	7672397	7543843	7626200	0.94	cps
Dysprosium	156-1	60	107	93	87	27.74	cps
Dysprosium	156-2	97	110	100	102	6.79	cps
Erbium	164-1	80	127	97	101	23.39	cps
Erbium	164-2	63	53	83	67	22.91	cps
Gadolinium	160-1	53	63	43	53	18.75	cps
Gadolinium	160-2	370	350	330	350	5.71	cps
Holmium	165-1	11007548	10974645	11055492	11012562	0.37	cps
Holmium	165-2	8274924	8242193	7896657	8137925	2.58	cps
Indium	115-1	9106089	9080358	9116008	9100819	0.20	cps
Indium	115-2	3392242	3348356	3291217	3343938	1.51	cps
Iron	56-2	30321251	29971068	30176196	30156172	0.58	cps
Iron	57-2	779847	770995	767088	772643	0.85	cps
Iron	54-2	1689027	1673265	1643074	1668455	1.40	cps
Krypton	83-1	153	233	207	198	20.60	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:19:29 DataFile Name : 008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5128228	5275141	5081312	5161560	1.96	cps
Lead	207-1	4606194	4634528	4625839	4622187	0.31	cps
Lead	208-1	20580869	20909753	20864843	20785155	0.86	cps
Lithium	6-1	1976154	2010964	1992847	1993322	0.87	cps
Magnesium	24-2	6230585	6096434	6085646	6137555	1.32	cps
Manganese	55-2	5132792	5076239	5048226	5085752	0.85	cps
Molybdenum	94-1	5542292	5570663	5553849	5555601	0.26	cps
Molybdenum	95-1	8157844	8212455	8164777	8178359	0.36	cps
Molybdenum	96-1	8901606	8933741	8783325	8872891	0.89	cps
Molybdenum	97-1	5090510	5056537	5023106	5056718	0.67	cps
Molybdenum	98-1	13059442	13105359	12958816	13041206	0.57	cps
Neodymium	150-1	93	100	63	86	22.83	cps
Neodymium	150-2	47	20	17	28	59.19	cps
Nickel	60-2	263396	260703	258374	260824	0.96	cps
Phosphorus	31-2	41961	41376	41496	41611	0.74	cps
Potassium	39-2	3966606	3951665	3955714	3957995	0.20	cps
Rhodium	103-1	8539204	8575610	8402458	8505757	1.07	cps
Rhodium	103-2	5571730	5488444	5404228	5488134	1.53	cps
Scandium	45-1	5530288	5565464	5533540	5543097	0.35	cps
Scandium	45-2	520599	517813	501460	513291	2.01	cps
Selenium	82-1	24141	24629	24215	24328	1.08	cps
Selenium	77-2	2827	2597	2484	2636	6.64	cps
Selenium	78-2	9049	9009	9193	9084	1.06	cps
Silicon	28-1	2747352	2784228	2806013	2779198	1.07	cps
Silver	107-1	1927431	1888418	1944244	1920031	1.49	cps
Silver	109-1	1811515	1815094	1798867	1808492	0.47	cps
Sodium	23-2	10562419	10471467	10388964	10474283	0.83	cps
Strontium	86-1	12211445	12174909	12139564	12175306	0.30	cps
Strontium	88-1	106630422	106934478	104731488	106098796	1.13	cps
Sulfur	34-1	336051	334652	327085	332596	1.45	cps
Terbium	159-1	11358414	11254051	11193495	11268653	0.74	cps
Terbium	159-2	8174923	8163676	7861573	8066724	2.20	cps
Thallium	203-1	1103690	1122033	1115709	1113811	0.84	cps
Thallium	205-1	3082397	3056287	3032356	3057013	0.82	cps
Tin	118-1	1173463	1185641	1180545	1179883	0.52	cps
Titanium	47-1	2216286	2221571	2148733	2195530	1.85	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S04

Instrumnet Name :P7

Client Sample ID :S04

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:19:29

DataFile Name :008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3873891	3889495	3836638	3866675	0.70	cps
Vanadium	51-2	598959	594914	594578	596150	0.41	cps
Yttrium	89-1	15191703	15065461	14902881	15053348	0.96	cps
Yttrium	89-2	4242710	4249899	4016438	4169682	3.18	cps
Zinc	66-2	1164010	1153044	1145270	1154108	0.82	cps
Zirconium	90-1	2533947	2539925	2512412	2528761	0.57	cps
Zirconium	91-1	550318	553311	547990	550540	0.48	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:22:21 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1443490	1433363	1412092	1429649	1.12	cps
Antimony	121-1	2732218	2744167	2731963	2736116	0.25	cps
Arsenic	75-2	157300	155751	153585	155545	1.20	cps
Barium	135-1	3814693	3832529	3841502	3829575	0.36	cps
Barium	137-1	6561216	6559668	6479759	6533548	0.71	cps
Beryllium	9-1	601330	601990	601482	601601	0.06	cps
Bismuth	209-1	6660756	6683524	6681713	6675331	0.19	cps
Bismuth	209-2	5721718	5732436	5683070	5712408	0.45	cps
Bromine	81-1	14017	13516	13480	13671	2.20	cps
Bromine	81-2	70	80	80	77	7.53	cps
Cadmium	108-1	51307	52076	52050	51811	0.84	cps
Cadmium	106-1	76081	75873	75880	75945	0.16	cps
Cadmium	111-1	652454	653087	647887	651143	0.44	cps
Calcium	43-1	982789	972646	973460	976298	0.58	cps
Calcium	44-1	14252966	14058829	14010160	14107318	0.91	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1291007	1290591	1272870	1284823	0.81	cps
Cobalt	59-2	2003768	2026834	1968067	1999557	1.48	cps
Copper	63-2	14558187	14420120	14178222	14385510	1.34	cps
Dysprosium	156-1	130	137	90	119	21.23	cps
Dysprosium	156-2	200	223	143	189	21.78	cps
Erbium	164-1	130	130	120	127	4.56	cps
Erbium	164-2	137	87	90	104	26.77	cps
Gadolinium	160-1	97	70	80	82	16.39	cps
Gadolinium	160-2	377	327	390	364	9.16	cps
Holmium	165-1	11180411	11035475	10981527	11065804	0.93	cps
Holmium	165-2	8334877	8323478	8306492	8321616	0.17	cps
Indium	115-1	8735909	8755908	8785726	8759181	0.29	cps
Indium	115-2	3275615	3299327	3271305	3282082	0.46	cps
Iron	56-2	57591361	57127846	56418164	57045790	1.04	cps
Iron	57-2	1439883	1405903	1418999	1421595	1.21	cps
Iron	54-2	3186880	3189740	3142914	3173178	0.83	cps
Krypton	83-1	190	177	217	194	10.47	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:22:21 DataFile Name : 009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10541362	10478340	10566346	10528683	0.43	cps
Lead	207-1	9353092	9355359	9424137	9377529	0.43	cps
Lead	208-1	42338432	42488780	43009555	42612255	0.83	cps
Lithium	6-1	2011853	1991475	1991400	1998243	0.59	cps
Magnesium	24-2	11965896	11872762	11679414	11839357	1.23	cps
Manganese	55-2	9709975	9706834	9597396	9671402	0.66	cps
Molybdenum	94-1	10746807	10870233	10778296	10798446	0.59	cps
Molybdenum	95-1	15805008	15716026	15683771	15734935	0.40	cps
Molybdenum	96-1	17205766	17208851	16956731	17123783	0.84	cps
Molybdenum	97-1	9817396	9843441	9853633	9838157	0.19	cps
Molybdenum	98-1	25502512	25358565	25124085	25328388	0.75	cps
Neodymium	150-1	153	177	150	160	9.08	cps
Neodymium	150-2	63	43	53	53	18.75	cps
Nickel	60-2	489617	488272	482093	486661	0.82	cps
Phosphorus	31-2	78735	78841	77002	78193	1.32	cps
Potassium	39-2	7516344	7508948	7359388	7461560	1.19	cps
Rhodium	103-1	8276064	8206937	8105930	8196310	1.04	cps
Rhodium	103-2	5345067	5264377	5304889	5304778	0.76	cps
Scandium	45-1	5292920	5236583	5216599	5248701	0.75	cps
Scandium	45-2	499355	497460	493655	496823	0.58	cps
Selenium	82-1	45925	46257	46129	46104	0.36	cps
Selenium	77-2	4981	4941	4811	4911	1.81	cps
Selenium	78-2	16963	17103	16623	16896	1.46	cps
Silicon	28-1	4889124	4887471	4891017	4889204	0.04	cps
Silver	107-1	3732168	3691670	3682052	3701963	0.72	cps
Silver	109-1	3494161	3500075	3472226	3488821	0.42	cps
Sodium	23-2	20270431	20259577	20049333	20193114	0.62	cps
Strontium	86-1	23475337	23512175	23229700	23405737	0.66	cps
Strontium	88-1	206156730	206960357	205774004	206297030	0.29	cps
Sulfur	34-1	441249	440852	433407	438503	1.01	cps
Terbium	159-1	11341834	11447473	11348162	11379156	0.52	cps
Terbium	159-2	8225321	8172821	8120001	8172714	0.64	cps
Thallium	203-1	2659284	2648269	2669866	2659140	0.41	cps
Thallium	205-1	6310053	6276064	6292556	6292891	0.27	cps
Tin	118-1	2464263	2503172	2475928	2481121	0.80	cps
Titanium	47-1	4149014	4153236	4127974	4143408	0.33	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

S05

Instrumnet Name :

P7

Client Sample ID :

S05

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:22:21

DataFile Name :

009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8231659	8241877	8121154	8198230	0.82	cps
Vanadium	51-2	1144179	1138621	1128974	1137258	0.68	cps
Yttrium	89-1	14806927	14675582	14723249	14735253	0.45	cps
Yttrium	89-2	4079315	4061285	4065376	4068659	0.23	cps
Zinc	66-2	2289698	2261345	2258971	2270005	0.75	cps
Zirconium	90-1	4919172	4852156	4874848	4882059	0.70	cps
Zirconium	91-1	1066326	1066176	1063091	1065197	0.17	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2877497	2856062	2846462	2860007	0.56	cps
Antimony	121-1	5460902	5491614	5519958	5490825	0.54	cps
Arsenic	75-2	308595	308171	309293	308686	0.18	cps
Barium	135-1	7633164	7550123	7565600	7582962	0.58	cps
Barium	137-1	13005176	13173175	13137227	13105193	0.68	cps
Beryllium	9-1	1155378	1174042	1176723	1168714	0.99	cps
Bismuth	209-1	6801653	6855161	6715678	6790831	1.04	cps
Bismuth	209-2	5695016	5691603	5709710	5698776	0.17	cps
Bromine	81-1	13049	13800	13793	13547	3.19	cps
Bromine	81-2	33	53	87	58	46.64	cps
Cadmium	108-1	100485	101901	102828	101738	1.16	cps
Cadmium	106-1	142774	146268	148679	145907	2.03	cps
Cadmium	111-1	1262380	1285725	1287011	1278372	1.08	cps
Calcium	43-1	1878888	1863928	1895537	1879451	0.84	cps
Calcium	44-1	27631467	27521482	27893494	27682148	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2553156	2576056	2594401	2574538	0.80	cps
Cobalt	59-2	4020744	4010080	3957619	3996148	0.85	cps
Copper	63-2	28393733	28534500	28353064	28427099	0.33	cps
Dysprosium	156-1	193	177	113	161	26.20	cps
Dysprosium	156-2	300	377	387	354	13.38	cps
Erbium	164-1	140	150	163	151	7.75	cps
Erbium	164-2	50	97	93	80	32.54	cps
Gadolinium	160-1	113	117	73	101	23.85	cps
Gadolinium	160-2	370	327	380	359	7.90	cps
Holmium	165-1	11128217	11554522	11363931	11348890	1.88	cps
Holmium	165-2	8267432	8435416	8400626	8367824	1.06	cps
Indium	115-1	8622711	8838649	8630102	8697154	1.41	cps
Indium	115-2	3201473	3266157	3276561	3248064	1.25	cps
Iron	56-2	115557028	114980692	115750755	115429492	0.35	cps
Iron	57-2	2874251	2858074	2896454	2876260	0.67	cps
Iron	54-2	6363309	6412310	6400869	6392163	0.40	cps
Krypton	83-1	187	233	207	209	11.21	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21331470	21639228	21331909	21434202	0.83	cps
Lead	207-1	18954283	19192560	19282683	19143175	0.89	cps
Lead	208-1	86120752	87202464	87302151	86875123	0.75	cps
Lithium	6-1	1997561	1968408	2000379	1988783	0.89	cps
Magnesium	24-2	23655836	23693785	23784862	23711495	0.28	cps
Manganese	55-2	19551893	19417923	19622870	19530895	0.53	cps
Molybdenum	94-1	21002801	21518068	21711768	21410879	1.71	cps
Molybdenum	95-1	31017695	31517528	31543361	31359528	0.94	cps
Molybdenum	96-1	33558438	34216115	34054878	33943144	1.01	cps
Molybdenum	97-1	19259991	19650744	19627783	19512839	1.12	cps
Molybdenum	98-1	49777614	50690459	50897428	50455167	1.18	cps
Neodymium	150-1	323	277	360	320	13.05	cps
Neodymium	150-2	87	60	70	72	18.66	cps
Nickel	60-2	971159	969527	965840	968842	0.28	cps
Phosphorus	31-2	157440	157053	155891	156795	0.51	cps
Potassium	39-2	14937561	14914347	14915696	14922535	0.09	cps
Rhodium	103-1	7956201	8099807	7965079	8007029	1.00	cps
Rhodium	103-2	5281098	5330610	5286185	5299298	0.51	cps
Scandium	45-1	5274785	5196713	5224643	5232047	0.76	cps
Scandium	45-2	498005	501243	502738	500662	0.48	cps
Selenium	82-1	87724	89321	89354	88800	1.05	cps
Selenium	77-2	9603	9800	9557	9653	1.34	cps
Selenium	78-2	33391	32816	32385	32864	1.54	cps
Silicon	28-1	8970036	9088184	9141379	9066533	0.97	cps
Silver	107-1	7098508	7271537	7232992	7201012	1.26	cps
Silver	109-1	6718903	6844604	6811377	6791628	0.96	cps
Sodium	23-2	40613939	40566799	40988115	40722951	0.57	cps
Strontium	86-1	46201379	46680361	46789686	46557142	0.67	cps
Strontium	88-1	402774634	410326034	411431434	408177367	1.15	cps
Sulfur	34-1	675954	681219	679248	678807	0.39	cps
Terbium	159-1	11620935	11632971	11463847	11572584	0.82	cps
Terbium	159-2	8244229	8231255	8279831	8251772	0.30	cps
Thallium	203-1	5439322	5360819	5413772	5404637	0.74	cps
Thallium	205-1	12767231	12887157	12893004	12849131	0.55	cps
Tin	118-1	4889133	4978315	5002729	4956726	1.21	cps
Titanium	47-1	8070773	8174893	8139176	8128281	0.65	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:25:06 DataFile Name : 010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16383200	16919296	16763767	16688754	1.65	cps
Vanadium	51-2	2295221	2287954	2284320	2289165	0.24	cps
Yttrium	89-1	14767770	14761428	14749560	14759586	0.06	cps
Yttrium	89-2	4084596	4062409	4121227	4089411	0.73	cps
Zinc	66-2	4445548	4500377	4453685	4466537	0.66	cps
Zirconium	90-1	9587540	9763245	9810799	9720528	1.21	cps
Zirconium	91-1	2129391	2178900	2205857	2171383	1.79	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:27:52 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5876807	5822335	5895327	5864823	0.65	cps
Antimony	121-1	10813473	10977872	11039588	10943644	1.07	cps
Arsenic	75-2	629843	623403	629043	627430	0.56	cps
Barium	135-1	14974292	15466387	15160680	15200453	1.63	cps
Barium	137-1	25784461	26248935	26114195	26049197	0.92	cps
Beryllium	9-1	2198798	2227040	2268015	2231284	1.56	cps
Bismuth	209-1	6499379	6600317	6574448	6558048	0.80	cps
Bismuth	209-2	5513536	5684236	5543255	5580342	1.63	cps
Bromine	81-1	13973	14130	14387	14164	1.47	cps
Bromine	81-2	107	107	100	104	3.69	cps
Cadmium	108-1	197469	201537	200560	199855	1.06	cps
Cadmium	106-1	283570	286292	289055	286306	0.96	cps
Cadmium	111-1	2694961	2731159	2736478	2720866	0.83	cps
Calcium	43-1	3813754	3847808	3891033	3850865	1.01	cps
Calcium	44-1	56339504	57143252	57911309	57131355	1.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5270491	5240946	5280617	5264018	0.39	cps
Cobalt	59-2	7991988	8088140	8123850	8067993	0.85	cps
Copper	63-2	57806769	57021796	57598364	57475643	0.71	cps
Dysprosium	156-1	277	263	283	274	3.71	cps
Dysprosium	156-2	617	657	747	673	9.89	cps
Erbium	164-1	227	153	257	212	25.05	cps
Erbium	164-2	120	130	163	138	16.47	cps
Gadolinium	160-1	177	177	180	178	1.08	cps
Gadolinium	160-2	377	343	397	372	7.24	cps
Holmium	165-1	11504215	11321134	11304035	11376461	0.98	cps
Holmium	165-2	8501736	8632031	8385318	8506362	1.45	cps
Indium	115-1	8587726	8604746	8742536	8645003	0.98	cps
Indium	115-2	3251885	3252851	3227516	3244084	0.44	cps
Iron	56-2	233367950	233001650	234446650	233605417	0.32	cps
Iron	57-2	5900155	5816094	5827733	5847994	0.78	cps
Iron	54-2	13062840	13012911	13015543	13030431	0.22	cps
Krypton	83-1	227	237	233	232	2.19	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:27:52 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	41853015	42337240	42074580	42088279	0.58	cps
Lead	207-1	36976974	37410145	37337607	37241575	0.62	cps
Lead	208-1	168120604	169891187	169671699	169227830	0.57	cps
Lithium	6-1	1963855	2022117	2042688	2009554	2.03	cps
Magnesium	24-2	48720566	48631156	49184131	48845284	0.61	cps
Manganese	55-2	40109170	39987351	39741250	39945924	0.47	cps
Molybdenum	94-1	42903393	43931619	43798889	43544634	1.28	cps
Molybdenum	95-1	63171354	64516877	64330141	64006124	1.14	cps
Molybdenum	96-1	69484831	70239704	69815061	69846532	0.54	cps
Molybdenum	97-1	39388734	39632794	40112459	39711329	0.93	cps
Molybdenum	98-1	101024872	101709268	103825462	102186534	1.43	cps
Neodymium	150-1	650	700	663	671	3.86	cps
Neodymium	150-2	167	147	127	147	13.64	cps
Nickel	60-2	2030605	2039456	2045678	2038580	0.37	cps
Phosphorus	31-2	315899	317287	321437	318208	0.91	cps
Potassium	39-2	30812030	30794306	30887032	30831123	0.16	cps
Rhodium	103-1	7950131	7955219	8072805	7992718	0.87	cps
Rhodium	103-2	5290800	5408738	5347435	5348991	1.10	cps
Scandium	45-1	5322363	5355352	5438595	5372103	1.12	cps
Scandium	45-2	524884	524286	523807	524326	0.10	cps
Selenium	82-1	172653	174684	176432	174590	1.08	cps
Selenium	77-2	19132	18976	19727	19278	2.05	cps
Selenium	78-2	63666	63934	64316	63972	0.51	cps
Silicon	28-1	17411858	17845082	18043315	17766752	1.82	cps
Silver	107-1	14158912	14208567	14375848	14247776	0.80	cps
Silver	109-1	13327295	13510802	13523128	13453742	0.82	cps
Sodium	23-2	84047560	83873339	84739855	84220252	0.54	cps
Strontium	86-1	92653592	95184769	94535089	94124483	1.40	cps
Strontium	88-1	820773748	831600308	834228708	828867588	0.86	cps
Sulfur	34-1	1224484	1241105	1242000	1235863	0.80	cps
Terbium	159-1	11484426	11601031	11548794	11544751	0.51	cps
Terbium	159-2	8352929	8566631	8487842	8469134	1.28	cps
Thallium	203-1	10607132	10644759	10447732	10566541	0.99	cps
Thallium	205-1	25133531	25398947	25184285	25238921	0.56	cps
Tin	118-1	9889561	9949052	9903274	9913962	0.31	cps
Titanium	47-1	16592484	17004759	17159898	16919047	1.73	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S07

Instrumnet Name :P7

Client Sample ID :S07

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:27:52

DataFile Name :011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33233829	33638574	32620163	33164188	1.55	cps
Vanadium	51-2	4676332	4703160	4737080	4705524	0.65	cps
Yttrium	89-1	14783534	15122811	15186275	15030873	1.44	cps
Yttrium	89-2	4207139	4246997	4263283	4239139	0.68	cps
Zinc	66-2	8946682	8873221	8915784	8911896	0.41	cps
Zirconium	90-1	19162514	19929470	20042835	19711606	2.43	cps
Zirconium	91-1	4337772	4461245	4455187	4418068	1.58	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:42:01 DataFile Name : 013CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	33061575	33103011	33376777	33180455	0.52	cps
Antimony	121-1	2730	2804	2837	2790	1.96	cps
Arsenic	75-2	353	323	353	343	5.04	cps
Barium	135-1	5001	4727	5004	4911	3.23	cps
Barium	137-1	8292	8232	8172	8232	0.73	cps
Beryllium	9-1	142	112	112	122	14.12	cps
Bismuth	209-1	5388726	5274468	5219379	5294191	1.63	cps
Bismuth	209-2	4798248	4849362	4808779	4818797	0.56	cps
Bromine	81-1	15748	15915	15628	15764	0.91	cps
Bromine	81-2	110	177	130	139	24.63	cps
Cadmium	108-1	87	43	97	76	37.53	cps
Cadmium	106-1	2770	2587	2720	2693	3.52	cps
Cadmium	111-1	483	425	428	445	7.35	cps
Calcium	43-1	16575450	16930319	16920701	16808823	1.20	cps
Calcium	44-1	268099929	272561109	273050463	271237167	1.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17177	17621	17294	17364	1.33	cps
Cobalt	59-2	21222	21749	21445	21472	1.23	cps
Copper	63-2	10430	10264	10904	10533	3.15	cps
Dysprosium	156-1	413	393	397	401	2.67	cps
Dysprosium	156-2	313	343	367	341	7.84	cps
Erbium	164-1	387	467	413	422	9.65	cps
Erbium	164-2	333	370	320	341	7.59	cps
Gadolinium	160-1	340	413	330	361	12.60	cps
Gadolinium	160-2	530	547	503	527	4.15	cps
Holmium	165-1	10379670	10278255	10073709	10243878	1.52	cps
Holmium	165-2	8000760	8000284	7851401	7950815	1.08	cps
Indium	115-1	8184480	8166438	8227409	8192776	0.38	cps
Indium	115-2	3230318	3256951	3236445	3241238	0.43	cps
Iron	56-2	1205329849	1197158995	1199825902	1200771582	0.35	cps
Iron	57-2	30206096	30313709	30164090	30227965	0.26	cps
Iron	54-2	66009179	65934857	66022117	65988718	0.07	cps
Krypton	83-1	297	300	313	303	2.91	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:42:01 DataFile Name : 013CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3937	4024	4021	3994	1.23	cps
Lead	207-1	3657	3541	3587	3595	1.63	cps
Lead	208-1	16101	16191	16261	16184	0.50	cps
Lithium	6-1	1804388	1777324	1787877	1789863	0.76	cps
Magnesium	24-2	266206063	267219343	265592243	266339216	0.31	cps
Manganese	55-2	17280	17931	17564	17591	1.85	cps
Molybdenum	94-1	7205	6995	7142	7114	1.51	cps
Molybdenum	95-1	5394	5094	5388	5292	3.24	cps
Molybdenum	96-1	22384	23442	22811	22879	2.33	cps
Molybdenum	97-1	3260	3084	3077	3140	3.31	cps
Molybdenum	98-1	7132	6998	7299	7143	2.11	cps
Neodymium	150-1	173	193	193	187	6.19	cps
Neodymium	150-2	140	103	80	108	28.06	cps
Nickel	60-2	7742	7295	7349	7462	3.27	cps
Phosphorus	31-2	270	260	270	267	2.17	cps
Potassium	39-2	169432681	171642294	171060744	170711906	0.67	cps
Rhodium	103-1	7128972	7209854	7048774	7129200	1.13	cps
Rhodium	103-2	4911740	4925794	4945286	4927607	0.34	cps
Scandium	45-1	5374565	5462223	5478913	5438567	1.03	cps
Scandium	45-2	544067	546879	552982	547976	0.83	cps
Selenium	82-1	684	651	705	680	4.04	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	257	357	347	320	17.21	cps
Silicon	28-1	349820	352910	351991	351574	0.45	cps
Silver	107-1	647	647	667	653	1.77	cps
Silver	109-1	613	600	680	631	6.79	cps
Sodium	23-2	455260233	451431847	453900060	453530713	0.43	cps
Strontium	86-1	11014	11068	11254	11112	1.14	cps
Strontium	88-1	93582	94219	94441	94081	0.47	cps
Sulfur	34-1	182064	182382	181291	181912	0.31	cps
Terbium	159-1	10580914	10511214	10289195	10460441	1.46	cps
Terbium	159-2	7862099	7948811	7933301	7914737	0.58	cps
Thallium	203-1	393	427	417	412	4.15	cps
Thallium	205-1	993	920	890	934	5.69	cps
Tin	118-1	3514	3584	3731	3609	3.06	cps
Titanium	47-1	1423	1473	1433	1443	1.83	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :S08

Instrumnet Name :P7

Client Sample ID :S08

Dilution Factor :1

Date & Time Acquired :2024-10-31 20:42:01

DataFile Name :013CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	300	277	283	287	4.19	cps
Vanadium	51-2	840	750	857	816	7.04	cps
Yttrium	89-1	14244525	14279394	14287089	14270336	0.16	cps
Yttrium	89-2	4284068	4311308	4294110	4296495	0.32	cps
Zinc	66-2	2884	3314	3154	3117	6.97	cps
Zirconium	90-1	9473	9940	9356	9590	3.22	cps
Zirconium	91-1	2117	2174	2137	2142	1.34	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	164067	163389	163871	163776	0.21	cps
Antimony	121-1	2303158	2358840	2355311	2339103	1.33	cps
Arsenic	75-2	143597	143112	145724	144144	0.96	cps
Barium	135-1	283053	284034	281984	283024	0.36	cps
Barium	137-1	492019	490077	486662	489586	0.55	cps
Beryllium	9-1	237088	240601	241678	239789	1.00	cps
Bismuth	209-1	6710142	6641817	6543251	6631737	1.27	cps
Bismuth	209-2	5984199	6127636	6019163	6043666	1.24	cps
Bromine	81-1	16152	16149	16613	16305	1.64	cps
Bromine	81-2	63	77	113	84	30.66	cps
Cadmium	108-1	19814	20244	20221	20093	1.21	cps
Cadmium	106-1	30031	30736	30582	30450	1.22	cps
Cadmium	111-1	284867	285966	284501	285111	0.27	cps
Calcium	43-1	76033	75707	75486	75742	0.36	cps
Calcium	44-1	1173319	1240206	1238324	1217283	3.13	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	609528	605118	606728	607125	0.37	cps
Cobalt	59-2	917324	911663	904854	911280	0.69	cps
Copper	63-2	612649	614796	615102	614182	0.22	cps
Dysprosium	156-1	53	43	47	48	10.66	cps
Dysprosium	156-2	37	50	30	39	26.18	cps
Erbium	164-1	70	73	83	76	9.18	cps
Erbium	164-2	40	67	57	54	24.75	cps
Gadolinium	160-1	53	43	80	59	32.19	cps
Gadolinium	160-2	320	367	370	352	7.94	cps
Holmium	165-1	11352302	11181288	11230356	11254649	0.78	cps
Holmium	165-2	8864161	8765701	8564663	8731508	1.75	cps
Indium	115-1	9847084	9615374	9645309	9702589	1.30	cps
Indium	115-2	3684734	3668089	3749617	3700813	1.16	cps
Iron	56-2	10244155	10326713	10413442	10328103	0.82	cps
Iron	57-2	267239	265276	267277	266597	0.43	cps
Iron	54-2	612874	603699	603337	606637	0.89	cps
Krypton	83-1	187	220	220	209	9.21	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1529434	1517516	1764488	1603813	8.68	cps
Lead	207-1	1298191	1292939	1286430	1292520	0.46	cps
Lead	208-1	6523245	6536864	6702335	6587481	1.51	cps
Lithium	6-1	2075538	2054827	2031964	2054110	1.06	cps
Magnesium	24-2	664870	659511	660940	661773	0.42	cps
Manganese	55-2	449560	447725	448345	448543	0.21	cps
Molybdenum	94-1	630	673	713	672	6.20	cps
Molybdenum	95-1	253	350	303	302	16.00	cps
Molybdenum	96-1	687	730	663	693	4.88	cps
Molybdenum	97-1	190	150	193	178	13.57	cps
Molybdenum	98-1	503	450	587	513	13.42	cps
Neodymium	150-1	23	20	43	29	43.68	cps
Neodymium	150-2	7	17	3	9	78.08	cps
Nickel	60-2	236049	233009	232871	233977	0.77	cps
Phosphorus	31-2	153	227	150	177	24.53	cps
Potassium	39-2	1396797	1399234	1416383	1404138	0.76	cps
Rhodium	103-1	9203388	9182070	9085643	9157034	0.69	cps
Rhodium	103-2	6159962	6122099	6048972	6110344	0.92	cps
Scandium	45-1	6183201	6205525	6024156	6137627	1.61	cps
Scandium	45-2	595662	587595	588846	590701	0.73	cps
Selenium	82-1	42259	42310	42463	42344	0.25	cps
Selenium	77-2	4707	4667	4641	4672	0.72	cps
Selenium	78-2	16032	15388	15965	15795	2.24	cps
Silicon	28-1	338942	336813	337802	337852	0.32	cps
Silver	107-1	724388	731443	733455	729762	0.65	cps
Silver	109-1	690106	699671	695370	695049	0.69	cps
Sodium	23-2	1823979	1804821	1815920	1814907	0.53	cps
Strontium	86-1	1573	1490	1497	1520	3.05	cps
Strontium	88-1	10854	10811	10674	10780	0.87	cps
Sulfur	34-1	201032	198584	198120	199245	0.79	cps
Terbium	159-1	11613950	11405807	11521079	11513612	0.91	cps
Terbium	159-2	8613780	8545600	8629684	8596355	0.52	cps
Thallium	203-1	2288585	2229691	2264517	2260931	1.31	cps
Thallium	205-1	5404483	5319322	5378918	5367574	0.81	cps
Tin	118-1	2894	3174	3050	3039	4.62	cps
Titanium	47-1	190	237	213	213	10.94	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:51:40 DataFile Name : 015ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	50	47	60	52	13.28	cps
Vanadium	51-2	523461	519265	518441	520389	0.52	cps
Yttrium	89-1	16725754	16509476	16271384	16502205	1.38	cps
Yttrium	89-2	4737655	4672691	4612667	4674338	1.34	cps
Zinc	66-2	201582	198872	198339	199598	0.87	cps
Zirconium	90-1	1203	1280	1420	1301	8.44	cps
Zirconium	91-1	380	443	420	414	7.73	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:55:40 DataFile Name : 016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	427	487	453	456	6.60	cps
Antimony	121-1	837	927	1090	951	13.50	cps
Arsenic	75-2	20	7	17	14	48.02	cps
Barium	135-1	120	170	143	144	17.32	cps
Barium	137-1	217	203	207	209	3.32	cps
Beryllium	9-1	70	67	87	75	14.35	cps
Bismuth	209-1	6638133	6536321	6201414	6458623	3.54	cps
Bismuth	209-2	6039122	6087531	5923387	6016680	1.40	cps
Bromine	81-1	16035	16513	16569	16373	1.79	cps
Bromine	81-2	97	107	110	104	6.64	cps
Cadmium	108-1	13	13	10	12	15.73	cps
Cadmium	106-1	3337	3197	3057	3197	4.38	cps
Cadmium	111-1	388	354	325	356	8.78	cps
Calcium	43-1	393	430	420	414	4.57	cps
Calcium	44-1	18970	19257	18496	18908	2.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	917	780	887	861	8.34	cps
Cobalt	59-2	117	143	130	130	10.26	cps
Copper	63-2	1827	1823	1843	1831	0.59	cps
Dysprosium	156-1	57	30	37	41	33.76	cps
Dysprosium	156-2	13	13	10	12	15.73	cps
Erbium	164-1	57	63	60	60	5.55	cps
Erbium	164-2	53	50	73	59	21.43	cps
Gadolinium	160-1	60	57	50	56	9.17	cps
Gadolinium	160-2	357	363	280	333	13.89	cps
Holmium	165-1	11363550	11070322	10756927	11063600	2.74	cps
Holmium	165-2	8592800	8687238	8510733	8596924	1.03	cps
Indium	115-1	9932335	9675063	9289564	9632320	3.36	cps
Indium	115-2	3707384	3699593	3699611	3702196	0.12	cps
Iron	56-2	20564	19930	20227	20240	1.57	cps
Iron	57-2	1680	1540	1517	1579	5.60	cps
Iron	54-2	2560	2610	2610	2594	1.11	cps
Krypton	83-1	200	197	180	192	5.57	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:55:40 DataFile Name : 016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	863	793	780	812	5.51	cps
Lead	207-1	657	750	690	699	6.77	cps
Lead	208-1	3207	3207	3144	3186	1.15	cps
Lithium	6-1	2074584	2070984	1951051	2032206	3.46	cps
Magnesium	24-2	1670	1567	1487	1575	5.84	cps
Manganese	55-2	460	423	467	450	5.19	cps
Molybdenum	94-1	407	363	407	392	6.38	cps
Molybdenum	95-1	117	120	137	124	8.61	cps
Molybdenum	96-1	233	223	297	251	15.84	cps
Molybdenum	97-1	110	130	97	112	14.95	cps
Molybdenum	98-1	237	260	247	248	4.73	cps
Neodymium	150-1	13	10	13	12	15.73	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	157	197	143	166	16.76	cps
Phosphorus	31-2	190	220	223	211	8.70	cps
Potassium	39-2	61945	61745	62444	62045	0.58	cps
Rhodium	103-1	9199791	9154068	8877858	9077239	1.92	cps
Rhodium	103-2	6095992	6155751	6097993	6116579	0.55	cps
Scandium	45-1	6228018	6083323	5858342	6056561	3.08	cps
Scandium	45-2	595261	591948	585351	590854	0.85	cps
Selenium	82-1	572	523	567	554	4.83	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	390	430	373	398	7.32	cps
Silicon	28-1	323150	320842	320013	321335	0.51	cps
Silver	107-1	397	363	343	368	7.33	cps
Silver	109-1	293	310	260	288	8.85	cps
Sodium	23-2	36450	36019	36416	36295	0.66	cps
Strontium	86-1	437	467	417	440	5.72	cps
Strontium	88-1	1173	1177	1223	1191	2.35	cps
Sulfur	34-1	199528	200633	200062	200074	0.28	cps
Terbium	159-1	11510320	11569242	11027769	11369110	2.61	cps
Terbium	159-2	8595998	8716959	8545901	8619619	1.02	cps
Thallium	203-1	440	443	347	410	13.38	cps
Thallium	205-1	930	927	1040	966	6.68	cps
Tin	118-1	2430	2400	2921	2584	11.32	cps
Titanium	47-1	100	140	173	138	26.65	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

ICB001

Instrumnet Name :

P7

Client Sample ID :

ICB001

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:55:40

DataFile Name :

016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	50	33	37	40	22.05	cps
Vanadium	51-2	57	40	33	43	27.74	cps
Yttrium	89-1	16271336	16428226	15650669	16116744	2.55	cps
Yttrium	89-2	4655166	4696378	4687281	4679609	0.46	cps
Zinc	66-2	970	1060	1007	1012	4.47	cps
Zirconium	90-1	593	733	657	661	10.60	cps
Zirconium	91-1	117	183	137	146	23.50	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:58:55 DataFile Name : 017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30762056	30628135	30682035	30690742	0.22	cps
Antimony	121-1	12596	12689	12546	12610	0.58	cps
Arsenic	75-2	233	247	267	249	6.74	cps
Barium	135-1	4117	4271	4427	4272	3.63	cps
Barium	137-1	7449	7102	7529	7360	3.08	cps
Beryllium	9-1	1116	981	964	1021	8.17	cps
Bismuth	209-1	6528766	6367140	6419898	6438601	1.28	cps
Bismuth	209-2	5744965	5733831	5672893	5717230	0.68	cps
Bromine	81-1	16810	16566	16893	16756	1.01	cps
Bromine	81-2	173	187	137	166	15.64	cps
Cadmium	108-1	1597	1573	1643	1605	2.22	cps
Cadmium	106-1	3337	3177	3340	3285	2.84	cps
Cadmium	111-1	1173	1213	1087	1158	5.56	cps
Calcium	43-1	3675230	3669056	3656832	3667039	0.26	cps
Calcium	44-1	58728704	59407909	58968467	59035027	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	119922	119253	120161	119779	0.39	cps
Cobalt	59-2	11138	10974	11281	11131	1.38	cps
Copper	63-2	46833	46692	46341	46622	0.54	cps
Dysprosium	156-1	77	70	50	66	21.17	cps
Dysprosium	156-2	37	63	33	44	36.99	cps
Erbium	164-1	120	97	160	126	25.51	cps
Erbium	164-2	90	93	80	88	7.90	cps
Gadolinium	160-1	103	103	113	107	5.42	cps
Gadolinium	160-2	283	377	400	353	17.47	cps
Holmium	165-1	11522268	11755294	11500269	11592610	1.22	cps
Holmium	165-2	8804247	8849140	8722295	8791894	0.73	cps
Indium	115-1	9480267	9468305	9292258	9413610	1.12	cps
Indium	115-2	3572162	3579981	3542280	3564808	0.56	cps
Iron	56-2	519406566	520026352	514205112	517879343	0.62	cps
Iron	57-2	13038270	12960526	12836076	12944958	0.79	cps
Iron	54-2	28621419	28579859	28231785	28477687	0.75	cps
Krypton	83-1	157	203	223	194	17.59	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 20:58:55 DataFile Name : 017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	33765	33795	33839	33800	0.11	cps
Lead	207-1	27525	27287	27047	27286	0.88	cps
Lead	208-1	128676	127765	127977	128139	0.37	cps
Lithium	6-1	2076480	2090934	2086380	2084598	0.35	cps
Magnesium	24-2	54320249	54415069	54740248	54491855	0.40	cps
Manganese	55-2	35535	35752	35539	35609	0.35	cps
Molybdenum	94-1	6937210	7019092	6960259	6972187	0.61	cps
Molybdenum	95-1	12201241	12426734	12251492	12293156	0.96	cps
Molybdenum	96-1	13151772	13303288	13239265	13231442	0.57	cps
Molybdenum	97-1	7591633	7726720	7582262	7633538	1.06	cps
Molybdenum	98-1	19523543	19709789	19534405	19589246	0.53	cps
Neodymium	150-1	50	47	77	58	28.46	cps
Neodymium	150-2	47	63	37	49	27.55	cps
Nickel	60-2	12422	12228	12188	12280	1.02	cps
Phosphorus	31-2	1785174	1760983	1791541	1779233	0.91	cps
Potassium	39-2	69286092	69003396	68795399	69028296	0.36	cps
Rhodium	103-1	8533976	8559083	8425477	8506178	0.83	cps
Rhodium	103-2	5729214	5705318	5700704	5711745	0.27	cps
Scandium	45-1	6067908	6073443	5998791	6046714	0.69	cps
Scandium	45-2	584361	587041	578829	583410	0.72	cps
Selenium	82-1	656	608	552	605	8.58	cps
Selenium	77-2	0	7	7	4	86.60	cps
Selenium	78-2	367	367	343	359	3.75	cps
Silicon	28-1	432152	437304	437756	435737	0.71	cps
Silver	107-1	1050	830	620	833	25.80	cps
Silver	109-1	923	753	557	744	24.65	cps
Sodium	23-2	93817649	93928285	93310355	93685430	0.35	cps
Strontium	86-1	136879	137838	137050	137256	0.37	cps
Strontium	88-1	1198445	1206712	1203590	1202916	0.35	cps
Sulfur	34-1	5972631	5981093	5957253	5970326	0.20	cps
Terbium	159-1	11988476	11985960	11773742	11916059	1.03	cps
Terbium	159-2	8768145	8791016	8815670	8791610	0.27	cps
Thallium	203-1	1730	1940	2127	1932	10.27	cps
Thallium	205-1	4424	4481	4744	4550	3.75	cps
Tin	118-1	4357	4784	4684	4609	4.84	cps
Titanium	47-1	3464501	3505772	3511043	3493772	0.73	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

ICSA001

Instrumnet Name :

P7

Client Sample ID :

ICSA001

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 20:58:55

DataFile Name :

017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	457	440	510	469	7.80	cps
Vanadium	51-2	1083	1010	1010	1034	4.09	cps
Yttrium	89-1	16483327	16126916	15962918	16191054	1.64	cps
Yttrium	89-2	4633843	4644211	4546791	4608282	1.16	cps
Zinc	66-2	12609	13026	13066	12900	1.96	cps
Zirconium	90-1	1043	1100	1193	1112	6.81	cps
Zirconium	91-1	227	243	227	232	4.14	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:01:59 DataFile Name : 018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	31568050	31522332	31481000	31523794	0.14	cps
Antimony	121-1	233151	236719	235667	235179	0.78	cps
Arsenic	75-2	14404	14727	14674	14602	1.19	cps
Barium	135-1	63825	62657	62717	63067	1.04	cps
Barium	137-1	107657	108547	108809	108338	0.56	cps
Beryllium	9-1	49958	50194	50811	50321	0.88	cps
Bismuth	209-1	6470534	6433884	6853933	6586117	3.53	cps
Bismuth	209-2	5743425	5811168	5746068	5766887	0.67	cps
Bromine	81-1	17243	17454	17517	17405	0.82	cps
Bromine	81-2	233	220	207	220	6.06	cps
Cadmium	108-1	5091	5765	5371	5409	6.26	cps
Cadmium	106-1	8656	8479	8553	8563	1.04	cps
Cadmium	111-1	55468	56006	56142	55872	0.64	cps
Calcium	43-1	3706906	3755332	3766625	3742954	0.85	cps
Calcium	44-1	60365332	60994222	61278364	60879306	0.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	245212	243559	243760	244177	0.37	cps
Cobalt	59-2	190351	190881	189524	190252	0.36	cps
Copper	63-2	166269	165376	166333	165993	0.32	cps
Dysprosium	156-1	60	47	50	52	13.28	cps
Dysprosium	156-2	40	43	47	43	7.70	cps
Erbium	164-1	120	147	103	123	17.73	cps
Erbium	164-2	97	87	97	93	6.19	cps
Gadolinium	160-1	93	110	97	100	8.82	cps
Gadolinium	160-2	427	370	420	406	7.64	cps
Holmium	165-1	11874838	11968019	12135277	11992711	1.10	cps
Holmium	165-2	8933360	8885912	9168998	8996090	1.69	cps
Indium	115-1	9827728	9741425	9791864	9787005	0.44	cps
Indium	115-2	3652963	3614170	3607770	3624968	0.67	cps
Iron	56-2	529400579	530996472	531105245	530500765	0.18	cps
Iron	57-2	13209474	13312948	13172089	13231504	0.55	cps
Iron	54-2	29273040	29091316	28924204	29096187	0.60	cps
Krypton	83-1	203	197	207	202	2.52	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:01:59 DataFile Name : 018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	197559	197734	199143	198145	0.44	cps
Lead	207-1	165886	167654	165711	166417	0.65	cps
Lead	208-1	760595	770346	766605	765848	0.64	cps
Lithium	6-1	2156107	2141686	2257279	2185024	2.88	cps
Magnesium	24-2	55825729	56038703	56472787	56112406	0.59	cps
Manganese	55-2	125438	126012	125067	125505	0.38	cps
Molybdenum	94-1	7037146	7124299	7048262	7069903	0.67	cps
Molybdenum	95-1	12508930	12642803	12521714	12557816	0.59	cps
Molybdenum	96-1	13327906	13445892	13378833	13384210	0.44	cps
Molybdenum	97-1	7817036	7789775	7734467	7780426	0.54	cps
Molybdenum	98-1	20219194	20063005	19863989	20048729	0.89	cps
Neodymium	150-1	37	40	83	53	48.81	cps
Neodymium	150-2	37	53	40	43	20.34	cps
Nickel	60-2	56760	57667	56850	57093	0.87	cps
Phosphorus	31-2	1832117	1839445	1824378	1831980	0.41	cps
Potassium	39-2	70286662	70990732	70460662	70579352	0.52	cps
Rhodium	103-1	8838803	8768096	8919650	8842183	0.86	cps
Rhodium	103-2	5772463	5803184	5786411	5787353	0.27	cps
Scandium	45-1	6290506	6334748	6367247	6330834	0.61	cps
Scandium	45-2	605166	602055	603018	603413	0.26	cps
Selenium	82-1	4539	4699	4682	4640	1.89	cps
Selenium	77-2	420	480	387	429	11.03	cps
Selenium	78-2	1760	1860	1827	1816	2.80	cps
Silicon	28-1	456908	461067	466220	461398	1.01	cps
Silver	107-1	274675	279273	278340	277429	0.88	cps
Silver	109-1	258378	261349	261676	260467	0.70	cps
Sodium	23-2	95889322	96444252	95390005	95907860	0.55	cps
Strontium	86-1	140152	140510	140247	140303	0.13	cps
Strontium	88-1	1227235	1222150	1228645	1226010	0.28	cps
Sulfur	34-1	6126685	6190093	6194485	6170421	0.61	cps
Terbium	159-1	12093458	12251091	12428233	12257594	1.37	cps
Terbium	159-2	8953305	8925515	8808347	8895722	0.86	cps
Thallium	203-1	207771	214827	212435	211678	1.70	cps
Thallium	205-1	498043	506941	506480	503821	0.99	cps
Tin	118-1	4094	3864	4745	4234	10.80	cps
Titanium	47-1	3564215	3621638	3606337	3597397	0.83	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :ICSAB001

Instrumnet Name :P7

Client Sample ID :ICSAB001

Dilution Factor :1

Date & Time Acquired :2024-10-31 21:01:59

DataFile Name :018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	500	580	553	544	7.48	cps
Vanadium	51-2	107980	107556	107459	107665	0.26	cps
Yttrium	89-1	16798412	16649298	16963845	16803852	0.94	cps
Yttrium	89-2	4705051	4697421	4752000	4718157	0.63	cps
Zinc	66-2	32105	32485	31914	32168	0.90	cps
Zirconium	90-1	943	843	1007	931	8.84	cps
Zirconium	91-1	223	197	227	216	7.63	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:08:39 DataFile Name : 020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	17294029	17336149	17332772	17320983	0.14	cps
Antimony	121-1	5696926	5751192	5751101	5733073	0.55	cps
Arsenic	75-2	368330	366944	365744	367006	0.35	cps
Barium	135-1	7909300	7970581	7884076	7921319	0.56	cps
Barium	137-1	13578266	13677835	13465542	13573881	0.78	cps
Beryllium	9-1	1215722	1206671	1219638	1214010	0.55	cps
Bismuth	209-1	6183432	6006343	5974771	6054849	1.86	cps
Bismuth	209-2	5341004	5254739	5345853	5313865	0.96	cps
Bromine	81-1	17584	16506	16750	16946	3.34	cps
Bromine	81-2	97	73	63	78	22.00	cps
Cadmium	108-1	111836	112277	112052	112055	0.20	cps
Cadmium	106-1	160624	162454	160249	161109	0.73	cps
Cadmium	111-1	1378271	1398001	1395357	1390543	0.77	cps
Calcium	43-1	9802364	9910482	9806565	9839803	0.62	cps
Calcium	44-1	154123474	157421221	155595228	155713308	1.06	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3025111	3040520	3060454	3042028	0.58	cps
Cobalt	59-2	4814713	4811570	4787330	4804538	0.31	cps
Copper	63-2	32512993	32901790	32773272	32729351	0.61	cps
Dysprosium	156-1	313	303	400	339	15.69	cps
Dysprosium	156-2	520	567	463	517	10.01	cps
Erbium	164-1	357	397	340	364	7.99	cps
Erbium	164-2	267	250	243	253	4.74	cps
Gadolinium	160-1	260	253	273	262	3.88	cps
Gadolinium	160-2	460	493	547	500	8.74	cps
Holmium	165-1	11214096	11320067	11226773	11253645	0.51	cps
Holmium	165-2	8450037	8451905	8688515	8530152	1.61	cps
Indium	115-1	9298952	9187199	9302523	9262891	0.71	cps
Indium	115-2	3500063	3444062	3465367	3469831	0.81	cps
Iron	56-2	655175577	657288190	654645124	655702964	0.21	cps
Iron	57-2	16421027	16239043	16230211	16296760	0.66	cps
Iron	54-2	36115845	35779364	35905358	35933522	0.47	cps
Krypton	83-1	237	283	247	256	9.62	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:08:39 DataFile Name : 020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20073953	19919771	19898945	19964223	0.48	cps
Lead	207-1	17661066	17467011	17416346	17514808	0.74	cps
Lead	208-1	80613451	79919314	79431822	79988196	0.74	cps
Lithium	6-1	2093226	2120054	2080809	2098030	0.96	cps
Magnesium	24-2	149106758	150330361	149314284	149583801	0.44	cps
Manganese	55-2	22720870	22593107	22762751	22692243	0.39	cps
Molybdenum	94-1	24103594	24393197	24407627	24301473	0.71	cps
Molybdenum	95-1	35351344	35140192	35485217	35325584	0.49	cps
Molybdenum	96-1	38482971	38275738	38495595	38418101	0.32	cps
Molybdenum	97-1	21999498	21950082	22068543	22006041	0.27	cps
Molybdenum	98-1	56666777	56774487	56270207	56570491	0.47	cps
Neodymium	150-1	477	470	407	451	8.56	cps
Neodymium	150-2	207	163	197	189	12.01	cps
Nickel	60-2	1133710	1138643	1136244	1136199	0.22	cps
Phosphorus	31-2	188141	188092	189231	188488	0.34	cps
Potassium	39-2	90739375	91223752	91497132	91153420	0.42	cps
Rhodium	103-1	8547169	8511536	8211270	8423325	2.19	cps
Rhodium	103-2	5485444	5510849	5485742	5494012	0.27	cps
Scandium	45-1	6342456	6258582	6238402	6279814	0.88	cps
Scandium	45-2	601925	601877	605350	603051	0.33	cps
Selenium	82-1	101372	101852	101020	101414	0.41	cps
Selenium	77-2	11411	11274	11525	11403	1.10	cps
Selenium	78-2	37574	37087	36669	37110	1.22	cps
Silicon	28-1	60409036	60397431	60305032	60370500	0.09	cps
Silver	107-1	7930728	7879654	7892349	7900910	0.34	cps
Silver	109-1	7407486	7424765	7434726	7422326	0.19	cps
Sodium	23-2	242068023	242871803	241805896	242248574	0.23	cps
Strontium	86-1	52619328	52955181	52311884	52628798	0.61	cps
Strontium	88-1	459202593	465087593	462454780	462248322	0.64	cps
Sulfur	34-1	794391	790931	788633	791318	0.37	cps
Terbium	159-1	11794734	11748018	11390541	11644431	1.90	cps
Terbium	159-2	8465967	8314362	8468877	8416402	1.05	cps
Thallium	203-1	5036167	5093972	5021591	5050577	0.76	cps
Thallium	205-1	12299181	12019976	12001222	12106793	1.38	cps
Tin	118-1	5234156	5105332	5146289	5161925	1.28	cps
Titanium	47-1	9942337	9961804	9908603	9937581	0.27	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:08:39 DataFile Name : 020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15477946	15452802	15659790	15530179	0.73	cps
Vanadium	51-2	2755191	2748613	2767265	2757023	0.34	cps
Yttrium	89-1	16561511	16567494	16400953	16509986	0.57	cps
Yttrium	89-2	4623280	4603505	4603342	4610043	0.25	cps
Zinc	66-2	5085932	5120598	5073408	5093313	0.48	cps
Zirconium	90-1	11156970	11354659	11275012	11262214	0.88	cps
Zirconium	91-1	2498237	2540696	2564594	2534509	1.33	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:15:04 DataFile Name : 022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	483	537	527	516	5.50	cps
Antimony	121-1	1067	1157	1353	1192	12.30	cps
Arsenic	75-2	13	13	17	14	13.35	cps
Barium	135-1	127	167	157	150	13.88	cps
Barium	137-1	260	217	237	238	9.12	cps
Beryllium	9-1	57	64	97	73	29.25	cps
Bismuth	209-1	6685647	6259792	6709081	6551507	3.86	cps
Bismuth	209-2	6100059	6169343	6120559	6129987	0.58	cps
Bromine	81-1	18141	17267	17818	17742	2.49	cps
Bromine	81-2	137	120	163	140	15.61	cps
Cadmium	108-1	17	20	23	20	16.65	cps
Cadmium	106-1	3347	3090	3410	3283	5.16	cps
Cadmium	111-1	393	388	395	392	0.84	cps
Calcium	43-1	410	390	457	419	8.17	cps
Calcium	44-1	19888	19995	19988	19957	0.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	877	947	953	926	4.59	cps
Cobalt	59-2	107	80	117	101	18.75	cps
Copper	63-2	1857	1910	1817	1861	2.52	cps
Dysprosium	156-1	43	17	40	33	43.58	cps
Dysprosium	156-2	10	10	10	10	0.00	cps
Erbium	164-1	50	60	60	57	10.19	cps
Erbium	164-2	67	47	63	59	18.19	cps
Gadolinium	160-1	37	57	53	49	21.91	cps
Gadolinium	160-2	263	403	297	321	22.77	cps
Holmium	165-1	11365742	10567402	11566494	11166546	4.73	cps
Holmium	165-2	8733561	8870052	8837435	8813683	0.81	cps
Indium	115-1	9896542	9338258	10091956	9775585	4.00	cps
Indium	115-2	3777919	3852830	3828678	3819809	1.00	cps
Iron	56-2	23241	23722	23458	23474	1.03	cps
Iron	57-2	1593	1660	1733	1662	4.21	cps
Iron	54-2	2727	2750	2647	2708	2.00	cps
Krypton	83-1	200	227	227	218	7.07	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:15:04 DataFile Name : 022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	920	927	850	899	4.72	cps
Lead	207-1	760	803	780	781	2.78	cps
Lead	208-1	3520	3520	3370	3470	2.50	cps
Lithium	6-1	2101980	1998965	2181424	2094123	4.37	cps
Magnesium	24-2	2394	2440	2384	2406	1.26	cps
Manganese	55-2	450	450	470	457	2.53	cps
Molybdenum	94-1	833	1203	910	982	19.88	cps
Molybdenum	95-1	643	803	673	707	12.04	cps
Molybdenum	96-1	827	983	767	859	13.03	cps
Molybdenum	97-1	293	357	380	343	13.06	cps
Molybdenum	98-1	913	1053	1027	998	7.45	cps
Neodymium	150-1	3	13	17	11	62.48	cps
Neodymium	150-2	7	13	3	8	65.47	cps
Nickel	60-2	103	93	107	101	6.87	cps
Phosphorus	31-2	203	153	217	191	17.47	cps
Potassium	39-2	67957	68905	69254	68705	0.98	cps
Rhodium	103-1	9492968	8864681	9605747	9321132	4.28	cps
Rhodium	103-2	6222598	6370642	6252319	6281853	1.25	cps
Scandium	45-1	6453363	6041674	6504220	6333085	4.01	cps
Scandium	45-2	613950	621116	619411	618159	0.61	cps
Selenium	82-1	535	546	519	533	2.56	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	413	383	460	419	9.22	cps
Silicon	28-1	336557	336244	337740	336847	0.23	cps
Silver	107-1	360	383	350	364	4.69	cps
Silver	109-1	307	300	247	284	11.56	cps
Sodium	23-2	44946	44451	44651	44682	0.56	cps
Strontium	86-1	743	817	717	759	6.82	cps
Strontium	88-1	3844	4614	3444	3967	15.00	cps
Sulfur	34-1	205131	206260	207361	206250	0.54	cps
Terbium	159-1	11997770	11016354	11707272	11573799	4.36	cps
Terbium	159-2	8749819	8810844	8848755	8803139	0.57	cps
Thallium	203-1	587	560	483	543	9.87	cps
Thallium	205-1	1320	1353	1313	1329	1.61	cps
Tin	118-1	2094	2030	2314	2146	6.93	cps
Titanium	47-1	243	277	220	247	11.55	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :CCB001

Instrumnet Name :P7

Client Sample ID :CCB001

Dilution Factor :1

Date & Time Acquired :2024-10-31 21:15:04

DataFile Name :022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73	133	97	101	29.92	cps
Vanadium	51-2	27	7	53	29	81.03	cps
Yttrium	89-1	17159110	15684985	17172494	16672196	5.13	cps
Yttrium	89-2	4805830	4905027	4872880	4861245	1.04	cps
Zinc	66-2	823	863	897	861	4.26	cps
Zirconium	90-1	1273	1670	1740	1561	16.12	cps
Zirconium	91-1	273	350	353	326	13.90	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BL Instrumnet Name : P7
Client Sample ID : PBS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:18:19 DataFile Name : 023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	457	527	467	483	7.83	cps
Antimony	121-1	530	640	780	650	19.28	cps
Arsenic	75-2	10	10	13	11	17.30	cps
Barium	135-1	87	117	113	106	15.58	cps
Barium	137-1	243	183	227	218	14.22	cps
Beryllium	9-1	84	70	47	67	27.65	cps
Bismuth	209-1	6835972	6746439	6610599	6731003	1.69	cps
Bismuth	209-2	6148947	6005989	6046427	6067121	1.21	cps
Bromine	81-1	17384	17687	17747	17606	1.11	cps
Bromine	81-2	97	60	87	81	23.37	cps
Cadmium	108-1	20	17	10	16	32.73	cps
Cadmium	106-1	4024	3380	3507	3637	9.37	cps
Cadmium	111-1	428	393	394	405	4.99	cps
Calcium	43-1	383	443	507	444	13.88	cps
Calcium	44-1	20622	20469	20529	20540	0.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1030	1013	990	1011	1.99	cps
Cobalt	59-2	103	97	67	89	21.97	cps
Copper	63-2	1640	1873	1677	1730	7.25	cps
Dysprosium	156-1	10	40	40	30	57.74	cps
Dysprosium	156-2	13	3	13	10	57.75	cps
Erbium	164-1	87	63	80	77	15.68	cps
Erbium	164-2	60	57	40	52	20.52	cps
Gadolinium	160-1	33	43	47	41	16.89	cps
Gadolinium	160-2	327	297	340	321	6.91	cps
Holmium	165-1	11797214	11537442	11490604	11608420	1.42	cps
Holmium	165-2	8835853	8687276	8756856	8759995	0.85	cps
Indium	115-1	10430004	10264660	10204377	10299681	1.13	cps
Indium	115-2	3881735	3834274	3814502	3843504	0.90	cps
Iron	56-2	23909	23498	23261	23556	1.39	cps
Iron	57-2	1697	1827	1867	1797	4.95	cps
Iron	54-2	2790	2817	2790	2799	0.55	cps
Krypton	83-1	233	207	220	220	6.06	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BL Instrumnet Name : P7
Client Sample ID : PBS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:18:19 DataFile Name : 023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	733	783	717	744	4.66	cps
Lead	207-1	683	590	693	656	8.69	cps
Lead	208-1	2960	2890	2813	2888	2.54	cps
Lithium	6-1	2217852	2166221	2171642	2185238	1.30	cps
Magnesium	24-2	1917	1940	1803	1887	3.88	cps
Manganese	55-2	467	440	457	454	2.96	cps
Molybdenum	94-1	593	580	667	613	7.61	cps
Molybdenum	95-1	360	407	407	391	6.89	cps
Molybdenum	96-1	537	447	587	523	13.56	cps
Molybdenum	97-1	197	203	270	223	18.16	cps
Molybdenum	98-1	613	593	563	590	4.27	cps
Neodymium	150-1	10	10	17	12	31.50	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	123	123	163	137	16.90	cps
Phosphorus	31-2	150	183	200	178	14.32	cps
Potassium	39-2	68486	68205	67844	68178	0.47	cps
Rhodium	103-1	9897555	9633731	9523250	9684846	1.99	cps
Rhodium	103-2	6367537	6321481	6239002	6309340	1.03	cps
Scandium	45-1	6755897	6512726	6613627	6627417	1.84	cps
Scandium	45-2	628410	629503	622247	626720	0.62	cps
Selenium	82-1	544	569	517	543	4.75	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	400	393	433	409	5.24	cps
Silicon	28-1	328878	332437	333667	331661	0.75	cps
Silver	107-1	267	240	213	240	11.11	cps
Silver	109-1	190	160	183	178	8.86	cps
Sodium	23-2	40941	40744	40092	40592	1.09	cps
Strontium	86-1	530	667	600	599	11.41	cps
Strontium	88-1	2397	2190	2324	2304	4.55	cps
Sulfur	34-1	207830	207148	207130	207369	0.19	cps
Terbium	159-1	12259221	12114883	11816103	12063402	1.87	cps
Terbium	159-2	8813041	8846652	8857993	8839229	0.26	cps
Thallium	203-1	487	503	353	448	18.36	cps
Thallium	205-1	1130	987	920	1012	10.60	cps
Tin	118-1	2617	2587	2590	2598	0.63	cps
Titanium	47-1	207	197	243	216	11.40	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164510BL

Instrumnet Name :

P7

Client Sample ID :

PBS510

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:18:19

DataFile Name :

023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77	43	47	56	33.05	cps
Vanadium	51-2	20	17	20	19	10.18	cps
Yttrium	89-1	17675835	17340144	17276566	17430848	1.23	cps
Yttrium	89-2	4922813	4872896	4838906	4878205	0.87	cps
Zinc	66-2	853	843	873	857	1.78	cps
Zirconium	90-1	970	1053	1017	1013	4.12	cps
Zirconium	91-1	193	240	240	224	12.00	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BS Instrumnet Name : P7
Client Sample ID : LCS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:21:37 DataFile Name : 024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14560	14367	14664	14530	1.04	cps
Antimony	121-1	45452	45328	44442	45074	1.22	cps
Arsenic	75-2	1617	1503	1653	1591	4.91	cps
Barium	135-1	57495	57137	57228	57287	0.32	cps
Barium	137-1	98706	99001	99402	99036	0.35	cps
Beryllium	9-1	5049	5116	5173	5113	1.21	cps
Bismuth	209-1	6765711	6630849	6561066	6652542	1.56	cps
Bismuth	209-2	6137729	6148198	6150279	6145402	0.11	cps
Bromine	81-1	17540	17103	17284	17309	1.27	cps
Bromine	81-2	127	63	90	93	34.07	cps
Cadmium	108-1	463	393	453	437	8.67	cps
Cadmium	106-1	4317	4021	4071	4136	3.84	cps
Cadmium	111-1	5535	5544	5537	5539	0.09	cps
Calcium	43-1	39923	39936	39702	39853	0.33	cps
Calcium	44-1	656913	662900	658796	659537	0.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26917	26286	26837	26680	1.29	cps
Cobalt	59-2	19439	19112	19276	19276	0.85	cps
Copper	63-2	29713	29232	29359	29435	0.85	cps
Dysprosium	156-1	17	33	40	30	40.05	cps
Dysprosium	156-2	17	17	20	18	10.81	cps
Erbium	164-1	73	53	63	63	15.79	cps
Erbium	164-2	53	60	70	61	13.73	cps
Gadolinium	160-1	50	83	53	62	29.50	cps
Gadolinium	160-2	363	350	337	350	3.81	cps
Holmium	165-1	11583270	11487154	11441002	11503809	0.63	cps
Holmium	165-2	8871444	8766311	8802473	8813409	0.61	cps
Indium	115-1	10189125	10320582	10187086	10232264	0.75	cps
Indium	115-2	3846532	3788674	3856398	3830535	0.96	cps
Iron	56-2	2273480	2287219	2235022	2265241	1.19	cps
Iron	57-2	59045	58995	58651	58897	0.36	cps
Iron	54-2	129437	130368	129034	129613	0.53	cps
Krypton	83-1	277	220	187	228	19.98	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164510BS Instrumnet Name : P7
Client Sample ID : LCS510 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:21:37 DataFile Name : 024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15125	14681	14868	14892	1.50	cps
Lead	207-1	13243	13514	13323	13360	1.04	cps
Lead	208-1	59464	59892	60112	59823	0.55	cps
Lithium	6-1	2225341	2212709	2190263	2209437	0.80	cps
Magnesium	24-2	634000	632334	634800	633711	0.20	cps
Manganese	55-2	10127	9773	9983	9961	1.79	cps
Molybdenum	94-1	52925	52373	51841	52380	1.03	cps
Molybdenum	95-1	63326	63316	62804	63149	0.47	cps
Molybdenum	96-1	69929	71460	69631	70340	1.39	cps
Molybdenum	97-1	39426	40466	40041	39978	1.31	cps
Molybdenum	98-1	101586	100805	100520	100970	0.55	cps
Neodymium	150-1	13	10	10	11	17.30	cps
Neodymium	150-2	17	10	7	11	45.82	cps
Nickel	60-2	5088	5208	5158	5151	1.17	cps
Phosphorus	31-2	227	137	187	183	24.60	cps
Potassium	39-2	847373	848932	844125	846810	0.29	cps
Rhodium	103-1	9687893	9681454	9686612	9685319	0.04	cps
Rhodium	103-2	6356659	6319481	6249582	6308574	0.86	cps
Scandium	45-1	6635657	6681749	6609100	6642169	0.55	cps
Scandium	45-2	632783	623942	631246	629324	0.75	cps
Selenium	82-1	2656	2904	2772	2777	4.47	cps
Selenium	77-2	247	273	193	238	17.13	cps
Selenium	78-2	1277	1093	1193	1188	7.73	cps
Silicon	28-1	490587	489547	487315	489150	0.34	cps
Silver	107-1	29744	30318	30095	30052	0.96	cps
Silver	109-1	27924	27894	28842	28220	1.91	cps
Sodium	23-2	1048465	1052727	1050438	1050543	0.20	cps
Strontium	86-1	8846	8746	8456	8683	2.33	cps
Strontium	88-1	75161	75667	75352	75393	0.34	cps
Sulfur	34-1	215173	218558	214944	216225	0.94	cps
Terbium	159-1	11973191	12231601	11657944	11954245	2.40	cps
Terbium	159-2	8695347	8738177	8638547	8690690	0.58	cps
Thallium	203-1	17748	17855	17728	17777	0.38	cps
Thallium	205-1	43446	41834	41754	42345	2.25	cps
Tin	118-1	2687	2664	2594	2648	1.83	cps
Titanium	47-1	18314	18835	18438	18529	1.47	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164510BS

Instrumnet Name :

P7

Client Sample ID :

LCS510

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:21:37

DataFile Name :

024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	50499	50696	50914	50703	0.41	cps
Vanadium	51-2	56003	56565	55803	56124	0.70	cps
Yttrium	89-1	17455529	17362934	17210608	17343024	0.71	cps
Yttrium	89-2	4849975	4891431	4923579	4888329	0.75	cps
Zinc	66-2	11835	11518	12065	11806	2.33	cps
Zirconium	90-1	45464	45273	45938	45558	0.75	cps
Zirconium	91-1	10597	10057	10054	10236	3.06	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BL Instrumnet Name : P7
Client Sample ID : PBS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:24:56 DataFile Name : 025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	537	540	543	540	0.62	cps
Antimony	121-1	330	323	420	358	15.09	cps
Arsenic	75-2	3	13	17	11	62.48	cps
Barium	135-1	87	103	107	99	10.83	cps
Barium	137-1	223	277	193	231	18.26	cps
Beryllium	9-1	90	54	54	66	32.11	cps
Bismuth	209-1	6777011	6613762	6629600	6673458	1.35	cps
Bismuth	209-2	6039143	6112588	6013024	6054918	0.85	cps
Bromine	81-1	17891	17424	17150	17488	2.14	cps
Bromine	81-2	90	97	83	90	7.41	cps
Cadmium	108-1	3	13	3	7	86.65	cps
Cadmium	106-1	3587	3537	3217	3447	5.83	cps
Cadmium	111-1	383	391	366	380	3.36	cps
Calcium	43-1	430	397	397	408	4.72	cps
Calcium	44-1	20312	19688	19815	19938	1.65	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	890	910	787	862	7.68	cps
Cobalt	59-2	103	73	87	88	17.12	cps
Copper	63-2	1523	1567	1547	1546	1.40	cps
Dysprosium	156-1	27	43	30	33	26.45	cps
Dysprosium	156-2	7	17	17	13	43.29	cps
Erbium	164-1	57	83	110	83	32.00	cps
Erbium	164-2	80	80	70	77	7.53	cps
Gadolinium	160-1	57	43	70	57	23.53	cps
Gadolinium	160-2	357	377	353	362	3.49	cps
Holmium	165-1	11474077	11431204	11395575	11433619	0.34	cps
Holmium	165-2	8751690	8827522	8761717	8780310	0.47	cps
Indium	115-1	10164524	10337407	9961241	10154391	1.85	cps
Indium	115-2	3819374	3793164	3793717	3802085	0.39	cps
Iron	56-2	20624	20828	20307	20586	1.27	cps
Iron	57-2	1660	1767	1740	1722	3.22	cps
Iron	54-2	2434	2624	2414	2490	4.66	cps
Krypton	83-1	237	227	210	224	6.00	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BL Instrumnet Name : P7
Client Sample ID : PBS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:24:56 DataFile Name : 025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	630	523	633	596	10.51	cps
Lead	207-1	570	483	463	506	11.22	cps
Lead	208-1	2623	2367	2317	2436	6.76	cps
Lithium	6-1	2173367	2230269	2186395	2196677	1.36	cps
Magnesium	24-2	1450	1437	1373	1420	2.88	cps
Manganese	55-2	403	370	467	413	11.88	cps
Molybdenum	94-1	440	450	450	447	1.29	cps
Molybdenum	95-1	250	260	213	241	10.19	cps
Molybdenum	96-1	277	347	340	321	12.03	cps
Molybdenum	97-1	137	147	150	144	4.80	cps
Molybdenum	98-1	373	330	340	348	6.52	cps
Neodymium	150-1	17	7	3	9	78.08	cps
Neodymium	150-2	10	10	3	8	49.52	cps
Nickel	60-2	123	160	140	141	13.01	cps
Phosphorus	31-2	230	147	183	187	22.37	cps
Potassium	39-2	66377	67351	65818	66516	1.17	cps
Rhodium	103-1	9749335	9707613	9539883	9665610	1.15	cps
Rhodium	103-2	6367677	6290707	6330710	6329698	0.61	cps
Scandium	45-1	6607124	6608259	6550746	6588710	0.50	cps
Scandium	45-2	628003	631103	625460	628189	0.45	cps
Selenium	82-1	523	547	570	547	4.36	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	417	383	353	384	8.24	cps
Silicon	28-1	328820	332167	331406	330797	0.53	cps
Silver	107-1	300	343	277	307	11.03	cps
Silver	109-1	243	237	220	233	5.15	cps
Sodium	23-2	34839	34515	34305	34553	0.78	cps
Strontium	86-1	527	493	480	500	4.81	cps
Strontium	88-1	1480	1587	1710	1592	7.23	cps
Sulfur	34-1	217235	216983	217053	217090	0.06	cps
Terbium	159-1	11822487	11779788	11864134	11822137	0.36	cps
Terbium	159-2	8787636	8674636	8841582	8767951	0.97	cps
Thallium	203-1	317	330	323	323	2.06	cps
Thallium	205-1	703	713	730	716	1.88	cps
Tin	118-1	2570	2414	2544	2509	3.34	cps
Titanium	47-1	147	180	157	161	10.62	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

PB164509BL

Instrumnet Name :

P7

Client Sample ID :

PBS509

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:24:56

DataFile Name :

025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	63	53	37	51	26.35	cps
Vanadium	51-2	33	23	10	22	52.68	cps
Yttrium	89-1	17274006	17529361	17176260	17326542	1.05	cps
Yttrium	89-2	4938120	4854719	4797695	4863511	1.45	cps
Zinc	66-2	870	863	860	864	0.59	cps
Zirconium	90-1	750	910	887	849	10.18	cps
Zirconium	91-1	183	213	207	201	7.83	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BS Instrumnet Name : P7
Client Sample ID : LCS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:28:14 DataFile Name : 026LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14484	14230	14477	14397	1.00	cps
Antimony	121-1	43850	43793	43960	43868	0.19	cps
Arsenic	75-2	1577	1483	1443	1501	4.56	cps
Barium	135-1	55906	55866	56505	56092	0.64	cps
Barium	137-1	96833	96853	95703	96463	0.68	cps
Beryllium	9-1	5076	4972	4975	5008	1.17	cps
Bismuth	209-1	6588621	6417859	6335797	6447426	2.00	cps
Bismuth	209-2	6021786	5921056	5923511	5955451	0.96	cps
Bromine	81-1	17644	16983	17444	17357	1.95	cps
Bromine	81-2	67	77	63	69	10.08	cps
Cadmium	108-1	453	510	490	484	5.93	cps
Cadmium	106-1	4237	4171	4144	4184	1.15	cps
Cadmium	111-1	5567	5671	5506	5581	1.50	cps
Calcium	43-1	38576	38469	39211	38752	1.04	cps
Calcium	44-1	645486	643146	644435	644356	0.18	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25952	26113	26330	26132	0.72	cps
Cobalt	59-2	18899	18965	18902	18922	0.20	cps
Copper	63-2	29075	28721	28888	28895	0.61	cps
Dysprosium	156-1	30	23	33	29	17.63	cps
Dysprosium	156-2	23	30	13	22	37.76	cps
Erbium	164-1	93	53	97	81	29.73	cps
Erbium	164-2	63	63	53	60	9.62	cps
Gadolinium	160-1	70	57	50	59	17.29	cps
Gadolinium	160-2	290	297	277	288	3.54	cps
Holmium	165-1	11271056	11144534	11115673	11177088	0.74	cps
Holmium	165-2	8646367	8451848	8526041	8541418	1.15	cps
Indium	115-1	10159624	9939664	9863091	9987459	1.54	cps
Indium	115-2	3711155	3732296	3740339	3727930	0.40	cps
Iron	56-2	2233704	2212650	2231281	2225878	0.52	cps
Iron	57-2	57981	57871	59280	58377	1.34	cps
Iron	54-2	128163	127669	127121	127651	0.41	cps
Krypton	83-1	197	203	227	209	7.54	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BS Instrumnet Name : P7
Client Sample ID : LCS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:28:14 DataFile Name : 026LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	14688	14077	14625	14463	2.32	cps
Lead	207-1	13000	12669	12940	12870	1.37	cps
Lead	208-1	57925	57097	58125	57716	0.94	cps
Lithium	6-1	2152271	2139832	2141750	2144618	0.31	cps
Magnesium	24-2	623234	624027	622279	623180	0.14	cps
Manganese	55-2	9743	9877	9413	9678	2.47	cps
Molybdenum	94-1	50517	51443	50868	50943	0.92	cps
Molybdenum	95-1	60846	61528	61415	61263	0.60	cps
Molybdenum	96-1	68616	68834	68355	68602	0.35	cps
Molybdenum	97-1	38674	38343	38608	38542	0.45	cps
Molybdenum	98-1	100207	98060	98032	98766	1.26	cps
Neodymium	150-1	17	20	23	20	16.65	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	4871	4861	4948	4893	0.97	cps
Phosphorus	31-2	220	193	187	200	8.82	cps
Potassium	39-2	836591	829260	829940	831930	0.49	cps
Rhodium	103-1	9594518	9467282	9348116	9469972	1.30	cps
Rhodium	103-2	6238756	6149435	6133434	6173875	0.92	cps
Scandium	45-1	6544398	6566526	6387049	6499324	1.51	cps
Scandium	45-2	622392	617860	615437	618563	0.57	cps
Selenium	82-1	2673	2786	2606	2688	3.39	cps
Selenium	77-2	227	257	247	243	6.28	cps
Selenium	78-2	1093	1133	1113	1113	1.80	cps
Silicon	28-1	482935	484128	497913	488325	1.70	cps
Silver	107-1	28652	29700	29564	29305	1.95	cps
Silver	109-1	26892	27276	28792	27653	3.63	cps
Sodium	23-2	1034811	1030878	1028650	1031446	0.30	cps
Strontium	86-1	8779	9000	8929	8903	1.26	cps
Strontium	88-1	73730	74430	72521	73560	1.31	cps
Sulfur	34-1	221590	222523	220069	221394	0.56	cps
Terbium	159-1	11613856	11657794	11555271	11608974	0.44	cps
Terbium	159-2	8695272	8605011	8530523	8610268	0.96	cps
Thallium	203-1	16757	17208	16717	16894	1.61	cps
Thallium	205-1	41236	40811	41172	41073	0.56	cps
Tin	118-1	6145	2554	4200	4299	41.81	cps
Titanium	47-1	18144	18752	18194	18363	1.84	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : PB164509BS Instrumnet Name : P7
Client Sample ID : LCS509 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:28:14 DataFile Name : 026LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49137	49003	49110	49083	0.14	cps
Vanadium	51-2	54585	54726	55712	55008	1.12	cps
Yttrium	89-1	17044230	17049739	16860816	16984928	0.63	cps
Yttrium	89-2	4770552	4685912	4772492	4742985	1.04	cps
Zinc	66-2	11351	11354	11905	11537	2.76	cps
Zirconium	90-1	42946	44324	44026	43765	1.66	cps
Zirconium	91-1	9667	10167	9687	9840	2.88	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:31:29 DataFile Name : 027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6490339	6486294	6432694	6469776	0.50	cps
Antimony	121-1	44114	43542	42760	43472	1.56	cps
Arsenic	75-2	37414	37651	37497	37521	0.32	cps
Barium	135-1	2226963	2220805	2190014	2212594	0.89	cps
Barium	137-1	3773919	3739114	3768778	3760604	0.50	cps
Beryllium	9-1	16874	16379	16957	16737	1.87	cps
Bismuth	209-1	5452765	6579422	6460544	6164244	10.04	cps
Bismuth	209-2	5679595	5713144	5712915	5701884	0.34	cps
Bromine	81-1	28160	28691	29115	28656	1.67	cps
Bromine	81-2	2797	2714	2790	2767	1.67	cps
Cadmium	108-1	4621	4704	4634	4653	0.96	cps
Cadmium	106-1	9623	10040	9943	9869	2.21	cps
Cadmium	111-1	60701	59415	60800	60305	1.28	cps
Calcium	43-1	11660362	11595605	11522742	11592903	0.59	cps
Calcium	44-1	188839711	187203037	186431477	187491408	0.66	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502611	501611	496550	500258	0.65	cps
Cobalt	59-2	314967	315064	313781	314604	0.23	cps
Copper	63-2	1304428	1308008	1298974	1303803	0.35	cps
Dysprosium	156-1	150719	150469	150464	150551	0.10	cps
Dysprosium	156-2	130237	128367	128710	129104	0.77	cps
Erbium	164-1	135753	136630	136718	136367	0.39	cps
Erbium	164-2	102768	102634	101640	102347	0.60	cps
Gadolinium	160-1	152642	152245	152352	152413	0.13	cps
Gadolinium	160-2	119266	118610	120039	119305	0.60	cps
Holmium	165-1	9752783	11840887	11608623	11067431	10.34	cps
Holmium	165-2	8702278	8692499	8682053	8692277	0.12	cps
Indium	115-1	8340010	10314357	9999616	9551328	11.11	cps
Indium	115-2	3675788	3710558	3680209	3688852	0.51	cps
Iron	56-2	329199475	328501622	325444515	327715204	0.61	cps
Iron	57-2	8320995	8278367	8300632	8299998	0.26	cps
Iron	54-2	18074185	18149611	18205412	18143069	0.36	cps
Krypton	83-1	530	533	470	511	6.97	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:31:29 DataFile Name : 027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6325377	6262063	6322808	6303416	0.57	cps
Lead	207-1	5535543	5411063	5498772	5481793	1.17	cps
Lead	208-1	25221232	24864320	24978287	25021279	0.73	cps
Lithium	6-1	1933116	2293589	2270168	2165624	9.31	cps
Magnesium	24-2	15839332	15981200	15931451	15917328	0.45	cps
Manganese	55-2	8965284	8966213	8992802	8974766	0.17	cps
Molybdenum	94-1	74170	73687	73024	73627	0.78	cps
Molybdenum	95-1	85930	84948	84080	84986	1.09	cps
Molybdenum	96-1	99865	99472	98955	99430	0.46	cps
Molybdenum	97-1	52688	52420	51239	52116	1.48	cps
Molybdenum	98-1	134402	133500	133866	133923	0.34	cps
Neodymium	150-1	238606	235721	235770	236699	0.70	cps
Neodymium	150-2	148739	148915	147954	148536	0.34	cps
Nickel	60-2	338226	337632	336039	337299	0.34	cps
Phosphorus	31-2	82568	84230	82249	83016	1.28	cps
Potassium	39-2	3790322	3779875	3785693	3785297	0.14	cps
Rhodium	103-1	7665323	9397891	9098732	8720649	10.62	cps
Rhodium	103-2	5973862	6008671	5997232	5993255	0.30	cps
Scandium	45-1	5800955	7145738	6886942	6611212	10.79	cps
Scandium	45-2	639936	643395	642970	642100	0.29	cps
Selenium	82-1	2207	2395	2444	2349	5.32	cps
Selenium	77-2	860	857	917	878	3.84	cps
Selenium	78-2	1427	1223	1353	1335	7.72	cps
Silicon	28-1	103333152	101301052	100898482	101844228	1.28	cps
Silver	107-1	38417	36863	36549	37277	2.68	cps
Silver	109-1	35928	33833	34143	34635	3.26	cps
Sodium	23-2	864243	868968	874208	869140	0.57	cps
Strontium	86-1	4867904	4807883	4759453	4811747	1.13	cps
Strontium	88-1	42208986	41503179	41739536	41817234	0.86	cps
Sulfur	34-1	2787107	2745646	2764422	2765725	0.75	cps
Terbium	159-1	10229953	12488357	12024134	11580815	10.30	cps
Terbium	159-2	8683405	8675838	8732094	8697112	0.35	cps
Thallium	203-1	29031	28086	28674	28597	1.67	cps
Thallium	205-1	68736	68337	68619	68564	0.30	cps
Tin	118-1	74377	75215	74505	74699	0.60	cps
Titanium	47-1	227632	224507	224842	225661	0.76	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:31:29 DataFile Name : 027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	282016	281495	281651	281721	0.09	cps
Vanadium	51-2	858149	855649	853602	855800	0.27	cps
Yttrium	89-1	17222721	20510850	19812668	19182080	9.03	cps
Yttrium	89-2	5513499	5503245	5463648	5493464	0.48	cps
Zinc	66-2	1778478	1769309	1765774	1771187	0.37	cps
Zirconium	90-1	70625	70471	71151	70749	0.50	cps
Zirconium	91-1	15842	15555	16002	15800	1.43	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:34:29 DataFile Name : 028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6399289	6332438	6336169	6355965	0.59	cps
Antimony	121-1	42640	43242	42880	42921	0.71	cps
Arsenic	75-2	37932	36689	37016	37212	1.73	cps
Barium	135-1	2147792	2181376	2168835	2166001	0.78	cps
Barium	137-1	3725074	3698837	3749561	3724491	0.68	cps
Beryllium	9-1	16135	16388	16460	16328	1.04	cps
Bismuth	209-1	6550618	6447474	6555426	6517840	0.94	cps
Bismuth	209-2	5695557	5740178	5707608	5714448	0.40	cps
Bromine	81-1	28210	28357	29312	28627	2.09	cps
Bromine	81-2	2650	2620	2657	2642	0.74	cps
Cadmium	108-1	4454	4304	4451	4403	1.95	cps
Cadmium	106-1	10207	10027	9897	10044	1.55	cps
Cadmium	111-1	59881	59015	59398	59431	0.73	cps
Calcium	43-1	11264442	11358391	11259215	11294016	0.49	cps
Calcium	44-1	182478631	182815471	182688791	182660964	0.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	489565	490348	484612	488175	0.64	cps
Cobalt	59-2	303760	306719	308089	306189	0.72	cps
Copper	63-2	1281384	1273935	1275987	1277102	0.30	cps
Dysprosium	156-1	149210	149449	149870	149510	0.22	cps
Dysprosium	156-2	123972	124880	125418	124756	0.59	cps
Erbium	164-1	133292	133601	134790	133894	0.59	cps
Erbium	164-2	101391	99883	101035	100770	0.78	cps
Gadolinium	160-1	152014	151216	149950	151060	0.69	cps
Gadolinium	160-2	118818	117961	118785	118522	0.41	cps
Holmium	165-1	12005362	11797233	11646425	11816340	1.53	cps
Holmium	165-2	8737755	8758362	8810918	8769012	0.43	cps
Indium	115-1	10062685	9948342	10103833	10038287	0.80	cps
Indium	115-2	3723464	3721739	3604737	3683314	1.85	cps
Iron	56-2	321643602	320406022	317519982	319856535	0.66	cps
Iron	57-2	8208520	8145007	8046608	8133378	1.00	cps
Iron	54-2	17734433	17464904	17568763	17589367	0.77	cps
Krypton	83-1	510	533	453	499	8.25	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:34:29 DataFile Name : 028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6321137	6334401	6168187	6274575	1.47	cps
Lead	207-1	5357418	5422523	5455012	5411651	0.92	cps
Lead	208-1	24585888	24758342	24873071	24739100	0.58	cps
Lithium	6-1	2289721	2279779	2248140	2272547	0.96	cps
Magnesium	24-2	15590406	15524301	15427536	15514081	0.53	cps
Manganese	55-2	8826270	8725221	8790719	8780737	0.58	cps
Molybdenum	94-1	72716	72679	73044	72813	0.28	cps
Molybdenum	95-1	82792	82427	83185	82801	0.46	cps
Molybdenum	96-1	96814	97767	98569	97717	0.90	cps
Molybdenum	97-1	51323	52577	51520	51807	1.30	cps
Molybdenum	98-1	131132	131442	132370	131648	0.49	cps
Neodymium	150-1	233888	234083	234998	234323	0.25	cps
Neodymium	150-2	146944	148136	146705	147262	0.52	cps
Nickel	60-2	334426	334358	333909	334231	0.08	cps
Phosphorus	31-2	79327	79961	79321	79536	0.46	cps
Potassium	39-2	3681091	3675908	3674234	3677078	0.10	cps
Rhodium	103-1	9252478	9261216	9185860	9233185	0.45	cps
Rhodium	103-2	5926701	5961440	5817747	5901963	1.27	cps
Scandium	45-1	6921374	6943741	6907150	6924088	0.27	cps
Scandium	45-2	637143	637713	636301	637052	0.11	cps
Selenium	82-1	2220	2281	2361	2287	3.08	cps
Selenium	77-2	830	733	837	800	7.23	cps
Selenium	78-2	1183	1500	1280	1321	12.28	cps
Silicon	28-1	99323055	99752815	100331435	99802435	0.51	cps
Silver	107-1	35904	36198	36092	36065	0.41	cps
Silver	109-1	33405	34457	33572	33812	1.67	cps
Sodium	23-2	858801	856024	855477	856768	0.21	cps
Strontium	86-1	4688461	4719378	4759655	4722498	0.76	cps
Strontium	88-1	40798375	40844675	41021048	40888033	0.29	cps
Sulfur	34-1	2716353	2733786	2728696	2726278	0.33	cps
Terbium	159-1	12066795	12190460	12286260	12181172	0.90	cps
Terbium	159-2	8645062	8778623	8674373	8699353	0.81	cps
Thallium	203-1	28380	28717	29074	28724	1.21	cps
Thallium	205-1	66408	68535	68830	67924	1.95	cps
Tin	118-1	71942	71858	73590	72463	1.35	cps
Titanium	47-1	220185	221161	220638	220661	0.22	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-02

Instrumnet Name :P7

Client Sample ID :MH2GK1D

Dilution Factor :1

Date & Time Acquired :2024-10-31 21:34:29

DataFile Name :028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	278547	274376	277576	276833	0.79	cps
Vanadium	51-2	836545	836670	839118	837444	0.17	cps
Yttrium	89-1	20013215	19780031	20232820	20008689	1.13	cps
Yttrium	89-2	5371639	5392180	5455643	5406488	0.81	cps
Zinc	66-2	1733978	1739632	1754213	1742608	0.60	cps
Zirconium	90-1	70250	70820	70217	70429	0.48	cps
Zirconium	91-1	15749	15742	15869	15786	0.45	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:37:27 DataFile Name : 029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1393336	1411719	1396034	1400363	0.71	cps
Antimony	121-1	9687	9543	9573	9601	0.79	cps
Arsenic	75-2	8282	7742	8179	8068	3.55	cps
Barium	135-1	427909	432869	432865	431214	0.66	cps
Barium	137-1	739649	740517	743762	741309	0.29	cps
Beryllium	9-1	3468	3523	3388	3460	1.96	cps
Bismuth	209-1	6616863	6599318	6540400	6585527	0.61	cps
Bismuth	209-2	5882408	5805112	5820700	5836073	0.70	cps
Bromine	81-1	19940	20291	19994	20075	0.94	cps
Bromine	81-2	657	573	677	636	8.62	cps
Cadmium	108-1	973	1060	1033	1022	4.34	cps
Cadmium	106-1	5171	5078	4821	5023	3.61	cps
Cadmium	111-1	13526	13612	13819	13652	1.10	cps
Calcium	43-1	2415622	2448838	2440679	2435047	0.71	cps
Calcium	44-1	39282774	39570968	39769552	39541098	0.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	110347	107614	106090	108017	2.00	cps
Cobalt	59-2	68388	67390	68375	68051	0.84	cps
Copper	63-2	296061	297266	295636	296321	0.29	cps
Dysprosium	156-1	32050	32324	32605	32326	0.86	cps
Dysprosium	156-2	27474	27798	27323	27531	0.88	cps
Erbium	164-1	29424	29317	28957	29233	0.84	cps
Erbium	164-2	22001	21800	21737	21846	0.63	cps
Gadolinium	160-1	32327	32996	32588	32637	1.03	cps
Gadolinium	160-2	26205	26124	26004	26111	0.39	cps
Holmium	165-1	11878479	11566323	11372204	11605669	2.20	cps
Holmium	165-2	8720541	8506177	8532046	8586255	1.36	cps
Indium	115-1	10272083	10186164	10144754	10201000	0.64	cps
Indium	115-2	3766338	3717271	3693046	3725552	1.00	cps
Iron	56-2	70804014	72315324	70883351	71334229	1.19	cps
Iron	57-2	1835941	1839475	1806581	1827332	0.99	cps
Iron	54-2	3902439	3925106	3882205	3903250	0.55	cps
Krypton	83-1	300	290	323	304	5.62	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:37:27 DataFile Name : 029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1197791	1196608	1198939	1197780	0.10	cps
Lead	207-1	1003893	1024125	1013713	1013910	1.00	cps
Lead	208-1	5031896	5072060	5099262	5067739	0.67	cps
Lithium	6-1	2288082	2216330	2226712	2243708	1.73	cps
Magnesium	24-2	3405216	3453260	3478661	3445712	1.08	cps
Manganese	55-2	1945505	1955109	1926055	1942223	0.76	cps
Molybdenum	94-1	15308	15598	15892	15600	1.87	cps
Molybdenum	95-1	17931	18465	17944	18113	1.68	cps
Molybdenum	96-1	21396	21309	21366	21357	0.21	cps
Molybdenum	97-1	11221	11338	11268	11276	0.52	cps
Molybdenum	98-1	28311	29009	29557	28959	2.16	cps
Neodymium	150-1	50651	51280	50540	50823	0.78	cps
Neodymium	150-2	32067	32862	32801	32577	1.36	cps
Nickel	60-2	77495	73891	75134	75507	2.42	cps
Phosphorus	31-2	17607	17700	17620	17642	0.29	cps
Potassium	39-2	925393	907300	899446	910713	1.46	cps
Rhodium	103-1	9662523	9483353	9558709	9568195	0.94	cps
Rhodium	103-2	6148119	6135855	6129398	6137791	0.15	cps
Scandium	45-1	6873923	6722936	6716966	6771275	1.31	cps
Scandium	45-2	633671	638056	632802	634843	0.44	cps
Selenium	82-1	899	925	853	892	4.06	cps
Selenium	77-2	137	193	193	174	18.76	cps
Selenium	78-2	570	593	517	560	7.02	cps
Silicon	28-1	21689669	21692643	21734707	21705673	0.12	cps
Silver	107-1	8212	8082	8196	8163	0.87	cps
Silver	109-1	7615	7562	7695	7624	0.88	cps
Sodium	23-2	228789	226432	223677	226299	1.13	cps
Strontium	86-1	961785	979449	982168	974467	1.14	cps
Strontium	88-1	8755963	8780438	8890498	8808966	0.81	cps
Sulfur	34-1	738337	741821	747905	742688	0.65	cps
Terbium	159-1	12069424	11973097	12094660	12045727	0.53	cps
Terbium	159-2	9001224	8473572	8434309	8636368	3.67	cps
Thallium	203-1	6838	6828	6855	6841	0.20	cps
Thallium	205-1	16507	16313	16123	16314	1.18	cps
Tin	118-1	17638	17898	17544	17693	1.04	cps
Titanium	47-1	47185	47722	47387	47431	0.57	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01LX5

Instrumnet Name :

P7

Client Sample ID :

MH2GK1L

Dilution Factor :

5

Date & Time Acquired :

2024-10-31 21:37:27

DataFile Name :

029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	59060	58963	60989	59671	1.91	cps
Vanadium	51-2	182236	181953	180438	181542	0.53	cps
Yttrium	89-1	18318150	17711275	17962179	17997202	1.69	cps
Yttrium	89-2	4955743	4905581	4879841	4913722	0.79	cps
Zinc	66-2	384675	382758	379279	382237	0.72	cps
Zirconium	90-1	14327	14771	14814	14637	1.84	cps
Zirconium	91-1	3144	3204	3144	3164	1.10	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:40:35 DataFile Name : 030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6271252	6184832	6299946	6252010	0.96	cps
Antimony	121-1	275915	275249	278336	276500	0.59	cps
Arsenic	75-2	42474	41622	42674	42257	1.32	cps
Barium	135-1	3415682	3431306	3445014	3430667	0.43	cps
Barium	137-1	5860900	5920303	5945803	5909002	0.74	cps
Beryllium	9-1	41503	41949	41953	41802	0.62	cps
Bismuth	209-1	6678696	6575093	5939370	6397720	6.26	cps
Bismuth	209-2	5772021	5803801	5743800	5773207	0.52	cps
Bromine	81-1	28104	29212	29289	28868	2.30	cps
Bromine	81-2	2517	2754	2720	2664	4.81	cps
Cadmium	108-1	6111	6425	6411	6316	2.81	cps
Cadmium	106-1	12829	13113	12479	12807	2.48	cps
Cadmium	111-1	87140	87130	88414	87561	0.84	cps
Calcium	43-1	10943614	10951382	11149327	11014774	1.06	cps
Calcium	44-1	177096437	177065517	179608217	177923391	0.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	743443	736221	738577	739414	0.50	cps
Cobalt	59-2	1270010	1263620	1261854	1265162	0.34	cps
Copper	63-2	1664892	1648312	1666063	1659756	0.60	cps
Dysprosium	156-1	144188	145600	145694	145161	0.58	cps
Dysprosium	156-2	121389	121423	120841	121218	0.27	cps
Erbium	164-1	130608	131337	131105	131017	0.28	cps
Erbium	164-2	97484	96483	96936	96968	0.52	cps
Gadolinium	160-1	146672	147073	146174	146640	0.31	cps
Gadolinium	160-2	114110	114859	113391	114120	0.64	cps
Holmium	165-1	11846568	11761432	10694991	11434330	5.61	cps
Holmium	165-2	8793018	8816485	8769628	8793044	0.27	cps
Indium	115-1	10259099	10224594	9183164	9888952	6.18	cps
Indium	115-2	3659966	3731128	3674111	3688402	1.02	cps
Iron	56-2	313325835	312158955	315464002	313649598	0.53	cps
Iron	57-2	8041333	7955662	7911424	7969473	0.83	cps
Iron	54-2	17337373	17221222	17180953	17246516	0.47	cps
Krypton	83-1	490	487	420	466	8.48	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:40:35 DataFile Name : 030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6085007	6128603	6169294	6127635	0.69	cps
Lead	207-1	5236443	5332274	5282638	5283785	0.91	cps
Lead	208-1	24104641	24348533	24123366	24192180	0.56	cps
Lithium	6-1	2260665	2289485	2093944	2214698	4.77	cps
Magnesium	24-2	15065384	15022311	14934694	15007463	0.44	cps
Manganese	55-2	9066751	8998049	9050237	9038346	0.40	cps
Molybdenum	94-1	70083	71158	71758	71000	1.20	cps
Molybdenum	95-1	80959	80617	82216	81264	1.04	cps
Molybdenum	96-1	95858	95180	96938	95992	0.92	cps
Molybdenum	97-1	49911	50794	50554	50420	0.91	cps
Molybdenum	98-1	128489	129945	130658	129697	0.85	cps
Neodymium	150-1	226663	227063	228620	227449	0.45	cps
Neodymium	150-2	142052	143027	140273	141784	0.98	cps
Nickel	60-2	569504	567022	567354	567960	0.24	cps
Phosphorus	31-2	79090	76604	77699	77798	1.60	cps
Potassium	39-2	3620395	3588690	3611500	3606862	0.45	cps
Rhodium	103-1	9277954	9326132	8429969	9011352	5.59	cps
Rhodium	103-2	6076044	6010671	6033322	6040012	0.55	cps
Scandium	45-1	7055068	7004814	6380672	6813518	5.51	cps
Scandium	45-2	645292	644584	647558	645811	0.24	cps
Selenium	82-1	6864	6716	6766	6782	1.11	cps
Selenium	77-2	1320	1330	1193	1281	5.95	cps
Selenium	78-2	2904	2940	2860	2901	1.38	cps
Silicon	28-1	96397862	96372035	97531792	96767230	0.68	cps
Silver	107-1	187717	189183	190642	189181	0.77	cps
Silver	109-1	174393	177384	178636	176804	1.23	cps
Sodium	23-2	836358	840013	836993	837788	0.23	cps
Strontium	86-1	4567195	4621328	4598346	4595623	0.59	cps
Strontium	88-1	39817278	39895644	40479401	40064108	0.90	cps
Sulfur	34-1	2650675	2609979	2655913	2638856	0.95	cps
Terbium	159-1	12126449	12051491	10996093	11724678	5.39	cps
Terbium	159-2	8818899	8668928	8775168	8754332	0.88	cps
Thallium	203-1	120491	118140	119533	119388	0.99	cps
Thallium	205-1	283759	282479	284826	283688	0.41	cps
Tin	118-1	70665	70528	71761	70985	0.95	cps
Titanium	47-1	212581	215672	216885	215046	1.03	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-03

Instrumnet Name :

P7

Client Sample ID :

MH2GK1S

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:40:35

DataFile Name :

030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	269820	269790	273587	271066	0.81	cps
Vanadium	51-2	1420183	1390785	1393069	1401346	1.17	cps
Yttrium	89-1	20075098	20310825	18692313	19692745	4.44	cps
Yttrium	89-2	5496040	5411726	5531872	5479879	1.13	cps
Zinc	66-2	1807278	1810493	1811035	1809602	0.11	cps
Zirconium	90-1	66607	67383	68043	67344	1.07	cps
Zirconium	91-1	14931	15241	15271	15148	1.24	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:43:33 DataFile Name : 031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5011546	4960656	4980402	4984202	0.51	cps
Antimony	121-1	27089	27359	27323	27257	0.54	cps
Arsenic	75-2	75534	74804	74003	74780	1.02	cps
Barium	135-1	1107685	1107506	1120822	1112004	0.69	cps
Barium	137-1	2060362	2078524	2093873	2077586	0.81	cps
Beryllium	9-1	17513	17588	17568	17556	0.22	cps
Bismuth	209-1	6589370	6319938	6633908	6514406	2.61	cps
Bismuth	209-2	5618407	5699221	5778806	5698811	1.41	cps
Bromine	81-1	24270	25686	25058	25005	2.84	cps
Bromine	81-2	1910	2020	2010	1980	3.07	cps
Cadmium	108-1	4758	4764	4724	4749	0.45	cps
Cadmium	106-1	10374	10090	10581	10348	2.38	cps
Cadmium	111-1	65030	63603	64571	64401	1.13	cps
Calcium	43-1	13333895	13480808	13468097	13427600	0.61	cps
Calcium	44-1	215579750	217844637	217387963	216937450	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	193643	192958	189447	192016	1.17	cps
Cobalt	59-2	335453	335371	333511	334778	0.33	cps
Copper	63-2	1355766	1350927	1345587	1350760	0.38	cps
Dysprosium	156-1	157698	159296	159354	158783	0.59	cps
Dysprosium	156-2	128558	128700	129137	128798	0.23	cps
Erbium	164-1	146557	147691	148934	147727	0.80	cps
Erbium	164-2	108191	107651	107174	107672	0.47	cps
Gadolinium	160-1	164915	166810	166760	166162	0.65	cps
Gadolinium	160-2	127659	127951	128398	128003	0.29	cps
Holmium	165-1	11929416	11523240	11924497	11792384	1.98	cps
Holmium	165-2	8806839	8887208	8817266	8837105	0.49	cps
Indium	115-1	10126805	9749066	10134297	10003389	2.20	cps
Indium	115-2	3627832	3637864	3636188	3633961	0.15	cps
Iron	56-2	429860874	434098927	437154220	433704674	0.84	cps
Iron	57-2	10817509	11001992	10853880	10891127	0.90	cps
Iron	54-2	23692635	23642507	23494348	23609830	0.44	cps
Krypton	83-1	477	510	570	519	9.12	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:43:33 DataFile Name : 031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4796219	4928467	4973859	4899515	1.88	cps
Lead	207-1	4299287	4297083	4354905	4317092	0.76	cps
Lead	208-1	19394514	19482822	19656995	19511444	0.68	cps
Lithium	6-1	2271325	2194088	2330327	2265247	3.02	cps
Magnesium	24-2	23851190	23873014	23415904	23713369	1.09	cps
Manganese	55-2	5732665	5813037	5794511	5780071	0.73	cps
Molybdenum	94-1	141142	142095	143575	142271	0.86	cps
Molybdenum	95-1	174369	175168	176038	175192	0.48	cps
Molybdenum	96-1	200306	202225	203093	201875	0.71	cps
Molybdenum	97-1	108180	110594	109550	109441	1.11	cps
Molybdenum	98-1	277215	280901	280071	279396	0.69	cps
Neodymium	150-1	244157	242052	244859	243690	0.60	cps
Neodymium	150-2	151782	148776	151101	150553	1.05	cps
Nickel	60-2	483961	484660	477261	481961	0.85	cps
Phosphorus	31-2	63688	63387	63180	63418	0.40	cps
Potassium	39-2	2787319	2813625	2774916	2791953	0.71	cps
Rhodium	103-1	9128242	8770096	9422981	9107106	3.59	cps
Rhodium	103-2	6023935	5988810	5909314	5974020	0.98	cps
Scandium	45-1	7370915	7092051	7405782	7289583	2.36	cps
Scandium	45-2	673801	668644	671375	671274	0.38	cps
Selenium	82-1	4965	4970	4929	4955	0.46	cps
Selenium	77-2	1117	1057	1177	1117	5.37	cps
Selenium	78-2	2277	2280	2154	2237	3.23	cps
Silicon	28-1	65689802	66443167	66869771	66334247	0.90	cps
Silver	107-1	43054	43482	44087	43541	1.19	cps
Silver	109-1	39805	40677	40537	40339	1.16	cps
Sodium	23-2	949041	948604	943470	947038	0.33	cps
Strontium	86-1	6024859	6062720	6050021	6045866	0.32	cps
Strontium	88-1	52421706	52531968	52517108	52490260	0.11	cps
Sulfur	34-1	5100341	5127754	5096876	5108324	0.33	cps
Terbium	159-1	12338536	11731250	12371752	12147179	2.97	cps
Terbium	159-2	8802432	8751697	8606719	8720283	1.16	cps
Thallium	203-1	40982	42111	42416	41836	1.81	cps
Thallium	205-1	95905	99823	100682	98803	2.58	cps
Tin	118-1	59409	59141	59529	59359	0.33	cps
Titanium	47-1	135920	138473	139677	138023	1.39	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:43:33 DataFile Name : 031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	360816	367366	365198	364460	0.92	cps
Vanadium	51-2	972385	971671	970881	971646	0.08	cps
Yttrium	89-1	20419151	19536741	20421580	20125824	2.53	cps
Yttrium	89-2	5498208	5483129	5408303	5463213	0.88	cps
Zinc	66-2	1603605	1585967	1611944	1600506	0.83	cps
Zirconium	90-1	112752	114891	116060	114568	1.46	cps
Zirconium	91-1	25031	25769	26193	25665	2.29	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:46:35 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4850949	4832184	4841716	4841617	0.19	cps
Antimony	121-1	26057	26348	26251	26218	0.56	cps
Arsenic	75-2	71675	72811	72265	72250	0.79	cps
Barium	135-1	1105895	1107785	1110703	1108128	0.22	cps
Barium	137-1	2077284	2062991	2093939	2078072	0.75	cps
Beryllium	9-1	17374	17454	17369	17399	0.27	cps
Bismuth	209-1	6008383	6654845	6651702	6438310	5.78	cps
Bismuth	209-2	5609750	5716744	5702259	5676251	1.02	cps
Bromine	81-1	24457	24574	25813	24948	3.01	cps
Bromine	81-2	1903	1987	1930	1940	2.19	cps
Cadmium	108-1	4798	4974	4764	4845	2.33	cps
Cadmium	106-1	10107	10551	10837	10498	3.51	cps
Cadmium	111-1	64700	64118	65111	64643	0.77	cps
Calcium	43-1	13274501	13409391	13211094	13298329	0.76	cps
Calcium	44-1	215038963	214586170	216314070	215313068	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	187035	188279	187675	187663	0.33	cps
Cobalt	59-2	330976	331583	330420	330993	0.18	cps
Copper	63-2	1330400	1324357	1331180	1328646	0.28	cps
Dysprosium	156-1	159138	162114	160405	160552	0.93	cps
Dysprosium	156-2	129204	130086	129501	129597	0.35	cps
Erbium	164-1	149655	148823	150245	149575	0.48	cps
Erbium	164-2	108120	107402	110328	108617	1.40	cps
Gadolinium	160-1	165863	167198	168365	167142	0.75	cps
Gadolinium	160-2	126020	126972	125613	126202	0.55	cps
Holmium	165-1	10782662	12053687	12008660	11615003	6.21	cps
Holmium	165-2	8880003	8767188	8816008	8821066	0.64	cps
Indium	115-1	9120588	10143538	10180315	9814814	6.13	cps
Indium	115-2	3630953	3629558	3645295	3635269	0.24	cps
Iron	56-2	423910874	420745074	418878874	421178274	0.60	cps
Iron	57-2	10713528	10567901	10843729	10708386	1.29	cps
Iron	54-2	23069434	22823987	22863571	22918997	0.57	cps
Krypton	83-1	523	537	597	552	7.07	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:46:35 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4969326	5066648	4945826	4993933	1.28	cps
Lead	207-1	4403534	4377446	4342732	4374571	0.70	cps
Lead	208-1	20034063	19781495	19730363	19848640	0.82	cps
Lithium	6-1	2038414	2317749	2261490	2205884	6.70	cps
Magnesium	24-2	23265120	23166469	23322600	23251397	0.34	cps
Manganese	55-2	5729260	5706184	5728255	5721233	0.23	cps
Molybdenum	94-1	138252	137831	139224	138435	0.52	cps
Molybdenum	95-1	168319	169937	169569	169275	0.50	cps
Molybdenum	96-1	195728	194951	194640	195106	0.29	cps
Molybdenum	97-1	104732	106115	106040	105629	0.74	cps
Molybdenum	98-1	269877	274699	271893	272157	0.89	cps
Neodymium	150-1	243597	246026	245226	244950	0.51	cps
Neodymium	150-2	149386	149911	149827	149708	0.19	cps
Nickel	60-2	471212	470267	466716	469398	0.51	cps
Phosphorus	31-2	62648	61804	62584	62345	0.75	cps
Potassium	39-2	2716150	2731077	2700628	2715952	0.56	cps
Rhodium	103-1	8215990	9241443	9206932	8888121	6.55	cps
Rhodium	103-2	6038849	5929350	5922262	5963487	1.10	cps
Scandium	45-1	6490079	7187766	7240221	6972689	6.01	cps
Scandium	45-2	665150	660966	664680	663599	0.35	cps
Selenium	82-1	4476	4598	4654	4576	1.98	cps
Selenium	77-2	1040	1150	1080	1090	5.11	cps
Selenium	78-2	2157	1977	2107	2080	4.47	cps
Silicon	28-1	65950234	66456737	65981652	66129541	0.43	cps
Silver	107-1	42195	42786	42489	42490	0.70	cps
Silver	109-1	39885	40005	40643	40178	1.02	cps
Sodium	23-2	945976	955805	957133	952972	0.64	cps
Strontium	86-1	5998924	6008067	6059818	6022270	0.55	cps
Strontium	88-1	52096943	52896019	52352271	52448411	0.78	cps
Sulfur	34-1	5051359	5079550	5083808	5071572	0.35	cps
Terbium	159-1	11212009	12386792	12318819	11972540	5.51	cps
Terbium	159-2	8764803	8685395	8683198	8711132	0.53	cps
Thallium	203-1	40798	40671	42148	41206	1.99	cps
Thallium	205-1	96036	96613	97550	96733	0.79	cps
Tin	118-1	56075	57598	56892	56855	1.34	cps
Titanium	47-1	133065	132406	134666	133379	0.87	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-02

Instrumnet Name :

P7

Client Sample ID :

MH2GK2D

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:46:35

DataFile Name :

032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	369332	371342	366361	369012	0.68	cps
Vanadium	51-2	946592	942954	948791	946113	0.31	cps
Yttrium	89-1	18403833	20539135	20296479	19746482	5.92	cps
Yttrium	89-2	5512097	5427262	5423447	5454269	0.92	cps
Zinc	66-2	1573004	1555362	1581515	1569960	0.85	cps
Zirconium	90-1	110700	112218	112224	111714	0.79	cps
Zirconium	91-1	24728	25115	25352	25065	1.26	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:49:35 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1007756	1004385	1005578	1005906	0.17	cps
Antimony	121-1	5628	5588	5711	5642	1.12	cps
Arsenic	75-2	15181	14998	14827	15002	1.18	cps
Barium	135-1	218604	220327	221452	220128	0.65	cps
Barium	137-1	377443	381017	385148	381203	1.01	cps
Beryllium	9-1	3455	3474	3405	3445	1.03	cps
Bismuth	209-1	7022239	6871852	6333341	6742477	5.37	cps
Bismuth	209-2	5931274	6041307	6014439	5995673	0.96	cps
Bromine	81-1	19536	19630	19022	19396	1.69	cps
Bromine	81-2	527	467	493	496	6.07	cps
Cadmium	108-1	907	1007	997	970	5.68	cps
Cadmium	106-1	5351	4994	4744	5030	6.06	cps
Cadmium	111-1	13520	13101	13557	13393	1.89	cps
Calcium	43-1	2590686	2597413	2584188	2590762	0.26	cps
Calcium	44-1	41816226	41660189	41902451	41792955	0.29	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37958	38910	38265	38378	1.27	cps
Cobalt	59-2	66339	67588	67210	67045	0.96	cps
Copper	63-2	280964	279181	279082	279743	0.38	cps
Dysprosium	156-1	31038	30998	31338	31124	0.60	cps
Dysprosium	156-2	25557	26081	25253	25630	1.63	cps
Erbium	164-1	28065	28786	29251	28701	2.08	cps
Erbium	164-2	21243	22091	21633	21656	1.96	cps
Gadolinium	160-1	32267	32137	32882	32429	1.23	cps
Gadolinium	160-2	25447	26255	25620	25774	1.65	cps
Holmium	165-1	11829411	11813360	11169107	11603959	3.25	cps
Holmium	165-2	8774337	9017561	8788596	8860165	1.54	cps
Indium	115-1	10385130	10281444	9945679	10204084	2.25	cps
Indium	115-2	3793724	3728863	3743809	3755466	0.90	cps
Iron	56-2	85811192	86504842	86139402	86151812	0.40	cps
Iron	57-2	2201165	2167599	2155669	2174811	1.08	cps
Iron	54-2	4774843	4731273	4716289	4740802	0.64	cps
Krypton	83-1	210	267	290	256	16.10	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LX5 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 5
Date & Time Acquired : 2024-10-31 21:49:35 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	861144	848615	852379	854046	0.75	cps
Lead	207-1	734930	743618	743736	740761	0.68	cps
Lead	208-1	3694283	3652138	3676978	3674466	0.58	cps
Lithium	6-1	2246672	2227966	2105483	2193374	3.50	cps
Magnesium	24-2	4658211	4630624	4582320	4623718	0.83	cps
Manganese	55-2	1152622	1157669	1147306	1152532	0.45	cps
Molybdenum	94-1	28651	27867	28150	28223	1.41	cps
Molybdenum	95-1	33706	34537	34618	34287	1.47	cps
Molybdenum	96-1	39169	39567	39580	39439	0.59	cps
Molybdenum	97-1	21095	21299	21456	21283	0.85	cps
Molybdenum	98-1	54849	54153	54668	54557	0.66	cps
Neodymium	150-1	48754	48613	48021	48463	0.80	cps
Neodymium	150-2	30323	30019	30242	30195	0.52	cps
Nickel	60-2	97588	98182	97162	97644	0.52	cps
Phosphorus	31-2	12612	12735	12325	12557	1.68	cps
Potassium	39-2	635312	630169	635481	633654	0.48	cps
Rhodium	103-1	9695437	9717035	9070221	9494231	3.87	cps
Rhodium	103-2	6251897	6375449	6202578	6276642	1.42	cps
Scandium	45-1	6859124	6755813	6370512	6661816	3.87	cps
Scandium	45-2	639081	638337	634661	637360	0.37	cps
Selenium	82-1	1537	1464	1332	1445	7.18	cps
Selenium	77-2	223	200	200	208	6.49	cps
Selenium	78-2	673	877	753	768	13.34	cps
Silicon	28-1	13068466	13002139	13108609	13059738	0.41	cps
Silver	107-1	8436	8826	8986	8749	3.24	cps
Silver	109-1	8199	8036	8349	8195	1.91	cps
Sodium	23-2	250831	249859	249176	249955	0.33	cps
Strontium	86-1	1116227	1117197	1123727	1119050	0.36	cps
Strontium	88-1	10157128	10155383	10277103	10196538	0.68	cps
Sulfur	34-1	1210645	1197500	1202447	1203531	0.55	cps
Terbium	159-1	12386905	12549646	11480182	12138911	4.75	cps
Terbium	159-2	8965623	8872283	8853806	8897237	0.67	cps
Thallium	203-1	8526	8566	8403	8498	1.00	cps
Thallium	205-1	19948	19521	20048	19839	1.41	cps
Tin	118-1	14017	13780	13903	13900	0.85	cps
Titanium	47-1	25775	26517	26704	26332	1.86	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01LX5

Instrumnet Name :

P7

Client Sample ID :

MH2GK2L

Dilution Factor :

5

Date & Time Acquired :

2024-10-31 21:49:35

DataFile Name :

033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	70690	71082	71641	71138	0.67	cps
Vanadium	51-2	189430	189758	189885	189691	0.12	cps
Yttrium	89-1	18426053	18195509	17269328	17963630	3.41	cps
Yttrium	89-2	5033438	5088995	4910146	5010860	1.83	cps
Zinc	66-2	324446	322640	323672	323586	0.28	cps
Zirconium	90-1	22804	23382	23185	23124	1.27	cps
Zirconium	91-1	5088	5034	5088	5070	0.61	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:52:44 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4879929	4823210	4835711	4846283	0.61	cps
Antimony	121-1	271882	274852	271792	272842	0.64	cps
Arsenic	75-2	78895	78131	79009	78678	0.61	cps
Barium	135-1	2613236	2584125	2608943	2602101	0.60	cps
Barium	137-1	4477496	4449416	4447224	4458045	0.38	cps
Beryllium	9-1	42484	43082	42551	42706	0.77	cps
Bismuth	209-1	6383873	6783879	6683066	6616939	3.14	cps
Bismuth	209-2	5738909	5646857	5679158	5688308	0.82	cps
Bromine	81-1	23532	23749	24303	23862	1.67	cps
Bromine	81-2	1813	1977	1847	1879	4.59	cps
Cadmium	108-1	6772	7052	7082	6968	2.45	cps
Cadmium	106-1	12996	13416	13159	13191	1.61	cps
Cadmium	111-1	92840	93186	93982	93336	0.63	cps
Calcium	43-1	12639516	12876014	12852524	12789352	1.02	cps
Calcium	44-1	207305324	209615330	208576817	208499157	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	456427	455318	452904	454883	0.40	cps
Cobalt	59-2	1308094	1311940	1311868	1310634	0.17	cps
Copper	63-2	1719370	1729785	1695454	1714870	1.03	cps
Dysprosium	156-1	156519	157539	158689	157583	0.69	cps
Dysprosium	156-2	127342	128080	129202	128208	0.73	cps
Erbium	164-1	144061	146105	147486	145884	1.18	cps
Erbium	164-2	106341	108420	107912	107558	1.01	cps
Gadolinium	160-1	161133	164298	166588	164007	1.67	cps
Gadolinium	160-2	126455	126660	126209	126441	0.18	cps
Holmium	165-1	11371289	12123496	11879109	11791298	3.25	cps
Holmium	165-2	8867193	8588625	8658453	8704757	1.67	cps
Indium	115-1	9753111	10101360	9910665	9921712	1.76	cps
Indium	115-2	3646234	3587472	3563122	3598943	1.19	cps
Iron	56-2	419388714	419329860	418986700	419235092	0.05	cps
Iron	57-2	10552046	10583941	10541925	10559304	0.21	cps
Iron	54-2	23008870	22871330	23159648	23013282	0.63	cps
Krypton	83-1	460	557	510	509	9.50	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:52:44 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4944113	4918419	4923934	4928822	0.27	cps
Lead	207-1	4293830	4325627	4374802	4331419	0.94	cps
Lead	208-1	19421999	19831970	19815156	19689708	1.18	cps
Lithium	6-1	2138054	2255383	2240801	2211412	2.89	cps
Magnesium	24-2	22799284	22388917	22315005	22501069	1.16	cps
Manganese	55-2	6108756	6097102	6113755	6106538	0.14	cps
Molybdenum	94-1	134888	136136	136176	135733	0.54	cps
Molybdenum	95-1	168413	169242	168926	168860	0.25	cps
Molybdenum	96-1	191705	193428	194606	193247	0.75	cps
Molybdenum	97-1	104298	105473	106249	105340	0.93	cps
Molybdenum	98-1	269184	270074	271838	270365	0.50	cps
Neodymium	150-1	239107	241432	242197	240912	0.67	cps
Neodymium	150-2	148951	147223	147198	147790	0.68	cps
Nickel	60-2	711052	709979	708633	709888	0.17	cps
Phosphorus	31-2	59703	59599	59428	59576	0.23	cps
Potassium	39-2	2660083	2618458	2617811	2632117	0.92	cps
Rhodium	103-1	8712145	9126575	9110364	8983028	2.61	cps
Rhodium	103-2	6005355	5915472	5868153	5929660	1.18	cps
Scandium	45-1	6745218	7194171	7032057	6990482	3.25	cps
Scandium	45-2	649117	645522	643846	646162	0.42	cps
Selenium	82-1	9251	9170	9539	9320	2.08	cps
Selenium	77-2	1573	1560	1577	1570	0.56	cps
Selenium	78-2	3667	3657	3841	3722	2.77	cps
Silicon	28-1	63059597	63114149	63384312	63186020	0.28	cps
Silver	107-1	199247	201516	202294	201019	0.79	cps
Silver	109-1	185821	189289	191873	188994	1.61	cps
Sodium	23-2	930804	930431	932467	931234	0.12	cps
Strontium	86-1	5801214	5833288	5887572	5840691	0.75	cps
Strontium	88-1	50669001	50467519	50971243	50702588	0.50	cps
Sulfur	34-1	4869248	4923496	4938713	4910485	0.74	cps
Terbium	159-1	11679031	12384671	12630311	12231338	4.04	cps
Terbium	159-2	8772013	8756654	8627187	8718618	0.91	cps
Thallium	203-1	135210	137560	140002	137591	1.74	cps
Thallium	205-1	326503	329874	332696	329691	0.94	cps
Tin	118-1	57116	58347	57732	57732	1.07	cps
Titanium	47-1	129501	135236	131774	132171	2.19	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-03

Instrumnet Name :

P7

Client Sample ID :

MH2GK2S

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:52:44

DataFile Name :

034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	366947	367862	367871	367560	0.14	cps
Vanadium	51-2	1552280	1516564	1513722	1527522	1.41	cps
Yttrium	89-1	19049653	20024871	19829557	19634694	2.63	cps
Yttrium	89-2	5399337	5380736	5362983	5381019	0.34	cps
Zinc	66-2	1669274	1667895	1666366	1667845	0.09	cps
Zirconium	90-1	108467	110344	109742	109518	0.88	cps
Zirconium	91-1	24023	24781	24707	24504	1.71	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:55:40 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5643476	5493624	5445130	5527410	1.87	cps
Antimony	121-1	27790	28331	28425	28182	1.22	cps
Arsenic	75-2	24350	24547	24083	24327	0.96	cps
Barium	135-1	3132453	3133834	3074230	3113506	1.09	cps
Barium	137-1	5387230	5324419	5402228	5371293	0.77	cps
Beryllium	9-1	11940	12109	11774	11941	1.40	cps
Bismuth	209-1	6788104	6924735	6774826	6829222	1.22	cps
Bismuth	209-2	5875540	5784446	5871669	5843885	0.88	cps
Bromine	81-1	37300	38029	38316	37882	1.38	cps
Bromine	81-2	4394	4451	4304	4383	1.69	cps
Cadmium	108-1	3507	3727	3821	3685	4.37	cps
Cadmium	106-1	8746	8776	8746	8756	0.20	cps
Cadmium	111-1	47526	47114	47775	47472	0.70	cps
Calcium	43-1	5995877	6170954	6104130	6090320	1.45	cps
Calcium	44-1	97341305	97770959	98571012	97894425	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	508542	505338	510464	508115	0.51	cps
Cobalt	59-2	183261	183595	182408	183088	0.33	cps
Copper	63-2	1422856	1411690	1413811	1416119	0.42	cps
Dysprosium	156-1	115440	115369	112870	114560	1.28	cps
Dysprosium	156-2	95978	94723	95270	95324	0.66	cps
Erbium	164-1	100999	103057	101452	101836	1.06	cps
Erbium	164-2	75013	75315	74728	75019	0.39	cps
Gadolinium	160-1	114164	113478	112951	113531	0.54	cps
Gadolinium	160-2	88678	88615	89953	89082	0.85	cps
Holmium	165-1	11888811	11988568	12023701	11967027	0.58	cps
Holmium	165-2	8868870	8804094	8803446	8825470	0.43	cps
Indium	115-1	10106918	10074432	10138526	10106625	0.32	cps
Indium	115-2	3636468	3699355	3692642	3676155	0.94	cps
Iron	56-2	192323190	191334937	191342797	191666975	0.30	cps
Iron	57-2	4876135	4889338	4877776	4881083	0.15	cps
Iron	54-2	10597969	10419505	10465890	10494455	0.88	cps
Krypton	83-1	457	403	407	422	7.08	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:55:40 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7320654	7435774	7388899	7381776	0.78	cps
Lead	207-1	6432507	6369166	6370403	6390692	0.57	cps
Lead	208-1	29462379	29216989	28994986	29224785	0.80	cps
Lithium	6-1	2187520	2245162	2250572	2227751	1.57	cps
Magnesium	24-2	12959543	12832900	12667140	12819861	1.14	cps
Manganese	55-2	8818624	8888116	8869760	8858833	0.41	cps
Molybdenum	94-1	34003	33692	33458	33718	0.81	cps
Molybdenum	95-1	23986	23846	24687	24173	1.86	cps
Molybdenum	96-1	31658	32292	31925	31958	1.00	cps
Molybdenum	97-1	14834	15161	14768	14921	1.41	cps
Molybdenum	98-1	37374	37936	37725	37678	0.75	cps
Neodymium	150-1	179058	179086	182198	180114	1.00	cps
Neodymium	150-2	111645	111624	112475	111915	0.43	cps
Nickel	60-2	205709	207218	206202	206376	0.37	cps
Phosphorus	31-2	112399	111905	110760	111688	0.75	cps
Potassium	39-2	5251858	5207385	5229426	5229557	0.43	cps
Rhodium	103-1	9224319	9369451	9262040	9285270	0.81	cps
Rhodium	103-2	6078114	6037375	6110818	6075436	0.61	cps
Scandium	45-1	6596950	6567283	6558944	6574392	0.30	cps
Scandium	45-2	620891	611917	614253	615687	0.76	cps
Selenium	82-1	1737	1889	1819	1815	4.19	cps
Selenium	77-2	650	637	643	643	1.04	cps
Selenium	78-2	1103	1103	1097	1101	0.35	cps
Silicon	28-1	132373701	131997618	132401841	132257720	0.17	cps
Silver	107-1	45551	45625	45939	45705	0.45	cps
Silver	109-1	42883	43298	42990	43057	0.50	cps
Sodium	23-2	1011040	1005960	1002240	1006413	0.44	cps
Strontium	86-1	3681173	3610970	3652555	3648233	0.97	cps
Strontium	88-1	31694197	31907522	31348869	31650196	0.89	cps
Sulfur	34-1	507473	512570	511922	510655	0.54	cps
Terbium	159-1	12331701	12662795	12255128	12416541	1.75	cps
Terbium	159-2	8787073	8797644	8793062	8792593	0.06	cps
Thallium	203-1	15492	15853	15108	15484	2.40	cps
Thallium	205-1	36435	37084	37385	36968	1.31	cps
Tin	118-1	94450	96064	95544	95353	0.86	cps
Titanium	47-1	251347	261349	256717	256471	1.95	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-08

Instrumnet Name :

P7

Client Sample ID :

MH2GK7

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:55:40

DataFile Name :

035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	230046	229957	232283	230762	0.57	cps
Vanadium	51-2	523125	525754	519103	522660	0.64	cps
Yttrium	89-1	19148883	19326624	18912015	19129174	1.09	cps
Yttrium	89-2	5343910	5155882	5197567	5232453	1.89	cps
Zinc	66-2	2091090	2084839	2051386	2075772	1.03	cps
Zirconium	90-1	52473	53858	54618	53650	2.03	cps
Zirconium	91-1	12048	12088	12265	12134	0.95	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:58:41 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6550326	6514143	6531193	6531887	0.28	cps
Antimony	121-1	42673	43272	43355	43100	0.86	cps
Arsenic	75-2	37163	37337	35543	36681	2.70	cps
Barium	135-1	4556613	4536124	4520592	4537776	0.40	cps
Barium	137-1	7793554	7775258	7665961	7744924	0.89	cps
Beryllium	9-1	15008	15023	15219	15083	0.78	cps
Bismuth	209-1	6975183	6812954	6392114	6726750	4.47	cps
Bismuth	209-2	5807797	5751167	5845841	5801602	0.82	cps
Bromine	81-1	35366	36692	36375	36144	1.92	cps
Bromine	81-2	4594	4341	4097	4344	5.72	cps
Cadmium	108-1	4661	4884	4741	4762	2.38	cps
Cadmium	106-1	10797	10664	10597	10686	0.95	cps
Cadmium	111-1	66901	66547	66587	66678	0.29	cps
Calcium	43-1	8140258	8181917	8203759	8175312	0.39	cps
Calcium	44-1	131762671	132918445	132408061	132363059	0.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	347618	344567	344128	345438	0.55	cps
Cobalt	59-2	244193	243111	241587	242964	0.54	cps
Copper	63-2	2167881	2174770	2183907	2175519	0.37	cps
Dysprosium	156-1	137236	137280	138508	137675	0.52	cps
Dysprosium	156-2	115984	115225	115409	115540	0.34	cps
Erbium	164-1	125511	128777	126173	126821	1.36	cps
Erbium	164-2	92853	91802	91822	92159	0.65	cps
Gadolinium	160-1	139591	140388	138743	139574	0.59	cps
Gadolinium	160-2	109144	106571	105806	107174	1.63	cps
Holmium	165-1	12257280	11857872	11305159	11806770	4.05	cps
Holmium	165-2	8776891	8684531	8817305	8759576	0.78	cps
Indium	115-1	10301014	10018957	9448601	9922857	4.38	cps
Indium	115-2	3671799	3635830	3633862	3647164	0.59	cps
Iron	56-2	256257503	255587963	253831190	255225552	0.49	cps
Iron	57-2	6554656	6497092	6512841	6521530	0.46	cps
Iron	54-2	13984961	14090752	13974342	14016685	0.46	cps
Krypton	83-1	477	477	457	470	2.46	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 21:58:41 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12001378	11952999	11816740	11923706	0.80	cps
Lead	207-1	10236708	10517108	10181342	10311719	1.75	cps
Lead	208-1	46701194	47881826	46844440	47142486	1.37	cps
Lithium	6-1	2228801	2222780	2143743	2198441	2.16	cps
Magnesium	24-2	12978399	12853409	12785559	12872455	0.76	cps
Manganese	55-2	8640546	8735513	8643502	8673187	0.62	cps
Molybdenum	94-1	44915	45644	45704	45421	0.97	cps
Molybdenum	95-1	33451	33358	33602	33470	0.37	cps
Molybdenum	96-1	43805	44641	45340	44595	1.72	cps
Molybdenum	97-1	20441	21052	20975	20823	1.60	cps
Molybdenum	98-1	52216	53053	52638	52636	0.79	cps
Neodymium	150-1	219220	219771	219845	219612	0.16	cps
Neodymium	150-2	135824	135858	136663	136115	0.35	cps
Nickel	60-2	283471	281412	279319	281400	0.74	cps
Phosphorus	31-2	91032	90525	90482	90680	0.34	cps
Potassium	39-2	3889403	3869657	3867552	3875537	0.31	cps
Rhodium	103-1	9396224	9012024	8597489	9001912	4.44	cps
Rhodium	103-2	5943913	5978687	6011882	5978160	0.57	cps
Scandium	45-1	6735128	6563036	6202358	6500174	4.18	cps
Scandium	45-2	608699	605866	610308	608291	0.37	cps
Selenium	82-1	1798	1799	1706	1768	3.00	cps
Selenium	77-2	807	670	767	748	9.40	cps
Selenium	78-2	1057	993	1073	1041	4.05	cps
Silicon	28-1	103718748	104307192	103823315	103949752	0.30	cps
Silver	107-1	71900	72677	73130	72569	0.86	cps
Silver	109-1	67295	68769	69442	68502	1.60	cps
Sodium	23-2	1129858	1101149	1127163	1119390	1.42	cps
Strontium	86-1	4401575	4457889	4496405	4451956	1.07	cps
Strontium	88-1	38399669	38622504	38567352	38529842	0.30	cps
Sulfur	34-1	423904	425157	423354	424138	0.22	cps
Terbium	159-1	12724929	12297958	11681735	12234874	4.29	cps
Terbium	159-2	8753499	8613273	8728657	8698476	0.86	cps
Thallium	203-1	19287	19551	19077	19305	1.23	cps
Thallium	205-1	45195	45794	46392	45794	1.31	cps
Tin	118-1	156513	159610	156244	157456	1.19	cps
Titanium	47-1	269671	271447	271037	270718	0.34	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-09

Instrumnet Name :

P7

Client Sample ID :

MH2GK8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 21:58:41

DataFile Name :

036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	230328	230682	229996	230335	0.15	cps
Vanadium	51-2	666385	660117	655906	660802	0.80	cps
Yttrium	89-1	19873458	19528051	18404729	19268746	3.99	cps
Yttrium	89-2	5257020	5259009	5301443	5272491	0.48	cps
Zinc	66-2	2484516	2508033	2505917	2499489	0.52	cps
Zirconium	90-1	71443	72615	71446	71835	0.94	cps
Zirconium	91-1	16279	16176	16166	16207	0.39	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-10 Instrumnet Name : P7
Client Sample ID : MH2GK9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:01:39 DataFile Name : 037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5669037	5712451	5642060	5674516	0.63	cps
Antimony	121-1	31715	31956	31969	31880	0.45	cps
Arsenic	75-2	27746	27619	28167	27844	1.03	cps
Barium	135-1	3532699	3446894	3532386	3503993	1.41	cps
Barium	137-1	5987719	6093829	6039438	6040329	0.88	cps
Beryllium	9-1	14764	14952	14716	14811	0.84	cps
Bismuth	209-1	6823172	6722567	6282248	6609329	4.35	cps
Bismuth	209-2	5769273	5770960	5745631	5761955	0.25	cps
Bromine	81-1	31343	32158	32028	31843	1.37	cps
Bromine	81-2	3500	3494	3537	3510	0.66	cps
Cadmium	108-1	4908	4734	4831	4824	1.80	cps
Cadmium	106-1	10464	10427	9987	10293	2.58	cps
Cadmium	111-1	62435	63166	64159	63253	1.37	cps
Calcium	43-1	9364934	9506268	9414954	9428719	0.76	cps
Calcium	44-1	150892134	151957481	152159838	151669818	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	245545	245308	241023	243959	1.04	cps
Cobalt	59-2	237252	237585	234426	236421	0.73	cps
Copper	63-2	1684297	1680057	1692357	1685571	0.37	cps
Dysprosium	156-1	145094	145633	147734	146153	0.95	cps
Dysprosium	156-2	122963	121534	120296	121598	1.10	cps
Erbium	164-1	132721	133854	134588	133721	0.70	cps
Erbium	164-2	99145	99877	97951	98991	0.98	cps
Gadolinium	160-1	147612	149188	147722	148174	0.59	cps
Gadolinium	160-2	113969	115780	114745	114832	0.79	cps
Holmium	165-1	12016438	11852039	10841452	11569976	5.50	cps
Holmium	165-2	8795096	8725897	8696350	8739115	0.58	cps
Indium	115-1	9995194	9994808	9264851	9751618	4.32	cps
Indium	115-2	3591107	3618040	3631815	3613654	0.57	cps
Iron	56-2	245537383	245259603	243842996	244879994	0.37	cps
Iron	57-2	6202496	6225650	6254171	6227439	0.42	cps
Iron	54-2	13343337	13479737	13341603	13388226	0.59	cps
Krypton	83-1	443	487	450	460	5.07	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-10 Instrumnet Name : P7
Client Sample ID : MH2GK9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:01:39 DataFile Name : 037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10406085	10198198	10429857	10344713	1.23	cps
Lead	207-1	9012058	9081654	8971467	9021727	0.62	cps
Lead	208-1	40753227	41222744	41007318	40994429	0.57	cps
Lithium	6-1	2244272	2239815	2086680	2190256	4.10	cps
Magnesium	24-2	12064716	12069154	11921352	12018407	0.70	cps
Manganese	55-2	7491502	7611604	7519779	7540962	0.83	cps
Molybdenum	94-1	46681	47363	47139	47061	0.74	cps
Molybdenum	95-1	28878	29780	29744	29467	1.73	cps
Molybdenum	96-1	40295	39901	40840	40345	1.17	cps
Molybdenum	97-1	17918	18061	18101	18027	0.54	cps
Molybdenum	98-1	46501	46664	46785	46650	0.31	cps
Neodymium	150-1	231316	230551	232016	231294	0.32	cps
Neodymium	150-2	143439	143633	143246	143439	0.14	cps
Nickel	60-2	304579	305108	306506	305398	0.33	cps
Phosphorus	31-2	73355	74272	73974	73867	0.63	cps
Potassium	39-2	3271119	3319830	3259998	3283649	0.97	cps
Rhodium	103-1	9146050	8986075	8340174	8824100	4.84	cps
Rhodium	103-2	5909963	5970160	5898822	5926315	0.65	cps
Scandium	45-1	6599851	6561341	6051091	6404094	4.78	cps
Scandium	45-2	603229	613117	605523	607290	0.85	cps
Selenium	82-1	1407	1341	1398	1382	2.62	cps
Selenium	77-2	597	687	793	692	14.22	cps
Selenium	78-2	993	990	1007	997	0.88	cps
Silicon	28-1	84809700	85194269	85921572	85308514	0.66	cps
Silver	107-1	62109	62882	62293	62428	0.65	cps
Silver	109-1	58889	58387	59083	58786	0.61	cps
Sodium	23-2	1206009	1192440	1179919	1192789	1.09	cps
Strontium	86-1	4597742	4629632	4633909	4620428	0.43	cps
Strontium	88-1	39945150	40149807	39940705	40011887	0.30	cps
Sulfur	34-1	382940	385937	386440	385106	0.49	cps
Terbium	159-1	12494497	12368748	11276152	12046466	5.56	cps
Terbium	159-2	8759902	8676457	8698164	8711508	0.50	cps
Thallium	203-1	19684	20122	19935	19914	1.10	cps
Thallium	205-1	47660	47657	48098	47805	0.53	cps
Tin	118-1	96165	93595	94574	94778	1.37	cps
Titanium	47-1	229247	231649	232437	231111	0.72	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-10

Instrumnet Name :

P7

Client Sample ID :

MH2GK9

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:01:39

DataFile Name :

037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	255353	254402	257811	255856	0.69	cps
Vanadium	51-2	637761	645176	636543	639827	0.73	cps
Yttrium	89-1	19558389	19607915	17990479	19052261	4.83	cps
Yttrium	89-2	5310083	5216183	5280201	5268823	0.91	cps
Zinc	66-2	2048997	2066164	2088972	2068044	0.97	cps
Zirconium	90-1	81746	83221	83934	82967	1.35	cps
Zirconium	91-1	18165	18612	18538	18438	1.30	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:04:40 DataFile Name : 038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5041887	5025641	5042323	5036617	0.19	cps
Antimony	121-1	26054	25990	25586	25877	0.98	cps
Arsenic	75-2	29062	28147	28711	28640	1.61	cps
Barium	135-1	3766567	3762588	3747350	3758835	0.27	cps
Barium	137-1	6457170	6440459	6410610	6436080	0.37	cps
Beryllium	9-1	16906	16473	17007	16795	1.69	cps
Bismuth	209-1	6426392	6656406	6723462	6602087	2.36	cps
Bismuth	209-2	5788400	5854624	5846153	5829726	0.62	cps
Bromine	81-1	30011	31500	31885	31132	3.18	cps
Bromine	81-2	3450	3290	3557	3433	3.91	cps
Cadmium	108-1	6565	6415	6708	6563	2.24	cps
Cadmium	106-1	12812	13043	13056	12970	1.06	cps
Cadmium	111-1	89685	90085	90089	89953	0.26	cps
Calcium	43-1	10346831	10350478	10330918	10342742	0.10	cps
Calcium	44-1	166953424	166409394	167616844	166993221	0.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	201713	199276	198914	199968	0.76	cps
Cobalt	59-2	262163	258148	260495	260269	0.78	cps
Copper	63-2	1769762	1761547	1785848	1772386	0.70	cps
Dysprosium	156-1	166251	166349	166968	166523	0.23	cps
Dysprosium	156-2	133996	135368	137176	135513	1.18	cps
Erbium	164-1	153048	152017	151225	152096	0.60	cps
Erbium	164-2	111064	112166	110707	111312	0.68	cps
Gadolinium	160-1	171040	171243	167725	170003	1.16	cps
Gadolinium	160-2	131648	132072	130609	131443	0.57	cps
Holmium	165-1	11328855	11925832	11851924	11702204	2.78	cps
Holmium	165-2	8819020	8802378	8919215	8846871	0.71	cps
Indium	115-1	9583260	9814348	9754958	9717522	1.23	cps
Indium	115-2	3612067	3600311	3673823	3628734	1.09	cps
Iron	56-2	253007423	252785603	248507910	251433645	1.01	cps
Iron	57-2	6441783	6402773	6402574	6415710	0.35	cps
Iron	54-2	13728546	13705300	13624900	13686249	0.40	cps
Krypton	83-1	520	440	487	482	8.33	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:04:40 DataFile Name : 038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11859103	11829670	11849765	11846179	0.13	cps
Lead	207-1	10380224	10387045	10225710	10330993	0.88	cps
Lead	208-1	46991580	46965877	46905060	46954172	0.09	cps
Lithium	6-1	2116958	2255501	2209527	2193995	3.22	cps
Magnesium	24-2	14253061	14054717	14042484	14116754	0.84	cps
Manganese	55-2	6900498	6797560	6767039	6821699	1.03	cps
Molybdenum	94-1	46116	46333	46611	46353	0.54	cps
Molybdenum	95-1	24047	24127	23793	23989	0.73	cps
Molybdenum	96-1	34547	35099	34507	34718	0.95	cps
Molybdenum	97-1	14768	15111	15071	14983	1.25	cps
Molybdenum	98-1	37598	38056	37642	37765	0.67	cps
Neodymium	150-1	257526	258096	256909	257510	0.23	cps
Neodymium	150-2	158651	157935	158305	158297	0.23	cps
Nickel	60-2	398863	395328	395737	396643	0.49	cps
Phosphorus	31-2	68623	66303	66360	67095	1.97	cps
Potassium	39-2	3049458	3034881	3012220	3032187	0.62	cps
Rhodium	103-1	8601717	8919141	8869787	8796882	1.94	cps
Rhodium	103-2	5885716	5905261	5953615	5914864	0.59	cps
Scandium	45-1	6319305	6566694	6505046	6463682	1.99	cps
Scandium	45-2	613302	610065	617047	613471	0.57	cps
Selenium	82-1	1250	1403	1378	1344	6.09	cps
Selenium	77-2	787	740	720	749	4.57	cps
Selenium	78-2	1030	1070	1030	1043	2.21	cps
Silicon	28-1	79382884	79055769	79646979	79361877	0.37	cps
Silver	107-1	87753	88357	87250	87786	0.63	cps
Silver	109-1	81903	82419	83049	82457	0.70	cps
Sodium	23-2	1368879	1369439	1354177	1364165	0.63	cps
Strontium	86-1	5309438	5198656	5206842	5238312	1.18	cps
Strontium	88-1	45953194	45572458	45756866	45760839	0.42	cps
Sulfur	34-1	348054	346097	348828	347660	0.40	cps
Terbium	159-1	11837152	12200055	11922663	11986623	1.58	cps
Terbium	159-2	8671538	8679799	8765817	8705718	0.60	cps
Thallium	203-1	24158	24155	23564	23959	1.43	cps
Thallium	205-1	57518	56821	56624	56988	0.82	cps
Tin	118-1	58237	59107	57521	58288	1.36	cps
Titanium	47-1	155132	155893	154139	155054	0.57	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-11

Instrumnet Name :

P7

Client Sample ID :

MH2GL0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:04:40

DataFile Name :

038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	335344	336268	332586	334733	0.57	cps
Vanadium	51-2	681579	682821	675137	679846	0.61	cps
Yttrium	89-1	18883829	19512760	19265981	19220857	1.65	cps
Yttrium	89-2	5358696	5298068	5382611	5346458	0.82	cps
Zinc	66-2	1997417	1972093	1999940	1989817	0.77	cps
Zirconium	90-1	88655	88350	89118	88708	0.44	cps
Zirconium	91-1	20187	20114	19436	19912	2.08	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-12 Instrumnet Name : P7
Client Sample ID : MH2GL1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:07:39 DataFile Name : 039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4880950	4846333	4876197	4867827	0.39	cps
Antimony	121-1	26127	26768	26765	26553	1.39	cps
Arsenic	75-2	22567	22003	22414	22328	1.31	cps
Barium	135-1	2507145	2559454	2511475	2526024	1.15	cps
Barium	137-1	4393957	4327517	4315282	4345585	0.97	cps
Beryllium	9-1	10628	10910	10956	10831	1.64	cps
Bismuth	209-1	6910333	7052188	6824962	6929161	1.66	cps
Bismuth	209-2	5946571	5961993	5879307	5929290	0.74	cps
Bromine	81-1	34721	36411	35847	35660	2.41	cps
Bromine	81-2	4144	4197	4234	4192	1.08	cps
Cadmium	108-1	3514	3434	3377	3442	2.00	cps
Cadmium	106-1	8192	8289	8182	8221	0.72	cps
Cadmium	111-1	40277	41543	41351	41057	1.66	cps
Calcium	43-1	5333566	5365202	5318667	5339145	0.45	cps
Calcium	44-1	85665060	86780102	86652139	86365767	0.71	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	586520	580204	587824	584849	0.70	cps
Cobalt	59-2	166340	165222	165717	165760	0.34	cps
Copper	63-2	1256423	1248660	1255045	1253376	0.33	cps
Dysprosium	156-1	104082	104697	105224	104668	0.55	cps
Dysprosium	156-2	87128	86990	87138	87086	0.09	cps
Erbium	164-1	94869	95598	94604	95024	0.54	cps
Erbium	164-2	68594	69143	69331	69023	0.55	cps
Gadolinium	160-1	105393	106142	106374	105969	0.48	cps
Gadolinium	160-2	81927	81958	81807	81897	0.10	cps
Holmium	165-1	11826113	12045223	11958620	11943319	0.92	cps
Holmium	165-2	8679727	8904728	8772030	8785495	1.29	cps
Indium	115-1	10005309	9803236	9835732	9881426	1.10	cps
Indium	115-2	3624461	3562136	3596810	3594469	0.87	cps
Iron	56-2	188417097	186970364	187687137	187691533	0.39	cps
Iron	57-2	4804280	4735614	4749078	4762991	0.76	cps
Iron	54-2	10266113	10320575	10271103	10285930	0.29	cps
Krypton	83-1	360	333	337	343	4.23	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-12 Instrumnet Name : P7
Client Sample ID : MH2GL1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:07:39 DataFile Name : 039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5864211	5897111	5865422	5875581	0.32	cps
Lead	207-1	5161831	5024821	5075486	5087379	1.36	cps
Lead	208-1	23188515	23185279	23039566	23137787	0.37	cps
Lithium	6-1	2171438	2160682	2185667	2172596	0.58	cps
Magnesium	24-2	12781056	12718334	12758986	12752792	0.25	cps
Manganese	55-2	8471289	8482371	8495480	8483047	0.14	cps
Molybdenum	94-1	36596	36853	37060	36836	0.63	cps
Molybdenum	95-1	26831	26547	26120	26500	1.35	cps
Molybdenum	96-1	33976	34875	34658	34503	1.36	cps
Molybdenum	97-1	15942	16092	16616	16217	2.18	cps
Molybdenum	98-1	41953	41656	42121	41910	0.56	cps
Neodymium	150-1	166282	166052	164858	165731	0.46	cps
Neodymium	150-2	103201	102620	103530	103117	0.45	cps
Nickel	60-2	196882	195578	198044	196835	0.63	cps
Phosphorus	31-2	124629	121612	124384	123541	1.36	cps
Potassium	39-2	5073806	5035366	5063548	5057573	0.39	cps
Rhodium	103-1	9085959	9045956	8922457	9018124	0.95	cps
Rhodium	103-2	6017005	6013338	5946263	5992202	0.66	cps
Scandium	45-1	6321281	6315409	6260068	6298919	0.54	cps
Scandium	45-2	589122	581906	582638	584555	0.68	cps
Selenium	82-1	1841	1864	1928	1878	2.38	cps
Selenium	77-2	630	533	503	556	11.91	cps
Selenium	78-2	1090	1100	1007	1066	4.81	cps
Silicon	28-1	122399175	123955291	124464415	123606294	0.87	cps
Silver	107-1	38568	38762	39677	39002	1.52	cps
Silver	109-1	37692	36917	37726	37445	1.22	cps
Sodium	23-2	1086621	1088097	1091753	1088824	0.24	cps
Strontium	86-1	3230060	3288940	3259953	3259651	0.90	cps
Strontium	88-1	28401213	28413849	28674835	28496632	0.54	cps
Sulfur	34-1	520801	522839	521925	521855	0.20	cps
Terbium	159-1	12300644	12212129	12410076	12307616	0.81	cps
Terbium	159-2	8867288	8752673	8812253	8810738	0.65	cps
Thallium	203-1	15205	14942	15459	15202	1.70	cps
Thallium	205-1	36272	36706	36225	36401	0.73	cps
Tin	118-1	59951	60272	59442	59888	0.70	cps
Titanium	47-1	239858	245797	246048	243901	1.44	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-12

Instrumnet Name :P7

Client Sample ID :MH2GL1

Dilution Factor :1

Date & Time Acquired :2024-10-31 22:07:39

DataFile Name :039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	258289	256724	258109	257707	0.33	cps
Vanadium	51-2	494756	490463	495334	493518	0.54	cps
Yttrium	89-1	18369990	18311792	18381662	18354481	0.20	cps
Yttrium	89-2	5082638	5043464	4997916	5041339	0.84	cps
Zinc	66-2	1904969	1916737	1892099	1904601	0.65	cps
Zirconium	90-1	59139	60718	61113	60323	1.73	cps
Zirconium	91-1	13640	14454	13603	13899	3.46	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:10:40 DataFile Name : 040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6302274	6296827	6295465	6298189	0.06	cps
Antimony	121-1	38775	38542	38374	38564	0.52	cps
Arsenic	75-2	41805	41835	41418	41686	0.56	cps
Barium	135-1	3461486	3476521	3476447	3471485	0.25	cps
Barium	137-1	6010456	5951957	6010475	5990962	0.56	cps
Beryllium	9-1	14558	14844	14954	14785	1.38	cps
Bismuth	209-1	6890291	7035684	6795118	6907031	1.75	cps
Bismuth	209-2	5991587	5915416	5870482	5925828	1.03	cps
Bromine	81-1	33769	35335	35168	34757	2.48	cps
Bromine	81-2	4134	4357	4434	4308	3.62	cps
Cadmium	108-1	5131	5164	5021	5105	1.47	cps
Cadmium	106-1	11084	11114	11184	11128	0.46	cps
Cadmium	111-1	71062	70630	70201	70631	0.61	cps
Calcium	43-1	8672771	8773892	8666057	8704240	0.69	cps
Calcium	44-1	140712455	141663991	141133121	141169856	0.34	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	337676	336429	335443	336516	0.33	cps
Cobalt	59-2	245940	243497	246096	245178	0.59	cps
Copper	63-2	2019964	2017991	2002869	2013608	0.46	cps
Dysprosium	156-1	143036	144138	141475	142883	0.94	cps
Dysprosium	156-2	120085	119366	119197	119549	0.39	cps
Erbium	164-1	132387	132969	132033	132463	0.36	cps
Erbium	164-2	97202	96269	97239	96903	0.57	cps
Gadolinium	160-1	144631	144557	145893	145027	0.52	cps
Gadolinium	160-2	112638	112003	111919	112187	0.35	cps
Holmium	165-1	12136249	12183525	12056394	12125389	0.53	cps
Holmium	165-2	9029724	8724430	8690764	8814973	2.12	cps
Indium	115-1	10069676	9972950	9808325	9950317	1.33	cps
Indium	115-2	3660125	3687776	3524461	3624121	2.41	cps
Iron	56-2	300943209	299638249	298884989	299822149	0.35	cps
Iron	57-2	7585515	7608991	7574306	7589604	0.23	cps
Iron	54-2	16400801	16411236	16278214	16363417	0.45	cps
Krypton	83-1	393	453	440	429	7.35	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:10:40 DataFile Name : 040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11429354	11447506	11296750	11391203	0.72	cps
Lead	207-1	9969321	10052307	9750940	9924190	1.57	cps
Lead	208-1	45595467	46054603	44507520	45385864	1.75	cps
Lithium	6-1	2246640	2229165	2225416	2233740	0.51	cps
Magnesium	24-2	12524622	12421286	12455614	12467174	0.42	cps
Manganese	55-2	7822138	7811072	7801368	7811526	0.13	cps
Molybdenum	94-1	51637	52768	51691	52032	1.23	cps
Molybdenum	95-1	50179	50711	49527	50139	1.18	cps
Molybdenum	96-1	62315	63336	62141	62598	1.03	cps
Molybdenum	97-1	31146	31157	30946	31083	0.38	cps
Molybdenum	98-1	79438	79789	79404	79544	0.27	cps
Neodymium	150-1	225532	227497	227686	226905	0.53	cps
Neodymium	150-2	140294	141128	137880	139767	1.21	cps
Nickel	60-2	282917	283328	283693	283313	0.14	cps
Phosphorus	31-2	83231	83281	82719	83077	0.37	cps
Potassium	39-2	3348430	3389313	3366003	3367915	0.61	cps
Rhodium	103-1	9036728	9107978	8922492	9022399	1.04	cps
Rhodium	103-2	5978108	5973230	5877751	5943029	0.95	cps
Scandium	45-1	6403809	6397517	6306790	6369372	0.85	cps
Scandium	45-2	598381	590799	589764	592981	0.79	cps
Selenium	82-1	1877	1936	1934	1916	1.74	cps
Selenium	77-2	730	770	670	723	6.96	cps
Selenium	78-2	1113	1177	1080	1123	4.37	cps
Silicon	28-1	99309132	100871275	101097698	100426035	0.97	cps
Silver	107-1	69827	70350	70028	70068	0.38	cps
Silver	109-1	64636	66545	65845	65676	1.47	cps
Sodium	23-2	1362433	1323734	1350939	1345702	1.48	cps
Strontium	86-1	4628021	4602288	4590915	4607075	0.41	cps
Strontium	88-1	39880584	40096895	40010374	39995951	0.27	cps
Sulfur	34-1	607469	616295	615359	613041	0.79	cps
Terbium	159-1	12572741	12559372	12364316	12498810	0.93	cps
Terbium	159-2	8888205	8875137	8775487	8846276	0.70	cps
Thallium	203-1	24656	25480	25036	25058	1.65	cps
Thallium	205-1	60156	60092	60627	60292	0.49	cps
Tin	118-1	164599	166193	164902	165231	0.51	cps
Titanium	47-1	239014	240419	240842	240092	0.40	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-13

Instrumnet Name :

P7

Client Sample ID :

MH2GL2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:10:40

DataFile Name :

040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	272121	270961	273295	272126	0.43	cps
Vanadium	51-2	777116	778974	777237	777776	0.13	cps
Yttrium	89-1	19183476	19109139	19069591	19120735	0.30	cps
Yttrium	89-2	5253515	5322587	5223813	5266638	0.96	cps
Zinc	66-2	2319684	2382720	2332780	2345061	1.42	cps
Zirconium	90-1	62941	63624	68267	64944	4.46	cps
Zirconium	91-1	14140	14397	14791	14443	2.27	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:13:38 DataFile Name : 041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6001616	5947076	5969110	5972601	0.46	cps
Antimony	121-1	31054	31184	30860	31032	0.53	cps
Arsenic	75-2	28234	27319	27699	27750	1.66	cps
Barium	135-1	3869287	3816831	3809203	3831773	0.85	cps
Barium	137-1	6574924	6584137	6607997	6589019	0.26	cps
Beryllium	9-1	16471	16551	16832	16618	1.14	cps
Bismuth	209-1	7183116	6963529	7021178	7055941	1.61	cps
Bismuth	209-2	5943824	5778805	5868984	5863871	1.41	cps
Bromine	81-1	29713	30615	31621	30650	3.11	cps
Bromine	81-2	3607	3664	3784	3685	2.45	cps
Cadmium	108-1	5004	4904	4951	4953	1.01	cps
Cadmium	106-1	11214	10981	10824	11006	1.78	cps
Cadmium	111-1	64747	66213	66037	65666	1.22	cps
Calcium	43-1	9162166	9279469	9258748	9233461	0.68	cps
Calcium	44-1	149226558	149189374	149861961	149425964	0.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	211716	209470	210951	210712	0.54	cps
Cobalt	59-2	242269	242062	239709	241347	0.59	cps
Copper	63-2	2109188	2109438	2106924	2108517	0.07	cps
Dysprosium	156-1	155892	157945	157200	157012	0.66	cps
Dysprosium	156-2	129665	131970	129376	130337	1.09	cps
Erbium	164-1	144085	146051	145074	145070	0.68	cps
Erbium	164-2	106928	106038	104769	105912	1.02	cps
Gadolinium	160-1	157086	161813	159837	159579	1.49	cps
Gadolinium	160-2	122614	124057	121989	122887	0.86	cps
Holmium	165-1	12462436	12153959	12127633	12248009	1.52	cps
Holmium	165-2	8810556	8833775	8770352	8804895	0.36	cps
Indium	115-1	10247513	9900447	9914815	10020925	1.96	cps
Indium	115-2	3650635	3613877	3569451	3611321	1.13	cps
Iron	56-2	215194690	214428083	213980257	214534343	0.29	cps
Iron	57-2	5523199	5506056	5473747	5501001	0.46	cps
Iron	54-2	11820014	11714146	11743279	11759146	0.47	cps
Krypton	83-1	453	510	503	489	6.34	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:13:38 DataFile Name : 041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15583131	15421931	16098880	15701314	2.25	cps
Lead	207-1	13767477	13413682	13677396	13619519	1.35	cps
Lead	208-1	62872002	61743057	62934076	62516378	1.07	cps
Lithium	6-1	2202466	2213845	2206623	2207645	0.26	cps
Magnesium	24-2	12001266	11879307	11669421	11849998	1.42	cps
Manganese	55-2	9733083	9642434	9675028	9683515	0.47	cps
Molybdenum	94-1	44076	44347	43825	44083	0.59	cps
Molybdenum	95-1	21309	20728	21165	21067	1.44	cps
Molybdenum	96-1	31561	31918	31253	31577	1.05	cps
Molybdenum	97-1	12676	12942	13029	12882	1.43	cps
Molybdenum	98-1	33074	33515	33121	33237	0.73	cps
Neodymium	150-1	242269	244079	243047	243132	0.37	cps
Neodymium	150-2	150473	149557	148520	149517	0.65	cps
Nickel	60-2	256567	253017	253502	254362	0.76	cps
Phosphorus	31-2	79230	79528	77438	78732	1.44	cps
Potassium	39-2	2976898	2983930	2950795	2970541	0.59	cps
Rhodium	103-1	9222669	8927036	8807151	8985619	2.38	cps
Rhodium	103-2	5936737	5888768	5962528	5929344	0.63	cps
Scandium	45-1	6491046	6446566	6339863	6425825	1.21	cps
Scandium	45-2	595937	596325	585804	592689	1.01	cps
Selenium	82-1	1265	1214	1226	1235	2.18	cps
Selenium	77-2	737	833	720	763	8.02	cps
Selenium	78-2	1043	983	893	973	7.76	cps
Silicon	28-1	88625942	89658819	89758525	89347762	0.70	cps
Silver	107-1	79526	81608	79995	80376	1.36	cps
Silver	109-1	74952	75130	75421	75168	0.32	cps
Sodium	23-2	1706116	1695737	1656897	1686250	1.54	cps
Strontium	86-1	5072089	5062880	5005509	5046826	0.71	cps
Strontium	88-1	43363106	43996794	43863643	43741181	0.76	cps
Sulfur	34-1	356214	359913	361168	359098	0.72	cps
Terbium	159-1	12833403	12412611	12509369	12585127	1.75	cps
Terbium	159-2	8667857	8798301	8638734	8701631	0.98	cps
Thallium	203-1	16867	16804	17211	16961	1.29	cps
Thallium	205-1	39778	40166	39822	39922	0.53	cps
Tin	118-1	89013	90546	90184	89914	0.89	cps
Titanium	47-1	232567	234650	234505	233907	0.50	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-14

Instrumnet Name :

P7

Client Sample ID :

MH2GL3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:13:38

DataFile Name :

041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	272292	272745	270776	271937	0.38	cps
Vanadium	51-2	544739	541833	538310	541627	0.59	cps
Yttrium	89-1	19723203	19454921	19271866	19483330	1.17	cps
Yttrium	89-2	5323663	5388267	5248331	5320087	1.32	cps
Zinc	66-2	3254859	3258661	3221122	3244881	0.64	cps
Zirconium	90-1	87991	88423	87177	87864	0.72	cps
Zirconium	91-1	19687	19456	19844	19662	0.99	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-15 Instrumnet Name : P7
Client Sample ID : MH2GL4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:16:39 DataFile Name : 042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5215013	5227365	5275504	5239294	0.61	cps
Antimony	121-1	37282	37876	38528	37895	1.65	cps
Arsenic	75-2	60971	60589	60171	60577	0.66	cps
Barium	135-1	3750151	3733531	3788659	3757447	0.75	cps
Barium	137-1	6412397	6421462	6539898	6457919	1.10	cps
Beryllium	9-1	15626	15749	15704	15693	0.40	cps
Bismuth	209-1	7106320	7060783	6247908	6805004	7.10	cps
Bismuth	209-2	5834707	5861283	5880639	5858876	0.39	cps
Bromine	81-1	29316	30197	31407	30307	3.46	cps
Bromine	81-2	3457	3630	3484	3524	2.65	cps
Cadmium	108-1	8609	8699	8990	8766	2.27	cps
Cadmium	106-1	16106	15966	15609	15893	1.61	cps
Cadmium	111-1	121274	122464	122148	121962	0.51	cps
Calcium	43-1	8876579	8928369	8938946	8914631	0.37	cps
Calcium	44-1	143354275	144491545	145283758	144376526	0.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	222774	223469	225014	223752	0.51	cps
Cobalt	59-2	258297	257384	256788	257490	0.30	cps
Copper	63-2	2654721	2606665	2614645	2625344	0.98	cps
Dysprosium	156-1	155464	154244	155106	154938	0.41	cps
Dysprosium	156-2	126662	128447	127596	127569	0.70	cps
Erbium	164-1	142612	143751	142283	142882	0.54	cps
Erbium	164-2	103718	104554	105219	104497	0.72	cps
Gadolinium	160-1	157116	157272	158896	157762	0.62	cps
Gadolinium	160-2	123623	122526	121723	122624	0.78	cps
Holmium	165-1	12138136	12228628	10664490	11677085	7.52	cps
Holmium	165-2	8766559	8762842	8617067	8715489	0.98	cps
Indium	115-1	9872383	9915076	8720457	9502639	7.13	cps
Indium	115-2	3580162	3579527	3551601	3570430	0.46	cps
Iron	56-2	262661516	262309096	260007876	261659496	0.55	cps
Iron	57-2	6608525	6617173	6591304	6605667	0.20	cps
Iron	54-2	14305560	14189013	14308176	14267583	0.48	cps
Krypton	83-1	450	497	453	467	5.58	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-15 Instrumnet Name : P7
Client Sample ID : MH2GL4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:16:39 DataFile Name : 042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	25005845	25348843	24780662	25045117	1.14	cps
Lead	207-1	22082376	22237164	21987301	22102281	0.57	cps
Lead	208-1	100276754	100854921	99912254	100347977	0.47	cps
Lithium	6-1	2196059	2220723	1971976	2129586	6.44	cps
Magnesium	24-2	12046616	12174729	12023817	12081720	0.67	cps
Manganese	55-2	9066674	9067030	9090091	9074598	0.15	cps
Molybdenum	94-1	52497	51754	52577	52276	0.87	cps
Molybdenum	95-1	30418	30258	31310	30662	1.85	cps
Molybdenum	96-1	42014	42772	43046	42611	1.26	cps
Molybdenum	97-1	19273	18866	18872	19004	1.23	cps
Molybdenum	98-1	47912	47798	48701	48137	1.02	cps
Neodymium	150-1	239349	241621	242963	241311	0.76	cps
Neodymium	150-2	148446	149939	148836	149074	0.52	cps
Nickel	60-2	284132	283029	282190	283117	0.34	cps
Phosphorus	31-2	68258	66999	67779	67679	0.94	cps
Potassium	39-2	2756290	2786564	2801532	2781462	0.83	cps
Rhodium	103-1	8871278	8827205	7696834	8465106	7.86	cps
Rhodium	103-2	5855082	5862960	5874364	5864135	0.17	cps
Scandium	45-1	6412036	6340116	5519456	6090536	8.14	cps
Scandium	45-2	588281	588700	589607	588863	0.12	cps
Selenium	82-1	1340	1338	1249	1309	3.97	cps
Selenium	77-2	817	630	747	731	12.90	cps
Selenium	78-2	923	1100	903	976	11.10	cps
Silicon	28-1	84775465	84768697	86323432	85289198	1.05	cps
Silver	107-1	162107	164052	164538	163566	0.79	cps
Silver	109-1	152836	153759	153533	153376	0.31	cps
Sodium	23-2	1867520	1824601	1860682	1850934	1.25	cps
Strontium	86-1	4963689	4990713	4994588	4982997	0.34	cps
Strontium	88-1	43773859	43937263	44179328	43963483	0.46	cps
Sulfur	34-1	398615	397775	404271	400220	0.88	cps
Terbium	159-1	12542641	12374024	10815421	11910695	8.00	cps
Terbium	159-2	8752373	8743210	8753218	8749600	0.06	cps
Thallium	203-1	20853	20933	22015	21267	3.05	cps
Thallium	205-1	50353	50363	50443	50386	0.10	cps
Tin	118-1	102152	102864	105479	103498	1.69	cps
Titanium	47-1	207393	208573	211499	209155	1.01	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-15

Instrumnet Name :

P7

Client Sample ID :

MH2GL4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:16:39

DataFile Name :

042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	320059	323627	319921	321202	0.65	cps
Vanadium	51-2	613398	613754	613502	613551	0.03	cps
Yttrium	89-1	19266421	19065759	17038817	18456999	6.68	cps
Yttrium	89-2	5316799	5172070	5234116	5240995	1.39	cps
Zinc	66-2	3392199	3361507	3385007	3379571	0.47	cps
Zirconium	90-1	94810	95249	96105	95388	0.69	cps
Zirconium	91-1	20798	21686	21736	21407	2.47	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-16 Instrumnet Name : P7
Client Sample ID : MH2GL5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:19:37 DataFile Name : 043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4189060	4159250	4150167	4166159	0.49	cps
Antimony	121-1	10904	10827	11728	11153	4.48	cps
Arsenic	75-2	14434	14474	14831	14579	1.50	cps
Barium	135-1	1785326	1766568	1798831	1783575	0.91	cps
Barium	137-1	3054367	3087883	3077712	3073321	0.56	cps
Beryllium	9-1	9886	10200	10290	10125	2.09	cps
Bismuth	209-1	7112709	6909792	6909896	6977466	1.68	cps
Bismuth	209-2	5801782	5864176	5855581	5840513	0.58	cps
Bromine	81-1	20141	20034	20868	20347	2.23	cps
Bromine	81-2	1497	1423	1370	1430	4.45	cps
Cadmium	108-1	2230	2120	2147	2166	2.65	cps
Cadmium	106-1	6642	7055	6952	6883	3.13	cps
Cadmium	111-1	28296	29022	29103	28807	1.54	cps
Calcium	43-1	6327647	6363024	6422594	6371089	0.75	cps
Calcium	44-1	102517322	102682378	103308248	102835983	0.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	201514	200545	199687	200582	0.46	cps
Cobalt	59-2	170533	169545	169246	169775	0.40	cps
Copper	63-2	639987	638454	634614	637685	0.43	cps
Dysprosium	156-1	152586	154415	152831	153277	0.65	cps
Dysprosium	156-2	130187	131388	129976	130517	0.58	cps
Erbium	164-1	128918	131469	129686	130024	1.01	cps
Erbium	164-2	95624	94725	93013	94454	1.40	cps
Gadolinium	160-1	147834	148848	150549	149077	0.92	cps
Gadolinium	160-2	114711	113898	115579	114729	0.73	cps
Holmium	165-1	12478564	12084607	11986395	12183189	2.14	cps
Holmium	165-2	8730454	8723991	8773422	8742622	0.31	cps
Indium	115-1	10056390	9746756	9527819	9776988	2.72	cps
Indium	115-2	3561526	3539746	3556619	3552630	0.32	cps
Iron	56-2	159103894	157715664	156513428	157777662	0.82	cps
Iron	57-2	3979894	4050921	4029070	4019961	0.90	cps
Iron	54-2	8704377	8549797	8607363	8620512	0.91	cps
Krypton	83-1	387	407	393	396	2.57	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-16 Instrumnet Name : P7
Client Sample ID : MH2GL5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:19:37 DataFile Name : 043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5087829	5154423	5166894	5136382	0.83	cps
Lead	207-1	4379734	4475964	4370856	4408851	1.32	cps
Lead	208-1	20172235	20354152	20153936	20226774	0.55	cps
Lithium	6-1	2213748	2195213	2153900	2187620	1.40	cps
Magnesium	24-2	10864970	10792800	10753006	10803592	0.53	cps
Manganese	55-2	6768912	6645839	6590478	6668410	1.37	cps
Molybdenum	94-1	30478	31070	32463	31337	3.25	cps
Molybdenum	95-1	15839	16119	18989	16982	10.27	cps
Molybdenum	96-1	22788	23686	26474	24316	7.91	cps
Molybdenum	97-1	9700	10047	11595	10447	9.66	cps
Molybdenum	98-1	25799	25983	29467	27083	7.63	cps
Neodymium	150-1	255289	260286	256756	257444	1.00	cps
Neodymium	150-2	159980	158865	160630	159825	0.56	cps
Nickel	60-2	140393	137981	138701	139025	0.89	cps
Phosphorus	31-2	60000	59629	60489	60039	0.72	cps
Potassium	39-2	3216052	3228766	3198074	3214297	0.48	cps
Rhodium	103-1	9006112	8805274	8701706	8837697	1.75	cps
Rhodium	103-2	5867767	5833274	5934772	5878604	0.88	cps
Scandium	45-1	6257041	6023679	6081712	6120811	1.98	cps
Scandium	45-2	577276	572791	573199	574422	0.43	cps
Selenium	82-1	1186	1179	1194	1186	0.67	cps
Selenium	77-2	660	747	570	659	13.41	cps
Selenium	78-2	790	1023	890	901	12.99	cps
Silicon	28-1	78259167	78867094	79286499	78804253	0.66	cps
Silver	107-1	20414	19673	20097	20062	1.85	cps
Silver	109-1	18679	18048	18665	18464	1.95	cps
Sodium	23-2	685522	682965	677137	681875	0.63	cps
Strontium	86-1	2797734	2825346	2825095	2816058	0.56	cps
Strontium	88-1	24544609	24493730	24876872	24638404	0.84	cps
Sulfur	34-1	803365	804330	810801	806165	0.50	cps
Terbium	159-1	12884609	12481936	12176772	12514439	2.84	cps
Terbium	159-2	8804291	8834165	8669998	8769485	1.00	cps
Thallium	203-1	9450	9493	10014	9652	3.25	cps
Thallium	205-1	23858	23417	24816	24030	2.98	cps
Tin	118-1	21590	21920	22584	22031	2.30	cps
Titanium	47-1	138584	140623	142423	140543	1.37	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-16

Instrumnet Name :

P7

Client Sample ID :

MH2GL5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:19:37

DataFile Name :

043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	167707	171753	172676	170712	1.55	cps
Vanadium	51-2	392354	390339	388738	390477	0.46	cps
Yttrium	89-1	18711028	18546638	18391101	18549589	0.86	cps
Yttrium	89-2	5133337	5080143	5053571	5089017	0.80	cps
Zinc	66-2	954093	950362	954483	952979	0.24	cps
Zirconium	90-1	59001	60102	61204	60102	1.83	cps
Zirconium	91-1	12746	13423	13319	13163	2.77	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-17 Instrumnet Name : P7
Client Sample ID : MH2GL6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:22:40 DataFile Name : 044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4570786	4567532	4543414	4560577	0.33	cps
Antimony	121-1	11875	12195	11988	12020	1.35	cps
Arsenic	75-2	15915	16082	16339	16112	1.32	cps
Barium	135-1	1938834	1927720	1940429	1935661	0.36	cps
Barium	137-1	3328660	3290723	3335238	3318207	0.72	cps
Beryllium	9-1	10650	10848	10821	10773	1.00	cps
Bismuth	209-1	6679882	7075414	6957764	6904353	2.94	cps
Bismuth	209-2	5953814	5885946	5895956	5911905	0.62	cps
Bromine	81-1	20771	21669	22290	21577	3.54	cps
Bromine	81-2	1793	1747	1800	1780	1.63	cps
Cadmium	108-1	2070	2100	2097	2089	0.79	cps
Cadmium	106-1	6582	6568	6225	6458	3.13	cps
Cadmium	111-1	26244	25811	26314	26123	1.04	cps
Calcium	43-1	6005873	6022555	6134388	6054272	1.15	cps
Calcium	44-1	97369489	98302242	97994429	97888720	0.49	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	156624	155037	154761	155474	0.65	cps
Cobalt	59-2	177085	176751	178103	177313	0.40	cps
Copper	63-2	596674	599526	599612	598604	0.28	cps
Dysprosium	156-1	148550	147088	148823	148154	0.63	cps
Dysprosium	156-2	125071	125333	126133	125512	0.44	cps
Erbium	164-1	128172	126557	127183	127304	0.64	cps
Erbium	164-2	92688	92641	92647	92659	0.03	cps
Gadolinium	160-1	144106	144382	142460	143649	0.72	cps
Gadolinium	160-2	111698	112756	111517	111990	0.60	cps
Holmium	165-1	11427506	12119684	12120370	11889186	3.36	cps
Holmium	165-2	8781371	8694539	8825082	8766997	0.76	cps
Indium	115-1	9228240	9853578	9655734	9579184	3.34	cps
Indium	115-2	3582335	3550485	3566702	3566507	0.45	cps
Iron	56-2	179673191	178234231	178468591	178792004	0.43	cps
Iron	57-2	4489289	4567707	4525891	4527629	0.87	cps
Iron	54-2	9816553	9693465	9807821	9772613	0.70	cps
Krypton	83-1	373	423	430	409	7.57	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-17 Instrumnet Name : P7
Client Sample ID : MH2GL6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:22:40 DataFile Name : 044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5509641	5676063	5536400	5574035	1.60	cps
Lead	207-1	4786125	4865669	4738859	4796884	1.34	cps
Lead	208-1	21830567	22322836	21967041	22040148	1.15	cps
Lithium	6-1	2096901	2203109	2127950	2142654	2.55	cps
Magnesium	24-2	10204066	10211757	10212862	10209562	0.05	cps
Manganese	55-2	7350569	7299696	7265569	7305278	0.59	cps
Molybdenum	94-1	37575	37528	37495	37532	0.11	cps
Molybdenum	95-1	19340	19393	19396	19376	0.16	cps
Molybdenum	96-1	27456	27432	27272	27387	0.37	cps
Molybdenum	97-1	11224	11685	11898	11602	2.97	cps
Molybdenum	98-1	30004	29924	29964	29964	0.13	cps
Neodymium	150-1	248532	248874	248738	248715	0.07	cps
Neodymium	150-2	154853	155305	154874	155011	0.16	cps
Nickel	60-2	174911	173366	175657	174645	0.67	cps
Phosphorus	31-2	48941	49259	49339	49180	0.43	cps
Potassium	39-2	3151023	3241912	3168880	3187272	1.51	cps
Rhodium	103-1	8298364	8686687	8729409	8571487	2.77	cps
Rhodium	103-2	5976845	5882663	5902787	5920765	0.84	cps
Scandium	45-1	5792715	6114672	6119521	6008970	3.12	cps
Scandium	45-2	585781	571646	574443	577290	1.30	cps
Selenium	82-1	1134	1151	1064	1116	4.13	cps
Selenium	77-2	657	700	560	639	11.22	cps
Selenium	78-2	817	840	980	879	10.05	cps
Silicon	28-1	91031225	91398165	92205562	91544984	0.66	cps
Silver	107-1	24150	23836	24083	24023	0.69	cps
Silver	109-1	22414	22631	22988	22678	1.28	cps
Sodium	23-2	898507	896035	900416	898320	0.24	cps
Strontium	86-1	2828517	2865522	2869984	2854674	0.80	cps
Strontium	88-1	24575861	24901498	24534326	24670562	0.82	cps
Sulfur	34-1	731642	739240	740513	737131	0.65	cps
Terbium	159-1	11686880	12243393	12294917	12075063	2.79	cps
Terbium	159-2	8800780	8662656	8665679	8709705	0.91	cps
Thallium	203-1	11829	11568	11662	11686	1.13	cps
Thallium	205-1	28473	27912	27849	28078	1.22	cps
Tin	118-1	21710	22207	22104	22007	1.19	cps
Titanium	47-1	153290	154314	155377	154327	0.68	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-17

Instrumnet Name :

P7

Client Sample ID :

MH2GL6

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:22:40

DataFile Name :

044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	196729	197619	194731	196360	0.75	cps
Vanadium	51-2	397988	396203	396657	396949	0.23	cps
Yttrium	89-1	17597650	18444621	18250513	18097594	2.45	cps
Yttrium	89-2	5125006	5078122	5012686	5071938	1.11	cps
Zinc	66-2	1134049	1137605	1138513	1136723	0.21	cps
Zirconium	90-1	72615	74005	73888	73503	1.05	cps
Zirconium	91-1	16413	16650	16326	16463	1.02	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-18 Instrumnet Name : P7
Client Sample ID : MH2GL7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:25:41 DataFile Name : 045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4902929	5015033	4903951	4940638	1.30	cps
Antimony	121-1	28054	27941	27540	27845	0.97	cps
Arsenic	75-2	51776	52379	51502	51886	0.86	cps
Barium	135-1	2925798	2926111	2951132	2934347	0.50	cps
Barium	137-1	5020112	5051527	5035497	5035712	0.31	cps
Beryllium	9-1	10754	11009	11329	11031	2.61	cps
Bismuth	209-1	7085258	7009773	6895619	6996883	1.36	cps
Bismuth	209-2	5885571	5907611	5882220	5891801	0.23	cps
Bromine	81-1	22274	23232	23782	23096	3.31	cps
Bromine	81-2	1867	2107	2200	2058	8.36	cps
Cadmium	108-1	5404	5288	5464	5385	1.67	cps
Cadmium	106-1	11308	11274	11355	11312	0.36	cps
Cadmium	111-1	72233	70881	71901	71672	0.98	cps
Calcium	43-1	6690607	6727497	6736534	6718213	0.36	cps
Calcium	44-1	107910038	108728508	108878242	108505596	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	147325	146729	147217	147090	0.22	cps
Cobalt	59-2	197893	198619	201123	199212	0.85	cps
Copper	63-2	1767231	1769056	1778225	1771504	0.33	cps
Dysprosium	156-1	159547	159579	159195	159440	0.13	cps
Dysprosium	156-2	134180	136274	134369	134941	0.86	cps
Erbium	164-1	136715	138317	138159	137730	0.64	cps
Erbium	164-2	100166	101287	100753	100735	0.56	cps
Gadolinium	160-1	154298	153403	153548	153750	0.31	cps
Gadolinium	160-2	117726	120002	118443	118723	0.98	cps
Holmium	165-1	12276839	11947506	11982678	12069007	1.50	cps
Holmium	165-2	8688458	8753653	8792370	8744827	0.60	cps
Indium	115-1	9806196	9780782	9688777	9758585	0.63	cps
Indium	115-2	3513925	3541765	3552738	3536143	0.57	cps
Iron	56-2	226051257	225934397	225768270	225917974	0.06	cps
Iron	57-2	5697808	5745834	5699418	5714353	0.48	cps
Iron	54-2	12262439	12344619	12355557	12320872	0.41	cps
Krypton	83-1	407	447	503	452	10.74	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-18 Instrumnet Name : P7
Client Sample ID : MH2GL7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:25:41 DataFile Name : 045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15712204	16032412	15708319	15817645	1.18	cps
Lead	207-1	13994630	14068739	14035137	14032835	0.26	cps
Lead	208-1	63619438	63820112	62796602	63412051	0.86	cps
Lithium	6-1	2161592	2157050	2194527	2171056	0.94	cps
Magnesium	24-2	9472774	9598701	9471746	9514407	0.77	cps
Manganese	55-2	14643594	14598959	14625208	14622587	0.15	cps
Molybdenum	94-1	44474	44838	44725	44679	0.42	cps
Molybdenum	95-1	27449	26815	26915	27060	1.26	cps
Molybdenum	96-1	36766	37157	37668	37197	1.22	cps
Molybdenum	97-1	16693	16449	16633	16592	0.76	cps
Molybdenum	98-1	42167	43404	42849	42807	1.45	cps
Neodymium	150-1	265785	265764	267625	266391	0.40	cps
Neodymium	150-2	163365	164942	165020	164442	0.57	cps
Nickel	60-2	284344	284353	286385	285027	0.41	cps
Phosphorus	31-2	48777	48667	49466	48970	0.88	cps
Potassium	39-2	3839276	3896489	3838358	3858041	0.86	cps
Rhodium	103-1	8787413	8715128	8681985	8728175	0.62	cps
Rhodium	103-2	5908524	5832607	5711915	5817682	1.70	cps
Scandium	45-1	6144803	6054146	6086588	6095179	0.75	cps
Scandium	45-2	569332	566977	566477	567595	0.27	cps
Selenium	82-1	1271	1160	1258	1230	4.97	cps
Selenium	77-2	723	643	667	678	6.07	cps
Selenium	78-2	890	963	900	918	4.33	cps
Silicon	28-1	96677865	97491635	97920429	97363310	0.65	cps
Silver	107-1	97917	97746	99236	98300	0.83	cps
Silver	109-1	92177	92691	93190	92686	0.55	cps
Sodium	23-2	1383260	1385420	1407054	1391911	0.95	cps
Strontium	86-1	2953910	2965199	2913683	2944264	0.92	cps
Strontium	88-1	25466798	25686701	25637065	25596855	0.45	cps
Sulfur	34-1	982655	993314	1000034	992001	0.88	cps
Terbium	159-1	12653989	12356242	12245458	12418563	1.70	cps
Terbium	159-2	8798113	8672852	8531799	8667588	1.54	cps
Thallium	203-1	14978	14635	15008	14874	1.40	cps
Thallium	205-1	35807	35917	35780	35835	0.20	cps
Tin	118-1	25803	25987	26074	25955	0.53	cps
Titanium	47-1	158517	158719	159069	158768	0.18	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-18

Instrumnet Name :

P7

Client Sample ID :

MH2GL7

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:25:41

DataFile Name :

045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	225052	223789	222575	223805	0.55	cps
Vanadium	51-2	441469	442584	442855	442303	0.17	cps
Yttrium	89-1	18485620	18424634	18377358	18429204	0.29	cps
Yttrium	89-2	5074650	5079442	5072791	5075628	0.07	cps
Zinc	66-2	3886384	3946976	3952000	3928453	0.93	cps
Zirconium	90-1	80355	81156	81079	80863	0.55	cps
Zirconium	91-1	17898	18572	18635	18368	2.23	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-19 Instrumnet Name : P7
Client Sample ID : MH2GL8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:28:40 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4040624	4013851	3983061	4012512	0.72	cps
Antimony	121-1	12365	12499	12586	12483	0.89	cps
Arsenic	75-2	35589	35897	35543	35676	0.54	cps
Barium	135-1	1252725	1265932	1258876	1259177	0.52	cps
Barium	137-1	2371353	2383200	2363503	2372685	0.42	cps
Beryllium	9-1	14018	14203	14134	14118	0.66	cps
Bismuth	209-1	6938117	6942550	6878199	6919622	0.52	cps
Bismuth	209-2	5861325	5758181	5751063	5790190	1.07	cps
Bromine	81-1	23375	23262	23108	23248	0.58	cps
Bromine	81-2	2047	1977	2037	2020	1.87	cps
Cadmium	108-1	5321	5328	5154	5268	1.87	cps
Cadmium	106-1	11198	11221	10767	11062	2.31	cps
Cadmium	111-1	69470	69354	70394	69739	0.82	cps
Calcium	43-1	9736755	9838970	9723761	9766495	0.65	cps
Calcium	44-1	156249421	158131244	158697731	157692799	0.81	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	183830	183576	183485	183630	0.10	cps
Cobalt	59-2	239515	237125	238357	238332	0.50	cps
Copper	63-2	1607344	1584074	1590368	1593929	0.76	cps
Dysprosium	156-1	155618	157708	157153	156826	0.69	cps
Dysprosium	156-2	127593	127816	128405	127938	0.33	cps
Erbium	164-1	145007	144751	146465	145408	0.64	cps
Erbium	164-2	105444	105726	105256	105475	0.22	cps
Gadolinium	160-1	161452	162352	162457	162087	0.34	cps
Gadolinium	160-2	125371	126192	123660	125075	1.03	cps
Holmium	165-1	11975472	11982316	11775272	11911020	0.99	cps
Holmium	165-2	8766807	8650103	8640057	8685655	0.81	cps
Indium	115-1	9530418	9589860	9467666	9529315	0.64	cps
Indium	115-2	3503435	3491366	3467010	3487270	0.53	cps
Iron	56-2	231647797	232220257	229641070	231169708	0.59	cps
Iron	57-2	5908067	5890173	5890157	5896132	0.18	cps
Iron	54-2	12665111	12626546	12639858	12643839	0.15	cps
Krypton	83-1	393	443	433	423	6.25	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-19 Instrumnet Name : P7
Client Sample ID : MH2GL8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:28:40 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12317951	12596881	12553139	12489324	1.20	cps
Lead	207-1	11143201	11144943	11327202	11205115	0.94	cps
Lead	208-1	50091409	51079133	50487079	50552540	0.98	cps
Lithium	6-1	2137797	2118929	2121158	2125961	0.48	cps
Magnesium	24-2	10851098	10744574	10627404	10741025	1.04	cps
Manganese	55-2	12498637	12246625	12323592	12356285	1.05	cps
Molybdenum	94-1	26040	26828	26751	26540	1.64	cps
Molybdenum	95-1	19383	18916	19083	19127	1.24	cps
Molybdenum	96-1	26888	26334	26698	26640	1.06	cps
Molybdenum	97-1	11535	11945	12142	11874	2.61	cps
Molybdenum	98-1	29577	30332	30455	30121	1.58	cps
Neodymium	150-1	241936	241317	241589	241614	0.13	cps
Neodymium	150-2	149705	148577	147099	148460	0.88	cps
Nickel	60-2	655036	651239	648769	651681	0.48	cps
Phosphorus	31-2	51650	50794	50346	50930	1.30	cps
Potassium	39-2	4271139	4188834	4175675	4211883	1.23	cps
Rhodium	103-1	8659352	8501833	8453216	8538134	1.26	cps
Rhodium	103-2	5660070	5613979	5641472	5638507	0.41	cps
Scandium	45-1	6002617	6108254	6048568	6053146	0.88	cps
Scandium	45-2	564968	562737	562225	563310	0.26	cps
Selenium	82-1	1455	1447	1530	1477	3.09	cps
Selenium	77-2	700	687	790	726	7.75	cps
Selenium	78-2	947	1030	883	953	7.72	cps
Silicon	28-1	103453055	104785588	104206332	104148325	0.64	cps
Silver	107-1	72041	73270	71904	72405	1.04	cps
Silver	109-1	66475	68896	67436	67602	1.80	cps
Sodium	23-2	2326151	2262440	2274552	2287714	1.48	cps
Strontium	86-1	4489560	4545656	4507040	4514085	0.64	cps
Strontium	88-1	38866816	39357454	39396257	39206842	0.75	cps
Sulfur	34-1	2474595	2515076	2491276	2493649	0.82	cps
Terbium	159-1	12355622	12250997	12272009	12292876	0.45	cps
Terbium	159-2	8693826	8572564	8622286	8629559	0.71	cps
Thallium	203-1	13003	13363	12819	13062	2.12	cps
Thallium	205-1	30929	30574	30651	30718	0.61	cps
Tin	118-1	21797	22364	22531	22231	1.73	cps
Titanium	47-1	92239	93154	93848	93080	0.87	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-19

Instrumnet Name :

P7

Client Sample ID :

MH2GL8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:28:40

DataFile Name :

046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	296163	298663	296879	297235	0.43	cps
Vanadium	51-2	699501	700015	696837	698784	0.24	cps
Yttrium	89-1	18137263	18362947	18075723	18191978	0.83	cps
Yttrium	89-2	5008137	5058690	5022972	5029933	0.52	cps
Zinc	66-2	3811822	3778515	3731857	3774064	1.06	cps
Zirconium	90-1	42187	42491	42344	42341	0.36	cps
Zirconium	91-1	9527	9743	10040	9770	2.64	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-20 Instrumnet Name : P7
Client Sample ID : MH2GL9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:31:39 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4433912	4403884	4398015	4411937	0.44	cps
Antimony	121-1	11575	11905	11585	11688	1.61	cps
Arsenic	75-2	26747	25869	25980	26199	1.83	cps
Barium	135-1	2115402	2125508	2121872	2120927	0.24	cps
Barium	137-1	3663166	3602714	3683047	3649642	1.15	cps
Beryllium	9-1	12561	12690	12924	12725	1.45	cps
Bismuth	209-1	7077120	7068941	6870020	7005361	1.67	cps
Bismuth	209-2	5812688	5817599	5817433	5815906	0.05	cps
Bromine	81-1	21943	22604	22925	22491	2.23	cps
Bromine	81-2	1947	2074	2110	2043	4.19	cps
Cadmium	108-1	3737	3837	3881	3818	1.93	cps
Cadmium	106-1	8899	9156	8406	8821	4.32	cps
Cadmium	111-1	51046	51842	52797	51895	1.69	cps
Calcium	43-1	8411742	8531491	8563842	8502358	0.94	cps
Calcium	44-1	137673135	138495548	138984715	138384466	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	378356	374578	374649	375861	0.57	cps
Cobalt	59-2	211181	208535	210485	210067	0.65	cps
Copper	63-2	1313099	1305044	1305393	1307845	0.35	cps
Dysprosium	156-1	145117	148480	147000	146866	1.15	cps
Dysprosium	156-2	120734	119611	119597	119981	0.54	cps
Erbium	164-1	134147	133726	134261	134045	0.21	cps
Erbium	164-2	98316	96567	96796	97226	0.98	cps
Gadolinium	160-1	149723	148568	150257	149516	0.58	cps
Gadolinium	160-2	113714	113952	113048	113571	0.41	cps
Holmium	165-1	12239437	12278459	11819231	12112376	2.10	cps
Holmium	165-2	8601492	8628848	8773860	8668067	1.07	cps
Indium	115-1	9776472	9556187	9429525	9587394	1.83	cps
Indium	115-2	3459855	3479015	3447384	3462085	0.46	cps
Iron	56-2	260464756	259731829	254441503	258212696	1.27	cps
Iron	57-2	6567184	6492186	6442933	6500767	0.96	cps
Iron	54-2	14170012	13977917	13963830	14037253	0.82	cps
Krypton	83-1	407	427	490	441	9.86	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-20 Instrumnet Name : P7
Client Sample ID : MH2GL9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:31:39 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7631775	7524531	7588598	7581635	0.71	cps
Lead	207-1	6722519	6644276	6577030	6647942	1.10	cps
Lead	208-1	30531551	30602559	30109449	30414520	0.88	cps
Lithium	6-1	2183599	2150332	2134904	2156278	1.15	cps
Magnesium	24-2	17069711	17008876	16782866	16953818	0.89	cps
Manganese	55-2	9182488	9114513	9023462	9106821	0.88	cps
Molybdenum	94-1	33198	34484	34367	34016	2.09	cps
Molybdenum	95-1	27703	27466	26935	27368	1.44	cps
Molybdenum	96-1	36121	36716	35894	36244	1.17	cps
Molybdenum	97-1	16509	16706	16750	16655	0.77	cps
Molybdenum	98-1	42802	43154	43053	43003	0.42	cps
Neodymium	150-1	230348	226286	223684	226773	1.48	cps
Neodymium	150-2	138584	140179	140004	139589	0.63	cps
Nickel	60-2	244384	244008	244056	244149	0.08	cps
Phosphorus	31-2	90328	87468	88782	88859	1.61	cps
Potassium	39-2	4025129	4030191	4050963	4035427	0.34	cps
Rhodium	103-1	8645141	8556345	8416143	8539210	1.35	cps
Rhodium	103-2	5714617	5776305	5766550	5752491	0.58	cps
Scandium	45-1	5909508	6022390	5850775	5927558	1.47	cps
Scandium	45-2	553482	550215	551345	551681	0.30	cps
Selenium	82-1	1249	1188	1258	1232	3.09	cps
Selenium	77-2	740	537	733	670	17.24	cps
Selenium	78-2	893	913	800	869	6.96	cps
Silicon	28-1	88013262	90356329	89354459	89241350	1.32	cps
Silver	107-1	36526	36619	37665	36937	1.71	cps
Silver	109-1	34087	34574	34020	34227	0.88	cps
Sodium	23-2	685397	682089	682758	683415	0.26	cps
Strontium	86-1	3712190	3752249	3795562	3753334	1.11	cps
Strontium	88-1	31932170	32659650	32745958	32445926	1.38	cps
Sulfur	34-1	1006008	1032929	1023584	1020840	1.34	cps
Terbium	159-1	12402979	12418225	12383675	12401626	0.14	cps
Terbium	159-2	8753218	8480519	8568283	8600673	1.62	cps
Thallium	203-1	17875	17198	17888	17654	2.24	cps
Thallium	205-1	41781	40728	41480	41329	1.31	cps
Tin	118-1	86766	87886	86950	87201	0.69	cps
Titanium	47-1	190044	194958	195472	193491	1.55	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-20

Instrumnet Name :

P7

Client Sample ID :

MH2GL9

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:31:39

DataFile Name :

047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	253914	248715	251555	251395	1.04	cps
Vanadium	51-2	667331	668794	663440	666522	0.42	cps
Yttrium	89-1	18267825	18370462	18528576	18388954	0.71	cps
Yttrium	89-2	4999318	5035068	4969567	5001318	0.66	cps
Zinc	66-2	1981326	1991557	1964466	1979117	0.69	cps
Zirconium	90-1	51038	51761	51269	51356	0.72	cps
Zirconium	91-1	11231	11968	11518	11572	3.21	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-21 Instrumnet Name : P7
Client Sample ID : MH2GM0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:34:40 DataFile Name : 048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3422299	3378925	3356673	3385966	0.99	cps
Antimony	121-1	17491	17761	17374	17542	1.13	cps
Arsenic	75-2	19343	19243	18869	19151	1.30	cps
Barium	135-1	2018042	2046599	1975633	2013425	1.77	cps
Barium	137-1	3526600	3497415	3454651	3492889	1.04	cps
Beryllium	9-1	13234	13209	13324	13256	0.46	cps
Bismuth	209-1	7025548	6975537	6862028	6954371	1.20	cps
Bismuth	209-2	5882387	5794248	5775267	5817301	0.98	cps
Bromine	81-1	23178	23566	23722	23489	1.19	cps
Bromine	81-2	1917	1987	2017	1973	2.60	cps
Cadmium	108-1	4741	4904	4451	4699	4.89	cps
Cadmium	106-1	10594	10054	10184	10277	2.74	cps
Cadmium	111-1	63841	63428	62971	63413	0.69	cps
Calcium	43-1	10303308	10355017	10339523	10332616	0.26	cps
Calcium	44-1	167333731	167570314	166850354	167251466	0.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	170903	168520	170718	170047	0.78	cps
Cobalt	59-2	217925	215403	214937	216089	0.74	cps
Copper	63-2	1407466	1395885	1399858	1401069	0.42	cps
Dysprosium	156-1	143350	142035	141943	142442	0.55	cps
Dysprosium	156-2	116357	117426	116733	116839	0.46	cps
Erbium	164-1	132286	133248	131954	132496	0.51	cps
Erbium	164-2	95037	96792	95681	95837	0.93	cps
Gadolinium	160-1	147016	147143	145961	146707	0.44	cps
Gadolinium	160-2	112581	112655	110689	111975	0.99	cps
Holmium	165-1	12145380	11933705	11899715	11992933	1.11	cps
Holmium	165-2	8775690	8673417	8654564	8701224	0.75	cps
Indium	115-1	9653824	9575143	9597909	9608959	0.42	cps
Indium	115-2	3508368	3506793	3422432	3479197	1.41	cps
Iron	56-2	176017551	174210111	172005957	174077873	1.15	cps
Iron	57-2	4550686	4521966	4488185	4520279	0.69	cps
Iron	54-2	9617050	9552440	9471979	9547156	0.76	cps
Krypton	83-1	463	390	420	424	8.69	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-21 Instrumnet Name : P7
Client Sample ID : MH2GM0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:34:40 DataFile Name : 048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11290650	11483164	11271809	11348541	1.03	cps
Lead	207-1	10067104	10119595	9953307	10046669	0.85	cps
Lead	208-1	45722266	45337905	45096083	45385418	0.70	cps
Lithium	6-1	2118233	2139511	2129890	2129211	0.50	cps
Magnesium	24-2	10871399	10841729	10805202	10839443	0.31	cps
Manganese	55-2	7992663	7936002	7907199	7945288	0.55	cps
Molybdenum	94-1	18325	18398	18575	18433	0.70	cps
Molybdenum	95-1	11061	10958	10651	10890	1.96	cps
Molybdenum	96-1	16580	16326	16660	16522	1.05	cps
Molybdenum	97-1	6565	6815	6562	6647	2.19	cps
Molybdenum	98-1	16713	16826	17110	16883	1.21	cps
Neodymium	150-1	220323	220121	219787	220077	0.12	cps
Neodymium	150-2	134797	133751	134249	134266	0.39	cps
Nickel	60-2	318689	312440	313037	314722	1.10	cps
Phosphorus	31-2	74547	74416	74480	74481	0.09	cps
Potassium	39-2	2967315	2911492	2951888	2943565	0.98	cps
Rhodium	103-1	8644071	8583803	8569311	8599062	0.46	cps
Rhodium	103-2	5770568	5757620	5697511	5741899	0.68	cps
Scandium	45-1	5983894	5936737	5969333	5963321	0.40	cps
Scandium	45-2	561985	554886	550323	555731	1.06	cps
Selenium	82-1	1152	1224	1270	1215	4.92	cps
Selenium	77-2	610	597	663	623	5.66	cps
Selenium	78-2	873	857	863	864	0.97	cps
Silicon	28-1	71873222	72193287	72754584	72273698	0.62	cps
Silver	107-1	52324	53301	52899	52841	0.93	cps
Silver	109-1	49230	49474	49812	49505	0.59	cps
Sodium	23-2	711488	700288	699615	703797	0.95	cps
Strontium	86-1	4558640	4614350	4579843	4584278	0.61	cps
Strontium	88-1	39983885	39873183	39814959	39890676	0.22	cps
Sulfur	34-1	726840	727399	733858	729366	0.53	cps
Terbium	159-1	12481372	12429209	12369274	12426618	0.45	cps
Terbium	159-2	8649794	8662976	8589877	8634215	0.45	cps
Thallium	203-1	15646	15873	15109	15542	2.53	cps
Thallium	205-1	37522	37575	37037	37378	0.79	cps
Tin	118-1	23529	22831	23289	23217	1.53	cps
Titanium	47-1	77839	78790	79819	78816	1.26	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-21

Instrumnet Name :

P7

Client Sample ID :

MH2GM0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:34:40

DataFile Name :

048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	311695	309700	307475	309623	0.68	cps
Vanadium	51-2	597293	593191	588672	593052	0.73	cps
Yttrium	89-1	18515778	18391068	18294006	18400284	0.60	cps
Yttrium	89-2	5041980	5018489	4995797	5018755	0.46	cps
Zinc	66-2	2760795	2785947	2750730	2765824	0.66	cps
Zirconium	90-1	33542	34140	34160	33947	1.03	cps
Zirconium	91-1	7319	7449	7949	7572	4.39	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:37:41 DataFile Name : 049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14920671	14876861	14979541	14925691	0.35	cps
Antimony	121-1	5451940	5459809	5451320	5454356	0.09	cps
Arsenic	75-2	321697	322095	322837	322210	0.18	cps
Barium	135-1	7641639	7577594	7559851	7593028	0.57	cps
Barium	137-1	13255055	13109719	13133340	13166038	0.59	cps
Beryllium	9-1	1138623	1140949	1141073	1140215	0.12	cps
Bismuth	209-1	6364393	6456715	6399398	6406835	0.73	cps
Bismuth	209-2	5332680	5446979	5394616	5391425	1.06	cps
Bromine	81-1	15532	15135	15395	15354	1.31	cps
Bromine	81-2	130	187	160	159	17.84	cps
Cadmium	108-1	103305	100975	102176	102152	1.14	cps
Cadmium	106-1	147732	147103	147305	147380	0.22	cps
Cadmium	111-1	1266625	1276930	1267897	1270484	0.44	cps
Calcium	43-1	8532949	8416673	8441554	8463725	0.72	cps
Calcium	44-1	135192468	134662108	134767521	134874032	0.21	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2639930	2691756	2720287	2683991	1.52	cps
Cobalt	59-2	4177323	4221244	4175200	4191255	0.62	cps
Copper	63-2	29980554	29647425	29439207	29689062	0.92	cps
Dysprosium	156-1	343	337	433	371	14.55	cps
Dysprosium	156-2	537	523	623	561	9.68	cps
Erbium	164-1	410	463	363	412	12.14	cps
Erbium	164-2	277	270	273	273	1.22	cps
Gadolinium	160-1	297	307	390	331	15.48	cps
Gadolinium	160-2	467	443	507	472	6.78	cps
Holmium	165-1	11559479	11672198	11359794	11530490	1.37	cps
Holmium	165-2	8333238	8489802	8500020	8441020	1.11	cps
Indium	115-1	8785250	8800168	8630376	8738598	1.08	cps
Indium	115-2	3249970	3254904	3233077	3245984	0.35	cps
Iron	56-2	585265138	582677511	587090565	585011071	0.38	cps
Iron	57-2	14570857	14604699	14687549	14621035	0.41	cps
Iron	54-2	31732901	31938839	31950969	31874236	0.38	cps
Krypton	83-1	233	243	257	244	4.79	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:37:41 DataFile Name : 049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20792889	20755456	20736030	20761458	0.14	cps
Lead	207-1	18410694	18287851	18263128	18320558	0.43	cps
Lead	208-1	83835043	83990814	83389687	83738514	0.37	cps
Lithium	6-1	1988540	1956912	1934016	1959823	1.40	cps
Magnesium	24-2	129274015	128573688	130098168	129315290	0.59	cps
Manganese	55-2	20010352	20051892	20061210	20041151	0.14	cps
Molybdenum	94-1	22543069	22537697	22342675	22474480	0.51	cps
Molybdenum	95-1	32916773	32912298	32330273	32719781	1.03	cps
Molybdenum	96-1	35641184	35785118	35631454	35685918	0.24	cps
Molybdenum	97-1	20367177	20545493	20503183	20471951	0.46	cps
Molybdenum	98-1	52475764	52515901	52580021	52523895	0.10	cps
Neodymium	150-1	577	610	550	579	5.19	cps
Neodymium	150-2	237	173	267	226	21.12	cps
Nickel	60-2	988257	984913	989659	987609	0.25	cps
Phosphorus	31-2	158828	158525	160029	159127	0.50	cps
Potassium	39-2	78306562	77414479	78830120	78183721	0.92	cps
Rhodium	103-1	7937218	7931708	7832948	7900625	0.74	cps
Rhodium	103-2	5293467	5267816	5220620	5260634	0.70	cps
Scandium	45-1	5555290	5482038	5453450	5496926	0.96	cps
Scandium	45-2	525566	527961	526714	526747	0.23	cps
Selenium	82-1	89744	90421	90518	90227	0.47	cps
Selenium	77-2	9770	10090	9900	9920	1.62	cps
Selenium	78-2	32780	33184	33073	33012	0.63	cps
Silicon	28-1	52387921	52273429	52001573	52220974	0.38	cps
Silver	107-1	7192622	7169573	7128706	7163634	0.45	cps
Silver	109-1	6794634	6708702	6733299	6745545	0.66	cps
Sodium	23-2	207897084	209048984	208457917	208467995	0.28	cps
Strontium	86-1	48064314	48361453	48560641	48328803	0.52	cps
Strontium	88-1	422429167	423570154	423980114	423326478	0.19	cps
Sulfur	34-1	713014	700812	696741	703522	1.20	cps
Terbium	159-1	11894103	11798621	11740845	11811190	0.66	cps
Terbium	159-2	8379405	8521772	8412959	8438046	0.88	cps
Thallium	203-1	5246209	5194485	5285918	5242204	0.87	cps
Thallium	205-1	12294361	12477739	12483585	12418561	0.87	cps
Tin	118-1	4877757	4882121	4787078	4848986	1.11	cps
Titanium	47-1	8647354	8709140	8614980	8657158	0.55	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV002

Instrumnet Name :

P7

Client Sample ID :

CCV002

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:37:41

DataFile Name :

049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16510337	16701700	16817365	16676467	0.93	cps
Vanadium	51-2	2430371	2427426	2414767	2424188	0.34	cps
Yttrium	89-1	15431669	15306991	15209244	15315968	0.73	cps
Yttrium	89-2	4250127	4253029	4223017	4242058	0.39	cps
Zinc	66-2	4564617	4556669	4632039	4584442	0.90	cps
Zirconium	90-1	10415374	10375695	10372143	10387737	0.23	cps
Zirconium	91-1	2328077	2306719	2311588	2315461	0.48	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:40:26 DataFile Name : 050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1943	1943	1790	1892	4.68	cps
Antimony	121-1	3714	3654	3534	3634	2.52	cps
Arsenic	75-2	43	27	43	38	25.46	cps
Barium	135-1	863	897	853	871	2.60	cps
Barium	137-1	1697	1467	1443	1536	9.12	cps
Beryllium	9-1	162	122	98	127	25.41	cps
Bismuth	209-1	7300017	7280183	7253877	7278026	0.32	cps
Bismuth	209-2	6190571	6206950	5384564	5927362	7.93	cps
Bromine	81-1	15331	15518	14687	15179	2.87	cps
Bromine	81-2	97	97	137	110	20.99	cps
Cadmium	108-1	13	17	23	18	28.64	cps
Cadmium	106-1	3374	2940	3027	3114	7.37	cps
Cadmium	111-1	471	486	440	466	5.05	cps
Calcium	43-1	2587	2514	2314	2471	5.73	cps
Calcium	44-1	52207	49304	49020	50177	3.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1023	973	900	966	6.42	cps
Cobalt	59-2	297	270	277	281	4.94	cps
Copper	63-2	4998	4874	4828	4900	1.79	cps
Dysprosium	156-1	43	37	40	40	8.32	cps
Dysprosium	156-2	40	43	27	37	24.04	cps
Erbium	164-1	97	163	90	117	34.76	cps
Erbium	164-2	37	93	43	58	53.60	cps
Gadolinium	160-1	70	70	97	79	19.52	cps
Gadolinium	160-2	337	357	277	323	12.88	cps
Holmium	165-1	11778112	11767761	11555247	11700373	1.08	cps
Holmium	165-2	8678812	8709008	7529179	8305666	8.10	cps
Indium	115-1	9761726	9482060	9545200	9596329	1.53	cps
Indium	115-2	3629932	3572454	3150766	3451050	7.58	cps
Iron	56-2	88964	85659	83845	86156	3.01	cps
Iron	57-2	3004	3104	2947	3018	2.63	cps
Iron	54-2	6011	6008	5985	6001	0.24	cps
Krypton	83-1	207	217	253	226	10.89	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:40:26 DataFile Name : 050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5998	5791	5705	5831	2.59	cps
Lead	207-1	5238	5004	5001	5081	2.67	cps
Lead	208-1	23682	22714	22674	23023	2.48	cps
Lithium	6-1	2050274	2057184	2033999	2047153	0.58	cps
Magnesium	24-2	8666	8369	7885	8307	4.74	cps
Manganese	55-2	2824	2834	2624	2760	4.29	cps
Molybdenum	94-1	2130	1910	2227	2089	7.77	cps
Molybdenum	95-1	2640	2330	2227	2399	8.97	cps
Molybdenum	96-1	2794	2590	2600	2661	4.31	cps
Molybdenum	97-1	1727	1427	1533	1562	9.74	cps
Molybdenum	98-1	4024	3751	3477	3751	7.29	cps
Neodymium	150-1	50	70	50	57	20.38	cps
Neodymium	150-2	37	23	47	36	32.93	cps
Nickel	60-2	157	213	160	177	18.00	cps
Phosphorus	31-2	163	157	150	157	4.26	cps
Potassium	39-2	67264	66089	64897	66084	1.79	cps
Rhodium	103-1	8863664	8771956	8771307	8802309	0.60	cps
Rhodium	103-2	6079483	5901138	5226234	5735618	7.85	cps
Scandium	45-1	5576549	5556817	5485444	5539603	0.87	cps
Scandium	45-2	529312	526571	468513	508132	6.76	cps
Selenium	82-1	528	450	460	479	8.83	cps
Selenium	77-2	7	7	0	4	86.60	cps
Selenium	78-2	287	247	313	282	11.89	cps
Silicon	28-1	306850	300159	297405	301471	1.61	cps
Silver	107-1	1327	1263	897	1162	19.98	cps
Silver	109-1	1290	1000	887	1059	19.65	cps
Sodium	23-2	69482	67534	65853	67623	2.69	cps
Strontium	86-1	3430	3100	3070	3200	6.24	cps
Strontium	88-1	28234	25599	24794	26209	6.86	cps
Sulfur	34-1	174521	173948	172448	173639	0.62	cps
Terbium	159-1	12160492	12024828	11920128	12035149	1.00	cps
Terbium	159-2	8833752	8608334	7784775	8408954	6.57	cps
Thallium	203-1	1027	987	800	938	12.90	cps
Thallium	205-1	2414	2090	1867	2124	12.95	cps
Tin	118-1	2760	2607	2774	2714	3.41	cps
Titanium	47-1	730	673	647	683	6.23	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCB002

Instrumnet Name :

P7

Client Sample ID :

CCB002

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:40:26

DataFile Name :

050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	870	797	730	799	8.77	cps
Vanadium	51-2	210	220	223	218	3.19	cps
Yttrium	89-1	15780548	15539962	15605399	15641970	0.80	cps
Yttrium	89-2	4410865	4345640	3847517	4201340	7.33	cps
Zinc	66-2	1403	1390	1313	1369	3.55	cps
Zirconium	90-1	2340	2107	2240	2229	5.25	cps
Zirconium	91-1	503	500	540	514	4.31	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-04 Instrumnet Name : P7
Client Sample ID : MH2GK3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:43:41 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4897850	4820663	4818620	4845711	0.93	cps
Antimony	121-1	31127	30826	31181	31045	0.62	cps
Arsenic	75-2	44487	43901	43798	44062	0.84	cps
Barium	135-1	3037288	3065312	3010111	3037570	0.91	cps
Barium	137-1	5201820	5141478	5169944	5171081	0.58	cps
Beryllium	9-1	10921	10941	11168	11010	1.25	cps
Bismuth	209-1	7194313	7240183	7021261	7151919	1.61	cps
Bismuth	209-2	6028092	5772999	6388826	6063306	5.10	cps
Bromine	81-1	32666	33789	34313	33589	2.51	cps
Bromine	81-2	3941	3987	3921	3949	0.87	cps
Cadmium	108-1	3347	3604	3557	3503	3.90	cps
Cadmium	106-1	8429	8366	7966	8254	3.05	cps
Cadmium	111-1	43092	43253	43289	43212	0.24	cps
Calcium	43-1	5392650	5415046	5489259	5432319	0.93	cps
Calcium	44-1	87250152	88912332	89788072	88650185	1.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	485315	484083	480664	483354	0.50	cps
Cobalt	59-2	165134	164426	163800	164454	0.41	cps
Copper	63-2	1424485	1426707	1418473	1423222	0.30	cps
Dysprosium	156-1	104922	106520	105808	105750	0.76	cps
Dysprosium	156-2	90227	88731	89258	89406	0.85	cps
Erbium	164-1	96437	97450	95751	96546	0.89	cps
Erbium	164-2	71599	70530	70607	70912	0.84	cps
Gadolinium	160-1	106082	107031	108163	107092	0.97	cps
Gadolinium	160-2	84875	84429	82508	83937	1.50	cps
Holmium	165-1	12288200	12242926	12144427	12225184	0.60	cps
Holmium	165-2	8995524	8618687	9590538	9068250	5.40	cps
Indium	115-1	9950058	9962015	9991787	9967953	0.22	cps
Indium	115-2	3730727	3452814	3908138	3697227	6.21	cps
Iron	56-2	183645224	184048744	182476757	183390242	0.45	cps
Iron	57-2	4621806	4655878	4608879	4628854	0.52	cps
Iron	54-2	10086295	9959205	9887126	9977542	1.01	cps
Krypton	83-1	357	433	353	381	11.87	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-04 Instrumnet Name : P7
Client Sample ID : MH2GK3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:43:41 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7485594	7461718	7352740	7433351	0.95	cps
Lead	207-1	6430597	6487663	6400857	6439706	0.69	cps
Lead	208-1	29281575	29601634	29033879	29305696	0.97	cps
Lithium	6-1	2158153	2172381	2175638	2168724	0.43	cps
Magnesium	24-2	11352021	11330080	11173821	11285307	0.86	cps
Manganese	55-2	8379743	8341793	8317138	8346225	0.38	cps
Molybdenum	94-1	40860	41331	41412	41201	0.72	cps
Molybdenum	95-1	27359	27369	27319	27349	0.10	cps
Molybdenum	96-1	35319	37244	37227	36597	3.02	cps
Molybdenum	97-1	16710	17237	17524	17157	2.41	cps
Molybdenum	98-1	43779	43993	44177	43983	0.45	cps
Neodymium	150-1	168436	169762	168079	168759	0.53	cps
Neodymium	150-2	106250	105901	105581	105911	0.32	cps
Nickel	60-2	186407	185213	185108	185576	0.39	cps
Phosphorus	31-2	121887	121981	120429	121432	0.72	cps
Potassium	39-2	5949464	5903709	5872828	5908667	0.65	cps
Rhodium	103-1	9105995	9171754	9023604	9100451	0.82	cps
Rhodium	103-2	6091045	5708529	6449612	6083062	6.09	cps
Scandium	45-1	6042879	6123487	6058883	6075083	0.70	cps
Scandium	45-2	577361	537462	620173	578332	7.15	cps
Selenium	82-1	1767	1674	1762	1734	3.00	cps
Selenium	77-2	557	540	600	566	5.48	cps
Selenium	78-2	997	940	1047	994	5.37	cps
Silicon	28-1	94757469	96647619	96840485	96081857	1.20	cps
Silver	107-1	42402	41857	42114	42124	0.65	cps
Silver	109-1	40122	39196	38929	39416	1.59	cps
Sodium	23-2	928168	934893	928979	930680	0.39	cps
Strontium	86-1	3411465	3466470	3462343	3446759	0.89	cps
Strontium	88-1	29831957	30202130	30102367	30045485	0.64	cps
Sulfur	34-1	472614	475955	483995	477521	1.23	cps
Terbium	159-1	12752343	12674268	12615027	12680546	0.54	cps
Terbium	159-2	8948142	8457931	9565980	8990684	6.18	cps
Thallium	203-1	15342	15335	15459	15379	0.45	cps
Thallium	205-1	37171	36405	36703	36760	1.05	cps
Tin	118-1	211298	211545	213025	211956	0.44	cps
Titanium	47-1	225275	233027	232035	230112	1.83	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-04

Instrumnet Name :

P7

Client Sample ID :

MH2GK3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:43:41

DataFile Name :

051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	237885	238512	237505	237967	0.21	cps
Vanadium	51-2	494041	488632	489727	490800	0.58	cps
Yttrium	89-1	18271868	18311531	18283785	18289061	0.11	cps
Yttrium	89-2	5116480	4856512	5362803	5111932	4.95	cps
Zinc	66-2	2077345	2057650	2027393	2054130	1.22	cps
Zirconium	90-1	71111	72459	73738	72436	1.81	cps
Zirconium	91-1	15832	16266	16780	16293	2.91	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-05 Instrumnet Name : P7
Client Sample ID : MH2GK4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:46:41 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5505036	5560366	5503728	5523043	0.59	cps
Antimony	121-1	40002	40417	40654	40358	0.82	cps
Arsenic	75-2	99692	99598	99044	99444	0.35	cps
Barium	135-1	3739630	3733200	3681407	3718079	0.86	cps
Barium	137-1	6387468	6317361	6357731	6354187	0.55	cps
Beryllium	9-1	13350	13680	13436	13488	1.27	cps
Bismuth	209-1	7186779	7052167	7183678	7140874	1.08	cps
Bismuth	209-2	5949089	6024179	5963533	5978934	0.67	cps
Bromine	81-1	33331	34544	34220	34031	1.84	cps
Bromine	81-2	3967	4227	3951	4048	3.83	cps
Cadmium	108-1	4838	4567	4767	4724	2.97	cps
Cadmium	106-1	10370	10431	10284	10362	0.71	cps
Cadmium	111-1	62582	64287	63664	63511	1.36	cps
Calcium	43-1	7506693	7599979	7592509	7566394	0.69	cps
Calcium	44-1	121714172	122469062	121911042	122031425	0.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	290955	293143	293022	292373	0.42	cps
Cobalt	59-2	214944	214924	215153	215007	0.06	cps
Copper	63-2	1912229	1927966	1905244	1915146	0.61	cps
Dysprosium	156-1	134424	137640	135857	135974	1.19	cps
Dysprosium	156-2	112237	111844	112758	112280	0.41	cps
Erbium	164-1	124448	124469	123584	124167	0.41	cps
Erbium	164-2	90584	89880	91024	90496	0.64	cps
Gadolinium	160-1	137568	136056	136114	136580	0.63	cps
Gadolinium	160-2	107518	105990	105678	106396	0.93	cps
Holmium	165-1	12276114	12153787	12110914	12180272	0.70	cps
Holmium	165-2	8927927	8947276	9001224	8958809	0.42	cps
Indium	115-1	10051193	9897169	9887592	9945318	0.92	cps
Indium	115-2	3661802	3659548	3693094	3671481	0.51	cps
Iron	56-2	190774764	188863524	190263811	189967366	0.52	cps
Iron	57-2	4872777	4824015	4855112	4850635	0.51	cps
Iron	54-2	10544009	10327923	10456001	10442644	1.04	cps
Krypton	83-1	407	410	517	444	14.08	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-05 Instrumnet Name : P7
Client Sample ID : MH2GK4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:46:41 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11383690	11289544	11287371	11320202	0.49	cps
Lead	207-1	9934586	9805782	9724643	9821670	1.08	cps
Lead	208-1	45139423	44497690	45072130	44903081	0.79	cps
Lithium	6-1	2127415	2112222	2176324	2138654	1.57	cps
Magnesium	24-2	11467082	11362691	11413702	11414492	0.46	cps
Manganese	55-2	7536664	7482588	7474927	7498060	0.45	cps
Molybdenum	94-1	35075	34718	36034	35276	1.93	cps
Molybdenum	95-1	19747	19864	20494	20035	2.01	cps
Molybdenum	96-1	28261	28812	28568	28547	0.97	cps
Molybdenum	97-1	12479	12269	12335	12361	0.87	cps
Molybdenum	98-1	31213	32215	31654	31694	1.58	cps
Neodymium	150-1	210120	213213	210177	211170	0.84	cps
Neodymium	150-2	130652	130376	131261	130763	0.35	cps
Nickel	60-2	280788	281838	280262	280963	0.29	cps
Phosphorus	31-2	84746	84699	84626	84690	0.07	cps
Potassium	39-2	3762869	3704832	3686436	3718046	1.07	cps
Rhodium	103-1	9073642	9029709	8931721	9011691	0.81	cps
Rhodium	103-2	5964721	6010584	5994109	5989805	0.39	cps
Scandium	45-1	6216218	6262240	6222987	6233815	0.40	cps
Scandium	45-2	581432	581601	578783	580605	0.27	cps
Selenium	82-1	1460	1506	1411	1459	3.28	cps
Selenium	77-2	707	663	680	683	3.20	cps
Selenium	78-2	927	877	910	904	2.82	cps
Silicon	28-1	97895289	99334209	98481395	98570297	0.73	cps
Silver	107-1	61058	62634	62641	62111	1.47	cps
Silver	109-1	58357	58618	58959	58645	0.51	cps
Sodium	23-2	1030495	1035605	1034720	1033607	0.26	cps
Strontium	86-1	4183853	4186738	4160737	4177109	0.34	cps
Strontium	88-1	36425267	36443335	36571664	36480089	0.22	cps
Sulfur	34-1	407789	411067	406180	408345	0.61	cps
Terbium	159-1	12770144	12525104	12380427	12558558	1.57	cps
Terbium	159-2	8912296	8854088	8922737	8896373	0.42	cps
Thallium	203-1	18960	19404	18443	18935	2.54	cps
Thallium	205-1	45285	45362	44713	45120	0.79	cps
Tin	118-1	92367	93635	92582	92861	0.73	cps
Titanium	47-1	193288	191693	190107	191696	0.83	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-05

Instrumnet Name :

P7

Client Sample ID :

MH2GK4

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:46:41

DataFile Name :

052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	238068	234591	235402	236020	0.77	cps
Vanadium	51-2	556498	552037	551392	553309	0.50	cps
Yttrium	89-1	18963236	19000160	18636691	18866695	1.06	cps
Yttrium	89-2	5149378	5176162	5203859	5176466	0.53	cps
Zinc	66-2	2327632	2342393	2347847	2339291	0.45	cps
Zirconium	90-1	64872	66125	65147	65381	1.01	cps
Zirconium	91-1	14788	14874	14864	14842	0.32	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-06 Instrumnet Name : P7
Client Sample ID : MH2GK5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:49:40 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5770246	5701012	5702252	5724503	0.69	cps
Antimony	121-1	32704	33509	32624	32945	1.49	cps
Arsenic	75-2	41615	41775	41648	41679	0.20	cps
Barium	135-1	3872456	3900536	3907979	3893657	0.48	cps
Barium	137-1	6781727	6730542	6667363	6726544	0.85	cps
Beryllium	9-1	16587	17048	16470	16701	1.83	cps
Bismuth	209-1	6943091	7040054	6967774	6983640	0.72	cps
Bismuth	209-2	5894978	5940203	6040704	5958628	1.25	cps
Bromine	81-1	29823	30685	31066	30525	2.09	cps
Bromine	81-2	3470	3367	3427	3422	1.52	cps
Cadmium	108-1	5321	5531	5311	5388	2.31	cps
Cadmium	106-1	11331	11201	11348	11293	0.71	cps
Cadmium	111-1	73688	74392	74082	74054	0.48	cps
Calcium	43-1	9622478	9619168	9592436	9611361	0.17	cps
Calcium	44-1	156883491	155370968	156149328	156134595	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	243597	242973	244905	243825	0.40	cps
Cobalt	59-2	242231	242471	243671	242791	0.32	cps
Copper	63-2	1946950	1946584	1929386	1940974	0.52	cps
Dysprosium	156-1	159458	161157	160749	160455	0.55	cps
Dysprosium	156-2	132969	131135	133414	132506	0.91	cps
Erbium	164-1	149619	150653	151923	150731	0.77	cps
Erbium	164-2	108830	108285	107674	108263	0.53	cps
Gadolinium	160-1	163893	164811	161705	163469	0.98	cps
Gadolinium	160-2	127420	125573	127288	126760	0.81	cps
Holmium	165-1	12052525	12181199	12251218	12161647	0.83	cps
Holmium	165-2	8910618	8873769	8976004	8920130	0.58	cps
Indium	115-1	9749118	9992096	9874686	9871967	1.23	cps
Indium	115-2	3592530	3613361	3629090	3611660	0.51	cps
Iron	56-2	215010283	213798330	213624743	214144452	0.35	cps
Iron	57-2	5513953	5513585	5455101	5494213	0.62	cps
Iron	54-2	11807464	11698660	11797955	11768026	0.51	cps
Krypton	83-1	503	573	510	529	7.30	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-06 Instrumnet Name : P7
Client Sample ID : MH2GK5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:49:40 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13318701	13399854	13371404	13363320	0.31	cps
Lead	207-1	11466017	11698544	11592764	11585775	1.00	cps
Lead	208-1	51960889	53311854	53336421	52869722	1.49	cps
Lithium	6-1	2172564	2163928	2150246	2162246	0.52	cps
Magnesium	24-2	11933481	11880843	11930917	11915080	0.25	cps
Manganese	55-2	7805639	7804478	7810514	7806877	0.04	cps
Molybdenum	94-1	46654	47069	46597	46773	0.55	cps
Molybdenum	95-1	22090	22187	22133	22137	0.22	cps
Molybdenum	96-1	32626	33415	32960	33001	1.20	cps
Molybdenum	97-1	13770	13633	13626	13676	0.59	cps
Molybdenum	98-1	35473	35353	34985	35270	0.72	cps
Neodymium	150-1	248993	249812	249231	249346	0.17	cps
Neodymium	150-2	154934	155649	154287	154957	0.44	cps
Nickel	60-2	429377	425510	426763	427217	0.46	cps
Phosphorus	31-2	78791	76500	77140	77477	1.53	cps
Potassium	39-2	3328252	3327982	3393942	3350059	1.13	cps
Rhodium	103-1	8707917	9044447	8911123	8887829	1.91	cps
Rhodium	103-2	5936210	5836063	5888646	5886973	0.85	cps
Scandium	45-1	6153729	6266794	6293561	6238028	1.19	cps
Scandium	45-2	591346	588819	591078	590414	0.24	cps
Selenium	82-1	1413	1407	1480	1433	2.84	cps
Selenium	77-2	777	703	667	716	7.83	cps
Selenium	78-2	1040	997	960	999	4.01	cps
Silicon	28-1	82517039	83222985	83126770	82955598	0.46	cps
Silver	107-1	76751	76999	78387	77379	1.14	cps
Silver	109-1	72226	72091	72885	72401	0.59	cps
Sodium	23-2	1436897	1405493	1405617	1416002	1.28	cps
Strontium	86-1	5170441	5201877	5198656	5190325	0.33	cps
Strontium	88-1	44889951	45093699	44771568	44918406	0.36	cps
Sulfur	34-1	354447	358313	358578	357113	0.65	cps
Terbium	159-1	12221179	12765862	12449658	12478900	2.19	cps
Terbium	159-2	9042364	8782078	8915545	8913329	1.46	cps
Thallium	203-1	20118	20112	20108	20113	0.03	cps
Thallium	205-1	47700	46991	47198	47296	0.77	cps
Tin	118-1	119288	121860	120240	120463	1.08	cps
Titanium	47-1	220090	223187	226587	223288	1.46	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-06

Instrumnet Name :

P7

Client Sample ID :

MH2GK5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:49:40

DataFile Name :

053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	297871	295088	291827	294929	1.03	cps
Vanadium	51-2	601247	593769	597832	597616	0.63	cps
Yttrium	89-1	18916140	19180444	19171054	19089213	0.79	cps
Yttrium	89-2	5313278	5325081	5262318	5300226	0.63	cps
Zinc	66-2	2387187	2416533	2423820	2409180	0.80	cps
Zirconium	90-1	91952	93012	93163	92709	0.71	cps
Zirconium	91-1	20364	21593	20992	20983	2.93	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-07 Instrumnet Name : P7
Client Sample ID : MH2GK6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:53:04 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6434083	6405703	6375525	6405104	0.46	cps
Antimony	121-1	32430	32350	31418	32066	1.75	cps
Arsenic	75-2	47790	47466	48372	47876	0.96	cps
Barium	135-1	4074173	4135528	4097480	4102394	0.75	cps
Barium	137-1	6952471	7032509	6939426	6974802	0.72	cps
Beryllium	9-1	18743	19144	18762	18883	1.20	cps
Bismuth	209-1	6960927	6921905	6929917	6937583	0.30	cps
Bismuth	209-2	5620551	6008591	5886945	5838696	3.40	cps
Bromine	81-1	29072	29780	29827	29560	1.43	cps
Bromine	81-2	3277	3247	3554	3359	5.03	cps
Cadmium	108-1	6808	6612	6802	6741	1.66	cps
Cadmium	106-1	12712	12742	12872	12776	0.67	cps
Cadmium	111-1	89606	89985	91183	90258	0.91	cps
Calcium	43-1	9397178	9466690	9420790	9428219	0.37	cps
Calcium	44-1	152362228	153302904	152695538	152786890	0.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	227331	225383	228011	226909	0.60	cps
Cobalt	59-2	269129	264327	265622	266360	0.93	cps
Copper	63-2	2533484	2499037	2544009	2525510	0.93	cps
Dysprosium	156-1	167720	168866	169264	168617	0.48	cps
Dysprosium	156-2	139875	139024	139134	139345	0.33	cps
Erbium	164-1	157150	157331	157608	157363	0.15	cps
Erbium	164-2	116773	113134	114215	114707	1.63	cps
Gadolinium	160-1	170966	171259	171543	171256	0.17	cps
Gadolinium	160-2	133155	130293	131231	131560	1.11	cps
Holmium	165-1	11942550	11962013	11641659	11848741	1.52	cps
Holmium	165-2	8379256	9032697	8786651	8732868	3.78	cps
Indium	115-1	9755021	9693767	9694823	9714537	0.36	cps
Indium	115-2	3374230	3620634	3566510	3520458	3.68	cps
Iron	56-2	240778216	238180283	239614303	239524268	0.54	cps
Iron	57-2	6126715	6159438	6119125	6135092	0.35	cps
Iron	54-2	13195771	13006917	13178444	13127044	0.80	cps
Krypton	83-1	427	480	517	474	9.54	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-07 Instrumnet Name : P7
Client Sample ID : MH2GK6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:53:04 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	19950331	19929986	19880165	19920161	0.18	cps
Lead	207-1	17299506	17493141	17511883	17434843	0.67	cps
Lead	208-1	79698435	79896893	79900663	79831997	0.14	cps
Lithium	6-1	2139929	2117386	2080755	2112690	1.41	cps
Magnesium	24-2	12072771	11968641	12018650	12020021	0.43	cps
Manganese	55-2	9422428	9354175	9368692	9381765	0.38	cps
Molybdenum	94-1	51630	51561	50932	51374	0.75	cps
Molybdenum	95-1	25823	25733	25773	25776	0.18	cps
Molybdenum	96-1	37231	37107	37191	37176	0.17	cps
Molybdenum	97-1	16012	15598	16009	15873	1.50	cps
Molybdenum	98-1	40730	40359	40656	40582	0.48	cps
Neodymium	150-1	260255	267371	259911	262512	1.60	cps
Neodymium	150-2	162347	160172	160961	161160	0.68	cps
Nickel	60-2	418484	409098	415927	414503	1.17	cps
Phosphorus	31-2	77652	79247	76681	77860	1.66	cps
Potassium	39-2	3299099	3285642	3273238	3285993	0.39	cps
Rhodium	103-1	8747989	8726550	8680968	8718502	0.39	cps
Rhodium	103-2	5605856	5928561	5878943	5804453	2.99	cps
Scandium	45-1	6212770	6164604	6175718	6184364	0.41	cps
Scandium	45-2	555046	601499	582119	579555	4.03	cps
Selenium	82-1	1419	1340	1335	1365	3.45	cps
Selenium	77-2	793	717	747	752	5.14	cps
Selenium	78-2	910	873	933	906	3.34	cps
Silicon	28-1	84625342	85855792	86270009	85583714	1.00	cps
Silver	107-1	112768	112996	112075	112613	0.43	cps
Silver	109-1	104577	105349	106874	105600	1.11	cps
Sodium	23-2	1968667	1966543	1973698	1969636	0.19	cps
Strontium	86-1	5521860	5541302	5499063	5520742	0.38	cps
Strontium	88-1	47817404	48323088	47978896	48039796	0.54	cps
Sulfur	34-1	362086	365657	366908	364884	0.69	cps
Terbium	159-1	12378869	12167026	12298897	12281597	0.87	cps
Terbium	159-2	8331054	9074905	8799935	8735298	4.31	cps
Thallium	203-1	18703	18346	18900	18650	1.51	cps
Thallium	205-1	43479	43964	44168	43871	0.81	cps
Tin	118-1	140420	140578	139538	140179	0.40	cps
Titanium	47-1	268349	271443	273180	270990	0.90	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-07 Instrumnet Name : P7
Client Sample ID : MH2GK6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:53:04 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	314816	319453	317004	317091	0.73	cps
Vanadium	51-2	633363	629918	629853	631045	0.32	cps
Yttrium	89-1	19134603	18937365	18958899	19010289	0.57	cps
Yttrium	89-2	5153551	5398636	5262693	5271627	2.33	cps
Zinc	66-2	2890410	2880104	2906375	2892296	0.46	cps
Zirconium	90-1	100695	102397	100511	101201	1.03	cps
Zirconium	91-1	22374	22748	22795	22639	1.02	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-04 Instrumnet Name : P7
Client Sample ID : MH2GM1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:56:03 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5144594	5111720	5148121	5134812	0.39	cps
Antimony	121-1	45498	46150	45555	45735	0.79	cps
Arsenic	75-2	45209	45312	45272	45264	0.12	cps
Barium	135-1	2788126	2726900	2783889	2766305	1.24	cps
Barium	137-1	4760688	4765700	4795640	4774010	0.40	cps
Beryllium	9-1	17833	17745	17674	17751	0.45	cps
Bismuth	209-1	6866961	6760341	6821591	6816298	0.78	cps
Bismuth	209-2	5678117	5640905	5667004	5662009	0.34	cps
Bromine	81-1	28214	29149	29476	28946	2.26	cps
Bromine	81-2	3157	3140	3177	3158	0.58	cps
Cadmium	108-1	5544	5564	5728	5612	1.79	cps
Cadmium	106-1	11388	11218	11611	11406	1.73	cps
Cadmium	111-1	70572	69871	70999	70480	0.81	cps
Calcium	43-1	13278201	13462181	13400557	13380313	0.70	cps
Calcium	44-1	215573143	216840550	217462163	216625286	0.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	304077	305088	304186	304451	0.18	cps
Cobalt	59-2	318220	316105	316405	316910	0.36	cps
Copper	63-2	2950197	2922893	2971872	2948321	0.83	cps
Dysprosium	156-1	168630	169885	171281	169932	0.78	cps
Dysprosium	156-2	138240	138768	139913	138973	0.62	cps
Erbium	164-1	157062	157510	157962	157511	0.29	cps
Erbium	164-2	116070	114861	116457	115796	0.72	cps
Gadolinium	160-1	173902	173713	174766	174127	0.32	cps
Gadolinium	160-2	134960	135484	136645	135696	0.64	cps
Holmium	165-1	11964968	11713108	11592134	11756737	1.62	cps
Holmium	165-2	8552157	8530464	8525831	8536151	0.16	cps
Indium	115-1	9566824	9511816	9495417	9524686	0.39	cps
Indium	115-2	3505335	3481618	3422060	3469671	1.24	cps
Iron	56-2	432691220	431236087	430096740	431341349	0.30	cps
Iron	57-2	10877909	10882907	10932437	10897751	0.28	cps
Iron	54-2	23699648	23565484	23470965	23578699	0.49	cps
Krypton	83-1	430	570	423	474	17.46	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-04 Instrumnet Name : P7
Client Sample ID : MH2GM1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:56:03 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15873154	16123237	16163281	16053224	0.98	cps
Lead	207-1	14455548	14467112	14625466	14516042	0.65	cps
Lead	208-1	65180535	64585210	65792969	65186238	0.93	cps
Lithium	6-1	2050317	2025857	2052524	2042899	0.72	cps
Magnesium	24-2	13159474	13216133	13280612	13218740	0.46	cps
Manganese	55-2	16583699	16533676	16509671	16542349	0.23	cps
Molybdenum	94-1	123038	124453	125138	124210	0.86	cps
Molybdenum	95-1	135668	135453	136842	135988	0.55	cps
Molybdenum	96-1	157019	159360	160830	159070	1.21	cps
Molybdenum	97-1	83755	83932	83992	83893	0.15	cps
Molybdenum	98-1	213141	214867	215033	214347	0.49	cps
Neodymium	150-1	259021	263770	263369	262053	1.01	cps
Neodymium	150-2	161864	162434	163638	162646	0.56	cps
Nickel	60-2	778184	778540	779993	778906	0.12	cps
Phosphorus	31-2	87046	86818	88262	87375	0.89	cps
Potassium	39-2	4343388	4280681	4288577	4304216	0.79	cps
Rhodium	103-1	8394616	8289416	8373807	8352613	0.67	cps
Rhodium	103-2	5623050	5640665	5608908	5624208	0.28	cps
Scandium	45-1	6131181	6147900	6087625	6122235	0.51	cps
Scandium	45-2	574783	562966	568263	568671	1.04	cps
Selenium	82-1	2679	2787	2920	2795	4.32	cps
Selenium	77-2	940	867	950	919	4.95	cps
Selenium	78-2	1437	1447	1473	1452	1.31	cps
Silicon	28-1	106146495	107945122	107887055	107326224	0.95	cps
Silver	107-1	75619	76121	77217	76319	1.07	cps
Silver	109-1	70376	71120	71338	70945	0.71	cps
Sodium	23-2	1086190	1104168	1121667	1104008	1.61	cps
Strontium	86-1	6648721	6662242	6687588	6666184	0.30	cps
Strontium	88-1	57940481	58385941	58546881	58291101	0.54	cps
Sulfur	34-1	3522065	3551895	3576447	3550136	0.77	cps
Terbium	159-1	12298109	12179156	12177466	12218244	0.57	cps
Terbium	159-2	8459996	8614512	8659051	8577853	1.22	cps
Thallium	203-1	41252	41550	41449	41417	0.37	cps
Thallium	205-1	97332	99215	97943	98163	0.98	cps
Tin	118-1	74381	73737	74870	74329	0.76	cps
Titanium	47-1	223123	226898	228465	226162	1.21	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-04

Instrumnet Name :P7

Client Sample ID :MH2GM1

Dilution Factor :1

Date & Time Acquired :2024-10-31 22:56:03

DataFile Name :055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	475834	479517	480388	478579	0.51	cps
Vanadium	51-2	930158	921055	921691	924302	0.55	cps
Yttrium	89-1	18465781	18502216	18490902	18486299	0.10	cps
Yttrium	89-2	5130826	5104564	5124827	5120072	0.27	cps
Zinc	66-2	6440266	6414081	6413961	6422769	0.24	cps
Zirconium	90-1	127719	129929	130958	129535	1.28	cps
Zirconium	91-1	28625	28762	29182	28856	1.01	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-05 Instrumnet Name : P7
Client Sample ID : MH2GM2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:59:02 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3822150	3797910	3822014	3814025	0.37	cps
Antimony	121-1	32393	32761	32965	32706	0.89	cps
Arsenic	75-2	38339	38537	37989	38288	0.72	cps
Barium	135-1	1373583	1376391	1384873	1378282	0.43	cps
Barium	137-1	2596396	2595493	2562917	2584935	0.74	cps
Beryllium	9-1	17275	17556	17333	17388	0.85	cps
Bismuth	209-1	7039971	7001365	6784587	6941974	1.98	cps
Bismuth	209-2	5710875	5790710	5628293	5709959	1.42	cps
Bromine	81-1	24634	25806	26344	25594	3.42	cps
Bromine	81-2	2567	2637	2624	2609	1.42	cps
Cadmium	108-1	4561	4697	4571	4610	1.65	cps
Cadmium	106-1	9773	9957	9687	9806	1.41	cps
Cadmium	111-1	58709	58591	58228	58509	0.43	cps
Calcium	43-1	13845956	13737420	13801218	13794865	0.40	cps
Calcium	44-1	223546817	224198670	225420803	224388763	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	206298	204946	205984	205743	0.34	cps
Cobalt	59-2	266388	266240	268054	266894	0.38	cps
Copper	63-2	2206570	2265259	2229558	2233796	1.32	cps
Dysprosium	156-1	143559	144472	142935	143655	0.54	cps
Dysprosium	156-2	118401	116037	116424	116954	1.08	cps
Erbium	164-1	134856	137688	135699	136081	1.07	cps
Erbium	164-2	99629	97702	97793	98374	1.11	cps
Gadolinium	160-1	148198	150048	151277	149841	1.03	cps
Gadolinium	160-2	115588	114896	114964	115149	0.33	cps
Holmium	165-1	12005515	11987748	11670807	11888023	1.58	cps
Holmium	165-2	8687352	8541444	8552176	8593657	0.95	cps
Indium	115-1	9633106	9460069	9637478	9576884	1.06	cps
Indium	115-2	3477686	3453462	3480221	3470456	0.43	cps
Iron	56-2	341353382	346954208	341804235	343370608	0.91	cps
Iron	57-2	8762553	8710509	8791228	8754763	0.47	cps
Iron	54-2	18635925	18662335	18625398	18641219	0.10	cps
Krypton	83-1	497	503	487	496	1.69	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-05 Instrumnet Name : P7
Client Sample ID : MH2GM2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 22:59:02 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12508939	12550550	12378216	12479235	0.72	cps
Lead	207-1	11357027	11216197	11182049	11251758	0.82	cps
Lead	208-1	51206366	50316958	49902025	50475116	1.32	cps
Lithium	6-1	2037321	2065488	2042345	2048385	0.73	cps
Magnesium	24-2	10880208	10910177	10781661	10857349	0.62	cps
Manganese	55-2	12023091	12053348	11978362	12018267	0.31	cps
Molybdenum	94-1	93177	94596	94596	94123	0.87	cps
Molybdenum	95-1	108431	107914	107850	108065	0.30	cps
Molybdenum	96-1	125422	126088	126824	126111	0.56	cps
Molybdenum	97-1	65908	67153	67592	66884	1.31	cps
Molybdenum	98-1	169440	172360	171173	170991	0.86	cps
Neodymium	150-1	221911	222008	222323	222081	0.10	cps
Neodymium	150-2	137371	135797	135369	136179	0.77	cps
Nickel	60-2	363597	361716	361157	362157	0.35	cps
Phosphorus	31-2	62206	61885	62460	62183	0.46	cps
Potassium	39-2	2561623	2510199	2521172	2530998	1.07	cps
Rhodium	103-1	8521063	8481183	8397704	8466650	0.74	cps
Rhodium	103-2	5581433	5611751	5746408	5646531	1.56	cps
Scandium	45-1	6133325	6077704	6073527	6094852	0.55	cps
Scandium	45-2	563908	561237	565491	563545	0.38	cps
Selenium	82-1	2578	2588	2549	2572	0.78	cps
Selenium	77-2	737	790	753	760	3.59	cps
Selenium	78-2	1273	1393	1330	1332	4.51	cps
Silicon	28-1	85583652	85778882	86108552	85823695	0.31	cps
Silver	107-1	67084	67010	68179	67425	0.97	cps
Silver	109-1	62330	63468	63455	63084	1.04	cps
Sodium	23-2	854191	848804	851000	851332	0.32	cps
Strontium	86-1	6898031	6814055	6871962	6861349	0.63	cps
Strontium	88-1	59518184	60108011	59608467	59744887	0.53	cps
Sulfur	34-1	5198442	5185118	5218937	5200832	0.33	cps
Terbium	159-1	12413813	12208129	12222963	12281635	0.93	cps
Terbium	159-2	8584112	8465310	8596617	8548680	0.85	cps
Thallium	203-1	28557	28597	28770	28641	0.40	cps
Thallium	205-1	66803	67044	68823	67557	1.63	cps
Tin	118-1	86236	86099	86937	86424	0.52	cps
Titanium	47-1	127152	129761	130396	129103	1.33	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-05

Instrumnet Name :

P7

Client Sample ID :

MH2GM2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 22:59:02

DataFile Name :

056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	442449	452421	451516	448795	1.23	cps
Vanadium	51-2	732819	733426	730894	732380	0.18	cps
Yttrium	89-1	18067816	18136562	17940351	18048243	0.55	cps
Yttrium	89-2	4949890	4945652	4996204	4963915	0.56	cps
Zinc	66-2	4472748	4532497	4507947	4504397	0.67	cps
Zirconium	90-1	88578	90721	90131	89810	1.23	cps
Zirconium	91-1	19667	20274	20307	20083	1.80	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-06 Instrumnet Name : P7
Client Sample ID : MH2GM3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:02:02 DataFile Name : 057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4670211	4610537	4641110	4640619	0.64	cps
Antimony	121-1	34775	33679	34725	34393	1.80	cps
Arsenic	75-2	22991	23238	23552	23261	1.21	cps
Barium	135-1	2573438	2506095	2526602	2535378	1.36	cps
Barium	137-1	4321234	4369010	4343233	4344492	0.55	cps
Beryllium	9-1	10581	10754	10742	10692	0.90	cps
Bismuth	209-1	7093957	7094082	6965797	7051279	1.05	cps
Bismuth	209-2	5884385	5858932	5911565	5884961	0.45	cps
Bromine	81-1	27038	27703	27208	27316	1.26	cps
Bromine	81-2	2940	2664	2784	2796	4.96	cps
Cadmium	108-1	2760	2897	2937	2865	3.23	cps
Cadmium	106-1	7552	7782	7222	7519	3.75	cps
Cadmium	111-1	37538	36710	36733	36994	1.27	cps
Calcium	43-1	5909210	5977722	6020813	5969248	0.94	cps
Calcium	44-1	96219872	97087292	97076305	96794490	0.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	720656	718536	718877	719356	0.16	cps
Cobalt	59-2	199866	198653	199852	199457	0.35	cps
Copper	63-2	1084701	1087000	1097001	1089567	0.60	cps
Dysprosium	156-1	123104	121934	123770	122936	0.76	cps
Dysprosium	156-2	101765	102500	102876	102381	0.55	cps
Erbium	164-1	110704	111457	112428	111529	0.77	cps
Erbium	164-2	80862	82170	81405	81479	0.81	cps
Gadolinium	160-1	122604	123970	125587	124054	1.20	cps
Gadolinium	160-2	95781	94355	96603	95580	1.19	cps
Holmium	165-1	12031765	12008012	11814218	11951331	1.00	cps
Holmium	165-2	8757352	8663733	8645490	8688858	0.69	cps
Indium	115-1	9619516	9568720	9564059	9584098	0.32	cps
Indium	115-2	3530764	3497008	3510094	3512622	0.48	cps
Iron	56-2	217986490	220821663	219530503	219446219	0.65	cps
Iron	57-2	5550831	5514935	5580947	5548904	0.60	cps
Iron	54-2	11938158	11970501	12082925	11997195	0.63	cps
Krypton	83-1	390	393	357	380	5.33	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-06 Instrumnet Name : P7
Client Sample ID : MH2GM3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:02:02 DataFile Name : 057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6291829	6172491	6320385	6261568	1.25	cps
Lead	207-1	5196188	5310699	5348204	5285030	1.50	cps
Lead	208-1	24340580	24522354	24580393	24481109	0.51	cps
Lithium	6-1	2053574	2092851	2110487	2085637	1.40	cps
Magnesium	24-2	18070619	18119548	17923768	18037978	0.56	cps
Manganese	55-2	8188587	8221460	8213056	8207701	0.21	cps
Molybdenum	94-1	38871	38781	39369	39007	0.81	cps
Molybdenum	95-1	37976	37902	38046	37975	0.19	cps
Molybdenum	96-1	46216	47634	47594	47148	1.71	cps
Molybdenum	97-1	23806	23860	23649	23772	0.46	cps
Molybdenum	98-1	59424	60776	60357	60186	1.15	cps
Neodymium	150-1	190956	194645	193858	193153	1.01	cps
Neodymium	150-2	119693	118734	118607	119012	0.50	cps
Nickel	60-2	229158	228058	228221	228479	0.26	cps
Phosphorus	31-2	82464	82785	83010	82753	0.33	cps
Potassium	39-2	4004101	3997042	4000619	4000587	0.09	cps
Rhodium	103-1	8743112	8679634	8560925	8661224	1.07	cps
Rhodium	103-2	5778042	5726162	5753935	5752713	0.45	cps
Scandium	45-1	5789071	5783704	5749958	5774244	0.37	cps
Scandium	45-2	542466	546349	547012	545276	0.45	cps
Selenium	82-1	1468	1552	1537	1519	2.96	cps
Selenium	77-2	593	577	617	596	3.37	cps
Selenium	78-2	967	900	913	927	3.81	cps
Silicon	28-1	103507932	103048432	104556992	103704452	0.75	cps
Silver	107-1	24731	24621	24938	24763	0.65	cps
Silver	109-1	23122	23035	22811	22989	0.70	cps
Sodium	23-2	1656103	1677288	1644443	1659278	1.00	cps
Strontium	86-1	2712031	2764168	2755696	2743965	1.02	cps
Strontium	88-1	23731155	23795287	23735836	23754093	0.15	cps
Sulfur	34-1	390138	393276	393870	392428	0.51	cps
Terbium	159-1	12496600	12268891	12329616	12365036	0.95	cps
Terbium	159-2	8603433	8756485	8640499	8666806	0.92	cps
Thallium	203-1	18196	17868	18429	18164	1.55	cps
Thallium	205-1	43386	43158	43135	43226	0.32	cps
Tin	118-1	68041	67434	68267	67914	0.63	cps
Titanium	47-1	192441	193641	196113	194065	0.96	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-06

Instrumnet Name :

P7

Client Sample ID :

MH2GM3

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:02:02

DataFile Name :

057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	218417	220910	219532	219620	0.57	cps
Vanadium	51-2	548110	552910	547397	549472	0.55	cps
Yttrium	89-1	17931792	17706938	17606665	17748465	0.94	cps
Yttrium	89-2	4939424	4926269	4950167	4938620	0.24	cps
Zinc	66-2	1688847	1681526	1672806	1681060	0.48	cps
Zirconium	90-1	48105	48072	48129	48102	0.06	cps
Zirconium	91-1	10807	10881	11058	10915	1.18	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-07 Instrumnet Name : P7
Client Sample ID : MH2GM4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:05:02 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5668656	5673722	5689382	5677253	0.19	cps
Antimony	121-1	43516	43974	44057	43849	0.67	cps
Arsenic	75-2	31747	31336	31627	31570	0.67	cps
Barium	135-1	2388186	2390165	2366581	2381644	0.55	cps
Barium	137-1	4083201	4131585	4071888	4095558	0.77	cps
Beryllium	9-1	15740	15873	16198	15937	1.48	cps
Bismuth	209-1	6906858	7090378	6954038	6983758	1.36	cps
Bismuth	209-2	5436844	5672893	5815539	5641759	3.39	cps
Bromine	81-1	26574	26898	27041	26838	0.89	cps
Bromine	81-2	2837	2697	2920	2818	4.01	cps
Cadmium	108-1	4581	4531	4251	4454	3.99	cps
Cadmium	106-1	9587	9683	9883	9718	1.56	cps
Cadmium	111-1	60604	61506	61729	61280	0.97	cps
Calcium	43-1	10457394	10563715	10573738	10531616	0.61	cps
Calcium	44-1	168425684	169907661	170186571	169506639	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	464367	465750	466488	465535	0.23	cps
Cobalt	59-2	290009	288284	288637	288977	0.32	cps
Copper	63-2	1266554	1260381	1252336	1259757	0.57	cps
Dysprosium	156-1	162923	164414	164613	163983	0.56	cps
Dysprosium	156-2	133003	133450	135526	133993	1.00	cps
Erbium	164-1	150838	151081	150572	150830	0.17	cps
Erbium	164-2	110536	110210	110163	110303	0.18	cps
Gadolinium	160-1	166129	165984	167890	166668	0.64	cps
Gadolinium	160-2	128970	127514	129424	128636	0.78	cps
Holmium	165-1	12042249	12142597	11852877	12012575	1.22	cps
Holmium	165-2	8072113	8526937	8724296	8441115	3.96	cps
Indium	115-1	9502754	9593956	9362705	9486471	1.23	cps
Indium	115-2	3234014	3332812	3488612	3351813	3.83	cps
Iron	56-2	285749616	287123009	284658616	285843747	0.43	cps
Iron	57-2	7271122	7223801	7213574	7236166	0.42	cps
Iron	54-2	15598239	15674943	15578507	15617230	0.33	cps
Krypton	83-1	447	437	453	446	1.88	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-07 Instrumnet Name : P7
Client Sample ID : MH2GM4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:05:02 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7593569	7542099	7588389	7574685	0.37	cps
Lead	207-1	6476666	6409861	6365324	6417284	0.87	cps
Lead	208-1	29731240	29831923	29433297	29665487	0.70	cps
Lithium	6-1	2048892	2059906	2088480	2065759	0.99	cps
Magnesium	24-2	14215024	14158586	14231914	14201841	0.27	cps
Manganese	55-2	8260044	8317402	8245171	8274205	0.46	cps
Molybdenum	94-1	62315	62710	63815	62947	1.23	cps
Molybdenum	95-1	65355	66041	67009	66135	1.26	cps
Molybdenum	96-1	78067	79528	79974	79189	1.26	cps
Molybdenum	97-1	41188	41352	41903	41481	0.90	cps
Molybdenum	98-1	106286	105501	105289	105692	0.50	cps
Neodymium	150-1	252197	254194	255268	253887	0.61	cps
Neodymium	150-2	155894	157001	155501	156132	0.50	cps
Nickel	60-2	322057	320521	319999	320859	0.33	cps
Phosphorus	31-2	71673	70358	70381	70804	1.06	cps
Potassium	39-2	3339050	3342721	3342208	3341326	0.06	cps
Rhodium	103-1	8481341	8530695	8455058	8489031	0.45	cps
Rhodium	103-2	5319398	5452600	5640402	5470800	2.95	cps
Scandium	45-1	5796288	5854909	5842773	5831323	0.53	cps
Scandium	45-2	504927	527581	539796	524101	3.38	cps
Selenium	82-1	1944	1955	2083	1994	3.87	cps
Selenium	77-2	780	740	850	790	7.05	cps
Selenium	78-2	1160	1140	1120	1140	1.75	cps
Silicon	28-1	105647605	104923952	104839365	105136974	0.42	cps
Silver	107-1	37064	36967	37034	37022	0.13	cps
Silver	109-1	34524	34575	34865	34655	0.53	cps
Sodium	23-2	808431	811416	810687	810178	0.19	cps
Strontium	86-1	4656706	4635234	4653788	4648576	0.25	cps
Strontium	88-1	40874541	40670770	40898166	40814492	0.31	cps
Sulfur	34-1	2472284	2486400	2498381	2485689	0.53	cps
Terbium	159-1	12588814	12568948	12241477	12466413	1.56	cps
Terbium	159-2	8073434	8288205	8638209	8333283	3.42	cps
Thallium	203-1	32372	31416	32151	31980	1.56	cps
Thallium	205-1	77653	75280	74922	75952	1.95	cps
Tin	118-1	59171	59100	58722	58998	0.41	cps
Titanium	47-1	193760	197716	197335	196270	1.11	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-07 Instrumnet Name : P7
Client Sample ID : MH2GM4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:05:02 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	338129	334778	338362	337090	0.59	cps
Vanadium	51-2	744100	742215	739587	741967	0.31	cps
Yttrium	89-1	18331289	18524566	18307358	18387737	0.65	cps
Yttrium	89-2	4768661	4862202	5003524	4878129	2.42	cps
Zinc	66-2	1675018	1668715	1650297	1664677	0.77	cps
Zirconium	90-1	67923	69015	70263	69067	1.70	cps
Zirconium	91-1	15532	15585	15882	15666	1.20	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-08 Instrumnet Name : P7
Client Sample ID : MH2GM5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:08:00 DataFile Name : 059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3564321	3537235	3567385	3556313	0.47	cps
Antimony	121-1	30078	31558	31130	30922	2.46	cps
Arsenic	75-2	36672	36876	36441	36663	0.59	cps
Barium	135-1	1079193	1079879	1085794	1081622	0.34	cps
Barium	137-1	2052349	2062236	2036529	2050371	0.63	cps
Beryllium	9-1	14659	15126	14793	14860	1.62	cps
Bismuth	209-1	6978701	6975600	6942155	6965485	0.29	cps
Bismuth	209-2	6301457	5845550	5744986	5963998	4.97	cps
Bromine	81-1	21195	21773	21696	21555	1.46	cps
Bromine	81-2	1660	1803	1663	1709	4.79	cps
Cadmium	108-1	4591	4607	4871	4690	3.35	cps
Cadmium	106-1	9917	9847	9680	9815	1.24	cps
Cadmium	111-1	64196	64703	64998	64632	0.63	cps
Calcium	43-1	12645946	12626549	12641191	12637896	0.08	cps
Calcium	44-1	204439850	205271544	205190550	204967315	0.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	220719	222713	220627	221353	0.53	cps
Cobalt	59-2	276509	277207	277085	276934	0.13	cps
Copper	63-2	1045284	1050531	1056049	1050622	0.51	cps
Dysprosium	156-1	142380	141279	139811	141156	0.91	cps
Dysprosium	156-2	113696	113487	114347	113843	0.39	cps
Erbium	164-1	132360	133807	134328	133499	0.76	cps
Erbium	164-2	96007	97027	98034	97023	1.04	cps
Gadolinium	160-1	147831	149272	149410	148838	0.59	cps
Gadolinium	160-2	112863	114049	113768	113560	0.55	cps
Holmium	165-1	12245347	12032299	11879871	12052505	1.52	cps
Holmium	165-2	9665913	8790845	8668918	9041892	6.01	cps
Indium	115-1	9613622	9395797	9323445	9444288	1.60	cps
Indium	115-2	3827587	3511808	3410351	3583249	6.07	cps
Iron	56-2	328510935	327136428	328606902	328084755	0.25	cps
Iron	57-2	8403829	8274042	8325534	8334468	0.78	cps
Iron	54-2	17646776	17877328	17830533	17784879	0.69	cps
Krypton	83-1	483	440	420	448	7.23	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-08 Instrumnet Name : P7
Client Sample ID : MH2GM5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:08:00 DataFile Name : 059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4163324	4241846	4233511	4212893	1.02	cps
Lead	207-1	3637388	3710385	3717143	3688305	1.20	cps
Lead	208-1	16486191	16832541	16736442	16685058	1.07	cps
Lithium	6-1	2062424	2038456	2019418	2040099	1.06	cps
Magnesium	24-2	11261997	11308609	11421992	11330866	0.73	cps
Manganese	55-2	4684919	4655559	4636228	4658902	0.53	cps
Molybdenum	94-1	92526	93553	93720	93266	0.69	cps
Molybdenum	95-1	123777	125149	123559	124162	0.69	cps
Molybdenum	96-1	139433	141328	142682	141148	1.16	cps
Molybdenum	97-1	76318	77085	78090	77164	1.15	cps
Molybdenum	98-1	196355	198847	197358	197520	0.63	cps
Neodymium	150-1	213536	218335	216878	216250	1.14	cps
Neodymium	150-2	129786	133209	131486	131494	1.30	cps
Nickel	60-2	348474	352516	352839	351276	0.69	cps
Phosphorus	31-2	46042	46631	47152	46608	1.19	cps
Potassium	39-2	2171600	2164406	2161963	2165990	0.23	cps
Rhodium	103-1	8471129	8341033	8311944	8374702	1.01	cps
Rhodium	103-2	6226475	5765796	5541483	5844584	5.98	cps
Scandium	45-1	5980530	5848336	5902515	5910460	1.12	cps
Scandium	45-2	612255	556234	540492	569660	6.62	cps
Selenium	82-1	2496	2434	2694	2541	5.34	cps
Selenium	77-2	770	690	800	753	7.55	cps
Selenium	78-2	1293	1377	1207	1292	6.58	cps
Silicon	28-1	64950729	64978849	64946176	64958585	0.03	cps
Silver	107-1	33121	33529	33332	33327	0.61	cps
Silver	109-1	31230	31207	31361	31266	0.27	cps
Sodium	23-2	1040269	1040020	1039467	1039919	0.04	cps
Strontium	86-1	5789036	5740891	5742250	5757392	0.48	cps
Strontium	88-1	50142503	50744564	50829558	50572208	0.74	cps
Sulfur	34-1	5783281	5845211	5757185	5795226	0.78	cps
Terbium	159-1	12555316	12210946	12219846	12328702	1.59	cps
Terbium	159-2	9569792	8786472	8598739	8985001	5.73	cps
Thallium	203-1	42957	42760	43459	43059	0.84	cps
Thallium	205-1	102110	102882	103181	102725	0.54	cps
Tin	118-1	23032	23172	23539	23248	1.13	cps
Titanium	47-1	100918	98773	100091	99927	1.08	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-08

Instrumnet Name :

P7

Client Sample ID :

MH2GM5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:08:00

DataFile Name :

059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	404602	407560	406050	406071	0.36	cps
Vanadium	51-2	771927	774830	776369	774375	0.29	cps
Yttrium	89-1	18080450	17870562	17705096	17885369	1.05	cps
Yttrium	89-2	5403298	4910179	4859528	5057668	5.94	cps
Zinc	66-2	1355632	1371122	1366266	1364340	0.58	cps
Zirconium	90-1	60896	62579	61705	61727	1.36	cps
Zirconium	91-1	13847	14047	13726	13873	1.17	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-09 Instrumnet Name : P7
Client Sample ID : MH2GM6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:11:03 DataFile Name : 060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3309542	3376392	3322220	3336051	1.06	cps
Antimony	121-1	31110	31114	31074	31099	0.07	cps
Arsenic	75-2	38657	38827	39195	38893	0.71	cps
Barium	135-1	927753	923699	929677	927043	0.33	cps
Barium	137-1	1775494	1748682	1763882	1762686	0.76	cps
Beryllium	9-1	17291	17417	17477	17395	0.54	cps
Bismuth	209-1	7010272	7000844	7056829	7022649	0.43	cps
Bismuth	209-2	5768275	5774081	5795143	5779166	0.24	cps
Bromine	81-1	20131	20751	21142	20675	2.47	cps
Bromine	81-2	1690	1513	1610	1605	5.51	cps
Cadmium	108-1	5111	5151	5338	5200	2.33	cps
Cadmium	106-1	11044	11234	10734	11004	2.30	cps
Cadmium	111-1	74966	72936	73670	73857	1.39	cps
Calcium	43-1	15149681	15157894	15217761	15175112	0.24	cps
Calcium	44-1	245469783	247756690	247100650	246775707	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	193687	192661	193687	193345	0.31	cps
Cobalt	59-2	335989	334633	334121	334914	0.29	cps
Copper	63-2	1197139	1199202	1202179	1199507	0.21	cps
Dysprosium	156-1	157085	157867	157115	157356	0.28	cps
Dysprosium	156-2	125979	124987	125612	125526	0.40	cps
Erbium	164-1	151977	150998	152685	151886	0.56	cps
Erbium	164-2	106411	108937	108809	108052	1.32	cps
Gadolinium	160-1	167020	165742	166783	166515	0.41	cps
Gadolinium	160-2	126925	128247	128220	127797	0.59	cps
Holmium	165-1	12233928	12234100	12131407	12199812	0.49	cps
Holmium	165-2	8740881	8700715	8648635	8696744	0.53	cps
Indium	115-1	9469988	9416135	9453973	9446698	0.29	cps
Indium	115-2	3416909	3412687	3412557	3414051	0.07	cps
Iron	56-2	335732988	334706855	329035982	333158608	1.08	cps
Iron	57-2	8468616	8562797	8524309	8518574	0.56	cps
Iron	54-2	18218526	18054728	18087496	18120250	0.48	cps
Krypton	83-1	430	563	407	467	18.11	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-09 Instrumnet Name : P7
Client Sample ID : MH2GM6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:11:03 DataFile Name : 060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5229081	5179031	5144021	5184044	0.82	cps
Lead	207-1	4574104	4586655	4635536	4598765	0.71	cps
Lead	208-1	20714198	20806879	20695458	20738845	0.29	cps
Lithium	6-1	2056167	2041531	2035928	2044542	0.51	cps
Magnesium	24-2	11092957	10991652	10960225	11014945	0.63	cps
Manganese	55-2	5428790	5392991	5437302	5419694	0.43	cps
Molybdenum	94-1	95586	96794	97013	96464	0.80	cps
Molybdenum	95-1	116966	117087	117732	117262	0.35	cps
Molybdenum	96-1	134582	136540	135673	135598	0.72	cps
Molybdenum	97-1	73959	73366	74137	73821	0.55	cps
Molybdenum	98-1	186781	188348	187219	187449	0.43	cps
Neodymium	150-1	239646	237312	236485	237814	0.69	cps
Neodymium	150-2	144959	144920	144327	144736	0.24	cps
Nickel	60-2	420928	421266	422397	421530	0.18	cps
Phosphorus	31-2	46872	47166	46825	46954	0.39	cps
Potassium	39-2	2177768	2157725	2138033	2157842	0.92	cps
Rhodium	103-1	8496307	8375790	8292556	8388218	1.22	cps
Rhodium	103-2	5653666	5572608	5537430	5587901	1.07	cps
Scandium	45-1	6017485	6007367	5979928	6001594	0.32	cps
Scandium	45-2	557816	557112	558191	557706	0.10	cps
Selenium	82-1	2932	2736	2946	2871	4.09	cps
Selenium	77-2	777	893	813	828	7.21	cps
Selenium	78-2	1297	1413	1390	1367	4.52	cps
Silicon	28-1	69703612	69870001	69995681	69856431	0.21	cps
Silver	107-1	40229	39992	39968	40063	0.36	cps
Silver	109-1	37789	36656	38361	37602	2.31	cps
Sodium	23-2	1098674	1100137	1105891	1101567	0.35	cps
Strontium	86-1	7284577	7379021	7455548	7373049	1.16	cps
Strontium	88-1	63802874	64113782	64346114	64087590	0.43	cps
Sulfur	34-1	7810798	7869586	7928104	7869496	0.75	cps
Terbium	159-1	12572553	12429191	12381497	12461081	0.80	cps
Terbium	159-2	8718874	8692718	8680607	8697400	0.22	cps
Thallium	203-1	43586	42703	42877	43056	1.09	cps
Thallium	205-1	102775	103161	104632	103522	0.95	cps
Tin	118-1	23439	23706	23971	23706	1.12	cps
Titanium	47-1	82307	82315	81893	82172	0.29	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-09

Instrumnet Name :

P7

Client Sample ID :

MH2GM6

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:11:03

DataFile Name :

060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	504030	497204	505562	502265	0.89	cps
Vanadium	51-2	793493	790509	790690	791564	0.21	cps
Yttrium	89-1	18330311	18262120	18187130	18259854	0.39	cps
Yttrium	89-2	4981956	4983521	4944918	4970132	0.44	cps
Zinc	66-2	1992233	1989067	1990685	1990662	0.08	cps
Zirconium	90-1	77992	79795	78740	78842	1.15	cps
Zirconium	91-1	17611	18081	18275	17989	1.90	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-10 Instrumnet Name : P7
Client Sample ID : MH2GM7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:14:03 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3331126	3376760	3403846	3370578	1.09	cps
Antimony	121-1	23022	23857	23486	23455	1.78	cps
Arsenic	75-2	36802	36722	36802	36775	0.13	cps
Barium	135-1	1174151	1176320	1182224	1177565	0.35	cps
Barium	137-1	2212492	2213499	2219070	2215021	0.16	cps
Beryllium	9-1	16971	16903	17254	17043	1.09	cps
Bismuth	209-1	7043426	6931936	6833183	6936182	1.52	cps
Bismuth	209-2	5681260	5704902	5727650	5704604	0.41	cps
Bromine	81-1	20598	20791	21426	20938	2.07	cps
Bromine	81-2	1500	1627	1610	1579	4.36	cps
Cadmium	108-1	3357	3527	3450	3445	2.47	cps
Cadmium	106-1	8349	8419	8463	8410	0.68	cps
Cadmium	111-1	47946	48182	47975	48034	0.27	cps
Calcium	43-1	15262595	15340495	15481951	15361680	0.72	cps
Calcium	44-1	245856110	248869103	250948110	248557774	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	175084	176391	177710	176395	0.74	cps
Cobalt	59-2	232284	233479	233496	233086	0.30	cps
Copper	63-2	832805	837550	837264	835873	0.32	cps
Dysprosium	156-1	142097	141781	143805	142561	0.76	cps
Dysprosium	156-2	116246	116502	116831	116526	0.25	cps
Erbium	164-1	132780	134722	134826	134109	0.86	cps
Erbium	164-2	96621	96718	97722	97021	0.63	cps
Gadolinium	160-1	143766	144594	145554	144638	0.62	cps
Gadolinium	160-2	112339	112033	111640	112004	0.31	cps
Holmium	165-1	12233947	12218106	12112001	12188018	0.54	cps
Holmium	165-2	8904270	8804494	8848568	8852444	0.56	cps
Indium	115-1	9706571	9506102	9404253	9538975	1.61	cps
Indium	115-2	3493831	3429215	3500154	3474400	1.13	cps
Iron	56-2	229670390	230575223	233174370	231139994	0.79	cps
Iron	57-2	5980352	6031629	6089392	6033791	0.90	cps
Iron	54-2	12590491	12489462	12722495	12600816	0.93	cps
Krypton	83-1	463	443	420	442	4.90	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-10 Instrumnet Name : P7
Client Sample ID : MH2GM7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:14:03 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3017541	3052719	3087039	3052433	1.14	cps
Lead	207-1	2589244	2671206	2642368	2634273	1.58	cps
Lead	208-1	12060609	12182845	12084175	12109209	0.54	cps
Lithium	6-1	2086648	2087419	2050767	2074945	1.01	cps
Magnesium	24-2	54189191	54485238	54262698	54312375	0.28	cps
Manganese	55-2	9967265	9919813	10020738	9969272	0.51	cps
Molybdenum	94-1	65221	66128	65211	65520	0.80	cps
Molybdenum	95-1	71684	72957	73560	72734	1.32	cps
Molybdenum	96-1	83952	84043	86272	84756	1.55	cps
Molybdenum	97-1	44538	45631	46133	45434	1.80	cps
Molybdenum	98-1	114507	116315	116751	115858	1.03	cps
Neodymium	150-1	212932	212123	213264	212773	0.28	cps
Neodymium	150-2	129973	131016	131285	130758	0.53	cps
Nickel	60-2	246183	246114	247875	246724	0.40	cps
Phosphorus	31-2	68891	68877	69952	69240	0.89	cps
Potassium	39-2	2474540	2501399	2526544	2500828	1.04	cps
Rhodium	103-1	8449461	8419319	8342279	8403686	0.66	cps
Rhodium	103-2	5727285	5724863	5702634	5718260	0.24	cps
Scandium	45-1	5975612	6072140	6056080	6034611	0.86	cps
Scandium	45-2	569970	568384	571299	569884	0.26	cps
Selenium	82-1	4801	4709	4806	4772	1.13	cps
Selenium	77-2	930	913	940	928	1.45	cps
Selenium	78-2	2024	2027	1960	2003	1.88	cps
Silicon	28-1	67195516	68036431	68963152	68065033	1.30	cps
Silver	107-1	21289	21009	21690	21329	1.60	cps
Silver	109-1	19263	19857	20358	19826	2.76	cps
Sodium	23-2	869489	881560	885279	878776	0.94	cps
Strontium	86-1	4351468	4391611	4437373	4393484	0.98	cps
Strontium	88-1	37975999	38069589	38020521	38022036	0.12	cps
Sulfur	34-1	4199121	4202721	4219268	4207037	0.26	cps
Terbium	159-1	12707016	12515340	12360524	12527626	1.39	cps
Terbium	159-2	8772896	8756147	8873522	8800855	0.72	cps
Thallium	203-1	28988	29021	28897	28969	0.22	cps
Thallium	205-1	68424	67758	68974	68385	0.89	cps
Tin	118-1	22014	22387	22324	22242	0.90	cps
Titanium	47-1	111820	113448	113780	113016	0.93	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-10

Instrumnet Name :

P7

Client Sample ID :

MH2GM7

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:14:03

DataFile Name :

061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	326804	332460	328982	329415	0.87	cps
Vanadium	51-2	638036	639770	645744	641183	0.63	cps
Yttrium	89-1	18362719	18243894	18065093	18223902	0.82	cps
Yttrium	89-2	5068634	5125137	5041019	5078263	0.84	cps
Zinc	66-2	860456	858039	862249	860248	0.25	cps
Zirconium	90-1	65947	66886	65796	66210	0.89	cps
Zirconium	91-1	14667	15078	15121	14955	1.67	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-11 Instrumnet Name : P7
Client Sample ID : MH2GM8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:17:06 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3405875	3394722	3437442	3412680	0.65	cps
Antimony	121-1	17487	17517	18262	17755	2.47	cps
Arsenic	75-2	43086	43928	43854	43623	1.07	cps
Barium	135-1	909601	920339	913540	914493	0.59	cps
Barium	137-1	1743201	1735398	1735283	1737961	0.26	cps
Beryllium	9-1	14385	14512	14656	14518	0.93	cps
Bismuth	209-1	7238642	7164781	6778114	7060512	3.50	cps
Bismuth	209-2	6018102	5967092	5854977	5946724	1.40	cps
Bromine	81-1	19750	20635	20825	20403	2.81	cps
Bromine	81-2	1477	1420	1397	1431	2.87	cps
Cadmium	108-1	4321	4357	4071	4250	3.67	cps
Cadmium	106-1	9010	9153	9090	9084	0.79	cps
Cadmium	111-1	56843	56389	56517	56583	0.41	cps
Calcium	43-1	10696931	10838847	10847599	10794459	0.78	cps
Calcium	44-1	174485257	175452037	175693191	175210162	0.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	146265	144370	145585	145406	0.66	cps
Cobalt	59-2	263427	259263	261776	261489	0.80	cps
Copper	63-2	1015462	1012875	1011715	1013351	0.19	cps
Dysprosium	156-1	150005	151046	151989	151013	0.66	cps
Dysprosium	156-2	122650	119910	121581	121380	1.14	cps
Erbium	164-1	142136	141306	141865	141769	0.30	cps
Erbium	164-2	103006	101264	101958	102076	0.86	cps
Gadolinium	160-1	156570	158866	159499	158312	0.97	cps
Gadolinium	160-2	121108	120812	119971	120630	0.49	cps
Holmium	165-1	12495586	12423452	11800550	12239863	3.12	cps
Holmium	165-2	8927413	8875561	8859872	8887615	0.40	cps
Indium	115-1	9797005	9849697	9257068	9634590	3.40	cps
Indium	115-2	3549589	3548376	3454235	3517400	1.56	cps
Iron	56-2	287587369	284744222	283816629	285382740	0.69	cps
Iron	57-2	7283788	7256003	7281074	7273621	0.21	cps
Iron	54-2	15649278	15537219	15546499	15577665	0.40	cps
Krypton	83-1	403	447	493	448	10.05	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-11 Instrumnet Name : P7
Client Sample ID : MH2GM8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:17:06 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5066690	5010519	5020943	5032717	0.59	cps
Lead	207-1	4453339	4418730	4374907	4415658	0.89	cps
Lead	208-1	20137468	20017590	19886681	20013913	0.63	cps
Lithium	6-1	2116968	2117011	2057902	2097294	1.63	cps
Magnesium	24-2	18699889	18444223	18505670	18549927	0.72	cps
Manganese	55-2	4711911	4644524	4685708	4680714	0.73	cps
Molybdenum	94-1	75547	76133	76260	75980	0.50	cps
Molybdenum	95-1	89035	89488	89303	89275	0.26	cps
Molybdenum	96-1	103036	104711	104463	104070	0.87	cps
Molybdenum	97-1	55033	56050	56134	55739	1.10	cps
Molybdenum	98-1	141238	143059	142716	142338	0.68	cps
Neodymium	150-1	228243	230896	230509	229883	0.62	cps
Neodymium	150-2	139442	139206	138950	139200	0.18	cps
Nickel	60-2	344839	336436	339303	340192	1.26	cps
Phosphorus	31-2	48273	47851	49031	48385	1.24	cps
Potassium	39-2	1940356	1911971	1909610	1920646	0.89	cps
Rhodium	103-1	8709601	8687073	8230535	8542403	3.16	cps
Rhodium	103-2	5818957	5782358	5853029	5818115	0.61	cps
Scandium	45-1	6270943	6221193	5971351	6154496	2.61	cps
Scandium	45-2	575581	570310	573890	573260	0.47	cps
Selenium	82-1	2476	2475	2334	2428	3.36	cps
Selenium	77-2	830	833	870	844	2.63	cps
Selenium	78-2	1367	1267	1377	1337	4.55	cps
Silicon	28-1	58450426	59520566	59600732	59190575	1.09	cps
Silver	107-1	38879	39072	39166	39039	0.38	cps
Silver	109-1	35674	36964	36472	36370	1.79	cps
Sodium	23-2	726202	721018	727576	724932	0.48	cps
Strontium	86-1	5070646	5143550	5114932	5109710	0.72	cps
Strontium	88-1	44203566	44821108	44589173	44537949	0.70	cps
Sulfur	34-1	4162106	4163879	4111054	4145680	0.72	cps
Terbium	159-1	12794854	12876421	12058476	12576584	3.58	cps
Terbium	159-2	8990559	8938716	8857054	8928776	0.75	cps
Thallium	203-1	35704	35396	34647	35249	1.54	cps
Thallium	205-1	85101	85144	83625	84623	1.02	cps
Tin	118-1	24140	24234	24678	24351	1.18	cps
Titanium	47-1	84980	85922	86535	85812	0.91	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-11

Instrumnet Name :

P7

Client Sample ID :

MH2GM8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:17:06

DataFile Name :

062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	373940	376504	373652	374698	0.42	cps
Vanadium	51-2	665858	661180	658705	661914	0.55	cps
Yttrium	89-1	18664730	18519088	17856738	18346852	2.35	cps
Yttrium	89-2	5115095	5064999	5131951	5104015	0.68	cps
Zinc	66-2	1190308	1182794	1178403	1183835	0.51	cps
Zirconium	90-1	68790	70063	71754	70202	2.12	cps
Zirconium	91-1	15011	16162	15709	15627	3.71	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-12 Instrumnet Name : P7
Client Sample ID : MH2GM9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:20:07 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3939497	3902006	3893958	3911820	0.62	cps
Antimony	121-1	21162	21429	21266	21286	0.63	cps
Arsenic	75-2	32713	32405	31560	32226	1.85	cps
Barium	135-1	1065692	1067793	1060962	1064816	0.33	cps
Barium	137-1	2058517	2017602	2051550	2042556	1.07	cps
Beryllium	9-1	16096	16105	16061	16087	0.15	cps
Bismuth	209-1	7266739	7101387	7043051	7137059	1.63	cps
Bismuth	209-2	6045178	5878224	6058040	5993814	1.67	cps
Bromine	81-1	20611	21582	21643	21279	2.72	cps
Bromine	81-2	1640	1657	1700	1666	1.86	cps
Cadmium	108-1	4474	4374	4277	4375	2.25	cps
Cadmium	106-1	9800	9623	9530	9651	1.42	cps
Cadmium	111-1	57878	57804	58046	57909	0.21	cps
Calcium	43-1	10163649	10179858	10185437	10176315	0.11	cps
Calcium	44-1	164077534	165203478	164802951	164694654	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	132916	134201	130674	132597	1.35	cps
Cobalt	59-2	254713	253347	252272	253444	0.48	cps
Copper	63-2	1530970	1513609	1451261	1498613	2.80	cps
Dysprosium	156-1	151636	153411	152374	152473	0.58	cps
Dysprosium	156-2	124328	122717	122482	123176	0.82	cps
Erbium	164-1	146078	144158	145929	145388	0.73	cps
Erbium	164-2	104815	103516	104447	104259	0.64	cps
Gadolinium	160-1	158071	157991	158398	158153	0.14	cps
Gadolinium	160-2	121689	121374	121021	121361	0.28	cps
Holmium	165-1	12436644	12276019	12251199	12321287	0.82	cps
Holmium	165-2	9107634	8818429	9015674	8980579	1.65	cps
Indium	115-1	9661554	9626861	9522801	9603739	0.75	cps
Indium	115-2	3523273	3478617	3484537	3495476	0.69	cps
Iron	56-2	249485696	250948503	249436896	249957032	0.34	cps
Iron	57-2	6422293	6362138	6440096	6408176	0.64	cps
Iron	54-2	13742846	13618069	13558069	13639661	0.69	cps
Krypton	83-1	417	487	497	467	9.34	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-12 Instrumnet Name : P7
Client Sample ID : MH2GM9 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:20:07 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9632294	9455092	9567684	9551690	0.94	cps
Lead	207-1	8377864	8469372	8448467	8431901	0.57	cps
Lead	208-1	38452404	38383839	38296446	38377563	0.20	cps
Lithium	6-1	2050220	2128979	2086348	2088516	1.89	cps
Magnesium	24-2	12483254	12313889	12269724	12355622	0.91	cps
Manganese	55-2	6078607	6063269	6048907	6063594	0.24	cps
Molybdenum	94-1	62010	62984	62406	62467	0.78	cps
Molybdenum	95-1	50339	50835	50430	50535	0.52	cps
Molybdenum	96-1	64391	63892	64769	64351	0.68	cps
Molybdenum	97-1	31294	31748	31751	31597	0.83	cps
Molybdenum	98-1	80359	81043	80661	80688	0.42	cps
Neodymium	150-1	235223	234802	233983	234670	0.27	cps
Neodymium	150-2	142768	141543	143182	142498	0.60	cps
Nickel	60-2	378148	376416	376780	377115	0.24	cps
Phosphorus	31-2	44143	43986	44538	44222	0.64	cps
Potassium	39-2	1991955	1948454	1946078	1962162	1.32	cps
Rhodium	103-1	8638017	8555538	8483534	8559030	0.90	cps
Rhodium	103-2	5778954	5727986	5754146	5753695	0.44	cps
Scandium	45-1	6075223	6087948	6063367	6075513	0.20	cps
Scandium	45-2	563917	559814	560052	561261	0.41	cps
Selenium	82-1	2232	2220	2121	2191	2.78	cps
Selenium	77-2	657	747	717	707	6.48	cps
Selenium	78-2	1050	1147	1157	1118	5.27	cps
Silicon	28-1	63607491	64436929	63970257	64004892	0.65	cps
Silver	107-1	66146	65935	66448	66177	0.39	cps
Silver	109-1	62085	63193	62467	62582	0.90	cps
Sodium	23-2	896387	894471	891725	894194	0.26	cps
Strontium	86-1	5507752	5575943	5534056	5539250	0.62	cps
Strontium	88-1	48439708	48466651	48595794	48500718	0.17	cps
Sulfur	34-1	5169337	5197058	5149298	5171897	0.46	cps
Terbium	159-1	12703673	12670907	12371827	12582136	1.45	cps
Terbium	159-2	8911151	8813792	8799184	8841376	0.69	cps
Thallium	203-1	24596	24352	24472	24473	0.50	cps
Thallium	205-1	57076	57969	58803	57949	1.49	cps
Tin	118-1	29026	29046	29610	29227	1.14	cps
Titanium	47-1	137289	138486	137807	137861	0.44	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-12

Instrumnet Name :

P7

Client Sample ID :

MH2GM9

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:20:07

DataFile Name :

063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	360450	362986	362676	362037	0.38	cps
Vanadium	51-2	575751	573909	572518	574059	0.28	cps
Yttrium	89-1	18435214	18181767	18360958	18325980	0.71	cps
Yttrium	89-2	5033797	4960535	5021456	5005263	0.78	cps
Zinc	66-2	2830780	2842376	2797611	2823589	0.82	cps
Zirconium	90-1	92261	92773	91778	92271	0.54	cps
Zirconium	91-1	20498	20458	20735	20563	0.73	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-13 Instrumnet Name : P7
Client Sample ID : MH2GN0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:23:09 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3241942	3242119	3174655	3219572	1.21	cps
Antimony	121-1	13463	13553	13566	13528	0.42	cps
Arsenic	75-2	28394	28257	28007	28219	0.70	cps
Barium	135-1	716146	710738	713722	713535	0.38	cps
Barium	137-1	1245743	1237766	1236504	1240004	0.40	cps
Beryllium	9-1	17170	17349	17317	17279	0.55	cps
Bismuth	209-1	6371947	6929459	6991271	6764226	5.04	cps
Bismuth	209-2	5801116	5915915	5930025	5882352	1.20	cps
Bromine	81-1	19413	20004	20187	19868	2.04	cps
Bromine	81-2	1500	1413	1550	1488	4.65	cps
Cadmium	108-1	3917	3894	3714	3842	2.90	cps
Cadmium	106-1	8369	8729	8199	8433	3.21	cps
Cadmium	111-1	51292	52465	52461	52073	1.30	cps
Calcium	43-1	10919827	11032862	10967712	10973467	0.52	cps
Calcium	44-1	177216751	177029364	176424131	176890082	0.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	125631	126696	127127	126485	0.61	cps
Cobalt	59-2	270922	270297	269009	270076	0.36	cps
Copper	63-2	952639	947190	950452	950094	0.29	cps
Dysprosium	156-1	158163	157688	156936	157595	0.39	cps
Dysprosium	156-2	124957	126147	126012	125705	0.52	cps
Erbium	164-1	147166	146422	147101	146896	0.28	cps
Erbium	164-2	105995	104993	105239	105409	0.50	cps
Gadolinium	160-1	166166	164203	165488	165286	0.60	cps
Gadolinium	160-2	124440	125889	127480	125936	1.21	cps
Holmium	165-1	10764437	11647588	11798834	11403620	4.90	cps
Holmium	165-2	8646786	8764252	8751328	8720789	0.74	cps
Indium	115-1	8438086	9122225	9183117	8914476	4.64	cps
Indium	115-2	3383226	3463674	3403747	3416883	1.22	cps
Iron	56-2	278964369	274492643	275896783	276451265	0.83	cps
Iron	57-2	7110544	7068974	7105193	7094904	0.32	cps
Iron	54-2	15103907	15049795	15061417	15071706	0.19	cps
Krypton	83-1	453	480	403	446	8.74	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-13 Instrumnet Name : P7
Client Sample ID : MH2GN0 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:23:09 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4829766	4841381	4908100	4859749	0.87	cps
Lead	207-1	4280377	4347307	4394299	4340661	1.32	cps
Lead	208-1	19370590	19561602	19508117	19480103	0.51	cps
Lithium	6-1	1836101	1988915	1996136	1940384	4.66	cps
Magnesium	24-2	13066795	13199736	13014535	13093689	0.73	cps
Manganese	55-2	4143053	4143905	4076270	4121076	0.94	cps
Molybdenum	94-1	69423	69818	69450	69564	0.32	cps
Molybdenum	95-1	64408	64776	64488	64557	0.30	cps
Molybdenum	96-1	78275	79726	78901	78967	0.92	cps
Molybdenum	97-1	40359	40543	40295	40399	0.32	cps
Molybdenum	98-1	102758	103490	102910	103053	0.37	cps
Neodymium	150-1	240550	242385	243683	242206	0.65	cps
Neodymium	150-2	146701	145297	146025	146008	0.48	cps
Nickel	60-2	343516	343883	341759	343053	0.33	cps
Phosphorus	31-2	44013	43425	44123	43854	0.86	cps
Potassium	39-2	1835673	1853853	1813281	1834269	1.11	cps
Rhodium	103-1	7401937	8068366	8257308	7909204	5.68	cps
Rhodium	103-2	5642928	5672983	5652806	5656239	0.27	cps
Scandium	45-1	5375196	5766228	5857908	5666444	4.52	cps
Scandium	45-2	552246	550194	548925	550455	0.30	cps
Selenium	82-1	2590	2572	2741	2635	3.53	cps
Selenium	77-2	783	733	753	757	3.33	cps
Selenium	78-2	1297	1273	1270	1280	1.14	cps
Silicon	28-1	53548869	54270996	53921751	53913872	0.67	cps
Silver	107-1	46882	45407	47063	46451	1.95	cps
Silver	109-1	44552	43836	43706	44031	1.03	cps
Sodium	23-2	737110	736730	737276	737039	0.04	cps
Strontium	86-1	7095322	7054072	7032080	7060491	0.45	cps
Strontium	88-1	61493809	61958484	61546956	61666416	0.41	cps
Sulfur	34-1	6318251	6371331	6291336	6326972	0.64	cps
Terbium	159-1	11012860	12081046	12429116	11841007	6.23	cps
Terbium	159-2	8713129	8860735	8714499	8762788	0.97	cps
Thallium	203-1	31480	31400	30788	31222	1.21	cps
Thallium	205-1	74144	75454	75334	74977	0.97	cps
Tin	118-1	18021	18649	18432	18367	1.74	cps
Titanium	47-1	87977	88201	85821	87333	1.50	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-13

Instrumnet Name :

P7

Client Sample ID :

MH2GN0

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:23:09

DataFile Name :

064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	413160	418121	413786	415023	0.65	cps
Vanadium	51-2	596963	590867	590632	592821	0.61	cps
Yttrium	89-1	16100132	17591064	17786688	17159295	5.38	cps
Yttrium	89-2	4913977	4927736	4917156	4919623	0.15	cps
Zinc	66-2	1385517	1383164	1387401	1385361	0.15	cps
Zirconium	90-1	90906	92244	91536	91562	0.73	cps
Zirconium	91-1	20935	20818	20688	20814	0.59	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-14 Instrumnet Name : P7
Client Sample ID : MH2GN1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:26:11 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3384904	3402430	3389071	3392135	0.27	cps
Antimony	121-1	20788	21790	21396	21325	2.37	cps
Arsenic	75-2	74847	74469	74801	74706	0.28	cps
Barium	135-1	2095924	2147648	2075762	2106444	1.76	cps
Barium	137-1	3561423	3648353	3670463	3626746	1.59	cps
Beryllium	9-1	15795	15829	16147	15924	1.22	cps
Bismuth	209-1	7141908	6762006	6520004	6807973	4.60	cps
Bismuth	209-2	5500445	5557574	5602965	5553661	0.93	cps
Bromine	81-1	20017	21015	21335	20789	3.31	cps
Bromine	81-2	1760	1637	1743	1713	3.91	cps
Cadmium	108-1	2437	2414	2450	2434	0.76	cps
Cadmium	106-1	7282	7085	6988	7118	2.10	cps
Cadmium	111-1	33072	32865	32806	32915	0.42	cps
Calcium	43-1	16321284	16335805	16729253	16462114	1.41	cps
Calcium	44-1	265772336	267313116	270745616	267943689	0.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	309975	308372	310775	309707	0.40	cps
Cobalt	59-2	197438	198714	197370	197840	0.38	cps
Copper	63-2	751951	749658	750364	750658	0.16	cps
Dysprosium	156-1	155272	156542	155588	155800	0.42	cps
Dysprosium	156-2	127281	126269	128441	127330	0.85	cps
Erbium	164-1	150784	153388	152857	152343	0.90	cps
Erbium	164-2	108735	109330	108608	108891	0.35	cps
Gadolinium	160-1	158893	161658	160622	160391	0.87	cps
Gadolinium	160-2	122799	123593	122153	122848	0.59	cps
Holmium	165-1	12608897	12012874	11914985	12178919	3.08	cps
Holmium	165-2	8613674	8661388	8749650	8674904	0.80	cps
Indium	115-1	9687214	9430550	9363141	9493635	1.80	cps
Indium	115-2	3452256	3432667	3409615	3431513	0.62	cps
Iron	56-2	166659364	165773144	167467104	166633204	0.51	cps
Iron	57-2	4429901	4413815	4441079	4428265	0.31	cps
Iron	54-2	9098241	9124985	9115447	9112891	0.15	cps
Krypton	83-1	513	463	593	523	12.53	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-14 Instrumnet Name : P7
Client Sample ID : MH2GN1 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:26:11 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6059940	6067941	6056201	6061361	0.10	cps
Lead	207-1	5182315	5248553	5186618	5205828	0.71	cps
Lead	208-1	23951164	24102839	23740185	23931396	0.76	cps
Lithium	6-1	2131465	2065991	2033871	2077109	2.39	cps
Magnesium	24-2	103398562	102965675	103392988	103252408	0.24	cps
Manganese	55-2	16917893	16918466	17149769	16995376	0.79	cps
Molybdenum	94-1	23953	24798	24868	24540	2.08	cps
Molybdenum	95-1	14677	15158	15355	15063	2.31	cps
Molybdenum	96-1	20014	21326	21252	20864	3.53	cps
Molybdenum	97-1	8823	9163	9373	9120	3.05	cps
Molybdenum	98-1	22567	22594	23025	22729	1.13	cps
Neodymium	150-1	206981	208808	207048	207613	0.50	cps
Neodymium	150-2	128590	127961	127201	127917	0.54	cps
Nickel	60-2	142826	143587	142200	142871	0.49	cps
Phosphorus	31-2	103134	104047	104648	103943	0.73	cps
Potassium	39-2	2300564	2271788	2284489	2285613	0.63	cps
Rhodium	103-1	8647772	8347121	8356561	8450485	2.02	cps
Rhodium	103-2	5679088	5641682	5607698	5642823	0.63	cps
Scandium	45-1	6096496	5881087	5902318	5959967	1.99	cps
Scandium	45-2	557341	558055	557667	557688	0.06	cps
Selenium	82-1	1349	1347	1151	1282	8.84	cps
Selenium	77-2	597	683	570	617	9.61	cps
Selenium	78-2	917	920	870	902	3.10	cps
Silicon	28-1	76867149	77138071	77290066	77098428	0.28	cps
Silver	107-1	24608	24404	25366	24792	2.04	cps
Silver	109-1	23115	23426	23706	23416	1.26	cps
Sodium	23-2	1066217	1095305	1098355	1086626	1.63	cps
Strontium	86-1	2477399	2534166	2547099	2519555	1.47	cps
Strontium	88-1	21621029	21888959	21863965	21791317	0.68	cps
Sulfur	34-1	259217	262475	264183	261958	0.96	cps
Terbium	159-1	12707391	12605376	12108686	12473818	2.57	cps
Terbium	159-2	8839911	8437989	8554895	8610932	2.40	cps
Thallium	203-1	11078	11008	10944	11010	0.61	cps
Thallium	205-1	26459	27234	26653	26782	1.51	cps
Tin	118-1	42004	43375	44305	43228	2.68	cps
Titanium	47-1	172328	171934	174881	173048	0.92	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-14

Instrumnet Name :

P7

Client Sample ID :

MH2GN1

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:26:11

DataFile Name :

065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	251917	258797	256455	255723	1.37	cps
Vanadium	51-2	508985	509717	509331	509344	0.07	cps
Yttrium	89-1	18985081	18408968	18341363	18578471	1.90	cps
Yttrium	89-2	5096608	5163055	5112356	5124007	0.68	cps
Zinc	66-2	897747	900037	901150	899645	0.19	cps
Zirconium	90-1	43448	45086	43615	44049	2.05	cps
Zirconium	91-1	9950	9857	10164	9990	1.57	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-15 Instrumnet Name : P7
Client Sample ID : MH2GN2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:29:14 DataFile Name : 066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4288254	4224249	4251444	4254649	0.75	cps
Antimony	121-1	19697	20067	19690	19818	1.09	cps
Arsenic	75-2	77169	76683	77879	77244	0.78	cps
Barium	135-1	2597317	2638644	2603674	2613212	0.85	cps
Barium	137-1	4481421	4445658	4524185	4483754	0.88	cps
Beryllium	9-1	16216	16227	16196	16213	0.10	cps
Bismuth	209-1	6945006	6822382	6718654	6828681	1.66	cps
Bismuth	209-2	5703341	5663549	5825820	5730903	1.48	cps
Bromine	81-1	25439	26293	27345	26359	3.62	cps
Bromine	81-2	2787	2590	2667	2681	3.70	cps
Cadmium	108-1	4297	4071	4401	4256	3.97	cps
Cadmium	106-1	9897	9713	9723	9778	1.05	cps
Cadmium	111-1	58896	58557	58615	58689	0.31	cps
Calcium	43-1	12351701	12384971	12459725	12398799	0.45	cps
Calcium	44-1	202560524	200252770	202390404	201734566	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	220749	223035	221786	221857	0.52	cps
Cobalt	59-2	229616	231195	231110	230640	0.38	cps
Copper	63-2	1126804	1121041	1128295	1125380	0.34	cps
Dysprosium	156-1	179114	177359	177825	178099	0.51	cps
Dysprosium	156-2	143340	145057	147145	145181	1.31	cps
Erbium	164-1	167076	166877	167428	167127	0.17	cps
Erbium	164-2	120131	122421	122115	121555	1.02	cps
Gadolinium	160-1	184066	184208	184279	184184	0.06	cps
Gadolinium	160-2	142560	141146	142667	142125	0.60	cps
Holmium	165-1	12221080	12085313	12217876	12174756	0.64	cps
Holmium	165-2	8759162	8704947	8947009	8803706	1.44	cps
Indium	115-1	9696924	9588130	9510410	9598488	0.98	cps
Indium	115-2	3559388	3476405	3519571	3518454	1.18	cps
Iron	56-2	197074604	196124317	198466850	197221924	0.60	cps
Iron	57-2	5101576	5094001	5128211	5107929	0.35	cps
Iron	54-2	10817462	10728238	10782564	10776088	0.42	cps
Krypton	83-1	487	510	553	517	6.55	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-15 Instrumnet Name : P7
Client Sample ID : MH2GN2 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:29:14 DataFile Name : 066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8556134	8544248	8523882	8541421	0.19	cps
Lead	207-1	7438987	7398857	7368194	7402013	0.48	cps
Lead	208-1	33946813	33869210	33631119	33815714	0.49	cps
Lithium	6-1	2079834	2084569	2045249	2069884	1.04	cps
Magnesium	24-2	55410664	55533883	55826298	55590281	0.38	cps
Manganese	55-2	10903098	10862609	10873134	10879614	0.19	cps
Molybdenum	94-1	28551	29353	29232	29045	1.49	cps
Molybdenum	95-1	16509	17190	16860	16853	2.02	cps
Molybdenum	96-1	24053	24063	24464	24193	0.97	cps
Molybdenum	97-1	10410	10204	10047	10220	1.78	cps
Molybdenum	98-1	25896	25983	26381	26087	0.99	cps
Neodymium	150-1	254818	254133	255994	254982	0.37	cps
Neodymium	150-2	156613	156323	159302	157413	1.04	cps
Nickel	60-2	221291	218347	220701	220113	0.71	cps
Phosphorus	31-2	90385	88822	89841	89683	0.88	cps
Potassium	39-2	2516435	2553551	2543388	2537791	0.76	cps
Rhodium	103-1	8613700	8594558	8536204	8581487	0.47	cps
Rhodium	103-2	5814378	5732969	5758725	5768691	0.72	cps
Scandium	45-1	6096819	6046845	6076484	6073383	0.41	cps
Scandium	45-2	563758	561886	563385	563010	0.18	cps
Selenium	82-1	1410	1363	1322	1365	3.21	cps
Selenium	77-2	887	703	823	804	11.58	cps
Selenium	78-2	943	920	937	933	1.29	cps
Silicon	28-1	85039615	85919892	86510455	85823321	0.86	cps
Silver	107-1	47879	48755	48685	48439	1.01	cps
Silver	109-1	44859	45331	46060	45416	1.33	cps
Sodium	23-2	938606	937847	945517	940657	0.45	cps
Strontium	86-1	3515822	3599848	3545396	3553689	1.20	cps
Strontium	88-1	30965342	30984800	31161513	31037218	0.35	cps
Sulfur	34-1	300132	300068	300377	300193	0.05	cps
Terbium	159-1	12527245	12439256	12643455	12536652	0.82	cps
Terbium	159-2	8840681	8688888	8836850	8788806	0.98	cps
Thallium	203-1	20526	19608	20399	20177	2.47	cps
Thallium	205-1	48172	48302	47416	47963	1.00	cps
Tin	118-1	46618	46976	47508	47034	0.95	cps
Titanium	47-1	146555	145468	146090	146038	0.37	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-15

Instrumnet Name :

P7

Client Sample ID :

MH2GN2

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:29:14

DataFile Name :

066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	319235	323826	319835	320965	0.78	cps
Vanadium	51-2	550532	555391	557960	554627	0.68	cps
Yttrium	89-1	18864576	18912488	18823577	18866880	0.24	cps
Yttrium	89-2	5152866	5173521	5236561	5187650	0.84	cps
Zinc	66-2	1423435	1423468	1421466	1422789	0.08	cps
Zirconium	90-1	53460	53464	54742	53888	1.37	cps
Zirconium	91-1	11825	11918	12702	12148	3.97	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-16 Instrumnet Name : P7
Client Sample ID : MH2GN3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:32:15 DataFile Name : 067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3655820	3583427	3581030	3606759	1.18	cps
Antimony	121-1	18979	18409	18412	18600	1.77	cps
Arsenic	75-2	42153	42113	41428	41898	0.97	cps
Barium	135-1	3295367	3338905	3326394	3320222	0.68	cps
Barium	137-1	5655462	5813401	5735260	5734708	1.38	cps
Beryllium	9-1	14131	14302	14366	14266	0.85	cps
Bismuth	209-1	7086840	6997514	6858740	6981031	1.65	cps
Bismuth	209-2	5832604	5904094	5873895	5870198	0.61	cps
Bromine	81-1	23803	25011	25616	24810	3.72	cps
Bromine	81-2	2597	2474	2500	2524	2.57	cps
Cadmium	108-1	5361	5604	5408	5458	2.37	cps
Cadmium	106-1	11418	11485	11318	11407	0.74	cps
Cadmium	111-1	74064	75663	74125	74617	1.21	cps
Calcium	43-1	9601027	9687262	9659300	9649196	0.46	cps
Calcium	44-1	154923718	157997888	155824341	156248649	1.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	157631	157169	156845	157215	0.25	cps
Cobalt	59-2	252991	251080	249433	251168	0.71	cps
Copper	63-2	1357930	1347578	1352348	1352619	0.38	cps
Dysprosium	156-1	190151	192422	190752	191108	0.62	cps
Dysprosium	156-2	153880	152797	153617	153431	0.37	cps
Erbium	164-1	175146	173236	173608	173997	0.58	cps
Erbium	164-2	125786	126045	125494	125775	0.22	cps
Gadolinium	160-1	197746	198500	195522	197256	0.78	cps
Gadolinium	160-2	150804	150960	151035	150933	0.08	cps
Holmium	165-1	12127346	12121952	11768333	12005877	1.71	cps
Holmium	165-2	8801597	8880803	8793800	8825400	0.55	cps
Indium	115-1	9659404	9625582	9534188	9606391	0.67	cps
Indium	115-2	3447658	3464897	3497595	3470050	0.73	cps
Iron	56-2	203253877	204092877	201367197	202904650	0.69	cps
Iron	57-2	5267474	5193748	5184011	5215078	0.88	cps
Iron	54-2	11145348	11150886	11094978	11130404	0.28	cps
Krypton	83-1	480	467	447	464	3.61	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-16 Instrumnet Name : P7
Client Sample ID : MH2GN3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:32:15 DataFile Name : 067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10990183	10935099	11042698	10989327	0.49	cps
Lead	207-1	9769305	9660797	9824336	9751479	0.85	cps
Lead	208-1	44197635	43871736	44330226	44133199	0.53	cps
Lithium	6-1	2056745	2076512	2068381	2067213	0.48	cps
Magnesium	24-2	25498804	25342896	25397849	25413183	0.31	cps
Manganese	55-2	8095616	8161316	8041725	8099552	0.74	cps
Molybdenum	94-1	33114	33054	33238	33135	0.28	cps
Molybdenum	95-1	15445	16222	16009	15892	2.53	cps
Molybdenum	96-1	23706	24517	23826	24016	1.82	cps
Molybdenum	97-1	9900	9937	9717	9851	1.20	cps
Molybdenum	98-1	24928	25229	25065	25074	0.60	cps
Neodymium	150-1	288652	292518	290231	290467	0.67	cps
Neodymium	150-2	178437	177482	179821	178580	0.66	cps
Nickel	60-2	264122	268236	264979	265779	0.82	cps
Phosphorus	31-2	62283	62932	62276	62497	0.60	cps
Potassium	39-2	2274420	2276323	2297891	2282878	0.57	cps
Rhodium	103-1	8553538	8609788	8578189	8580505	0.33	cps
Rhodium	103-2	5689913	5792236	5690808	5724319	1.03	cps
Scandium	45-1	6048456	6080128	5965578	6031387	0.98	cps
Scandium	45-2	560935	560310	557211	559485	0.36	cps
Selenium	82-1	1219	1289	1315	1274	3.91	cps
Selenium	77-2	887	803	683	791	12.92	cps
Selenium	78-2	960	917	947	941	2.36	cps
Silicon	28-1	74034414	74757272	75007152	74599613	0.68	cps
Silver	107-1	70379	71645	71200	71075	0.90	cps
Silver	109-1	67305	66856	66954	67038	0.35	cps
Sodium	23-2	809255	807884	808597	808579	0.08	cps
Strontium	86-1	4135608	4179122	4154882	4156537	0.52	cps
Strontium	88-1	36328306	36749714	36538851	36538957	0.58	cps
Sulfur	34-1	288467	292124	293256	291282	0.86	cps
Terbium	159-1	12747536	12467045	12197351	12470644	2.21	cps
Terbium	159-2	8675218	8748617	8753086	8725641	0.50	cps
Thallium	203-1	19634	18876	19521	19344	2.11	cps
Thallium	205-1	45710	46268	45195	45724	1.17	cps
Tin	118-1	30559	30726	30005	30430	1.24	cps
Titanium	47-1	108385	108283	110200	108956	0.99	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-16 Instrumnet Name : P7
Client Sample ID : MH2GN3 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:32:15 DataFile Name : 067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	362467	367216	365662	365115	0.66	cps
Vanadium	51-2	502015	502926	496773	500571	0.66	cps
Yttrium	89-1	18737958	19056467	18547715	18780713	1.37	cps
Yttrium	89-2	5167049	5172413	5092777	5144080	0.87	cps
Zinc	66-2	2656040	2637752	2628272	2640688	0.53	cps
Zirconium	90-1	65609	66091	66459	66053	0.65	cps
Zirconium	91-1	14721	15208	14751	14893	1.83	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-17 Instrumnet Name : P7
Client Sample ID : MH2GN4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:35:17 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3885324	3857734	3772227	3838428	1.54	cps
Antimony	121-1	10487	10744	10744	10658	1.39	cps
Arsenic	75-2	17854	18265	17861	17993	1.31	cps
Barium	135-1	2394480	2416230	2412606	2407772	0.48	cps
Barium	137-1	4077065	4058567	4139305	4091646	1.03	cps
Beryllium	9-1	14041	13970	14399	14137	1.63	cps
Bismuth	209-1	6969856	6912102	6953497	6945152	0.43	cps
Bismuth	209-2	5966322	5927632	5906716	5933557	0.51	cps
Bromine	81-1	22273	22918	22928	22706	1.65	cps
Bromine	81-2	2234	2050	2114	2132	4.37	cps
Cadmium	108-1	5004	4978	4884	4955	1.27	cps
Cadmium	106-1	10704	10514	10204	10474	2.41	cps
Cadmium	111-1	69126	68570	68541	68746	0.48	cps
Calcium	43-1	8674554	8596491	8672460	8647835	0.51	cps
Calcium	44-1	139368661	140218731	141020005	140202466	0.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	918969	919070	914993	917677	0.25	cps
Cobalt	59-2	268706	269807	268108	268874	0.32	cps
Copper	63-2	954336	959353	953645	955778	0.33	cps
Dysprosium	156-1	192143	191574	193248	192322	0.44	cps
Dysprosium	156-2	156069	155521	156764	156118	0.40	cps
Erbium	164-1	175723	179913	175538	177058	1.40	cps
Erbium	164-2	127694	128373	129218	128428	0.59	cps
Gadolinium	160-1	204123	204605	202919	203882	0.43	cps
Gadolinium	160-2	154875	156442	155014	155444	0.56	cps
Holmium	165-1	11998233	12304175	12137450	12146620	1.26	cps
Holmium	165-2	8869690	8698352	8821937	8796659	1.01	cps
Indium	115-1	9481876	9741891	9543698	9589155	1.42	cps
Indium	115-2	3593887	3456967	3501788	3517547	1.98	cps
Iron	56-2	246603476	243489183	242058503	244050387	0.95	cps
Iron	57-2	6250138	6216127	6214809	6227025	0.32	cps
Iron	54-2	13517389	13327805	13281329	13375508	0.93	cps
Krypton	83-1	497	460	450	469	5.24	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-17 Instrumnet Name : P7
Client Sample ID : MH2GN4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:35:17 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5449397	5509933	5461408	5473580	0.59	cps
Lead	207-1	4776764	4789294	4742952	4769670	0.50	cps
Lead	208-1	21552594	21675941	21636137	21621557	0.29	cps
Lithium	6-1	2057002	2085716	2035628	2059449	1.22	cps
Magnesium	24-2	17189665	17286560	17098639	17191622	0.55	cps
Manganese	55-2	4742787	4718194	4674549	4711844	0.73	cps
Molybdenum	94-1	34718	34671	35540	34976	1.40	cps
Molybdenum	95-1	22441	23282	22751	22825	1.86	cps
Molybdenum	96-1	30969	32496	31567	31678	2.43	cps
Molybdenum	97-1	13987	13560	14197	13914	2.33	cps
Molybdenum	98-1	35420	36770	36459	36216	1.95	cps
Neodymium	150-1	295201	308063	298837	300700	2.20	cps
Neodymium	150-2	184686	183789	184711	184395	0.28	cps
Nickel	60-2	311764	312096	313480	312447	0.29	cps
Phosphorus	31-2	54359	54734	53731	54275	0.93	cps
Potassium	39-2	2314668	2290535	2277389	2294198	0.82	cps
Rhodium	103-1	8643702	8623525	8429846	8565691	1.38	cps
Rhodium	103-2	5767936	5749760	5827080	5781592	0.70	cps
Scandium	45-1	5995077	6073555	6059247	6042627	0.69	cps
Scandium	45-2	566605	561194	562295	563365	0.51	cps
Selenium	82-1	1321	1390	1379	1363	2.71	cps
Selenium	77-2	883	840	847	857	2.72	cps
Selenium	78-2	1073	890	967	977	9.43	cps
Silicon	28-1	63134912	63644729	64205551	63661731	0.84	cps
Silver	107-1	47133	47568	46812	47171	0.80	cps
Silver	109-1	43716	43121	43866	43567	0.90	cps
Sodium	23-2	813658	817323	813493	814825	0.27	cps
Strontium	86-1	4658216	4633859	4785790	4692622	1.74	cps
Strontium	88-1	41466895	40795508	41490932	41251112	0.96	cps
Sulfur	34-1	491333	495183	501943	496153	1.08	cps
Terbium	159-1	12856480	12485034	12547073	12629529	1.58	cps
Terbium	159-2	8848624	8828945	8660103	8779224	1.18	cps
Thallium	203-1	30414	29880	31403	30565	2.53	cps
Thallium	205-1	71262	73554	71513	72110	1.74	cps
Tin	118-1	18712	19099	19076	18963	1.14	cps
Titanium	47-1	79807	80667	79812	80095	0.62	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-17 Instrumnet Name : P7
Client Sample ID : MH2GN4 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:35:17 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	431098	443944	438146	437729	1.47	cps
Vanadium	51-2	555059	556898	553818	555258	0.28	cps
Yttrium	89-1	18824800	18525641	18810551	18720331	0.90	cps
Yttrium	89-2	5084577	5121779	5255553	5153970	1.74	cps
Zinc	66-2	1158917	1153086	1156305	1156103	0.25	cps
Zirconium	90-1	59915	61327	61237	60826	1.30	cps
Zirconium	91-1	13259	13159	13520	13313	1.40	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-18 Instrumnet Name : P7
Client Sample ID : MH2GN5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:38:18 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4566742	4588789	4558816	4571449	0.34	cps
Antimony	121-1	22074	22134	21817	22008	0.77	cps
Arsenic	75-2	26854	26928	26691	26824	0.45	cps
Barium	135-1	3118597	3103065	3080678	3100780	0.61	cps
Barium	137-1	5335714	5367626	5359095	5354145	0.31	cps
Beryllium	9-1	12011	12217	12239	12156	1.03	cps
Bismuth	209-1	7334836	7114894	7208611	7219447	1.53	cps
Bismuth	209-2	6007279	5962638	5919994	5963304	0.73	cps
Bromine	81-1	23719	24126	24043	23963	0.90	cps
Bromine	81-2	2374	2144	2290	2269	5.13	cps
Cadmium	108-1	4627	4581	4624	4611	0.56	cps
Cadmium	106-1	9873	10114	9863	9950	1.42	cps
Cadmium	111-1	61843	61990	61770	61867	0.18	cps
Calcium	43-1	6923890	6952500	6952702	6943031	0.24	cps
Calcium	44-1	112393855	112224868	113228348	112615691	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	350972	346170	344635	347259	0.95	cps
Cobalt	59-2	182630	182730	182016	182459	0.21	cps
Copper	63-2	1538515	1528501	1507645	1524887	1.03	cps
Dysprosium	156-1	135487	134087	134972	134849	0.53	cps
Dysprosium	156-2	109805	111128	110242	110392	0.61	cps
Erbium	164-1	122730	124970	124785	124161	1.00	cps
Erbium	164-2	89303	89538	89524	89455	0.15	cps
Gadolinium	160-1	136494	138520	137608	137541	0.74	cps
Gadolinium	160-2	105658	105134	104828	105207	0.40	cps
Holmium	165-1	12379303	11975662	12100316	12151760	1.70	cps
Holmium	165-2	8765263	8757504	8743016	8755261	0.13	cps
Indium	115-1	9684523	9485009	9390097	9519876	1.58	cps
Indium	115-2	3508567	3483412	3493075	3495018	0.36	cps
Iron	56-2	204780997	203557597	204131617	204156737	0.30	cps
Iron	57-2	5250960	5124515	5149464	5174980	1.29	cps
Iron	54-2	11253710	11175592	11161109	11196803	0.44	cps
Krypton	83-1	410	513	457	460	11.25	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-18 Instrumnet Name : P7
Client Sample ID : MH2GN5 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:38:18 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9331241	9318165	9442642	9364016	0.73	cps
Lead	207-1	8116123	8094924	8125001	8112016	0.19	cps
Lead	208-1	37117365	37133454	37199334	37150051	0.12	cps
Lithium	6-1	2073416	2037749	2063977	2058381	0.90	cps
Magnesium	24-2	12403692	12328256	12206207	12312718	0.81	cps
Manganese	55-2	7226521	7125363	7131477	7161120	0.79	cps
Molybdenum	94-1	39630	40105	39356	39697	0.95	cps
Molybdenum	95-1	23819	24227	23980	24009	0.85	cps
Molybdenum	96-1	33582	33518	33321	33474	0.41	cps
Molybdenum	97-1	14314	14838	14991	14714	2.41	cps
Molybdenum	98-1	37361	37665	37699	37575	0.49	cps
Neodymium	150-1	212727	211893	213008	212543	0.27	cps
Neodymium	150-2	129533	130579	129888	130000	0.41	cps
Nickel	60-2	180512	181582	181315	181136	0.31	cps
Phosphorus	31-2	133529	132682	131970	132727	0.59	cps
Potassium	39-2	6081883	6080088	5976944	6046305	0.99	cps
Rhodium	103-1	8568083	8478814	8488148	8511682	0.58	cps
Rhodium	103-2	5734846	5736232	5812553	5761211	0.77	cps
Scandium	45-1	5706935	5596000	5597458	5633464	1.13	cps
Scandium	45-2	531590	527118	525244	527984	0.62	cps
Selenium	82-1	1388	1208	1289	1295	6.96	cps
Selenium	77-2	533	573	637	581	8.97	cps
Selenium	78-2	993	803	880	892	10.71	cps
Silicon	28-1	88923095	89221199	90128565	89424286	0.70	cps
Silver	107-1	53679	54177	53331	53729	0.79	cps
Silver	109-1	50983	49936	51424	50781	1.51	cps
Sodium	23-2	734905	732099	731243	732749	0.26	cps
Strontium	86-1	4058376	4086273	4094710	4079786	0.47	cps
Strontium	88-1	35401273	35713755	35623859	35579629	0.45	cps
Sulfur	34-1	332177	336475	337949	335534	0.89	cps
Terbium	159-1	12644751	12592645	12480339	12572578	0.67	cps
Terbium	159-2	8681659	8805023	8749105	8745263	0.71	cps
Thallium	203-1	16363	16480	16427	16423	0.36	cps
Thallium	205-1	38555	39287	39250	39030	1.06	cps
Tin	118-1	114168	115965	115173	115102	0.78	cps
Titanium	47-1	180913	185032	187498	184481	1.80	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-18

Instrumnet Name :

P7

Client Sample ID :

MH2GN5

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:38:18

DataFile Name :

069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	253993	252724	253212	253310	0.25	cps
Vanadium	51-2	527986	527031	525322	526780	0.26	cps
Yttrium	89-1	17998158	17491720	17623619	17704499	1.48	cps
Yttrium	89-2	4888138	4881650	4867875	4879221	0.21	cps
Zinc	66-2	1990367	1972842	1939017	1967409	1.33	cps
Zirconium	90-1	71419	72092	73395	72302	1.39	cps
Zirconium	91-1	16750	16513	16302	16522	1.36	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-19 Instrumnet Name : P7
Client Sample ID : MH2GN6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:41:18 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4864023	4863805	4810831	4846219	0.63	cps
Antimony	121-1	24848	26194	25185	25409	2.76	cps
Arsenic	75-2	35910	36167	35519	35865	0.91	cps
Barium	135-1	3988423	3964176	4015618	3989405	0.65	cps
Barium	137-1	6804555	6862354	6902908	6856606	0.72	cps
Beryllium	9-1	14057	14494	14499	14350	1.77	cps
Bismuth	209-1	7296250	7320267	7265053	7293857	0.38	cps
Bismuth	209-2	5958975	6111777	5829296	5966682	2.37	cps
Bromine	81-1	26537	27436	28467	27480	3.51	cps
Bromine	81-2	3050	2910	2930	2964	2.56	cps
Cadmium	108-1	5835	6125	6178	6046	3.06	cps
Cadmium	106-1	11952	11842	12142	11978	1.27	cps
Cadmium	111-1	80000	79233	80539	79924	0.82	cps
Calcium	43-1	8453333	8495438	8559006	8502592	0.63	cps
Calcium	44-1	137098288	138423595	138585345	138035742	0.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	223853	223851	224736	224147	0.23	cps
Cobalt	59-2	245561	243416	243261	244079	0.53	cps
Copper	63-2	1986322	1995639	1990871	1990944	0.23	cps
Dysprosium	156-1	160632	163175	160711	161506	0.90	cps
Dysprosium	156-2	132825	131526	131671	132007	0.54	cps
Erbium	164-1	148941	150548	150834	150108	0.68	cps
Erbium	164-2	109024	107913	108266	108401	0.52	cps
Gadolinium	160-1	166864	167590	165570	166675	0.61	cps
Gadolinium	160-2	128936	127531	128701	128389	0.59	cps
Holmium	165-1	12371048	12410032	12316794	12365958	0.38	cps
Holmium	165-2	8978330	8918415	8560145	8818963	2.56	cps
Indium	115-1	9734113	9721348	9682590	9712684	0.28	cps
Indium	115-2	3527332	3501449	3370663	3466481	2.42	cps
Iron	56-2	256503896	256143156	256409410	256352154	0.07	cps
Iron	57-2	6584757	6476407	6509743	6523636	0.85	cps
Iron	54-2	13981340	14064585	13847101	13964342	0.79	cps
Krypton	83-1	387	440	437	421	7.09	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-19 Instrumnet Name : P7
Client Sample ID : MH2GN6 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:41:18 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	19130731	19129289	19292808	19184276	0.49	cps
Lead	207-1	16735915	16697171	17104674	16845920	1.34	cps
Lead	208-1	76008783	76426131	77190670	76541861	0.78	cps
Lithium	6-1	2078248	2094833	2077830	2083637	0.47	cps
Magnesium	24-2	12601451	12437434	12476903	12505263	0.68	cps
Manganese	55-2	9171964	9130285	9164148	9155466	0.24	cps
Molybdenum	94-1	43906	44451	44337	44231	0.65	cps
Molybdenum	95-1	26484	27486	27476	27149	2.12	cps
Molybdenum	96-1	37515	37635	38430	37860	1.31	cps
Molybdenum	97-1	17214	16620	16816	16883	1.79	cps
Molybdenum	98-1	42609	42582	43037	42742	0.60	cps
Neodymium	150-1	252617	250948	256558	253374	1.14	cps
Neodymium	150-2	154423	154234	155322	154659	0.38	cps
Nickel	60-2	287230	285879	287886	286998	0.36	cps
Phosphorus	31-2	100195	101809	101839	101281	0.93	cps
Potassium	39-2	5272859	5242046	5229156	5248020	0.43	cps
Rhodium	103-1	8680669	8679915	8557907	8639497	0.82	cps
Rhodium	103-2	5836309	5788850	5621962	5749040	1.96	cps
Scandium	45-1	5945566	5901155	5839437	5895386	0.90	cps
Scandium	45-2	542747	541165	523576	535829	1.99	cps
Selenium	82-1	1436	1351	1387	1391	3.04	cps
Selenium	77-2	660	673	713	682	4.07	cps
Selenium	78-2	890	880	1027	932	8.79	cps
Silicon	28-1	95408505	96932262	97394139	96578302	1.08	cps
Silver	107-1	86502	88256	87522	87427	1.01	cps
Silver	109-1	80951	82784	84793	82843	2.32	cps
Sodium	23-2	828128	827167	824944	826746	0.20	cps
Strontium	86-1	4811875	4867233	4816153	4831754	0.64	cps
Strontium	88-1	41429180	42647419	42437346	42171315	1.54	cps
Sulfur	34-1	313035	320095	320044	317725	1.28	cps
Terbium	159-1	12761712	12852537	12621843	12745364	0.91	cps
Terbium	159-2	8914719	8780519	8456541	8717260	2.70	cps
Thallium	203-1	22302	22389	22459	22383	0.35	cps
Thallium	205-1	53073	52896	54372	53447	1.51	cps
Tin	118-1	61166	63225	62669	62353	1.71	cps
Titanium	47-1	153149	156839	155260	155083	1.19	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-19

Instrumnet Name :

P7

Client Sample ID :

MH2GN6

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:41:18

DataFile Name :

070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	313229	320100	317021	316784	1.09	cps
Vanadium	51-2	593394	593860	590743	592666	0.28	cps
Yttrium	89-1	18373413	18453228	18368963	18398535	0.26	cps
Yttrium	89-2	5076198	5060597	4922911	5019902	1.68	cps
Zinc	66-2	3419794	3431733	3405601	3419043	0.38	cps
Zirconium	90-1	77362	79242	77778	78127	1.26	cps
Zirconium	91-1	17053	17404	17357	17271	1.10	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-20 Instrumnet Name : P7
Client Sample ID : MH2GN7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:44:17 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4342685	4268235	4243396	4284772	1.21	cps
Antimony	121-1	21172	21162	21109	21148	0.16	cps
Arsenic	75-2	40305	40167	40455	40309	0.36	cps
Barium	135-1	2681022	2680856	2716048	2692642	0.75	cps
Barium	137-1	4588930	4641276	4585080	4605095	0.68	cps
Beryllium	9-1	14966	14899	14615	14826	1.26	cps
Bismuth	209-1	7307093	7355439	7287530	7316687	0.48	cps
Bismuth	209-2	5645421	6389388	5999621	6011477	6.19	cps
Bromine	81-1	25318	25706	26417	25814	2.16	cps
Bromine	81-2	2720	2580	2650	2650	2.64	cps
Cadmium	108-1	6265	6205	6421	6297	1.78	cps
Cadmium	106-1	11985	12088	12062	12045	0.45	cps
Cadmium	111-1	84899	86272	85944	85705	0.84	cps
Calcium	43-1	9017684	9093329	9120345	9077119	0.59	cps
Calcium	44-1	145399568	147519984	146769298	146562950	0.73	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	193319	188249	190925	190831	1.33	cps
Cobalt	59-2	274842	271827	273898	273522	0.56	cps
Copper	63-2	1688739	1644368	1668369	1667158	1.33	cps
Dysprosium	156-1	167412	169463	167938	168271	0.63	cps
Dysprosium	156-2	135890	135550	136227	135889	0.25	cps
Erbium	164-1	157750	156711	159867	158109	1.02	cps
Erbium	164-2	114272	112827	113278	113459	0.65	cps
Gadolinium	160-1	173510	174232	173877	173873	0.21	cps
Gadolinium	160-2	134337	132250	134303	133630	0.89	cps
Holmium	165-1	12369352	12215532	12229048	12271311	0.69	cps
Holmium	165-2	8136222	9426615	8892870	8818569	7.35	cps
Indium	115-1	9587062	9584838	9596807	9589569	0.07	cps
Indium	115-2	3304685	3699947	3535804	3513478	5.65	cps
Iron	56-2	294216449	292997896	291233336	292815893	0.51	cps
Iron	57-2	7536078	7372878	7450821	7453259	1.10	cps
Iron	54-2	16170187	15944304	15781814	15965435	1.22	cps
Krypton	83-1	483	400	437	440	9.49	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-20 Instrumnet Name : P7
Client Sample ID : MH2GN7 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:44:17 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13592744	13693052	13815525	13700440	0.81	cps
Lead	207-1	12039766	12291475	12269606	12200282	1.14	cps
Lead	208-1	54794430	55606759	55575928	55325705	0.83	cps
Lithium	6-1	2050767	2051356	2052502	2051542	0.04	cps
Magnesium	24-2	12094751	11747043	11746041	11862612	1.69	cps
Manganese	55-2	6347195	6278833	6311644	6312557	0.54	cps
Molybdenum	94-1	53243	53869	54006	53706	0.76	cps
Molybdenum	95-1	47246	48232	47513	47664	1.07	cps
Molybdenum	96-1	60374	59972	60230	60192	0.34	cps
Molybdenum	97-1	28849	29844	30001	29564	2.11	cps
Molybdenum	98-1	75487	75906	76251	75881	0.50	cps
Neodymium	150-1	258280	260502	260257	259680	0.47	cps
Neodymium	150-2	160445	158530	158936	159304	0.63	cps
Nickel	60-2	368176	364925	366791	366631	0.45	cps
Phosphorus	31-2	69667	68536	68040	68748	1.21	cps
Potassium	39-2	3549846	3510016	3491093	3516985	0.85	cps
Rhodium	103-1	8553170	8526852	8553223	8544415	0.18	cps
Rhodium	103-2	5375595	6092115	5767480	5745063	6.25	cps
Scandium	45-1	5891794	5849051	5848519	5863121	0.42	cps
Scandium	45-2	506262	572638	546903	541934	6.18	cps
Selenium	82-1	1575	1685	1614	1625	3.45	cps
Selenium	77-2	793	700	770	754	6.44	cps
Selenium	78-2	1093	1067	887	1016	11.07	cps
Silicon	28-1	76874334	77549872	77442917	77289041	0.47	cps
Silver	107-1	85460	85523	85255	85413	0.16	cps
Silver	109-1	81243	81055	81323	81207	0.17	cps
Sodium	23-2	973163	955942	960536	963214	0.93	cps
Strontium	86-1	5178023	5186293	5209828	5191382	0.32	cps
Strontium	88-1	45055149	45170844	45635973	45287322	0.68	cps
Sulfur	34-1	860564	872193	867815	866857	0.68	cps
Terbium	159-1	12481241	12795418	12485916	12587525	1.43	cps
Terbium	159-2	8120658	9387242	9005994	8837964	7.35	cps
Thallium	203-1	32843	34069	32743	33218	2.22	cps
Thallium	205-1	78183	78834	79732	78916	0.99	cps
Tin	118-1	46201	46692	46582	46491	0.55	cps
Titanium	47-1	122595	121993	121869	122152	0.32	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-20

Instrumnet Name :P7

Client Sample ID :MH2GN7

Dilution Factor :1

Date & Time Acquired :2024-10-31 23:44:17

DataFile Name :071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	379696	382448	379578	380574	0.43	cps
Vanadium	51-2	688935	674381	677571	680296	1.12	cps
Yttrium	89-1	18366469	18260571	18428758	18351933	0.46	cps
Yttrium	89-2	4698676	5300237	5022336	5007083	6.01	cps
Zinc	66-2	2179678	2180458	2170526	2176887	0.25	cps
Zirconium	90-1	71212	73097	72903	72404	1.43	cps
Zirconium	91-1	16239	16469	16296	16335	0.73	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-21 Instrumnet Name : P7
Client Sample ID : MH2GN8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:47:19 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4625939	4598812	4590560	4605104	0.40	cps
Antimony	121-1	20615	20431	20508	20518	0.45	cps
Arsenic	75-2	34373	35075	34731	34726	1.01	cps
Barium	135-1	2813755	2813276	2793451	2806828	0.41	cps
Barium	137-1	4746612	4791716	4791919	4776749	0.55	cps
Beryllium	9-1	15109	15348	15107	15188	0.91	cps
Bismuth	209-1	7349237	7285719	7112563	7249173	1.69	cps
Bismuth	209-2	5891856	5948819	5992711	5944462	0.85	cps
Bromine	81-1	24778	24644	24984	24802	0.69	cps
Bromine	81-2	2490	2407	2527	2475	2.49	cps
Cadmium	108-1	6011	6408	6048	6156	3.56	cps
Cadmium	106-1	11521	11768	11862	11717	1.50	cps
Cadmium	111-1	82408	83275	83875	83186	0.89	cps
Calcium	43-1	9191343	9334379	9359004	9294909	0.97	cps
Calcium	44-1	149500188	150238048	150874678	150204304	0.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	181623	180948	180470	181014	0.32	cps
Cobalt	59-2	289813	290482	289552	289949	0.17	cps
Copper	63-2	1340332	1340028	1342507	1340956	0.10	cps
Dysprosium	156-1	176882	176505	177295	176894	0.22	cps
Dysprosium	156-2	143404	142610	142242	142752	0.42	cps
Erbium	164-1	166570	169623	168594	168262	0.92	cps
Erbium	164-2	122374	120612	122353	121779	0.83	cps
Gadolinium	160-1	184408	186186	184549	185048	0.53	cps
Gadolinium	160-2	142614	141223	142526	142121	0.55	cps
Holmium	165-1	12353396	12517509	12225235	12365380	1.18	cps
Holmium	165-2	8903946	8914831	8725516	8848098	1.20	cps
Indium	115-1	9592530	9564983	9594908	9584140	0.17	cps
Indium	115-2	3502252	3476733	3462481	3480488	0.58	cps
Iron	56-2	298544936	296822862	296416049	297261282	0.38	cps
Iron	57-2	7565427	7509903	7582862	7552731	0.50	cps
Iron	54-2	16159249	16243148	16174553	16192316	0.28	cps
Krypton	83-1	407	473	437	439	7.61	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-21 Instrumnet Name : P7
Client Sample ID : MH2GN8 Dilution Factor : 1
Date & Time Acquired : 2024-10-31 23:47:19 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10470757	10606682	10587422	10554954	0.70	cps
Lead	207-1	9199964	9159226	9357164	9238785	1.13	cps
Lead	208-1	41699613	41814414	42553962	42022663	1.10	cps
Lithium	6-1	2035167	2087548	2039046	2053920	1.42	cps
Magnesium	24-2	12104705	12096534	12059212	12086817	0.20	cps
Manganese	55-2	6067634	6081935	5976057	6041875	0.95	cps
Molybdenum	94-1	55568	55953	56629	56050	0.96	cps
Molybdenum	95-1	49677	49901	50079	49886	0.40	cps
Molybdenum	96-1	62714	63541	63209	63155	0.66	cps
Molybdenum	97-1	30669	31133	31233	31012	0.97	cps
Molybdenum	98-1	78878	79481	79552	79304	0.47	cps
Neodymium	150-1	270139	271231	270237	270536	0.22	cps
Neodymium	150-2	167144	165995	166511	166550	0.35	cps
Nickel	60-2	437720	437312	436663	437232	0.12	cps
Phosphorus	31-2	61670	62363	62223	62085	0.59	cps
Potassium	39-2	3045719	3069434	3043655	3052936	0.47	cps
Rhodium	103-1	8471726	8614051	8343051	8476276	1.60	cps
Rhodium	103-2	5657648	5721600	5688650	5689300	0.56	cps
Scandium	45-1	5902346	5887870	5860080	5883432	0.37	cps
Scandium	45-2	547334	545054	545879	546089	0.21	cps
Selenium	82-1	1514	1422	1605	1514	6.06	cps
Selenium	77-2	787	650	707	714	9.61	cps
Selenium	78-2	1110	1110	983	1068	6.85	cps
Silicon	28-1	74157087	75079014	74672871	74636324	0.62	cps
Silver	107-1	67760	70155	69927	69281	1.91	cps
Silver	109-1	64486	64921	65574	64994	0.84	cps
Sodium	23-2	1031883	1037326	1034881	1034697	0.26	cps
Strontium	86-1	4937721	4971170	4999101	4969331	0.62	cps
Strontium	88-1	43021261	43684248	43425593	43377034	0.77	cps
Sulfur	34-1	782901	784792	784988	784227	0.15	cps
Terbium	159-1	12967659	12631100	12555053	12717937	1.73	cps
Terbium	159-2	8918530	8783486	8846727	8849581	0.76	cps
Thallium	203-1	32382	33441	32389	32737	1.86	cps
Thallium	205-1	77744	78954	78746	78481	0.82	cps
Tin	118-1	53823	53957	53619	53800	0.32	cps
Titanium	47-1	137721	137440	138911	138024	0.57	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-21

Instrumnet Name :

P7

Client Sample ID :

MH2GN8

Dilution Factor :

1

Date & Time Acquired :

2024-10-31 23:47:19

DataFile Name :

072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	401214	397936	397791	398980	0.49	cps
Vanadium	51-2	716887	717306	714333	716176	0.22	cps
Yttrium	89-1	18643766	18588746	18287159	18506557	1.04	cps
Yttrium	89-2	5076997	5097423	5032933	5069118	0.65	cps
Zinc	66-2	1815126	1803551	1787948	1802208	0.76	cps
Zirconium	90-1	74773	75905	76049	75575	0.92	cps
Zirconium	91-1	16893	17627	17137	17219	2.17	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:50:18 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2483596	2504391	2507387	2498458	0.52	cps
Antimony	121-1	19974	20588	20004	20189	1.72	cps
Arsenic	75-2	16332	15919	15765	16005	1.83	cps
Barium	135-1	951012	961174	953643	955276	0.55	cps
Barium	137-1	1840388	1814546	1819492	1824809	0.75	cps
Beryllium	9-1	6898	7133	7096	7042	1.79	cps
Bismuth	209-1	7351964	7097745	7143511	7197740	1.88	cps
Bismuth	209-2	5326165	6289803	6032213	5882727	8.48	cps
Bromine	81-1	20598	20130	20458	20395	1.18	cps
Bromine	81-2	1287	1283	1273	1281	0.54	cps
Cadmium	108-1	2104	1977	1963	2015	3.84	cps
Cadmium	106-1	6201	6231	6128	6187	0.86	cps
Cadmium	111-1	28067	28596	28531	28398	1.02	cps
Calcium	43-1	4552790	4599906	4614900	4589199	0.71	cps
Calcium	44-1	74084084	74578961	73733941	74132328	0.57	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	208268	207234	207673	207725	0.25	cps
Cobalt	59-2	134761	132713	133830	133768	0.77	cps
Copper	63-2	573275	568771	571746	571264	0.40	cps
Dysprosium	156-1	76299	76235	76165	76233	0.09	cps
Dysprosium	156-2	62937	61966	63671	62858	1.36	cps
Erbium	164-1	69170	70118	70380	69889	0.91	cps
Erbium	164-2	51638	50407	50691	50912	1.27	cps
Gadolinium	160-1	77271	78053	77356	77560	0.55	cps
Gadolinium	160-2	60045	60443	59733	60074	0.59	cps
Holmium	165-1	12184250	12228228	12049798	12154092	0.76	cps
Holmium	165-2	7807747	9228246	8809756	8615250	8.47	cps
Indium	115-1	9580218	9479577	9431677	9497157	0.80	cps
Indium	115-2	3024373	3632002	3444920	3367098	9.24	cps
Iron	56-2	138659445	136667835	138534881	137954054	0.81	cps
Iron	57-2	3549959	3464687	3477674	3497440	1.31	cps
Iron	54-2	7601723	7471546	7491505	7521591	0.93	cps
Krypton	83-1	270	277	313	287	8.14	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1 Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:50:18 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3523724	3609807	3579539	3571023	1.22	cps
Lead	207-1	3045674	3029765	3105405	3060281	1.30	cps
Lead	208-1	13908956	13923963	14057529	13963483	0.59	cps
Lithium	6-1	1989418	1991690	1958969	1980026	0.92	cps
Magnesium	24-2	6205522	6241308	6154654	6200495	0.70	cps
Manganese	55-2	3766560	3715362	3759828	3747250	0.74	cps
Molybdenum	94-1	32700	32630	33251	32860	1.04	cps
Molybdenum	95-1	36913	36465	37120	36833	0.91	cps
Molybdenum	96-1	44571	44528	43932	44344	0.80	cps
Molybdenum	97-1	22975	23552	23015	23181	1.39	cps
Molybdenum	98-1	58533	59022	59648	59068	0.95	cps
Neodymium	150-1	118887	119478	119649	119338	0.34	cps
Neodymium	150-2	73771	73601	73333	73568	0.30	cps
Nickel	60-2	147578	145407	148366	147117	1.04	cps
Phosphorus	31-2	31028	31025	30858	30970	0.31	cps
Potassium	39-2	1522168	1503268	1527452	1517629	0.84	cps
Rhodium	103-1	8589716	8511044	8382580	8494447	1.23	cps
Rhodium	103-2	5067873	5916069	5702213	5562052	7.93	cps
Scandium	45-1	5495015	5501406	5409880	5468767	0.93	cps
Scandium	45-2	450213	535801	510412	498809	8.81	cps
Selenium	82-1	1252	1321	1160	1244	6.51	cps
Selenium	77-2	397	353	280	343	17.18	cps
Selenium	78-2	727	690	697	704	2.77	cps
Silicon	28-1	40764668	41497195	40978859	41080241	0.92	cps
Silver	107-1	16953	17104	16810	16956	0.87	cps
Silver	109-1	16022	16489	16112	16208	1.53	cps
Sodium	23-2	371727	372479	373619	372608	0.26	cps
Strontium	86-1	2098744	2087582	2106554	2097626	0.45	cps
Strontium	88-1	18207132	18197469	18458874	18287825	0.81	cps
Sulfur	34-1	1158105	1201678	1160558	1173447	2.09	cps
Terbium	159-1	12409531	12315083	12442879	12389165	0.54	cps
Terbium	159-2	7731937	9193125	8575324	8500129	8.63	cps
Thallium	203-1	14568	14952	14728	14749	1.31	cps
Thallium	205-1	34891	34951	34671	34838	0.42	cps
Tin	118-1	32891	33760	34378	33676	2.22	cps
Titanium	47-1	85905	87273	86911	86696	0.82	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK1

Dilution Factor :

2

Date & Time Acquired :

2024-10-31 23:50:18

DataFile Name :

073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	157319	159812	158483	158538	0.79	cps
Vanadium	51-2	349607	347382	349424	348805	0.35	cps
Yttrium	89-1	16693802	16631284	16541460	16622182	0.46	cps
Yttrium	89-2	4182082	4773258	4579362	4511568	6.68	cps
Zinc	66-2	754520	743555	748508	748861	0.73	cps
Zirconium	90-1	30852	32225	31705	31594	2.19	cps
Zirconium	91-1	7172	7138	7599	7303	3.52	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:53:21 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2494218	2478027	2514986	2495744	0.74	cps
Antimony	121-1	19987	20054	21015	20352	2.83	cps
Arsenic	75-2	16109	15778	15798	15895	1.17	cps
Barium	135-1	943392	948656	941931	944660	0.37	cps
Barium	137-1	1779465	1796922	1781191	1785859	0.54	cps
Beryllium	9-1	6975	7174	7041	7063	1.43	cps
Bismuth	209-1	7092854	7246634	7186404	7175298	1.08	cps
Bismuth	209-2	6068779	6063826	6044804	6059136	0.21	cps
Bromine	81-1	20087	20267	20064	20139	0.55	cps
Bromine	81-2	1280	1357	1283	1307	3.32	cps
Cadmium	108-1	2050	1973	2064	2029	2.39	cps
Cadmium	106-1	6245	5948	5921	6038	2.97	cps
Cadmium	111-1	28065	28119	27940	28041	0.33	cps
Calcium	43-1	4586479	4567609	4542632	4565573	0.48	cps
Calcium	44-1	73745492	73516794	73510767	73591018	0.18	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	207244	202997	206433	205558	1.10	cps
Cobalt	59-2	132035	133016	132556	132535	0.37	cps
Copper	63-2	564368	566720	568146	566411	0.34	cps
Dysprosium	156-1	76540	75944	75468	75984	0.71	cps
Dysprosium	156-2	62468	62665	63024	62719	0.45	cps
Erbium	164-1	70014	70142	70259	70138	0.17	cps
Erbium	164-2	51220	51093	50855	51056	0.36	cps
Gadolinium	160-1	77329	78404	77898	77877	0.69	cps
Gadolinium	160-2	60336	59947	60322	60202	0.37	cps
Holmium	165-1	11969334	12232288	12047797	12083140	1.12	cps
Holmium	165-2	9006982	8733389	8888333	8876235	1.55	cps
Indium	115-1	9354407	9474359	9452486	9427084	0.68	cps
Indium	115-2	3486519	3469589	3459596	3471901	0.39	cps
Iron	56-2	137494485	136695368	136706331	136965395	0.33	cps
Iron	57-2	3476080	3471587	3530745	3492804	0.94	cps
Iron	54-2	7549542	7561561	7476292	7529132	0.61	cps
Krypton	83-1	277	330	327	311	9.60	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1D Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:53:21 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3514846	3538033	3564812	3539230	0.71	cps
Lead	207-1	3017990	3008357	3029765	3018704	0.36	cps
Lead	208-1	13699330	13857372	13889914	13815539	0.74	cps
Lithium	6-1	1966994	1983815	1948555	1966455	0.90	cps
Magnesium	24-2	6129097	6158311	6167394	6151601	0.33	cps
Manganese	55-2	3718055	3662586	3660326	3680322	0.89	cps
Molybdenum	94-1	34009	33077	33234	33440	1.49	cps
Molybdenum	95-1	36586	36365	36726	36559	0.50	cps
Molybdenum	96-1	44103	44180	43926	44069	0.30	cps
Molybdenum	97-1	23135	23365	23362	23288	0.57	cps
Molybdenum	98-1	59173	59688	59789	59550	0.55	cps
Neodymium	150-1	117904	120386	118326	118872	1.12	cps
Neodymium	150-2	73832	73457	73581	73623	0.26	cps
Nickel	60-2	144932	144808	146763	145501	0.75	cps
Phosphorus	31-2	31295	31826	30738	31286	1.74	cps
Potassium	39-2	1493865	1512808	1512688	1506453	0.72	cps
Rhodium	103-1	8503359	8485972	8407722	8465685	0.60	cps
Rhodium	103-2	5710740	5700774	5735250	5715588	0.31	cps
Scandium	45-1	5415388	5415023	5434251	5421554	0.20	cps
Scandium	45-2	509255	507514	506947	507905	0.24	cps
Selenium	82-1	1265	1180	1185	1210	3.97	cps
Selenium	77-2	373	373	317	354	9.23	cps
Selenium	78-2	757	760	707	741	4.03	cps
Silicon	28-1	41181586	41372611	41426628	41326942	0.31	cps
Silver	107-1	17093	16880	17033	17002	0.65	cps
Silver	109-1	15819	15672	16206	15899	1.73	cps
Sodium	23-2	366241	365330	366234	365935	0.14	cps
Strontium	86-1	2130662	2122886	2064550	2106032	1.72	cps
Strontium	88-1	18174102	18265861	18218958	18219640	0.25	cps
Sulfur	34-1	1204473	1188366	1185077	1192638	0.87	cps
Terbium	159-1	12561419	12429604	12229310	12406777	1.35	cps
Terbium	159-2	8808948	8722743	8776539	8769410	0.50	cps
Thallium	203-1	14741	14424	14374	14513	1.37	cps
Thallium	205-1	35092	35075	34447	34871	1.05	cps
Tin	118-1	33472	33816	33369	33552	0.70	cps
Titanium	47-1	86619	87316	87072	87002	0.41	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4552-02DLX2

Instrumnet Name :P7

Client Sample ID :MH2GK1D

Dilution Factor :2

Date & Time Acquired :2024-10-31 23:53:21

DataFile Name :074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	157126	158192	159621	158313	0.79	cps
Vanadium	51-2	349803	348898	349540	349414	0.13	cps
Yttrium	89-1	16609455	16536781	16346570	16497602	0.82	cps
Yttrium	89-2	4599870	4661866	4592453	4618063	0.83	cps
Zinc	66-2	750329	742332	746386	746349	0.54	cps
Zirconium	90-1	31888	31991	32195	32025	0.49	cps
Zirconium	91-1	6948	7102	7479	7176	3.80	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 10
Date & Time Acquired : 2024-10-31 23:56:21 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	532519	532164	524987	529890	0.80	cps
Antimony	121-1	4234	4101	4127	4154	1.70	cps
Arsenic	75-2	3484	3284	3317	3362	3.19	cps
Barium	135-1	200505	202472	201109	201362	0.50	cps
Barium	137-1	348954	347844	345668	347488	0.48	cps
Beryllium	9-1	1450	1519	1471	1480	2.40	cps
Bismuth	209-1	7376397	7229673	7252399	7286156	1.08	cps
Bismuth	209-2	6084700	6215608	6127802	6142703	1.09	cps
Bromine	81-1	16086	16286	16693	16355	1.89	cps
Bromine	81-2	353	310	313	326	7.41	cps
Cadmium	108-1	440	420	480	447	6.84	cps
Cadmium	106-1	3757	3727	3781	3755	0.71	cps
Cadmium	111-1	6239	6377	6047	6221	2.67	cps
Calcium	43-1	997738	1007934	995317	1000330	0.67	cps
Calcium	44-1	15463283	15463972	15468970	15465408	0.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43486	44355	44485	44109	1.23	cps
Cobalt	59-2	28270	28203	27615	28030	1.28	cps
Copper	63-2	125185	123968	122893	124015	0.92	cps
Dysprosium	156-1	15719	16089	15806	15871	1.22	cps
Dysprosium	156-2	13677	13180	13310	13389	1.93	cps
Erbium	164-1	14321	15082	14608	14670	2.62	cps
Erbium	164-2	10661	10774	10557	10664	1.02	cps
Gadolinium	160-1	16046	16146	16416	16203	1.18	cps
Gadolinium	160-2	12703	13073	13056	12944	1.62	cps
Holmium	165-1	11810615	12094673	11841459	11915582	1.31	cps
Holmium	165-2	8571964	8895501	8551452	8672972	2.23	cps
Indium	115-1	9531430	9515645	9521302	9522793	0.08	cps
Indium	115-2	3488144	3559621	3497921	3515229	1.10	cps
Iron	56-2	29081040	29215534	28967243	29087939	0.43	cps
Iron	57-2	754076	755278	749561	752972	0.40	cps
Iron	54-2	1604713	1604317	1557785	1588939	1.70	cps
Krypton	83-1	210	203	177	197	8.97	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK1L Dilution Factor : 10
Date & Time Acquired : 2024-10-31 23:56:21 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	640973	647665	650537	646392	0.76	cps
Lead	207-1	544210	548996	544163	545790	0.51	cps
Lead	208-1	2504976	2525448	2521843	2517422	0.43	cps
Lithium	6-1	1957041	1945009	1898949	1933666	1.59	cps
Magnesium	24-2	1304738	1282829	1291280	1292949	0.85	cps
Manganese	55-2	782706	780554	773453	778904	0.62	cps
Molybdenum	94-1	6932	7189	6928	7016	2.13	cps
Molybdenum	95-1	8042	7886	7889	7939	1.13	cps
Molybdenum	96-1	9150	9320	9543	9337	2.11	cps
Molybdenum	97-1	4821	5034	4941	4932	2.17	cps
Molybdenum	98-1	12445	12269	12599	12438	1.33	cps
Neodymium	150-1	25259	24605	24829	24898	1.34	cps
Neodymium	150-2	15322	15489	15429	15413	0.55	cps
Nickel	60-2	31530	31406	30929	31288	1.01	cps
Phosphorus	31-2	6698	6752	6685	6712	0.53	cps
Potassium	39-2	376939	378302	373308	376183	0.69	cps
Rhodium	103-1	8707145	8621893	8591453	8640164	0.69	cps
Rhodium	103-2	5815501	5856960	5773937	5815466	0.71	cps
Scandium	45-1	5407260	5323932	5347084	5359425	0.80	cps
Scandium	45-2	497201	502707	494868	498258	0.81	cps
Selenium	82-1	660	612	683	652	5.58	cps
Selenium	77-2	80	50	93	74	29.81	cps
Selenium	78-2	370	397	413	393	5.56	cps
Silicon	28-1	8867713	8829064	8730193	8808990	0.81	cps
Silver	107-1	3727	3774	3814	3772	1.15	cps
Silver	109-1	3500	3580	3520	3534	1.18	cps
Sodium	23-2	115560	116862	113646	115356	1.40	cps
Strontium	86-1	419045	417369	416644	417686	0.29	cps
Strontium	88-1	3800762	3847246	3787208	3811738	0.83	cps
Sulfur	34-1	386900	386855	385172	386309	0.25	cps
Terbium	159-1	12212279	12149939	12173654	12178624	0.26	cps
Terbium	159-2	8758287	8682992	8703684	8714988	0.45	cps
Thallium	203-1	3174	3027	3084	3095	2.39	cps
Thallium	205-1	7475	7469	7512	7485	0.31	cps
Tin	118-1	11853	8326	8262	9481	21.68	cps
Titanium	47-1	18037	18351	18201	18197	0.86	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MH2GK1L

Dilution Factor :

10

Date & Time Acquired :

2024-10-31 23:56:21

DataFile Name :

075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33061	32770	33442	33091	1.02	cps
Vanadium	51-2	73290	72717	71665	72557	1.14	cps
Yttrium	89-1	15647507	15564905	15592471	15601628	0.27	cps
Yttrium	89-2	4330398	4455565	4313542	4366501	1.78	cps
Zinc	66-2	161503	162119	159872	161164	0.72	cps
Zirconium	90-1	6935	7395	7352	7227	3.52	cps
Zirconium	91-1	1590	1537	1533	1553	2.05	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:59:33 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2524219	2494926	2452792	2490646	1.44	cps
Antimony	121-1	129604	129833	130294	129910	0.27	cps
Arsenic	75-2	17547	18248	17958	17918	1.97	cps
Barium	135-1	1632081	1632445	1617070	1627199	0.54	cps
Barium	137-1	2799292	2858418	2817477	2825062	1.07	cps
Beryllium	9-1	17251	17124	17288	17221	0.50	cps
Bismuth	209-1	7333296	7213314	7230130	7258913	0.89	cps
Bismuth	209-2	5962305	6066531	6080226	6036354	1.07	cps
Bromine	81-1	18956	19450	19753	19386	2.08	cps
Bromine	81-2	1217	1127	1243	1196	5.11	cps
Cadmium	108-1	2824	2787	3114	2908	6.16	cps
Cadmium	106-1	7215	7492	7355	7354	1.88	cps
Cadmium	111-1	41117	40257	40985	40786	1.13	cps
Calcium	43-1	4373445	4376713	4342943	4364367	0.43	cps
Calcium	44-1	70495521	70452756	70465856	70471377	0.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	307685	309593	305632	307637	0.64	cps
Cobalt	59-2	537611	535377	535432	536140	0.24	cps
Copper	63-2	682824	685490	681681	683332	0.29	cps
Dysprosium	156-1	72422	74195	74148	73588	1.37	cps
Dysprosium	156-2	60446	61246	60754	60815	0.66	cps
Erbium	164-1	67415	67877	67967	67753	0.44	cps
Erbium	164-2	49521	49561	50076	49719	0.62	cps
Gadolinium	160-1	76028	74359	74704	75031	1.17	cps
Gadolinium	160-2	58194	58471	57916	58193	0.48	cps
Holmium	165-1	12143036	12132875	12095092	12123667	0.21	cps
Holmium	165-2	8869842	8878783	8775480	8841368	0.65	cps
Indium	115-1	9527629	9373423	9394981	9432011	0.89	cps
Indium	115-2	3486510	3413190	3469128	3456276	1.11	cps
Iron	56-2	133745691	133308491	132284435	133112872	0.56	cps
Iron	57-2	3364832	3373986	3347657	3362158	0.40	cps
Iron	54-2	7291013	7228533	7337869	7285805	0.75	cps
Krypton	83-1	260	307	250	272	11.11	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK1S Dilution Factor : 2
Date & Time Acquired : 2024-10-31 23:59:33 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3439771	3404552	3440418	3428247	0.60	cps
Lead	207-1	2938698	2932087	2959413	2943399	0.48	cps
Lead	208-1	13521838	13474033	13625461	13540444	0.57	cps
Lithium	6-1	1961326	1923592	1915181	1933366	1.27	cps
Magnesium	24-2	5915671	5923739	5952289	5930566	0.32	cps
Manganese	55-2	3798195	3861372	3812929	3824165	0.86	cps
Molybdenum	94-1	30879	31825	31928	31544	1.83	cps
Molybdenum	95-1	35373	35453	35520	35448	0.21	cps
Molybdenum	96-1	41335	41566	42565	41822	1.56	cps
Molybdenum	97-1	21840	22194	22497	22177	1.48	cps
Molybdenum	98-1	55043	56285	57339	56222	2.04	cps
Neodymium	150-1	115525	115838	113916	115093	0.90	cps
Neodymium	150-2	71574	71068	70900	71181	0.49	cps
Nickel	60-2	241745	243556	243195	242832	0.39	cps
Phosphorus	31-2	30140	29422	29589	29717	1.26	cps
Potassium	39-2	1438191	1438858	1456521	1444523	0.72	cps
Rhodium	103-1	8417512	8369807	8454374	8413898	0.50	cps
Rhodium	103-2	5780376	5750321	5580152	5703616	1.89	cps
Scandium	45-1	5384179	5354203	5405242	5381208	0.48	cps
Scandium	45-2	506144	505890	504201	505412	0.21	cps
Selenium	82-1	3091	3180	3205	3159	1.89	cps
Selenium	77-2	523	533	613	557	8.86	cps
Selenium	78-2	1543	1440	1407	1463	4.87	cps
Silicon	28-1	39241567	39331103	39656071	39409580	0.55	cps
Silver	107-1	85305	87317	87797	86807	1.52	cps
Silver	109-1	82121	82178	82945	82415	0.56	cps
Sodium	23-2	343947	347101	345929	345659	0.46	cps
Strontium	86-1	1997841	2009071	2032466	2013126	0.88	cps
Strontium	88-1	17390558	17387220	17544553	17440777	0.52	cps
Sulfur	34-1	1111614	1111023	1123402	1115346	0.63	cps
Terbium	159-1	12639118	12283500	12269530	12397383	1.69	cps
Terbium	159-2	8690014	8626811	8749800	8688875	0.71	cps
Thallium	203-1	62573	64592	64482	63882	1.78	cps
Thallium	205-1	150505	152349	154433	152429	1.29	cps
Tin	118-1	31394	31548	32149	31697	1.26	cps
Titanium	47-1	81404	81762	81849	81672	0.29	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-03DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK1S

Dilution Factor :

2

Date & Time Acquired :

2024-10-31 23:59:33

DataFile Name :

076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	152762	152490	153118	152790	0.21	cps
Vanadium	51-2	574747	574336	572458	573847	0.21	cps
Yttrium	89-1	16474165	16255849	16319899	16349971	0.69	cps
Yttrium	89-2	4621568	4574178	4515589	4570445	1.16	cps
Zinc	66-2	765711	763807	763279	764266	0.17	cps
Zirconium	90-1	30301	30625	30716	30547	0.71	cps
Zirconium	91-1	6845	7115	6752	6904	2.73	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:08:35 DataFile Name : 079CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13929553	14001864	14125733	14019050	0.71	cps
Antimony	121-1	5285682	5366834	5389914	5347477	1.02	cps
Arsenic	75-2	314601	316062	314268	314977	0.30	cps
Barium	135-1	7440991	7498035	7514802	7484609	0.52	cps
Barium	137-1	12954101	13075706	13211683	13080497	0.99	cps
Beryllium	9-1	1024013	1041805	1055698	1040505	1.53	cps
Bismuth	209-1	6486039	6615843	6528953	6543612	1.01	cps
Bismuth	209-2	5495971	5431516	5411890	5446459	0.81	cps
Bromine	81-1	14514	14594	15021	14710	1.85	cps
Bromine	81-2	90	80	63	78	17.32	cps
Cadmium	108-1	105094	105205	106588	105629	0.79	cps
Cadmium	106-1	151311	153262	152612	152395	0.65	cps
Cadmium	111-1	1333921	1346939	1355920	1345593	0.82	cps
Calcium	43-1	7700370	7819565	7929533	7816490	1.47	cps
Calcium	44-1	123067725	124554155	126202055	124607978	1.26	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2573952	2576268	2603528	2584583	0.64	cps
Cobalt	59-2	4077879	4096195	4091159	4088411	0.23	cps
Copper	63-2	28432500	28621551	28847175	28633742	0.73	cps
Dysprosium	156-1	307	373	363	348	10.34	cps
Dysprosium	156-2	507	530	527	521	2.42	cps
Erbium	164-1	433	350	483	422	15.95	cps
Erbium	164-2	267	287	317	290	8.68	cps
Gadolinium	160-1	290	267	323	293	9.71	cps
Gadolinium	160-2	543	517	423	494	12.74	cps
Holmium	165-1	11585290	11685981	11358669	11543314	1.45	cps
Holmium	165-2	8654564	8448035	8620765	8574455	1.29	cps
Indium	115-1	8577830	8806613	8711805	8698749	1.32	cps
Indium	115-2	3231518	3180724	3287200	3233147	1.65	cps
Iron	56-2	554679952	559449672	558075418	557401681	0.44	cps
Iron	57-2	13914869	13887114	13931506	13911163	0.16	cps
Iron	54-2	30587699	30537067	30841741	30655502	0.53	cps
Krypton	83-1	203	223	223	217	5.33	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:08:35 DataFile Name : 079CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21242317	21570712	21643260	21485430	0.99	cps
Lead	207-1	18655121	18549929	18994371	18733140	1.24	cps
Lead	208-1	84821947	84984569	86457188	85421235	1.05	cps
Lithium	6-1	1827562	1874950	1849954	1850822	1.28	cps
Magnesium	24-2	121085145	121653575	121897432	121545384	0.34	cps
Manganese	55-2	18973502	19228408	19209418	19137109	0.74	cps
Molybdenum	94-1	21504617	21642914	21531894	21559808	0.34	cps
Molybdenum	95-1	31264795	31340910	31866520	31490742	1.04	cps
Molybdenum	96-1	34107581	34270240	34403899	34260574	0.43	cps
Molybdenum	97-1	19408059	19522648	19772439	19567716	0.95	cps
Molybdenum	98-1	50254201	50569141	50604753	50476031	0.38	cps
Neodymium	150-1	500	510	493	501	1.67	cps
Neodymium	150-2	230	207	197	211	8.10	cps
Nickel	60-2	964327	961043	960510	961960	0.21	cps
Phosphorus	31-2	147745	149484	149434	148888	0.67	cps
Potassium	39-2	73411354	73534044	74080647	73675348	0.48	cps
Rhodium	103-1	7608740	7606249	7698728	7637906	0.69	cps
Rhodium	103-2	5230551	5210549	5247025	5229375	0.35	cps
Scandium	45-1	5069943	5124765	5165701	5120136	0.94	cps
Scandium	45-2	504260	502047	507679	504662	0.56	cps
Selenium	82-1	85864	86374	86461	86233	0.37	cps
Selenium	77-2	9627	9520	9510	9552	0.68	cps
Selenium	78-2	31731	31273	32011	31672	1.18	cps
Silicon	28-1	46891699	47513276	48317059	47574012	1.50	cps
Silver	107-1	6948289	7004135	7041408	6997944	0.67	cps
Silver	109-1	6611571	6533567	6610832	6585323	0.68	cps
Sodium	23-2	194229897	196183924	197493244	195969022	0.84	cps
Strontium	86-1	45573986	46420471	46642353	46212270	1.22	cps
Strontium	88-1	402982754	406641807	407366221	405663594	0.58	cps
Sulfur	34-1	628037	630513	636376	631642	0.68	cps
Terbium	159-1	11818581	11819689	11899116	11845796	0.39	cps
Terbium	159-2	8476088	8309123	8415588	8400266	1.01	cps
Thallium	203-1	5444007	5437385	5370481	5417291	0.75	cps
Thallium	205-1	12762747	12954716	12781837	12833100	0.82	cps
Tin	118-1	4739237	4775173	4809976	4774795	0.74	cps
Titanium	47-1	8002766	7925310	8076256	8001444	0.94	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:08:35 DataFile Name : 079CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17314193	17299699	17021186	17211693	0.96	cps
Vanadium	51-2	2296174	2280188	2303675	2293346	0.52	cps
Yttrium	89-1	14579579	14945396	14723884	14749620	1.25	cps
Yttrium	89-2	4188505	4135980	4170084	4164857	0.64	cps
Zinc	66-2	4410486	4407063	4447303	4421617	0.50	cps
Zirconium	90-1	9862130	9907128	9948560	9905939	0.44	cps
Zirconium	91-1	2219421	2221976	2237999	2226466	0.45	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:13:13 DataFile Name : 080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1247	1273	1200	1240	2.99	cps
Antimony	121-1	1760	1793	1907	1820	4.22	cps
Arsenic	75-2	20	37	20	26	37.66	cps
Barium	135-1	707	577	703	662	11.19	cps
Barium	137-1	1393	1050	1070	1171	16.46	cps
Beryllium	9-1	94	94	91	93	2.15	cps
Bismuth	209-1	7259558	7177851	7110878	7182762	1.04	cps
Bismuth	209-2	6081932	6096084	6101059	6093025	0.16	cps
Bromine	81-1	14347	14234	14023	14201	1.16	cps
Bromine	81-2	127	113	97	112	13.39	cps
Cadmium	108-1	7	7	17	10	57.72	cps
Cadmium	106-1	2737	2670	2674	2694	1.40	cps
Cadmium	111-1	396	389	366	383	4.11	cps
Calcium	43-1	1950	2043	1987	1993	2.36	cps
Calcium	44-1	41885	40054	40458	40799	2.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	917	857	927	900	4.21	cps
Cobalt	59-2	237	217	227	227	4.41	cps
Copper	63-2	3104	3127	3194	3141	1.49	cps
Dysprosium	156-1	47	27	37	37	27.27	cps
Dysprosium	156-2	20	30	30	27	21.65	cps
Erbium	164-1	77	93	110	93	17.86	cps
Erbium	164-2	73	93	47	71	32.92	cps
Gadolinium	160-1	43	70	80	64	29.41	cps
Gadolinium	160-2	380	340	307	342	10.73	cps
Holmium	165-1	11526309	11402400	11554199	11494303	0.70	cps
Holmium	165-2	8534791	8354970	8564072	8484611	1.33	cps
Indium	115-1	9208664	9038190	9039085	9095313	1.08	cps
Indium	115-2	3411166	3439641	3405659	3418822	0.53	cps
Iron	56-2	68639	69526	69366	69177	0.68	cps
Iron	57-2	2320	2264	2510	2365	5.46	cps
Iron	54-2	4811	5158	5194	5054	4.19	cps
Krypton	83-1	200	153	167	173	13.87	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:13:13 DataFile Name : 080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4527	4434	4301	4421	2.58	cps
Lead	207-1	3914	3631	3844	3796	3.89	cps
Lead	208-1	17748	16794	17448	17330	2.81	cps
Lithium	6-1	1872314	1912310	1900760	1895128	1.09	cps
Magnesium	24-2	8249	8512	7955	8239	3.38	cps
Manganese	55-2	2027	2100	1990	2039	2.75	cps
Molybdenum	94-1	1383	1533	1533	1483	5.84	cps
Molybdenum	95-1	1640	1617	1520	1592	4.00	cps
Molybdenum	96-1	1903	1800	1950	1885	4.07	cps
Molybdenum	97-1	1030	1077	943	1017	6.66	cps
Molybdenum	98-1	2460	2507	2467	2478	1.02	cps
Neodymium	150-1	67	30	47	48	38.43	cps
Neodymium	150-2	17	23	10	17	39.99	cps
Nickel	60-2	127	170	137	144	15.71	cps
Phosphorus	31-2	120	133	93	116	17.63	cps
Potassium	39-2	52139	52818	53012	52656	0.87	cps
Rhodium	103-1	8437741	8311452	8266046	8338413	1.07	cps
Rhodium	103-2	5737215	5699282	5761480	5732659	0.55	cps
Scandium	45-1	5075240	5122243	5008590	5068691	1.13	cps
Scandium	45-2	477521	479398	480288	479069	0.29	cps
Selenium	82-1	375	494	443	437	13.57	cps
Selenium	77-2	7	7	3	6	34.70	cps
Selenium	78-2	313	347	317	326	5.64	cps
Silicon	28-1	246197	246947	248141	247095	0.40	cps
Silver	107-1	680	673	597	650	7.12	cps
Silver	109-1	497	480	507	494	2.72	cps
Sodium	23-2	41539	40710	41255	41168	1.02	cps
Strontium	86-1	2764	2754	2814	2777	1.16	cps
Strontium	88-1	22010	21302	21018	21443	2.38	cps
Sulfur	34-1	158792	158759	158789	158780	0.01	cps
Terbium	159-1	11710933	11869655	11821474	11800687	0.69	cps
Terbium	159-2	8486847	8385339	8467094	8446426	0.64	cps
Thallium	203-1	630	693	737	687	7.81	cps
Thallium	205-1	1653	1593	1520	1589	4.20	cps
Tin	118-1	2003	2144	2087	2078	3.39	cps
Titanium	47-1	493	343	430	422	17.84	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCB003

Instrumnet Name :

P7

Client Sample ID :

CCB003

Dilution Factor :

1

Date & Time Acquired :

2024-11-01 00:13:13

DataFile Name :

080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	703	697	583	661	10.20	cps
Vanadium	51-2	143	130	233	169	33.28	cps
Yttrium	89-1	14744034	14592637	14497140	14611270	0.85	cps
Yttrium	89-2	4194032	4139795	4147767	4160531	0.70	cps
Zinc	66-2	1093	1053	1070	1072	1.87	cps
Zirconium	90-1	1610	1803	1933	1782	9.13	cps
Zirconium	91-1	393	373	410	392	4.68	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:16:31 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2053513	2061833	2044824	2053390	0.41	cps
Antimony	121-1	12442	12729	13013	12728	2.24	cps
Arsenic	75-2	32900	32499	32633	32677	0.62	cps
Barium	135-1	501033	505691	508893	505206	0.78	cps
Barium	137-1	864177	874206	881814	873399	1.01	cps
Beryllium	9-1	7661	7756	7758	7725	0.72	cps
Bismuth	209-1	7135956	7237373	7079035	7150788	1.12	cps
Bismuth	209-2	5909318	6043159	5956977	5969818	1.14	cps
Bromine	81-1	17277	18248	17924	17816	2.78	cps
Bromine	81-2	877	1110	990	992	11.76	cps
Cadmium	108-1	2127	2314	2210	2217	4.22	cps
Cadmium	106-1	6128	6371	6155	6218	2.15	cps
Cadmium	111-1	30521	29907	30670	30366	1.33	cps
Calcium	43-1	5327055	5350492	5340631	5339393	0.22	cps
Calcium	44-1	85701490	86956802	87530849	86729714	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	81867	82631	82668	82389	0.55	cps
Cobalt	59-2	144736	145218	145295	145083	0.21	cps
Copper	63-2	600175	601697	601301	601058	0.13	cps
Dysprosium	156-1	77911	77164	79054	78043	1.22	cps
Dysprosium	156-2	63978	64702	63911	64197	0.68	cps
Erbium	164-1	73743	73978	75781	74501	1.50	cps
Erbium	164-2	54523	54519	55125	54722	0.64	cps
Gadolinium	160-1	81532	82082	82152	81922	0.41	cps
Gadolinium	160-2	64243	63891	63982	64039	0.29	cps
Holmium	165-1	11830574	11843136	12090974	11921561	1.23	cps
Holmium	165-2	8698237	8801997	8873254	8791163	1.00	cps
Indium	115-1	9347494	9317694	9245566	9303584	0.56	cps
Indium	115-2	3471693	3435911	3424587	3444064	0.71	cps
Iron	56-2	187223404	186097744	187889964	187070371	0.48	cps
Iron	57-2	4735967	4709531	4752160	4732553	0.45	cps
Iron	54-2	10144667	10184054	10071508	10133410	0.56	cps
Krypton	83-1	370	277	273	307	17.89	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:16:31 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2669322	2752970	2729607	2717300	1.59	cps
Lead	207-1	2351515	2382159	2331342	2355005	1.09	cps
Lead	208-1	10793741	10838348	10614666	10748918	1.10	cps
Lithium	6-1	1991379	2021068	2013407	2008618	0.77	cps
Magnesium	24-2	9691510	9674033	9598194	9654579	0.51	cps
Manganese	55-2	2506500	2479261	2465935	2483899	0.83	cps
Molybdenum	94-1	66681	66671	67870	67074	1.03	cps
Molybdenum	95-1	80523	80959	80620	80701	0.28	cps
Molybdenum	96-1	92698	91018	93818	92511	1.52	cps
Molybdenum	97-1	49841	50694	50524	50353	0.90	cps
Molybdenum	98-1	127581	128725	129995	128767	0.94	cps
Neodymium	150-1	117763	120547	122150	120153	1.85	cps
Neodymium	150-2	74804	75537	74931	75091	0.52	cps
Nickel	60-2	211163	210652	211014	210943	0.12	cps
Phosphorus	31-2	25258	25551	25111	25307	0.89	cps
Potassium	39-2	1217667	1214669	1216922	1216419	0.13	cps
Rhodium	103-1	8316926	8334314	8330998	8327413	0.11	cps
Rhodium	103-2	5718056	5703932	5636226	5686071	0.77	cps
Scandium	45-1	5507768	5535516	5558121	5533801	0.46	cps
Scandium	45-2	520736	522690	522809	522078	0.22	cps
Selenium	82-1	2194	2311	2317	2274	3.04	cps
Selenium	77-2	507	430	530	489	10.70	cps
Selenium	78-2	1017	1060	977	1018	4.10	cps
Silicon	28-1	29145805	29146803	29489595	29260734	0.68	cps
Silver	107-1	20959	20431	20134	20508	2.04	cps
Silver	109-1	19333	19440	19280	19351	0.42	cps
Sodium	23-2	406736	406310	405582	406210	0.14	cps
Strontium	86-1	2727984	2711326	2747376	2728895	0.66	cps
Strontium	88-1	23487885	23797233	23873039	23719385	0.86	cps
Sulfur	34-1	2140955	2158133	2151982	2150357	0.40	cps
Terbium	159-1	12219584	12177504	12131275	12176121	0.36	cps
Terbium	159-2	8762625	8544812	8753387	8686941	1.42	cps
Thallium	203-1	21230	20723	20649	20867	1.52	cps
Thallium	205-1	50289	49296	49814	49800	1.00	cps
Tin	118-1	26521	26398	26608	26509	0.40	cps
Titanium	47-1	51317	52748	53484	52516	2.10	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:16:31

DataFile Name :

081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	200704	201968	200058	200910	0.48	cps
Vanadium	51-2	407863	407392	409788	408348	0.31	cps
Yttrium	89-1	16295593	16427965	16499792	16407783	0.63	cps
Yttrium	89-2	4633534	4601239	4578987	4604587	0.60	cps
Zinc	66-2	689653	689500	688732	689295	0.07	cps
Zirconium	90-1	55273	56696	56378	56116	1.33	cps
Zirconium	91-1	12549	12686	12439	12558	0.99	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:19:33 DataFile Name : 082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1986703	2005605	2003902	1998737	0.52	cps
Antimony	121-1	11832	11495	11431	11586	1.86	cps
Arsenic	75-2	30972	30795	30535	30767	0.72	cps
Barium	135-1	491584	495568	496300	494484	0.51	cps
Barium	137-1	853240	855321	848427	852329	0.41	cps
Beryllium	9-1	7657	7645	7733	7678	0.63	cps
Bismuth	209-1	7126174	6987775	7029003	7047651	1.01	cps
Bismuth	209-2	5937830	5872605	5929131	5913189	0.60	cps
Bromine	81-1	18038	18495	18435	18323	1.36	cps
Bromine	81-2	883	877	943	901	4.07	cps
Cadmium	108-1	2390	1997	2230	2206	8.97	cps
Cadmium	106-1	6358	6381	6195	6311	1.61	cps
Cadmium	111-1	29749	30888	30115	30251	1.92	cps
Calcium	43-1	5388719	5444670	5358191	5397193	0.81	cps
Calcium	44-1	87839729	87783389	86765805	87462974	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	80296	80282	80500	80359	0.15	cps
Cobalt	59-2	144830	143346	142933	143703	0.69	cps
Copper	63-2	589925	583548	585493	586322	0.56	cps
Dysprosium	156-1	77838	78498	78233	78189	0.42	cps
Dysprosium	156-2	62840	63710	63325	63292	0.69	cps
Erbium	164-1	73706	74376	74406	74163	0.53	cps
Erbium	164-2	54198	52746	54027	53657	1.48	cps
Gadolinium	160-1	82585	82933	83406	82975	0.50	cps
Gadolinium	160-2	63493	63379	63633	63502	0.20	cps
Holmium	165-1	12075876	12093815	11815514	11995069	1.30	cps
Holmium	165-2	8767417	8768713	8566969	8701033	1.33	cps
Indium	115-1	9474130	9326223	9343385	9381246	0.86	cps
Indium	115-2	3517674	3467159	3443740	3476191	1.09	cps
Iron	56-2	180760497	178864691	177609937	179078375	0.89	cps
Iron	57-2	4505466	4507460	4583256	4532061	0.98	cps
Iron	54-2	9862603	9701847	9823293	9795914	0.86	cps
Krypton	83-1	327	253	273	284	13.33	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2D Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:19:33 DataFile Name : 082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2651870	2660653	2640411	2650978	0.38	cps
Lead	207-1	2353556	2331846	2256825	2314076	2.19	cps
Lead	208-1	10646104	10594302	10386427	10542278	1.30	cps
Lithium	6-1	2003936	2044253	2025835	2024675	1.00	cps
Magnesium	24-2	9699851	9634552	9572089	9635497	0.66	cps
Manganese	55-2	2497570	2449854	2465981	2471135	0.98	cps
Molybdenum	94-1	61472	61686	62215	61791	0.62	cps
Molybdenum	95-1	74991	73658	74367	74339	0.90	cps
Molybdenum	96-1	85853	85166	86587	85869	0.83	cps
Molybdenum	97-1	46136	45905	46514	46185	0.67	cps
Molybdenum	98-1	117319	119594	119423	118779	1.07	cps
Neodymium	150-1	118964	120265	119216	119482	0.58	cps
Neodymium	150-2	73534	74197	74083	73938	0.48	cps
Nickel	60-2	206610	205381	201856	204616	1.21	cps
Phosphorus	31-2	25294	25601	24309	25068	2.69	cps
Potassium	39-2	1188542	1191468	1193413	1191141	0.21	cps
Rhodium	103-1	8461988	8446759	8397406	8435384	0.40	cps
Rhodium	103-2	5764883	5731671	5626436	5707663	1.27	cps
Scandium	45-1	5668831	5662889	5627840	5653187	0.39	cps
Scandium	45-2	529382	527358	525677	527472	0.35	cps
Selenium	82-1	2233	2238	2254	2242	0.49	cps
Selenium	77-2	480	437	490	469	6.05	cps
Selenium	78-2	1150	970	1050	1057	8.53	cps
Silicon	28-1	29521249	29590335	29484852	29532145	0.18	cps
Silver	107-1	19951	20384	20094	20143	1.10	cps
Silver	109-1	18445	19363	18716	18841	2.50	cps
Sodium	23-2	401170	405020	407857	404682	0.83	cps
Strontium	86-1	2689821	2724075	2741773	2718556	0.97	cps
Strontium	88-1	23448783	23387721	23847608	23561371	1.06	cps
Sulfur	34-1	2191388	2209010	2183666	2194688	0.59	cps
Terbium	159-1	12229460	12209425	12387863	12275583	0.80	cps
Terbium	159-2	8906363	8621178	8682372	8736638	1.72	cps
Thallium	203-1	20035	19841	20195	20024	0.88	cps
Thallium	205-1	47526	48432	47188	47715	1.35	cps
Tin	118-1	23930	23927	23963	23940	0.09	cps
Titanium	47-1	49755	51213	50136	50368	1.50	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-02DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2D

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:19:33

DataFile Name :

082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	198103	198561	197794	198153	0.19	cps
Vanadium	51-2	397649	396362	395960	396657	0.22	cps
Yttrium	89-1	16598598	16625464	16726960	16650341	0.41	cps
Yttrium	89-2	4624975	4689107	4621894	4645325	0.82	cps
Zinc	66-2	682113	680223	676967	679768	0.38	cps
Zirconium	90-1	51918	52801	53664	52794	1.65	cps
Zirconium	91-1	11741	11625	11938	11768	1.35	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 10
Date & Time Acquired : 2024-11-01 00:22:38 DataFile Name : 083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	419354	419536	420607	419832	0.16	cps
Antimony	121-1	2584	2720	2917	2740	6.12	cps
Arsenic	75-2	6458	6702	6665	6608	1.99	cps
Barium	135-1	101582	103147	102845	102525	0.81	cps
Barium	137-1	175525	176689	178660	176958	0.90	cps
Beryllium	9-1	1712	1618	1618	1649	3.31	cps
Bismuth	209-1	7326469	7197226	7115040	7212912	1.48	cps
Bismuth	209-2	6094794	6158854	6118520	6124056	0.53	cps
Bromine	81-1	16186	15939	16249	16124	1.02	cps
Bromine	81-2	307	287	327	307	6.52	cps
Cadmium	108-1	560	403	480	481	16.28	cps
Cadmium	106-1	3971	3844	3697	3837	3.57	cps
Cadmium	111-1	6373	6684	6662	6573	2.64	cps
Calcium	43-1	1140009	1150844	1148264	1146372	0.49	cps
Calcium	44-1	17689266	17743406	17836436	17756369	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17831	17484	17857	17724	1.18	cps
Cobalt	59-2	29806	29526	30210	29848	1.15	cps
Copper	63-2	126788	126298	126801	126629	0.23	cps
Dysprosium	156-1	15709	16053	15802	15855	1.12	cps
Dysprosium	156-2	12909	12899	13013	12940	0.49	cps
Erbium	164-1	15325	15028	15085	15146	1.04	cps
Erbium	164-2	11108	11281	10971	11120	1.40	cps
Gadolinium	160-1	16426	16647	16353	16475	0.93	cps
Gadolinium	160-2	12833	13150	13140	13041	1.38	cps
Holmium	165-1	11806325	11820222	11768981	11798510	0.22	cps
Holmium	165-2	8687676	8678393	8720789	8695619	0.26	cps
Indium	115-1	9624637	9607601	9507922	9580053	0.66	cps
Indium	115-2	3506622	3488909	3486212	3493914	0.32	cps
Iron	56-2	37760251	37950237	37978697	37896395	0.31	cps
Iron	57-2	979414	978585	976368	978122	0.16	cps
Iron	54-2	2094724	2066488	2090555	2083922	0.73	cps
Krypton	83-1	167	247	217	210	19.24	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-01LDLX10 Instrumnet Name : P7
Client Sample ID : MH2GK2L Dilution Factor : 10
Date & Time Acquired : 2024-11-01 00:22:38 DataFile Name : 083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	463016	462567	464330	463304	0.20	cps
Lead	207-1	400771	397271	401358	399800	0.55	cps
Lead	208-1	1838887	1839328	1844989	1841068	0.18	cps
Lithium	6-1	1972158	1978361	1962965	1971162	0.39	cps
Magnesium	24-2	1984613	1959289	1959198	1967700	0.74	cps
Manganese	55-2	500919	501936	498204	500353	0.39	cps
Molybdenum	94-1	14170	14090	14237	14166	0.52	cps
Molybdenum	95-1	16816	16726	17157	16900	1.34	cps
Molybdenum	96-1	19500	19640	19957	19699	1.19	cps
Molybdenum	97-1	10471	10517	10984	10657	2.67	cps
Molybdenum	98-1	27766	26718	27272	27252	1.92	cps
Neodymium	150-1	24632	24378	24451	24487	0.53	cps
Neodymium	150-2	15095	15238	15001	15112	0.79	cps
Nickel	60-2	43750	43075	43296	43374	0.79	cps
Phosphorus	31-2	5158	5131	5134	5141	0.28	cps
Potassium	39-2	294598	292325	294003	293642	0.40	cps
Rhodium	103-1	8735673	8697986	8657686	8697115	0.45	cps
Rhodium	103-2	5873434	5891663	5822010	5862369	0.62	cps
Scandium	45-1	5514579	5497286	5463162	5491675	0.48	cps
Scandium	45-2	511655	512628	512781	512354	0.12	cps
Selenium	82-1	940	873	846	886	5.41	cps
Selenium	77-2	90	83	117	97	18.25	cps
Selenium	78-2	470	433	537	480	10.91	cps
Silicon	28-1	6199367	6146652	6256468	6200829	0.89	cps
Silver	107-1	4391	4374	4364	4376	0.31	cps
Silver	109-1	4044	4221	3974	4080	3.12	cps
Sodium	23-2	131471	130141	129485	130366	0.78	cps
Strontium	86-1	525171	525684	527791	526215	0.26	cps
Strontium	88-1	4795419	4787417	4825362	4802733	0.42	cps
Sulfur	34-1	581341	582042	583450	582278	0.18	cps
Terbium	159-1	12291330	12225986	11985978	12167765	1.32	cps
Terbium	159-2	8718856	8736562	8732732	8729383	0.11	cps
Thallium	203-1	4277	4271	4284	4277	0.16	cps
Thallium	205-1	10197	10264	9603	10022	3.63	cps
Tin	118-1	6985	7015	6942	6981	0.53	cps
Titanium	47-1	11381	11004	10794	11060	2.69	cps

LB Number :LB133242

Operator :Jaswal

Lab Sample ID :P4553-01LDLX10

Instrumnet Name :P7

Client Sample ID :MH2GK2L

Dilution Factor :10

Date & Time Acquired :2024-11-01 00:22:38

DataFile Name :083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	38676	39936	39813	39475	1.76	cps
Vanadium	51-2	83563	82155	81783	82500	1.14	cps
Yttrium	89-1	16006265	15735603	15679231	15807033	1.11	cps
Yttrium	89-2	4383950	4386998	4351216	4374055	0.45	cps
Zinc	66-2	144158	145537	144050	144582	0.57	cps
Zirconium	90-1	12018	12038	12345	12134	1.51	cps
Zirconium	91-1	2670	2747	2810	2743	2.56	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:25:48 DataFile Name : 084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2067662	2034379	2042645	2048229	0.85	cps
Antimony	121-1	125808	127112	125949	126290	0.57	cps
Arsenic	75-2	34453	34600	34721	34591	0.39	cps
Barium	135-1	1101976	1113411	1116185	1110524	0.68	cps
Barium	137-1	2070076	2090715	2087818	2082870	0.54	cps
Beryllium	9-1	18239	18646	18908	18598	1.81	cps
Bismuth	209-1	7182055	7142449	7141929	7155478	0.32	cps
Bismuth	209-2	5827027	5970754	5273719	5690500	6.47	cps
Bromine	81-1	18408	18609	18335	18451	0.77	cps
Bromine	81-2	817	913	1057	929	13.00	cps
Cadmium	108-1	3427	3127	3230	3262	4.67	cps
Cadmium	106-1	7976	7535	7802	7771	2.85	cps
Cadmium	111-1	43596	44427	43502	43841	1.16	cps
Calcium	43-1	5318856	5427474	5481722	5409351	1.53	cps
Calcium	44-1	85950759	86807125	87224979	86660954	0.75	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	193923	192174	194052	193383	0.54	cps
Cobalt	59-2	568687	567505	570022	568738	0.22	cps
Copper	63-2	736304	734297	731919	734173	0.30	cps
Dysprosium	156-1	76882	76219	78065	77055	1.21	cps
Dysprosium	156-2	63965	63178	64065	63736	0.76	cps
Erbium	164-1	74005	74172	73318	73831	0.61	cps
Erbium	164-2	53278	53549	54372	53733	1.06	cps
Gadolinium	160-1	80881	82859	82454	82065	1.27	cps
Gadolinium	160-2	63366	63044	63911	63440	0.69	cps
Holmium	165-1	12009137	12028047	12131331	12056172	0.55	cps
Holmium	165-2	8731292	8834595	7712032	8425973	7.36	cps
Indium	115-1	9386095	9448954	9349788	9394946	0.53	cps
Indium	115-2	3483443	3438291	2986322	3302685	8.32	cps
Iron	56-2	182746944	181576144	183252071	182525053	0.47	cps
Iron	57-2	4656721	4626988	4636879	4640196	0.33	cps
Iron	54-2	10002836	9910083	9979865	9964261	0.48	cps
Krypton	83-1	307	400	277	328	19.62	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4553-03DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK2S Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:25:48 DataFile Name : 084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2616968	2664831	2638114	2639971	0.91	cps
Lead	207-1	2330429	2339481	2267222	2312377	1.70	cps
Lead	208-1	10595532	10566300	10483993	10548609	0.55	cps
Lithium	6-1	2021100	2018528	1998847	2012825	0.60	cps
Magnesium	24-2	9487908	9478773	9488845	9485176	0.06	cps
Manganese	55-2	2671423	2646056	2676778	2664752	0.62	cps
Molybdenum	94-1	61863	63316	63393	62857	1.37	cps
Molybdenum	95-1	76003	77581	78100	77228	1.41	cps
Molybdenum	96-1	88244	89176	89176	88865	0.61	cps
Molybdenum	97-1	47270	48320	48433	48007	1.34	cps
Molybdenum	98-1	122626	123311	124596	123511	0.81	cps
Neodymium	150-1	117969	119569	119222	118920	0.71	cps
Neodymium	150-2	73048	72827	73524	73133	0.49	cps
Nickel	60-2	316829	314026	314166	315007	0.50	cps
Phosphorus	31-2	24576	24944	24857	24792	0.77	cps
Potassium	39-2	1194698	1188761	1196833	1193431	0.35	cps
Rhodium	103-1	8552187	8487674	8370614	8470159	1.09	cps
Rhodium	103-2	5717319	5762883	4951743	5477315	8.32	cps
Scandium	45-1	5619039	5654032	5571840	5614971	0.73	cps
Scandium	45-2	525427	528643	462397	505489	7.39	cps
Selenium	82-1	4306	4325	4350	4327	0.50	cps
Selenium	77-2	707	680	643	677	4.70	cps
Selenium	78-2	1763	1730	1760	1751	1.05	cps
Silicon	28-1	27500729	27880785	27818003	27733172	0.73	cps
Silver	107-1	90960	93086	91751	91932	1.17	cps
Silver	109-1	86171	88119	86855	87048	1.14	cps
Sodium	23-2	398596	398881	404083	400520	0.77	cps
Strontium	86-1	2642381	2687741	2676703	2668942	0.89	cps
Strontium	88-1	22964756	23195933	23240839	23133843	0.64	cps
Sulfur	34-1	2149081	2178280	2181114	2169491	0.82	cps
Terbium	159-1	12516635	12359904	12218588	12365042	1.21	cps
Terbium	159-2	8705637	8707815	7567225	8326892	7.90	cps
Thallium	203-1	70796	70779	72080	71218	1.05	cps
Thallium	205-1	166945	168997	169723	168555	0.85	cps
Tin	118-1	26351	27289	26625	26755	1.80	cps
Titanium	47-1	52681	53256	53962	53300	1.20	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4553-03DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK2S

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:25:48

DataFile Name :

084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	196089	196856	199355	197434	0.86	cps
Vanadium	51-2	648213	647774	651606	649198	0.32	cps
Yttrium	89-1	16803254	16781979	16788566	16791266	0.06	cps
Yttrium	89-2	4667996	4672707	4077130	4472611	7.66	cps
Zinc	66-2	728968	732410	728781	730053	0.28	cps
Zirconium	90-1	50624	51433	51446	51168	0.92	cps
Zirconium	91-1	11488	11528	11535	11517	0.22	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:28:52 DataFile Name : 085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2304002	2281505	2255699	2280402	1.06	cps
Antimony	121-1	13930	13420	13860	13737	2.01	cps
Arsenic	75-2	10437	10224	10684	10448	2.20	cps
Barium	135-1	1346487	1370473	1354143	1357034	0.90	cps
Barium	137-1	2585543	2551015	2540863	2559140	0.92	cps
Beryllium	9-1	5443	5300	5091	5278	3.35	cps
Bismuth	209-1	7237581	7250713	7165676	7217990	0.63	cps
Bismuth	209-2	6044596	6041536	6025407	6037179	0.17	cps
Bromine	81-1	23916	23649	24881	24149	2.68	cps
Bromine	81-2	2060	2007	2127	2065	2.91	cps
Cadmium	108-1	1623	1747	1483	1618	8.14	cps
Cadmium	106-1	6045	5504	5281	5610	7.00	cps
Cadmium	111-1	22400	22289	21897	22195	1.19	cps
Calcium	43-1	2500277	2512596	2517553	2510142	0.35	cps
Calcium	44-1	40275210	40661254	40618365	40518276	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	217894	217424	218666	217995	0.29	cps
Cobalt	59-2	79777	78805	78571	79051	0.81	cps
Copper	63-2	618590	616986	617337	617638	0.14	cps
Dysprosium	156-1	55683	54656	55415	55251	0.96	cps
Dysprosium	156-2	46152	46296	45343	45930	1.12	cps
Erbium	164-1	49487	50347	49688	49841	0.90	cps
Erbium	164-2	35548	36227	36317	36031	1.17	cps
Gadolinium	160-1	55285	55486	55128	55300	0.32	cps
Gadolinium	160-2	43093	42584	43374	43017	0.93	cps
Holmium	165-1	12099401	11938547	11919159	11985702	0.83	cps
Holmium	165-2	8881890	8762498	8822433	8822274	0.68	cps
Indium	115-1	9552947	9529270	9486378	9522865	0.35	cps
Indium	115-2	3495507	3458976	3489294	3481259	0.56	cps
Iron	56-2	82632419	81891802	81830627	82118283	0.54	cps
Iron	57-2	2087157	2093045	2062346	2080849	0.78	cps
Iron	54-2	4523692	4514458	4471588	4503246	0.62	cps
Krypton	83-1	280	210	310	267	19.25	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK7 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:28:52 DataFile Name : 085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3879233	3849341	3832442	3853672	0.61	cps
Lead	207-1	3353798	3380285	3332957	3355680	0.71	cps
Lead	208-1	15181609	15430334	15087302	15233082	1.16	cps
Lithium	6-1	2037064	2014832	2010000	2020632	0.71	cps
Magnesium	24-2	5245944	5227400	5258137	5243827	0.30	cps
Manganese	55-2	3800826	3758914	3761979	3773906	0.62	cps
Molybdenum	94-1	16133	15765	15385	15761	2.37	cps
Molybdenum	95-1	10998	10921	11191	11036	1.26	cps
Molybdenum	96-1	14507	14774	14791	14691	1.08	cps
Molybdenum	97-1	6952	6908	6942	6934	0.33	cps
Molybdenum	98-1	17584	17738	17431	17584	0.87	cps
Neodymium	150-1	87415	87630	87808	87618	0.22	cps
Neodymium	150-2	54351	53136	53377	53622	1.20	cps
Nickel	60-2	91272	90051	90621	90648	0.67	cps
Phosphorus	31-2	45996	45090	44739	45275	1.43	cps
Potassium	39-2	2208163	2198796	2155916	2187625	1.27	cps
Rhodium	103-1	8754657	8577592	8647088	8659779	1.03	cps
Rhodium	103-2	5822624	5830239	5796377	5816413	0.31	cps
Scandium	45-1	5534857	5485010	5409726	5476531	1.15	cps
Scandium	45-2	519254	508695	514797	514248	1.03	cps
Selenium	82-1	1016	1075	915	1002	8.10	cps
Selenium	77-2	230	263	227	240	8.45	cps
Selenium	78-2	583	640	483	569	13.94	cps
Silicon	28-1	54775298	54966038	54800966	54847434	0.19	cps
Silver	107-1	20621	21199	21229	21016	1.63	cps
Silver	109-1	19767	19720	19967	19818	0.66	cps
Sodium	23-2	432472	432314	431186	431991	0.16	cps
Strontium	86-1	1592979	1603219	1616651	1604283	0.74	cps
Strontium	88-1	13981996	13996473	13838066	13938845	0.63	cps
Sulfur	34-1	304513	302324	301757	302865	0.48	cps
Terbium	159-1	12355454	12271276	12341051	12322594	0.37	cps
Terbium	159-2	8686034	8674317	8629365	8663238	0.35	cps
Thallium	203-1	8102	8183	8102	8129	0.57	cps
Thallium	205-1	19167	19180	19117	19155	0.17	cps
Tin	118-1	45826	46423	44589	45612	2.05	cps
Titanium	47-1	105260	105868	103651	104927	1.09	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-08DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK7

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:28:52

DataFile Name :

085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	122323	122760	122074	122386	0.28	cps
Vanadium	51-2	219748	218738	220179	219555	0.34	cps
Yttrium	89-1	16595224	16315856	16240965	16384015	1.14	cps
Yttrium	89-2	4589746	4502009	4492163	4527973	1.19	cps
Zinc	66-2	894206	881786	882238	886077	0.79	cps
Zirconium	90-1	25315	25779	26973	26023	3.29	cps
Zirconium	91-1	5614	5561	6051	5742	4.68	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:31:52 DataFile Name : 086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2830569	2808100	2811205	2816625	0.43	cps
Antimony	121-1	20625	20572	20685	20627	0.28	cps
Arsenic	75-2	16052	16005	15965	16008	0.27	cps
Barium	135-1	2237998	2241114	2226330	2235147	0.35	cps
Barium	137-1	3811893	3777328	3827849	3805690	0.68	cps
Beryllium	9-1	6729	6738	7005	6824	2.30	cps
Bismuth	209-1	7294897	7294981	7020803	7203560	2.20	cps
Bismuth	209-2	6009049	5999267	5984345	5997554	0.21	cps
Bromine	81-1	23579	24637	23652	23956	2.47	cps
Bromine	81-2	1963	1977	2080	2007	3.18	cps
Cadmium	108-1	2460	2260	2367	2362	4.24	cps
Cadmium	106-1	6258	6838	6718	6605	4.64	cps
Cadmium	111-1	31266	32480	31922	31890	1.90	cps
Calcium	43-1	3487185	3469273	3517956	3491471	0.71	cps
Calcium	44-1	55893106	56409802	56383351	56228753	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	149213	148816	146951	148327	0.81	cps
Cobalt	59-2	107327	106739	106806	106957	0.30	cps
Copper	63-2	921832	920904	920794	921176	0.06	cps
Dysprosium	156-1	67926	68714	68811	68484	0.71	cps
Dysprosium	156-2	56888	56466	56714	56689	0.37	cps
Erbium	164-1	64461	64046	64568	64358	0.43	cps
Erbium	164-2	46618	46644	45871	46378	0.95	cps
Gadolinium	160-1	69944	71317	68938	70066	1.70	cps
Gadolinium	160-2	53699	54185	54000	53961	0.45	cps
Holmium	165-1	12243440	12087295	11935001	12088579	1.28	cps
Holmium	165-2	8766101	8727079	8810823	8768001	0.48	cps
Indium	115-1	9570915	9663943	9428270	9554376	1.24	cps
Indium	115-2	3516003	3472187	3476961	3488384	0.69	cps
Iron	56-2	114260485	112664082	112522038	113148868	0.85	cps
Iron	57-2	2873592	2849272	2826194	2849686	0.83	cps
Iron	54-2	6230651	6161676	6126138	6172822	0.86	cps
Krypton	83-1	353	347	283	328	11.79	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2GK8 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:31:52 DataFile Name : 086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6325586	6351321	6429028	6368645	0.85	cps
Lead	207-1	5385584	5526329	5500829	5470914	1.37	cps
Lead	208-1	25056524	25305371	25014163	25125353	0.63	cps
Lithium	6-1	2007193	2010246	2028192	2015211	0.56	cps
Magnesium	24-2	5465109	5425978	5409010	5433366	0.53	cps
Manganese	55-2	3785643	3742725	3740899	3756423	0.67	cps
Molybdenum	94-1	21824	21319	20922	21355	2.12	cps
Molybdenum	95-1	15402	15932	15652	15662	1.69	cps
Molybdenum	96-1	20201	20451	20394	20349	0.64	cps
Molybdenum	97-1	9570	9533	9703	9602	0.93	cps
Molybdenum	98-1	25062	24741	24584	24796	0.98	cps
Neodymium	150-1	109658	108621	107883	108721	0.82	cps
Neodymium	150-2	67259	67350	66489	67033	0.71	cps
Nickel	60-2	119800	118161	118661	118874	0.71	cps
Phosphorus	31-2	38154	37693	37352	37733	1.07	cps
Potassium	39-2	1668081	1635890	1644207	1649393	1.01	cps
Rhodium	103-1	8675862	8650457	8465883	8597401	1.33	cps
Rhodium	103-2	5770989	5755970	5844538	5790499	0.82	cps
Scandium	45-1	5505792	5528565	5425814	5486724	0.98	cps
Scandium	45-2	514650	516656	514233	515179	0.25	cps
Selenium	82-1	873	993	992	953	7.26	cps
Selenium	77-2	307	267	257	277	9.56	cps
Selenium	78-2	640	603	610	618	3.16	cps
Silicon	28-1	44471016	45475181	44866314	44937504	1.13	cps
Silver	107-1	33793	35019	34314	34375	1.79	cps
Silver	109-1	31421	31938	32279	31880	1.36	cps
Sodium	23-2	504849	499884	499943	501558	0.57	cps
Strontium	86-1	1998210	2063029	2044487	2035242	1.64	cps
Strontium	88-1	17525949	17573238	17656056	17585081	0.37	cps
Sulfur	34-1	273141	276252	276076	275156	0.64	cps
Terbium	159-1	12357444	12257775	12315590	12310270	0.41	cps
Terbium	159-2	8704473	8725615	8831180	8753756	0.78	cps
Thallium	203-1	9674	10417	9997	10029	3.72	cps
Thallium	205-1	24455	24105	24041	24200	0.92	cps
Tin	118-1	73141	74072	73419	73544	0.65	cps
Titanium	47-1	111255	114830	113380	113155	1.59	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-09DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GK8

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:31:52

DataFile Name :

086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	121478	123433	123207	122706	0.87	cps
Vanadium	51-2	284520	286415	284396	285110	0.40	cps
Yttrium	89-1	16796342	16716804	16724776	16745974	0.26	cps
Yttrium	89-2	4638115	4618731	4596414	4617753	0.45	cps
Zinc	66-2	1076905	1075338	1070063	1074102	0.33	cps
Zirconium	90-1	32155	33588	33619	33121	2.53	cps
Zirconium	91-1	7682	7669	7295	7549	2.91	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:34:52 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2189270	2201785	2211318	2200791	0.50	cps
Antimony	121-1	12349	12482	12232	12354	1.01	cps
Arsenic	75-2	12862	12409	12665	12645	1.80	cps
Barium	135-1	1794238	1838754	1828945	1820646	1.28	cps
Barium	137-1	3116607	3144392	3140891	3133963	0.48	cps
Beryllium	9-1	7432	7439	7667	7512	1.78	cps
Bismuth	209-1	7332879	7318394	7365949	7339074	0.33	cps
Bismuth	209-2	6082119	6116896	6082203	6093740	0.33	cps
Bromine	81-1	21022	21870	21926	21606	2.35	cps
Bromine	81-2	1643	1693	1523	1620	5.39	cps
Cadmium	108-1	3264	3067	2937	3089	5.32	cps
Cadmium	106-1	7642	7856	7579	7692	1.89	cps
Cadmium	111-1	42667	42542	43468	42892	1.17	cps
Calcium	43-1	4400974	4438215	4409119	4416103	0.44	cps
Calcium	44-1	71946211	71938252	72018001	71967488	0.06	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90033	89577	88773	89461	0.71	cps
Cobalt	59-2	116813	118772	117354	117646	0.86	cps
Copper	63-2	770025	771126	770666	770605	0.07	cps
Dysprosium	156-1	81032	82172	81408	81537	0.71	cps
Dysprosium	156-2	66647	66701	67602	66983	0.80	cps
Erbium	164-1	76025	76840	75999	76288	0.63	cps
Erbium	164-2	54686	55202	55366	55085	0.64	cps
Gadolinium	160-1	83269	84724	84862	84285	1.05	cps
Gadolinium	160-2	65559	65197	65747	65501	0.43	cps
Holmium	165-1	12209661	12298799	12039543	12182668	1.08	cps
Holmium	165-2	8768599	8949068	8847024	8854897	1.02	cps
Indium	115-1	9673053	9703015	9538523	9638197	0.91	cps
Indium	115-2	3457069	3535748	3501148	3497988	1.13	cps
Iron	56-2	112688372	112735865	112162728	112528988	0.28	cps
Iron	57-2	2885552	2883344	2844104	2871000	0.81	cps
Iron	54-2	6181833	6132162	6140712	6151569	0.43	cps
Krypton	83-1	393	347	303	348	12.94	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL0 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:34:52 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6115777	6163989	6062050	6113939	0.83	cps
Lead	207-1	5467185	5402962	5443049	5437732	0.60	cps
Lead	208-1	24765571	24833512	24686351	24761811	0.30	cps
Lithium	6-1	2060281	2061620	2029799	2050567	0.88	cps
Magnesium	24-2	6140236	6137243	6120521	6132667	0.17	cps
Manganese	55-2	3011685	3033585	3031372	3025547	0.40	cps
Molybdenum	94-1	21309	22267	22254	21943	2.50	cps
Molybdenum	95-1	11608	11615	11391	11538	1.10	cps
Molybdenum	96-1	16723	16409	16496	16543	0.98	cps
Molybdenum	97-1	6678	7015	7042	6912	2.93	cps
Molybdenum	98-1	18078	17871	17748	17899	0.93	cps
Neodymium	150-1	125809	126384	127305	126500	0.60	cps
Neodymium	150-2	77444	78799	78979	78407	1.07	cps
Nickel	60-2	179390	180499	179066	179652	0.42	cps
Phosphorus	31-2	28466	28470	28373	28436	0.19	cps
Potassium	39-2	1323164	1330035	1333889	1329029	0.41	cps
Rhodium	103-1	8670406	8691933	8675178	8679172	0.13	cps
Rhodium	103-2	5794148	5878435	5814852	5829145	0.75	cps
Scandium	45-1	5699760	5623566	5612018	5645115	0.84	cps
Scandium	45-2	526740	529844	529711	528765	0.33	cps
Selenium	82-1	798	806	850	818	3.39	cps
Selenium	77-2	317	353	357	342	6.49	cps
Selenium	78-2	553	587	597	579	3.92	cps
Silicon	28-1	34181529	34582152	34587184	34450288	0.68	cps
Silver	107-1	41208	42094	41833	41712	1.09	cps
Silver	109-1	39296	39002	39871	39390	1.12	cps
Sodium	23-2	617964	624656	619923	620848	0.55	cps
Strontium	86-1	2395587	2394749	2385975	2392104	0.22	cps
Strontium	88-1	20925319	20691006	20764480	20793602	0.58	cps
Sulfur	34-1	242041	243270	244320	243210	0.47	cps
Terbium	159-1	12657463	12551842	12671602	12626969	0.52	cps
Terbium	159-2	8754044	8705486	8690803	8716778	0.38	cps
Thallium	203-1	12089	12326	12189	12201	0.97	cps
Thallium	205-1	29666	29606	29910	29727	0.54	cps
Tin	118-1	27717	28445	27490	27884	1.79	cps
Titanium	47-1	65451	66258	66234	65981	0.70	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-11DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL0

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:34:52

DataFile Name :

087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	172125	176663	173597	174129	1.33	cps
Vanadium	51-2	299356	298418	299176	298983	0.17	cps
Yttrium	89-1	17217765	17026346	16892964	17045692	0.96	cps
Yttrium	89-2	4730433	4732927	4688944	4717435	0.52	cps
Zinc	66-2	882678	883888	886485	884350	0.22	cps
Zirconium	90-1	41706	42247	43023	42325	1.56	cps
Zirconium	91-1	9286	9153	9643	9361	2.71	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:37:51 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2851119	2875413	2853379	2859971	0.47	cps
Antimony	121-1	18602	18646	18679	18642	0.21	cps
Arsenic	75-2	19349	19096	18902	19116	1.17	cps
Barium	135-1	1758890	1736552	1768356	1754599	0.93	cps
Barium	137-1	3026343	2999019	2987780	3004380	0.66	cps
Beryllium	9-1	6815	6797	6785	6799	0.22	cps
Bismuth	209-1	7461643	7153792	7317936	7311124	2.11	cps
Bismuth	209-2	6098499	6072567	6210259	6127108	1.19	cps
Bromine	81-1	23609	23996	23609	23738	0.94	cps
Bromine	81-2	2037	2057	1910	2001	3.97	cps
Cadmium	108-1	2550	2534	2610	2565	1.57	cps
Cadmium	106-1	6842	6718	6765	6775	0.92	cps
Cadmium	111-1	34316	35150	34917	34794	1.24	cps
Calcium	43-1	3914321	3928518	3916658	3919832	0.19	cps
Calcium	44-1	63274426	62577024	63120369	62990606	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	157384	155125	155936	156148	0.73	cps
Cobalt	59-2	117106	114271	117106	116161	1.41	cps
Copper	63-2	902696	902009	906895	903866	0.29	cps
Dysprosium	156-1	73183	73987	73565	73578	0.55	cps
Dysprosium	156-2	61778	60446	60925	61050	1.11	cps
Erbium	164-1	66708	67750	67706	67388	0.87	cps
Erbium	164-2	49133	49731	49317	49394	0.62	cps
Gadolinium	160-1	73880	74942	75341	74721	1.01	cps
Gadolinium	160-2	58421	57514	57333	57756	1.01	cps
Holmium	165-1	12308502	12033385	12245251	12195713	1.18	cps
Holmium	165-2	8860139	8739013	8969446	8856199	1.30	cps
Indium	115-1	9547632	9588209	9428320	9521387	0.87	cps
Indium	115-2	3517183	3480375	3469583	3489047	0.72	cps
Iron	56-2	140370648	141273078	139534435	140392720	0.62	cps
Iron	57-2	3541265	3582728	3567194	3563729	0.59	cps
Iron	54-2	7671231	7668128	7619248	7652869	0.38	cps
Krypton	83-1	290	273	300	288	4.68	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-13DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL2 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:37:51 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6205788	6179822	6154630	6180080	0.41	cps
Lead	207-1	5324215	5406593	5298463	5343090	1.06	cps
Lead	208-1	24498311	24629632	24379415	24502453	0.51	cps
Lithium	6-1	2036849	2043417	2035649	2038638	0.21	cps
Magnesium	24-2	5621043	5679381	5714190	5671538	0.83	cps
Manganese	55-2	3668126	3663530	3659614	3663757	0.12	cps
Molybdenum	94-1	24764	25359	25272	25132	1.28	cps
Molybdenum	95-1	23562	23332	23916	23604	1.25	cps
Molybdenum	96-1	29506	29680	29724	29637	0.39	cps
Molybdenum	97-1	14788	14407	14688	14627	1.35	cps
Molybdenum	98-1	37424	37872	37862	37720	0.68	cps
Neodymium	150-1	115058	114957	115807	115274	0.40	cps
Neodymium	150-2	71323	70770	70619	70904	0.52	cps
Nickel	60-2	134722	133400	134110	134077	0.49	cps
Phosphorus	31-2	36580	36731	36731	36681	0.24	cps
Potassium	39-2	1540826	1553279	1566560	1553555	0.83	cps
Rhodium	103-1	8593979	8472866	8453532	8506793	0.89	cps
Rhodium	103-2	5900594	5782762	5760129	5814495	1.30	cps
Scandium	45-1	5528032	5459896	5477386	5488438	0.64	cps
Scandium	45-2	517692	518585	520983	519087	0.33	cps
Selenium	82-1	1161	1102	1100	1121	3.07	cps
Selenium	77-2	297	290	377	321	15.02	cps
Selenium	78-2	703	750	670	708	5.68	cps
Silicon	28-1	45610251	45921583	45718933	45750255	0.35	cps
Silver	107-1	34468	34608	34327	34468	0.41	cps
Silver	109-1	32800	31908	32182	32297	1.41	cps
Sodium	23-2	638457	642793	641720	640990	0.35	cps
Strontium	86-1	2186497	2178502	2217840	2194279	0.95	cps
Strontium	88-1	18806218	18984519	19040916	18943884	0.65	cps
Sulfur	34-1	364661	366518	365795	365658	0.26	cps
Terbium	159-1	12794159	12567821	12333147	12565043	1.83	cps
Terbium	159-2	8778078	8737689	8730479	8748749	0.29	cps
Thallium	203-1	13370	12953	13333	13219	1.75	cps
Thallium	205-1	31607	31540	31991	31713	0.77	cps
Tin	118-1	77701	79501	77839	78347	1.28	cps
Titanium	47-1	105551	105212	104161	104975	0.69	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-13DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL2

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:37:51

DataFile Name :

088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	144276	145687	147409	145791	1.08	cps
Vanadium	51-2	359453	356222	357500	357725	0.45	cps
Yttrium	89-1	16795217	16672088	16640169	16702491	0.49	cps
Yttrium	89-2	4654596	4636745	4699524	4663622	0.69	cps
Zinc	66-2	1061470	1062462	1064974	1062969	0.17	cps
Zirconium	90-1	30291	30893	30786	30656	1.05	cps
Zirconium	91-1	6972	6835	6825	6877	1.19	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:40:53 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2695806	2647053	2717377	2686745	1.34	cps
Antimony	121-1	15011	15508	15485	15335	1.83	cps
Arsenic	75-2	12996	12455	12495	12649	2.38	cps
Barium	135-1	1943809	1899859	1932953	1925540	1.19	cps
Barium	137-1	3365603	3316224	3304984	3328937	0.97	cps
Beryllium	9-1	7773	7719	7973	7822	1.72	cps
Bismuth	209-1	7376626	7440436	7306094	7374385	0.91	cps
Bismuth	209-2	6043451	6072900	6102994	6073115	0.49	cps
Bromine	81-1	21349	21890	22147	21795	1.87	cps
Bromine	81-2	1753	1720	1847	1773	3.70	cps
Cadmium	108-1	2397	2420	2367	2395	1.12	cps
Cadmium	106-1	6872	6655	6705	6744	1.68	cps
Cadmium	111-1	32989	32133	32335	32486	1.38	cps
Calcium	43-1	4170001	4132259	4122655	4141638	0.60	cps
Calcium	44-1	66688822	66837772	67252036	66926210	0.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96282	96992	96660	96645	0.37	cps
Cobalt	59-2	113042	111530	112320	112297	0.67	cps
Copper	63-2	950695	946649	952751	950031	0.33	cps
Dysprosium	156-1	77844	77375	79034	78084	1.10	cps
Dysprosium	156-2	64119	64973	66480	65190	1.83	cps
Erbium	164-1	73053	74323	74250	73875	0.96	cps
Erbium	164-2	53063	52883	53726	53224	0.83	cps
Gadolinium	160-1	80248	79504	80650	80134	0.73	cps
Gadolinium	160-2	62572	61996	62408	62326	0.48	cps
Holmium	165-1	12027037	12342472	12098161	12155890	1.36	cps
Holmium	165-2	8731731	8777444	8856079	8788418	0.72	cps
Indium	115-1	9542567	9655098	9527952	9575206	0.73	cps
Indium	115-2	3471623	3583943	3522617	3526061	1.59	cps
Iron	56-2	99048692	98255105	99825032	99042943	0.79	cps
Iron	57-2	2532931	2517306	2538375	2529537	0.43	cps
Iron	54-2	5432669	5379210	5398151	5403343	0.50	cps
Krypton	83-1	380	343	310	344	10.16	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : P4552-14DLX2 Instrumnet Name : P7
Client Sample ID : MH2GL3 Dilution Factor : 2
Date & Time Acquired : 2024-11-01 00:40:53 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8215623	8388876	8316767	8307089	1.05	cps
Lead	207-1	7152752	7403223	7401355	7319110	1.97	cps
Lead	208-1	33007047	33662743	33336719	33335503	0.98	cps
Lithium	6-1	2003529	2103544	2035006	2047360	2.50	cps
Magnesium	24-2	5352247	5306142	5304658	5321016	0.51	cps
Manganese	55-2	4503637	4465966	4455256	4474953	0.57	cps
Molybdenum	94-1	21162	20391	21069	20874	2.02	cps
Molybdenum	95-1	10360	10084	10284	10243	1.40	cps
Molybdenum	96-1	15388	15428	15251	15356	0.60	cps
Molybdenum	97-1	6291	6418	6145	6285	2.18	cps
Molybdenum	98-1	16369	16489	16242	16367	0.75	cps
Neodymium	150-1	122483	122695	121948	122375	0.31	cps
Neodymium	150-2	75675	75407	75866	75649	0.31	cps
Nickel	60-2	120065	119421	120328	119938	0.39	cps
Phosphorus	31-2	35254	34455	35418	35042	1.47	cps
Potassium	39-2	1336894	1342277	1347846	1342339	0.41	cps
Rhodium	103-1	8629824	8550240	8563872	8581312	0.50	cps
Rhodium	103-2	5793201	5746707	5800254	5780054	0.50	cps
Scandium	45-1	5532545	5553958	5521320	5535941	0.30	cps
Scandium	45-2	516429	519607	523464	519833	0.68	cps
Selenium	82-1	750	833	846	810	6.45	cps
Selenium	77-2	337	333	360	343	4.23	cps
Selenium	78-2	550	557	613	573	6.07	cps
Silicon	28-1	40160649	40256025	40501054	40305910	0.44	cps
Silver	107-1	39326	39611	39250	39396	0.48	cps
Silver	109-1	36215	36680	36927	36607	0.99	cps
Sodium	23-2	793910	793760	792426	793365	0.10	cps
Strontium	86-1	2378930	2359085	2364319	2367445	0.43	cps
Strontium	88-1	20576970	20607366	20664904	20616413	0.22	cps
Sulfur	34-1	250968	252150	254102	252407	0.63	cps
Terbium	159-1	12273961	12585190	12339118	12399423	1.32	cps
Terbium	159-2	8766699	8754814	8911714	8811076	0.99	cps
Thallium	203-1	9213	8860	8980	9018	1.99	cps
Thallium	205-1	21330	21137	21167	21211	0.49	cps
Tin	118-1	42680	43479	43348	43169	0.99	cps
Titanium	47-1	104145	103232	103692	103690	0.44	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

P4552-14DLX2

Instrumnet Name :

P7

Client Sample ID :

MH2GL3

Dilution Factor :

2

Date & Time Acquired :

2024-11-01 00:40:53

DataFile Name :

089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	143518	145850	142176	143848	1.29	cps
Vanadium	51-2	247603	245943	248291	247279	0.49	cps
Yttrium	89-1	16844905	16961611	16733921	16846813	0.68	cps
Yttrium	89-2	4688325	4639484	4677402	4668404	0.55	cps
Zinc	66-2	1526535	1546960	1563002	1545499	1.18	cps
Zirconium	90-1	40285	42010	42347	41547	2.66	cps
Zirconium	91-1	9330	9443	9723	9499	2.13	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:58:58 DataFile Name : 091CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14251319	14169406	14182629	14201118	0.31	cps
Antimony	121-1	5296721	5309053	5400188	5335321	1.06	cps
Arsenic	75-2	304659	302912	308017	305196	0.85	cps
Barium	135-1	7468389	7560312	7584062	7537588	0.81	cps
Barium	137-1	12751224	12943267	12913861	12869451	0.80	cps
Beryllium	9-1	1040961	1057703	1075743	1058136	1.64	cps
Bismuth	209-1	6311031	6396402	5591872	6099768	7.24	cps
Bismuth	209-2	5298028	5255821	5318257	5290702	0.60	cps
Bromine	81-1	14400	14123	14547	14357	1.50	cps
Bromine	81-2	113	90	80	94	18.12	cps
Cadmium	108-1	109181	110752	112972	110968	1.72	cps
Cadmium	106-1	156884	159377	160754	159005	1.23	cps
Cadmium	111-1	1391862	1416960	1427855	1412226	1.31	cps
Calcium	43-1	7712001	7845271	8135220	7897497	2.74	cps
Calcium	44-1	122826822	124802635	127053805	124894420	1.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2557379	2601697	2613245	2590774	1.14	cps
Cobalt	59-2	3948699	4012796	4008171	3989889	0.90	cps
Copper	63-2	27867005	27956858	27772095	27865319	0.33	cps
Dysprosium	156-1	313	337	290	313	7.45	cps
Dysprosium	156-2	497	420	453	457	8.42	cps
Erbium	164-1	420	370	333	374	11.62	cps
Erbium	164-2	230	283	290	268	12.28	cps
Gadolinium	160-1	287	333	230	283	18.26	cps
Gadolinium	160-2	473	413	427	438	7.20	cps
Holmium	165-1	11309487	11428497	9977727	10905237	7.39	cps
Holmium	165-2	8301250	8309657	8282911	8297939	0.16	cps
Indium	115-1	8357386	8443549	7450637	8083858	6.80	cps
Indium	115-2	3207339	3128552	3126575	3154155	1.46	cps
Iron	56-2	559322418	559148352	557096898	558522556	0.22	cps
Iron	57-2	13861982	13927259	14126202	13971814	0.99	cps
Iron	54-2	30355427	30690446	30731935	30592603	0.67	cps
Krypton	83-1	187	213	193	198	7.02	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 00:58:58 DataFile Name : 091CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20825539	21184996	21146833	21052456	0.94	cps
Lead	207-1	18556183	18513913	18852030	18640709	0.99	cps
Lead	208-1	83817787	84809266	84881240	84502764	0.70	cps
Lithium	6-1	1787620	1839154	1598872	1741882	7.26	cps
Magnesium	24-2	122555755	122393978	122965592	122638442	0.24	cps
Manganese	55-2	19171638	19133070	19195922	19166877	0.17	cps
Molybdenum	94-1	21289238	21390039	21780705	21486661	1.21	cps
Molybdenum	95-1	30930846	31202725	32089390	31407654	1.93	cps
Molybdenum	96-1	33409695	33735275	34614011	33919660	1.84	cps
Molybdenum	97-1	19205207	19439784	19849920	19498304	1.67	cps
Molybdenum	98-1	49318303	49834151	50547563	49900005	1.24	cps
Neodymium	150-1	433	500	403	446	11.10	cps
Neodymium	150-2	207	187	190	194	5.51	cps
Nickel	60-2	931910	939926	942220	938018	0.58	cps
Phosphorus	31-2	149488	150491	150576	150185	0.40	cps
Potassium	39-2	74161622	73870497	74541029	74191049	0.45	cps
Rhodium	103-1	7474188	7471380	6613219	7186262	6.91	cps
Rhodium	103-2	5060803	5064645	5117859	5081102	0.63	cps
Scandium	45-1	4992095	5079248	4511793	4861045	6.29	cps
Scandium	45-2	495924	495483	496942	496116	0.15	cps
Selenium	82-1	82686	83950	84779	83805	1.26	cps
Selenium	77-2	8993	9356	9423	9257	2.50	cps
Selenium	78-2	31233	31143	31139	31172	0.17	cps
Silicon	28-1	47172159	48081154	49193469	48148928	2.10	cps
Silver	107-1	6803523	6747124	6851392	6800680	0.77	cps
Silver	109-1	6406313	6396612	6524900	6442608	1.11	cps
Sodium	23-2	199003990	198248924	198005517	198419477	0.26	cps
Strontium	86-1	45667234	46197729	46386956	46083973	0.81	cps
Strontium	88-1	399306354	401176661	405075394	401852803	0.73	cps
Sulfur	34-1	630171	640442	649457	640023	1.51	cps
Terbium	159-1	11586629	11582085	10135430	11101382	7.54	cps
Terbium	159-2	8192856	8182416	8272489	8215920	0.60	cps
Thallium	203-1	5305013	5282733	5247271	5278339	0.55	cps
Thallium	205-1	12788983	12602400	12732530	12707971	0.75	cps
Tin	118-1	4678522	4742414	4823069	4748002	1.53	cps
Titanium	47-1	7841874	8054409	8169552	8021945	2.07	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCV004

Instrumnet Name :

P7

Client Sample ID :

CCV004

Dilution Factor :

1

Date & Time Acquired :

2024-11-01 00:58:58

DataFile Name :

091CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16988888	17254901	17160473	17134754	0.79	cps
Vanadium	51-2	2276628	2310840	2339236	2308901	1.36	cps
Yttrium	89-1	14505340	14479811	12763194	13916115	7.18	cps
Yttrium	89-2	4126411	4076706	4099562	4100893	0.61	cps
Zinc	66-2	4279168	4336492	4312079	4309246	0.67	cps
Zirconium	90-1	9783816	9949990	9944590	9892799	0.95	cps
Zirconium	91-1	2186765	2203414	2272198	2220793	2.04	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 01:02:40 DataFile Name : 092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	937	960	873	923	4.86	cps
Antimony	121-1	2487	2524	2950	2654	9.71	cps
Arsenic	75-2	17	23	20	20	16.65	cps
Barium	135-1	550	463	447	487	11.40	cps
Barium	137-1	937	777	773	829	11.26	cps
Beryllium	9-1	121	120	113	118	3.58	cps
Bismuth	209-1	7195749	7174958	7060200	7143636	1.02	cps
Bismuth	209-2	6102037	6089196	6113816	6101683	0.20	cps
Bromine	81-1	14327	14574	14387	14429	0.89	cps
Bromine	81-2	70	127	100	99	28.67	cps
Cadmium	108-1	40	17	30	29	40.51	cps
Cadmium	106-1	2717	3070	2640	2809	8.17	cps
Cadmium	111-1	380	422	326	376	12.75	cps
Calcium	43-1	1113	1063	853	1010	13.66	cps
Calcium	44-1	28474	24574	23860	25636	9.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	687	893	787	789	13.10	cps
Cobalt	59-2	207	200	200	202	1.90	cps
Copper	63-2	2800	2704	2740	2748	1.78	cps
Dysprosium	156-1	23	10	30	21	48.24	cps
Dysprosium	156-2	3	10	0	4	114.60	cps
Erbium	164-1	87	63	47	66	30.65	cps
Erbium	164-2	73	33	63	57	36.74	cps
Gadolinium	160-1	43	57	63	54	18.71	cps
Gadolinium	160-2	360	317	320	332	7.26	cps
Holmium	165-1	11584585	11848054	11634111	11688917	1.20	cps
Holmium	165-2	8462371	8445290	8460769	8456143	0.11	cps
Indium	115-1	9207741	9157689	9259430	9208286	0.55	cps
Indium	115-2	3460741	3459297	3498624	3472887	0.64	cps
Iron	56-2	47033	48679	46702	47471	2.23	cps
Iron	57-2	1980	2007	1840	1942	4.61	cps
Iron	54-2	3707	3857	3761	3775	2.01	cps
Krypton	83-1	187	200	160	182	11.18	cps

LB Number : LB133242 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2024-11-01 01:02:40 DataFile Name : 092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2870	2437	2234	2514	12.94	cps
Lead	207-1	2417	2184	2057	2219	8.23	cps
Lead	208-1	11279	9842	9065	10062	11.16	cps
Lithium	6-1	1919081	1879418	1892392	1896964	1.07	cps
Magnesium	24-2	6248	6275	6075	6199	1.75	cps
Manganese	55-2	1420	1257	1410	1362	6.72	cps
Molybdenum	94-1	1803	1913	1933	1883	3.72	cps
Molybdenum	95-1	2180	1713	1703	1866	14.60	cps
Molybdenum	96-1	2180	2020	1837	2012	8.54	cps
Molybdenum	97-1	1277	1163	1110	1183	7.19	cps
Molybdenum	98-1	3247	2754	2774	2925	9.55	cps
Neodymium	150-1	10	23	30	21	48.24	cps
Neodymium	150-2	10	7	10	9	21.63	cps
Nickel	60-2	137	83	90	103	28.12	cps
Phosphorus	31-2	123	123	117	121	3.18	cps
Potassium	39-2	51329	50925	51206	51153	0.41	cps
Rhodium	103-1	8486534	8418266	8436776	8447192	0.42	cps
Rhodium	103-2	5743005	5766691	5825905	5778533	0.74	cps
Scandium	45-1	5187310	5117562	5138513	5147795	0.70	cps
Scandium	45-2	492111	490389	491292	491264	0.18	cps
Selenium	82-1	423	426	492	447	8.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	320	283	320	308	6.88	cps
Silicon	28-1	249971	246634	246283	247629	0.82	cps
Silver	107-1	827	860	860	849	2.27	cps
Silver	109-1	833	727	780	780	6.84	cps
Sodium	23-2	41596	41589	39741	40976	2.61	cps
Strontium	86-1	2730	2350	2117	2399	12.91	cps
Strontium	88-1	21099	16556	15862	17839	15.94	cps
Sulfur	34-1	166186	162855	163394	164145	1.09	cps
Terbium	159-1	11844926	11838560	11839029	11840838	0.03	cps
Terbium	159-2	8444373	8537188	8594439	8525334	0.89	cps
Thallium	203-1	947	837	747	843	11.88	cps
Thallium	205-1	2157	2060	1823	2014	8.52	cps
Tin	118-1	2344	2384	2430	2386	1.82	cps
Titanium	47-1	503	507	420	477	10.30	cps

LB Number :

LB133242

Operator :

Jaswal

Lab Sample ID :

CCB004

Instrumnet Name :

P7

Client Sample ID :

CCB004

Dilution Factor :

1

Date & Time Acquired :

2024-11-01 01:02:40

DataFile Name :

092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	713	670	567	650	11.59	cps
Vanadium	51-2	117	170	150	146	18.51	cps
Yttrium	89-1	14897403	14791424	14748044	14812290	0.52	cps
Yttrium	89-2	4236401	4226293	4208182	4223625	0.34	cps
Zinc	66-2	970	1050	960	993	4.97	cps
Zirconium	90-1	1997	2237	2310	2181	7.51	cps
Zirconium	91-1	437	483	443	454	5.55	cps

Prep Standard - Chemical Standard Summary

Order ID : P4553
Test : Metals CLP MS FULL

Prepbatch ID : PB164509,
Sequence ID/Qc Batch ID: LB133242,

Standard ID :
MP81119,MP82128,MP82568,MP82569,MP82570,MP82571,MP82572,MP82573,MP82574,MP82575,MP82576,MP82577,MP82578,MP82579,MP82580,MP82581,MP82583,MP82584,MP82585,MP82586,MP82587,

Chemical ID :
M5192,M5288,M5289,M5295,M5304,M5390,M5473,M5476,M5498,M5513,M5515,M5519,M5565,M5657,M5658,M5697,M5698,M5739,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5935,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M6021,M6023,M6025,M6028,M6030,M6033,M6037,M6040,M6055,W2606,W3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
169	1:1HNO3	MP81119	06/21/2024	04/24/2025	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal
FROM 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
641	1:4 HCL	MP82128	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal
FROM 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 ml								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP82568	09/28/2024	10/31/2024	Sarabjit Jaswal	None	None	Mohan Bera
								09/30/2024

FROM 25.00000ml of M6040 + 4925.00000ml of W3112 + 50.00000ml of M6037 = Final Quantity: 5000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2902	S8 ICPMS	MP82569	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIP ETTE_3 (A)	Mohan Bera
								09/30/2024

FROM 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5768 + 5.00000ml of M5806 + 79.00000ml of MP82568 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3947	S7(SFAM,6020,200.8)	MP82570	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024
FROM 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6037 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.00000ml of M6025 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6040 + 50.00000ml of M5304 + 829.10000ml of W3112 + 9.00000ml of M5697 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.90000ml of M5498 + 9.90000ml of M5768 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3948	S6(SFAM,6020,200.8)	MP82571	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024
FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 25.00000ml of MP82570 = Final Quantity: 100.000 ml								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3949	S5(SFAM,6020,200.8)	MP82572	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 73.50000ml of W3112 + 25.00000ml of MP82570 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3954	S4(SFAM,6020,200.8)	MP82573	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 12.50000ml of MP82570 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3951	S3(SFAM, 6020,200.8)	MP82574	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 10.00000ml of MP82571 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3955	S2CONC(SFAM,6020,200.8)	MP82575	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5697 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6040 + 226.25000ml of W3112 + 5.00000ml of M6037 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3956	S2(SFAM,6020,200.8)	MP82576	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 0.50000ml of MP82575 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3957	S1(SFAM,6020,200.8)	MP82577	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 10.00000ml of MP82576 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3958	ICV(SFAM)	MP82578	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 2.00000ml of M5295 + 98.00000ml of MP82568 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3961	CCV	MP82579	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5473 + 10.00000ml of M6037 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5769 + 24.95000ml of M5806 + 25.00000ml of M5304 + 4.50000ml of M5697 + 4.50000ml of M5698 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6040 + 824.35000ml of W3112 = Final Quantity: 1000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1142	ICSA ICPMS	MP82580	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP82568 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1143	ICSAB ICPMS	MP82581	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP82568 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3964	CONC.LCSS SPIKE	MP82583	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5982 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5697 + 0.50000ml of M5802 + 1.25000ml of M5192 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5519 + 12.50000ml of M5769 + 12.50000ml of M5806 + 158.75000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5818 + 2.50000ml of M6040 + 5.00000ml of M5515 + 5.00000ml of M6037 + 6.25000ml of M5816 + 6.25000ml of M5820 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
870	ICPMS SPIKE SOL.B	MP82584	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5565 + 5.00000ml of M5657 + 39.55000ml of MP82568 = Final Quantity: 50.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3962	MG 10PPM FOR TUNE	MP82585	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 0.01000ml of M5768 + 9.99000ml of MP82568 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3894	TUNE 200PPB	MP82586	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP82585 + 96.00000ml of MP82568 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3903	ISS 3PPM	MP82587	09/28/2024	10/31/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 09/30/2024
FROM 5.00000ml of M6037 + 75.00000ml of M5739 + 170.00000ml of MP82568 = Final Quantity: 250.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	02/20/2020 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

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

CHEMICAL RECEIPT LOG BOOK

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.	57138 / Sr, 10000 PPM, 125 ml	082922	08/09/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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

CHEMICAL RECEIPT LOG BOOK

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	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	T2-MEB721144	07/07/2027	08/23/2023 / jaswal	08/29/2023 / jaswal	M5657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

CHEMICAL RECEIPT LOG BOOK

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 #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	12/08/2024	06/21/2024 / Al-Terek	06/07/2024 / Al-Terek	M5935

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

CHEMICAL RECEIPT LOG BOOK

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 #
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.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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 #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

CHEMICAL RECEIPT LOG BOOK

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 / TI, 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	06/12/2027	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	01/25/2019 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/02/2025	08/24/2024 / Janvi	08/01/2024 / Janvi	M6037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Solvent: 24002546 Nitric Acid
Lot #

Expiration Date: 070127

2% 40.0 Nitric Acid (mL)

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

SE-05 Balance Uncertainty

Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

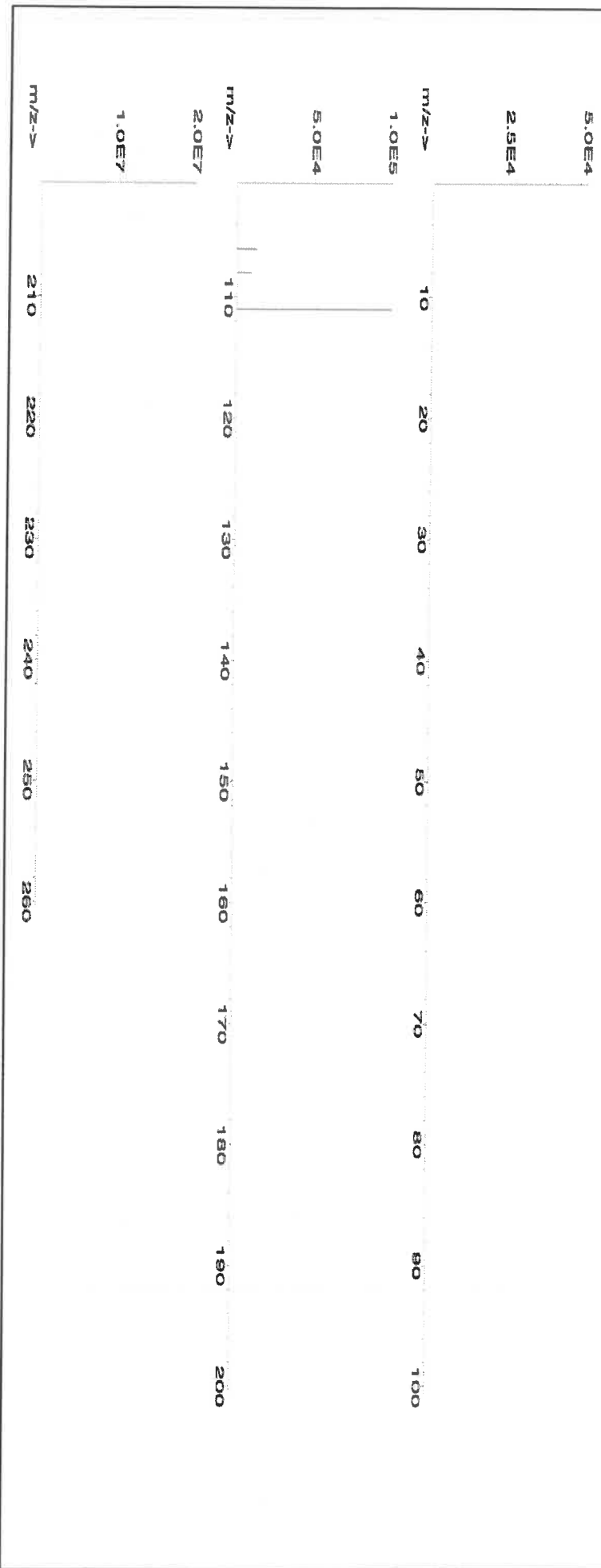
Aleah O'Brady	
Formulated By:	Aleah O'Brady
	070124
Reviewed By:	Pedro L. Rentas
	070124

Compound

Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Cadmium nitrate tetrahydrate (Cd) IN024 CDM09221A1 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

[T1 Spectrum No.1 [12.514 sec]:\$8148.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

585

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.2	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	Ba	<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	Cd	<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	Pr	<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 certified (+/-) 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: **57182**
Lot Number: **110923**
Description: **Lead (Pb)**

Solvent: **24002546 Nitric Acid**

Expiration Date: **110926**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test Number: **6UTB**

2% **40.0** **Nitric Acid**
(mL)

Weight shown below was diluted to (mL): **2000.02** **0.058** **Flask Uncertainty**

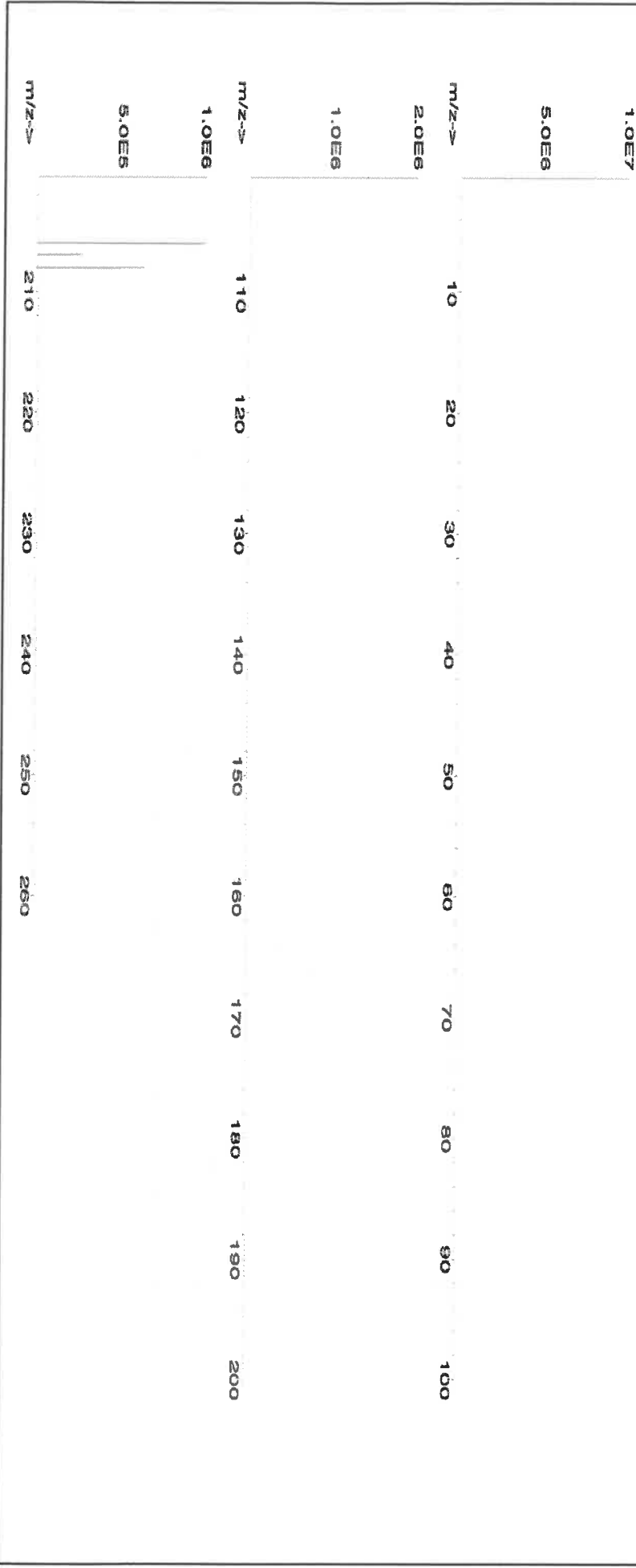
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

586

Compound	SDS Information									
	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)

1. **Lead(II) nitrate (Pb)** IN029 PED122016A1 10000 99.999 0.10 62.5 32.0006 32.0040 10001.1 20.0 10099-74-8 0.05 mg/m3 Inverse rat 83 mg/kg 3128

[1] Spectrum No.1 [17.284 sec]:58182.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

587

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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

Physical Characterization:

(T)= Target analyte

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57042
051722
Molybdenum (Mo)

Lot # **Solvent:**
MKB08597V Ammonium hydroxide

0.5% **15.0** **Ammonium hydroxide**
(mL)

Expiration Date: 051725

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 3000.41

5E-05 **Balance Uncertainty**
0.058 **Flask Uncertainty**

Formulated By:	Lawrence Barry
	051722
Reviewed By:	Pedro L. Rentas
	051722

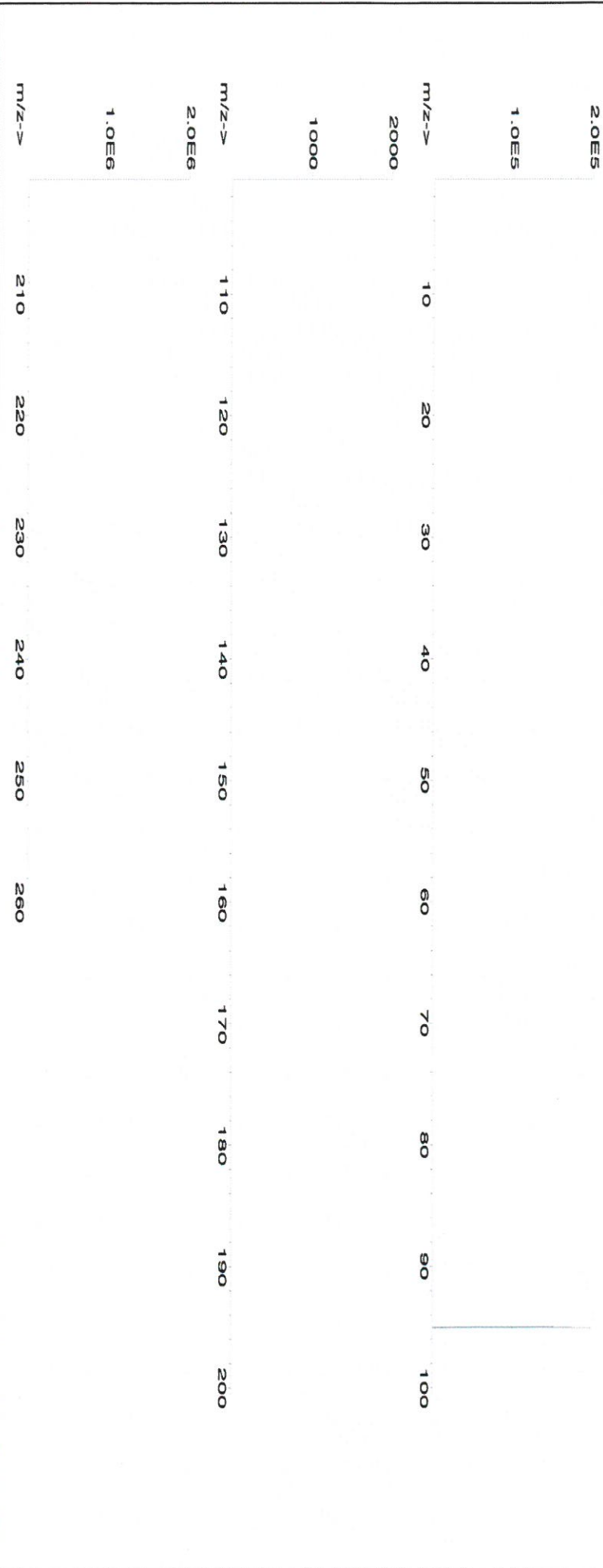
588

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.)	NIST SRM
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1. Ammonium molybdate (Mo) 58142 022222 0.1000 300.0 0.084 1000 10001.0 1000.0 2.1 13106-76-8 5 mg(Mo)/m3 or-rat 333 mg/kg 3134

[1] Spectrum No.1 [8.594 sec]:57042.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

589

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	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Solvent: 20510011 Nitric Acid
Lot #

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
	071122
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	071122

Compound

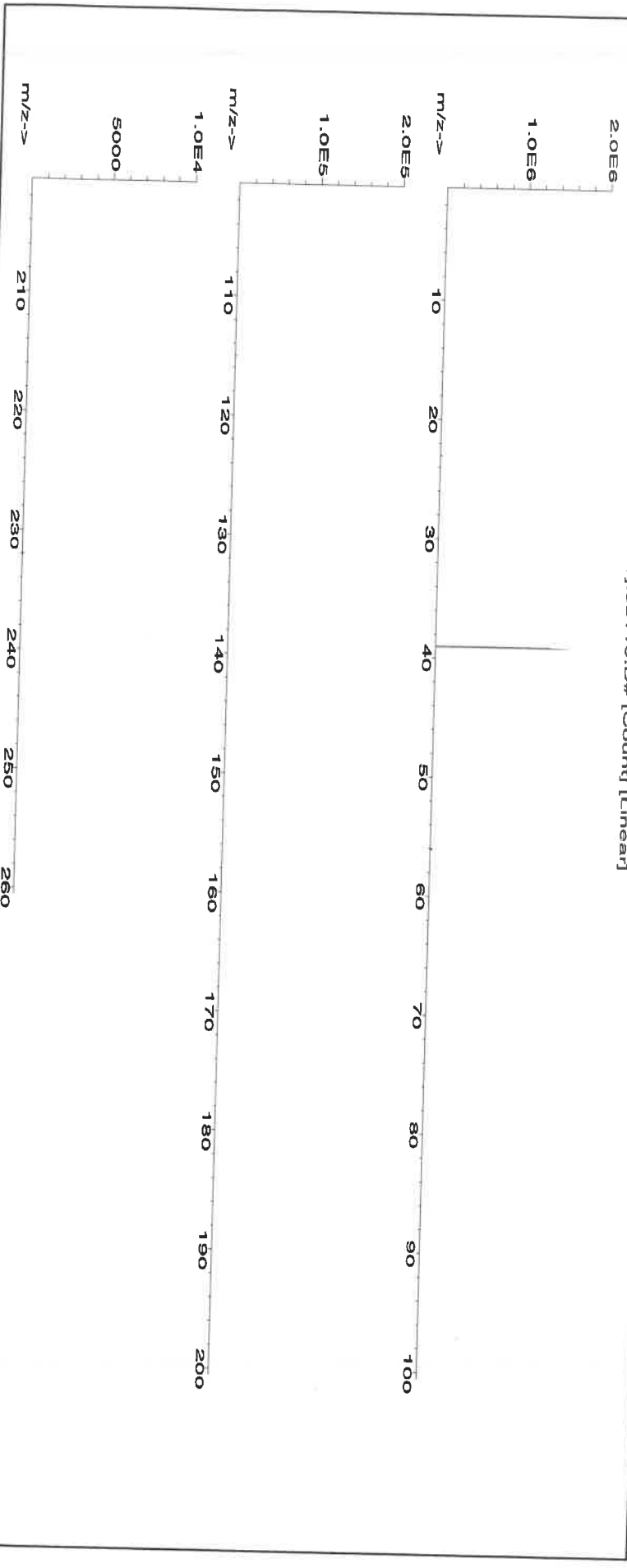
1. Potassium nitrate (K)

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	10000.2	20.0	7757-79-1	5 mg/m3	or-rat 3015 mg/kg	3141a

SDS Information

(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA)

[1] Spectrum No. 1 [35.763 sec]:58119.D# [Count] [Linear]





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	Pt	<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	<0.02	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 certified (+/-) 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).



M5289 R: 07/12/22
Certified Reference Material CRM

(34)



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

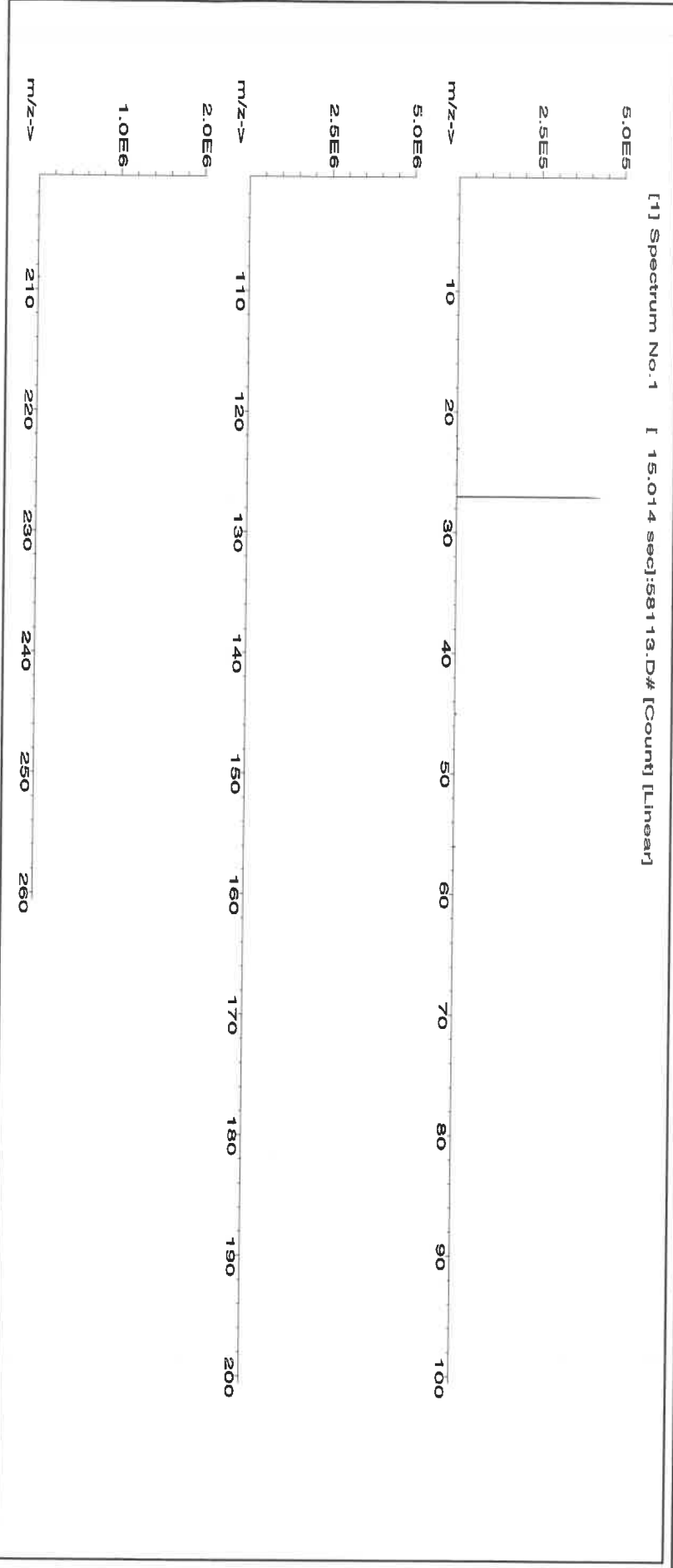
Lot #
Solvent: 20370011 Nitric Acid

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry
	070622
Reviewed By:	Pedro L. Renteria
	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded			CAS#	(Solvent Safety Info. On Attached pg.)	NIST SRM
										+/- (µg/mL)	OSHA PEL (TWA)	LD50			
SDS Information															

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 or-tal 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	Pt	<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	Ru	<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	Sr	<0.02	S	<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	Ta	<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	Ti	<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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 4/20/21

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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.





Instructions for QATS Reference Material: *Inorganic ICV Solutions*

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99



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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: 6020CAL-1
Lot Number: S2-MEB711244
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s): 20 µg/mL ea:
Silver, Aluminum,
Arsenic, Barium,
Beryllium, Calcium,
Cadmium, Cobalt,
Chromium, Copper,
Iron, Potassium,
Magnesium, Manganese,
Sodium, Nickel,
Lead, Antimony,
Selenium, Thallium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	20.01 ± 0.08 µg/mL	Antimony, Sb	20.01 ± 0.12 µg/mL
Arsenic, As	20.01 ± 0.18 µg/mL	Barium, Ba	20.01 ± 0.11 µg/mL
Beryllium, Be	20.01 ± 0.14 µg/mL	Cadmium, Cd	20.01 ± 0.11 µg/mL
Calcium, Ca	20.01 ± 0.10 µg/mL	Chromium, Cr	20.01 ± 0.16 µg/mL
Cobalt, Co	20.01 ± 0.11 µg/mL	Copper, Cu	20.01 ± 0.10 µg/mL
Iron, Fe	20.01 ± 0.09 µg/mL	Lead, Pb	20.01 ± 0.11 µg/mL
Magnesium, Mg	19.99 ± 0.10 µg/mL	Manganese, Mn	20.01 ± 0.10 µg/mL
Nickel, Ni	20.01 ± 0.11 µg/mL	Potassium, K	20.01 ± 0.10 µg/mL
Selenium, Se	20.02 ± 0.14 µg/mL	Silver, Ag	20.02 ± 0.09 µg/mL
Sodium, Na	20.01 ± 0.10 µg/mL	Thallium, Tl	20.01 ± 0.13 µg/mL
Vanadium, V	20.01 ± 0.11 µg/mL	Zinc, Zn	20.01 ± 0.11 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 °C)

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
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
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
Fe	Calculated		See Sec. 4.2
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
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP 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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a)(u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 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

- **October 20, 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





R-09/18/22 **(RTH)**
Certified Reference Material CRM

M5387 - M5389 - M5390 - M5391 - M5392



CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

Solvent: 20510011 Nitric Acid

Lot #

2% 40.0 (mL) Nitric Acid

Expiration Date: 072125

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

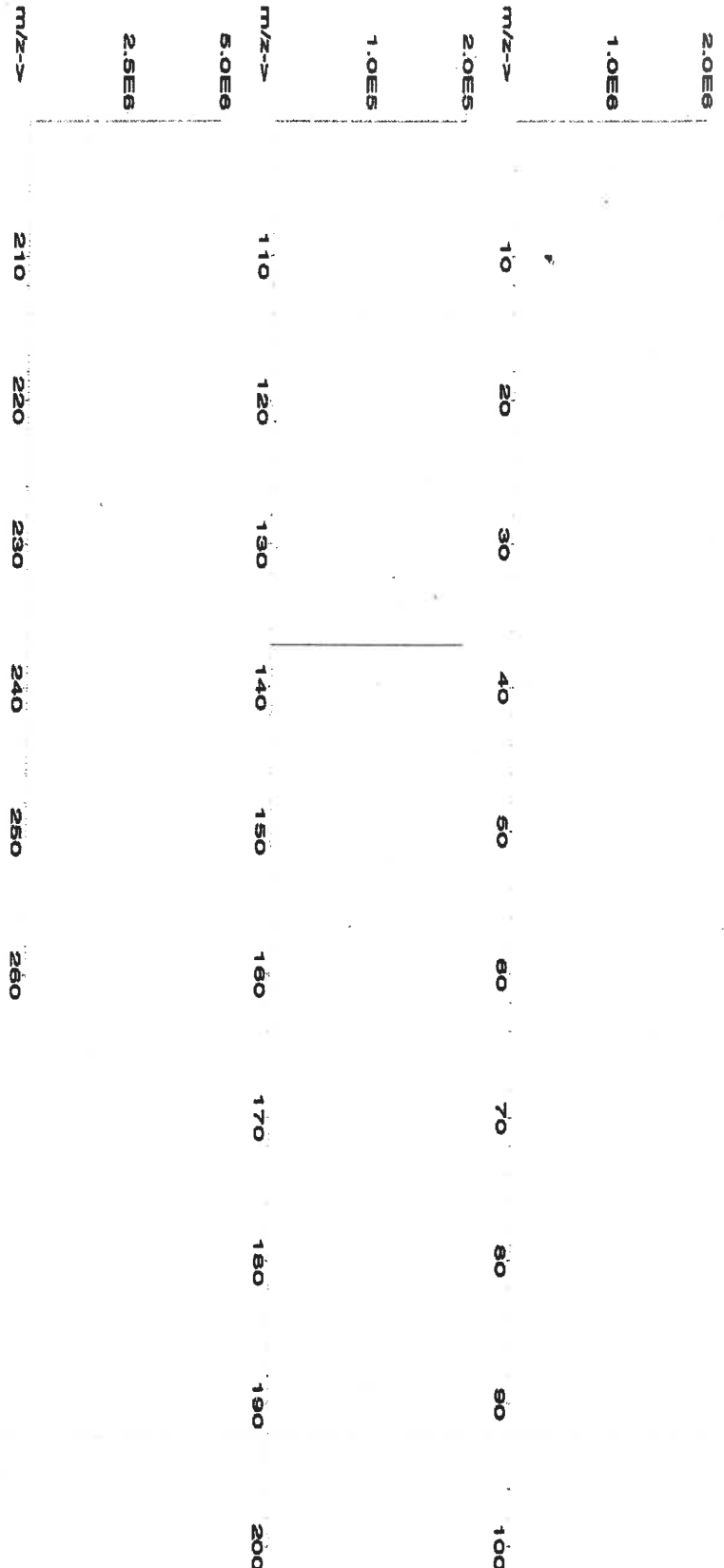
Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	072122

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	NIST SRM

1. Barium nitrate (Ba) IN023 BA022019A1 1000 99.999 0.10 52.3 3.82417 3.82426 1000.0 2.0 10022-31-8 0.5 mg/m3 or-al 355 mg/kg 31044

[1] Spectrum No. 1 [12.514 sec]:58156.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

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	<0.02	Er	<0.2	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	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Cd	<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	<0.02	Hg	<0.2	P	<0.2	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	<0.02	Sc	<0.2	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:

Ben. P. R.

* 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 certified ($\pm 0.5\%$) of the stated value.

* Standards are certified (+/-) 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).

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

Solvent: 21110221 Nitric Acid

2% 60.0 Nitric Acid (mL)

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

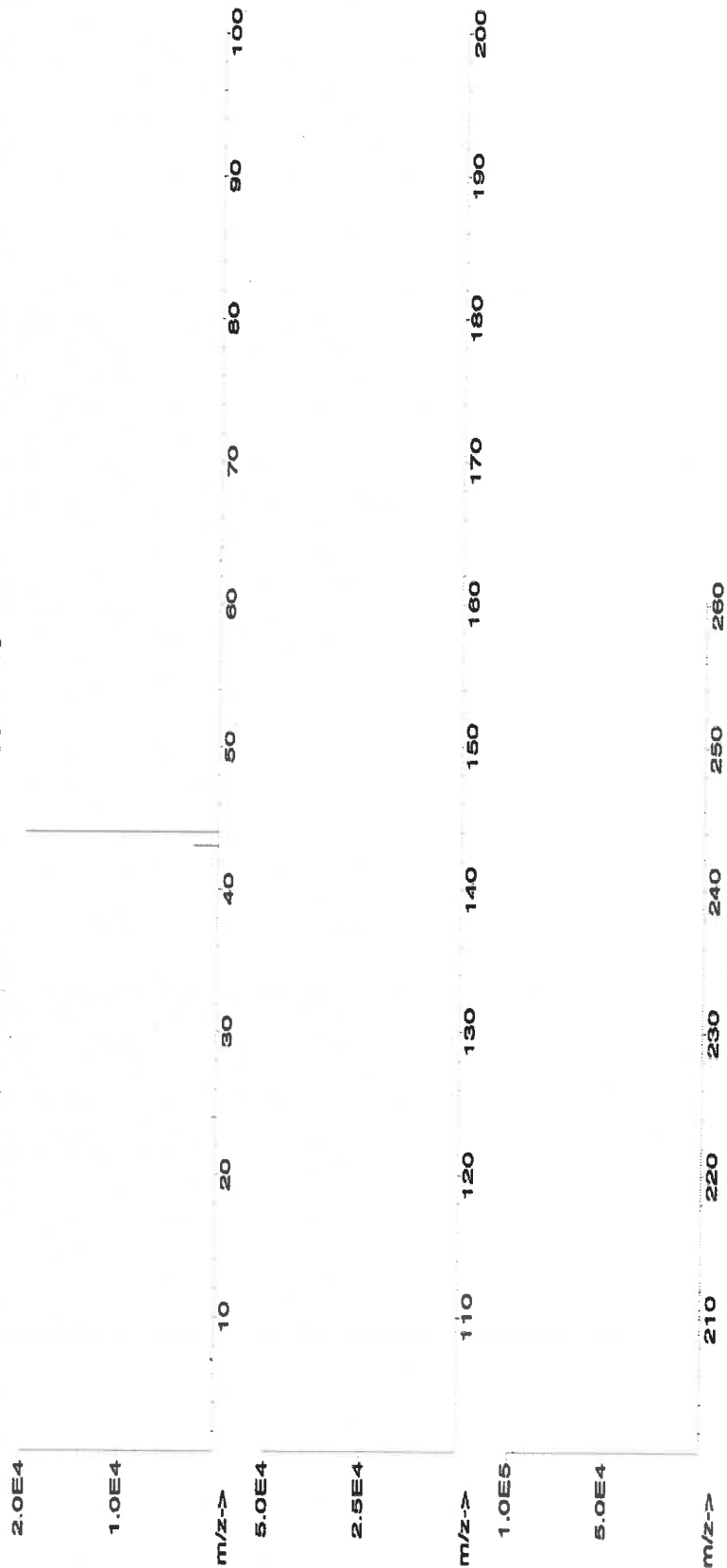
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito 031523
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas 031523

SDS Information

(Solvent Safety Info. On Attached pg.)
NIST SRM
LD50 OSHA PEL (TWA) CAS#

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	or-rat >2000mg/kg	3109a
---------------------------	-------	-------------	-------	--------	------	------	---------	---------	---------	------	----------	---------	-------------------	-------

[1] Spectrum No.1 [12.514 sec]:58120.D# [Count] [Linear]



602



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	Pt	<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	Tc	<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	Ti	<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	<0.2	Fe	<0.02	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	Tl	<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 certified (+/-) 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).



Certified Reference Material CRM

W553 R10317-23

CERTIFIED WEIGHT REPORT:

Part Number:	
Lot Number:	
Description:	

281.25

061522

Lead (Pb)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

061525

Ambient (20 °C)

10000

6UTB

Weight shown below was diluted to (mL): 2000.02

2.030 Risk Uncertainty

0.058 Flask Uncertainty

Lot #

Solvent: 20510011 Nitric Acid

0510011

2% Nitric Acid

(mL)

5E-05 Balance Uncertainty

0.058 Flask Uncertainty

 Giovanni Esposito	Formulated By: Giovanni Esposito	061522
 Pedro L. Rentas	Reviewed By: Pedro L. Rentas	061522

Expanded

SDS Information

(Solvent Safety Info. On Attached pg.)

#	OSHA PEL (TWA)	LD50	NIST
			SRM

NIST SRM

1. Lead(II) nitrate (Pb)

IN029 P8D122016A1

10000 99 999 0 10

22 0000

1400 06

10001 1

3

1

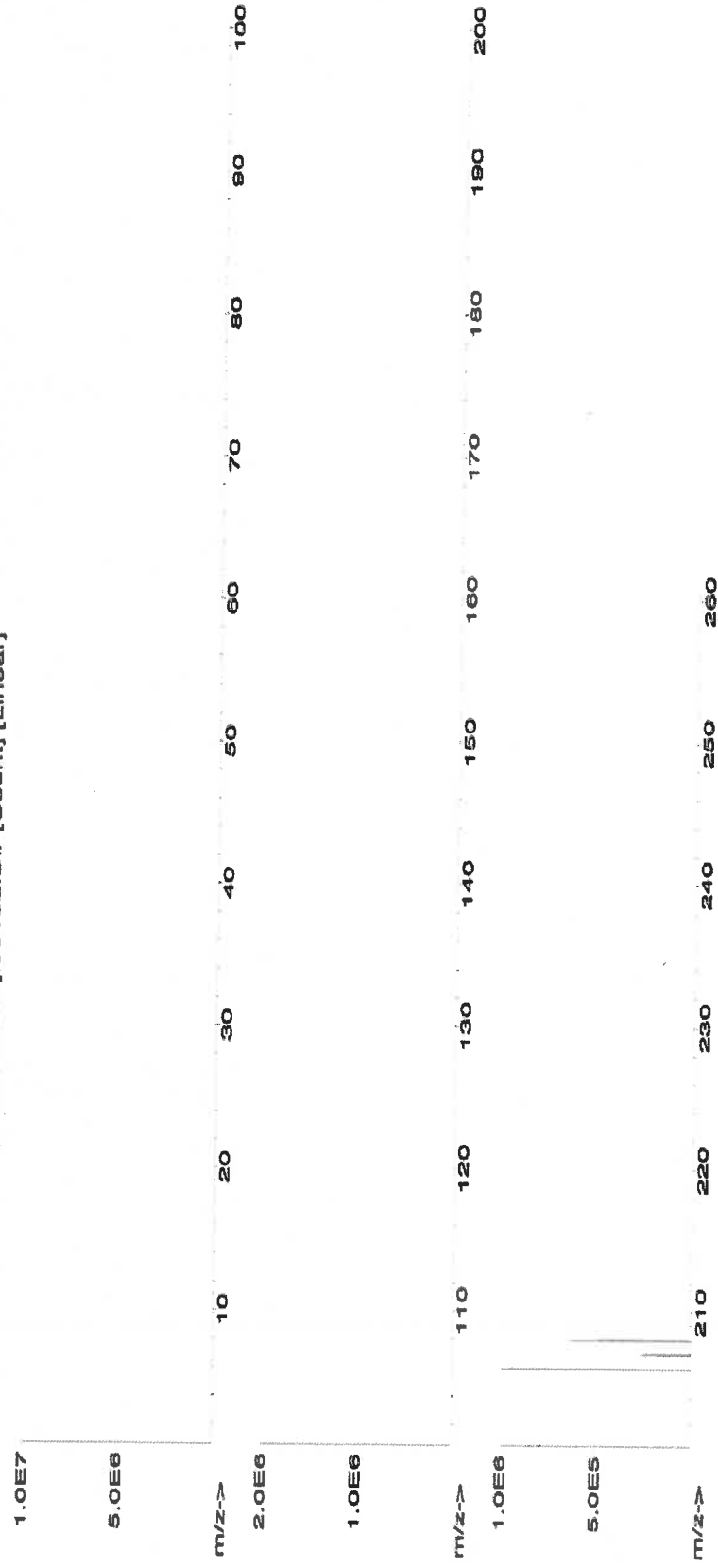
1

1

1

1

[1] Spectrum No.1 [17.284 sec]:58182.D# [Count] [Linear]



604



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	<0.02	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	Pr	<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 certified (+/-) 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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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	La	<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	<0.02	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	<0.05	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.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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

CERTIFIED WEIGHT REPORT:

Part Number: **58119**
Lot Number: **120822**
Description: **Potassium (K)**

Solvent: 20510011 Nitric Acid

Lot #

Giovanni Esposito

608

Expiration Date:

120825

2%

60.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

10000

NIST Test Number:

6UTB

5E-05 Balance Uncertainty

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Renteria	120822

Weight shown below was diluted to (mL):

3000.4

0.06 Flask Uncertainty

SDS Information

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)

CAS#

OSHA PEL (TWA)

LD50

NIST SRM

1. Potassium nitrate (K)

IN034 KD022021A1

10000

99.989

0.10

37.6

79.7990

79.8075

10001.1

20.0

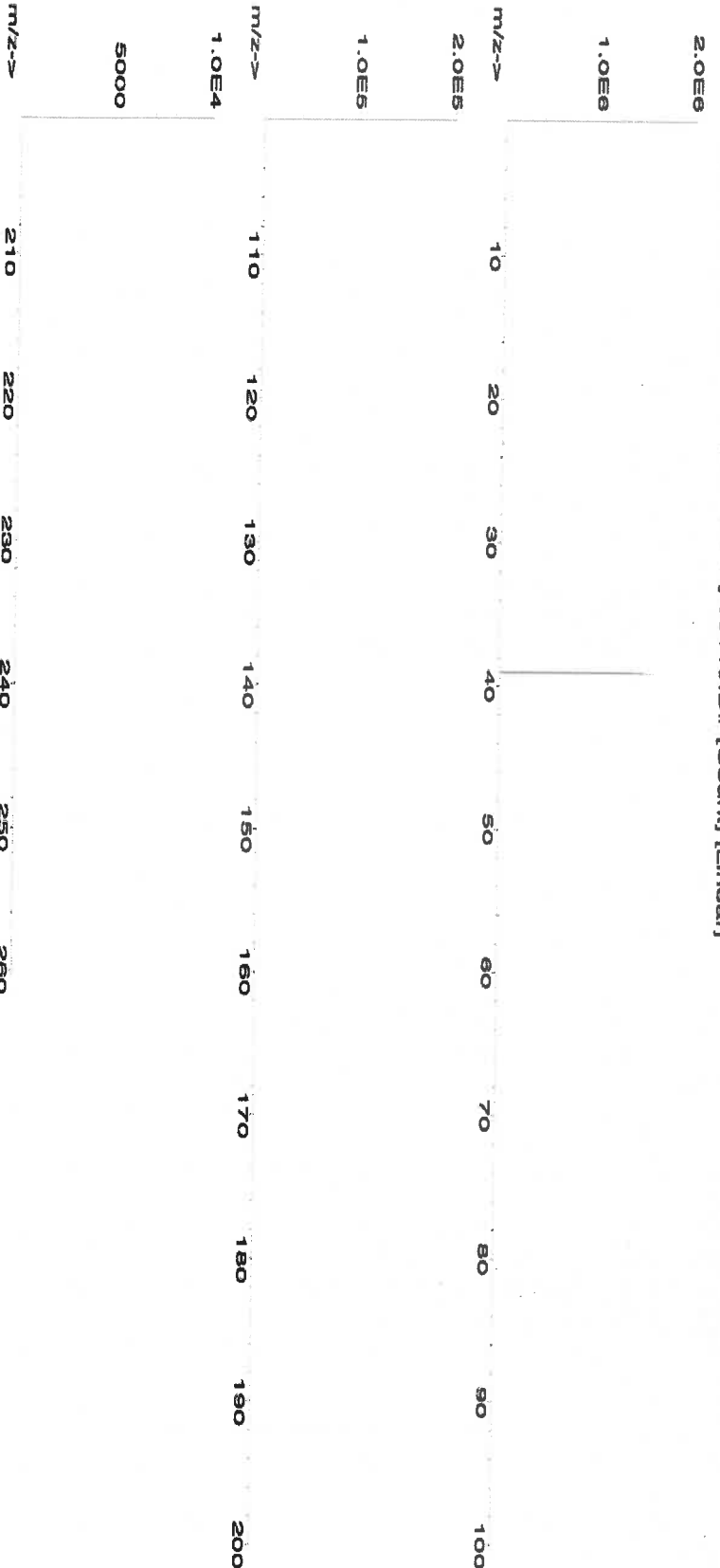
7757-79-1

5 mg/m3

or rat 3015 mg/kg

3141a

[1] Spectrum No.1 [35.763 sec]:58119.D# [Count] [Linear]





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	Pt	<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	<0.02	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 certified (+/-) 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).

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).



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:

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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum (1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char\ i})^2]^{1/2}$ 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:

$$X_{CRM/RM} = (\bar{X}_a) (u_{char\ a})$$

$\bar{X}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va, 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 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



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

M5657

A: 8/29/22

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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CLPP-SPK-4
Lot Number: T2-MEB721144
Matrix: 3% (v/v) HNO₃
Value / Analyte(s):
100 µg/mL ea:
Antimony,
50 µg/mL ea:
Cadmium, Thallium,
40 µg/mL ea:
Arsenic,
20 µg/mL ea:
Lead,
10 µg/mL ea:
Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	99.9 ± 0.8 µg/mL	Arsenic, As	40.00 ± 0.25 µg/mL
Cadmium, Cd	49.96 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.10 µg/mL
Selenium, Se	10.00 ± 0.06 µg/mL	Thallium, Tl	49.96 ± 0.32 µg/mL

Density: 1.014 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	traceable to 3103a	R2-AS691113
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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum (w_i)^2 (u_{\text{char } i}^2))^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 07, 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 07, 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





CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

Lot #
21110221
Solvent: Nitric Acid

2.0%

40.0 (mL)
Nitric Acid

Formulated By:	Lawrence Barry
Reviewed By:	
Pedro L. Ruelas	
060523	

618

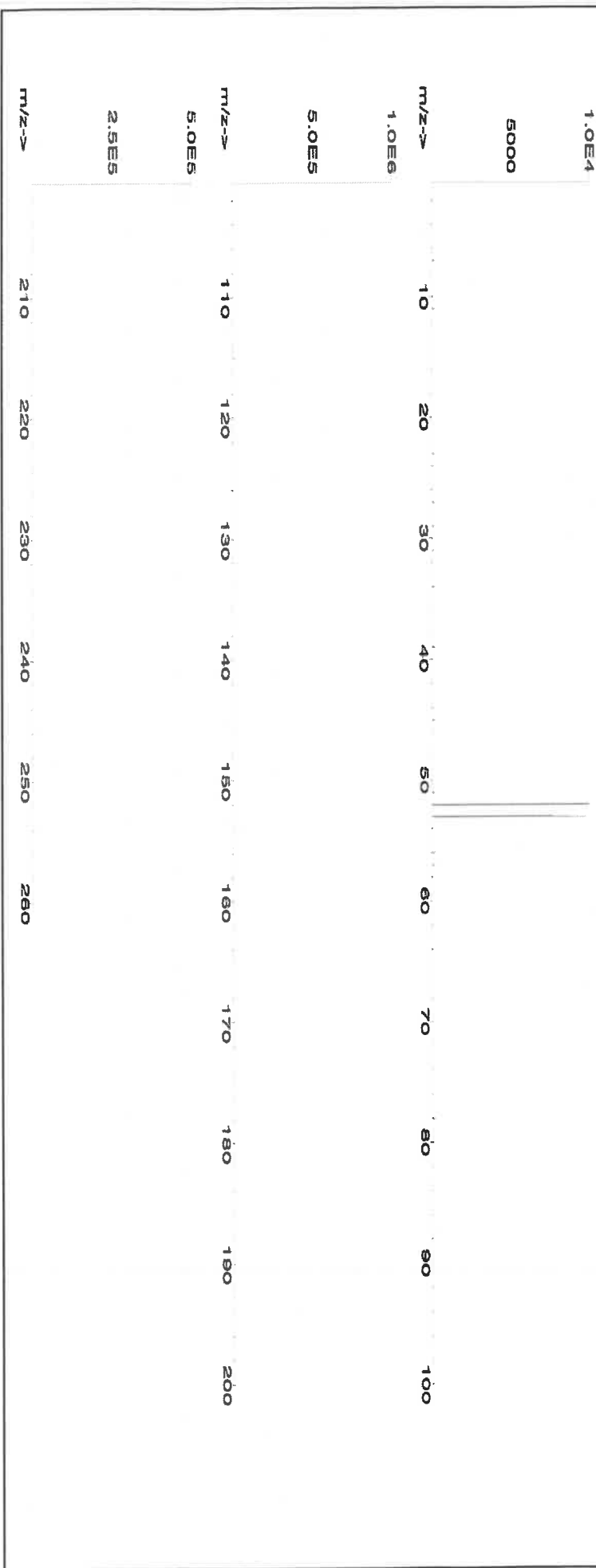
Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	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 or rat 3250 mg/kg 3112a

[1] Spectrum No.1 [31.393 sec]:57024.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

619

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 58029
Lot Number: 102523
Description: Copper (Cu)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date: 102526

2.0%

40.0 (mL)

Nitric Acid

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

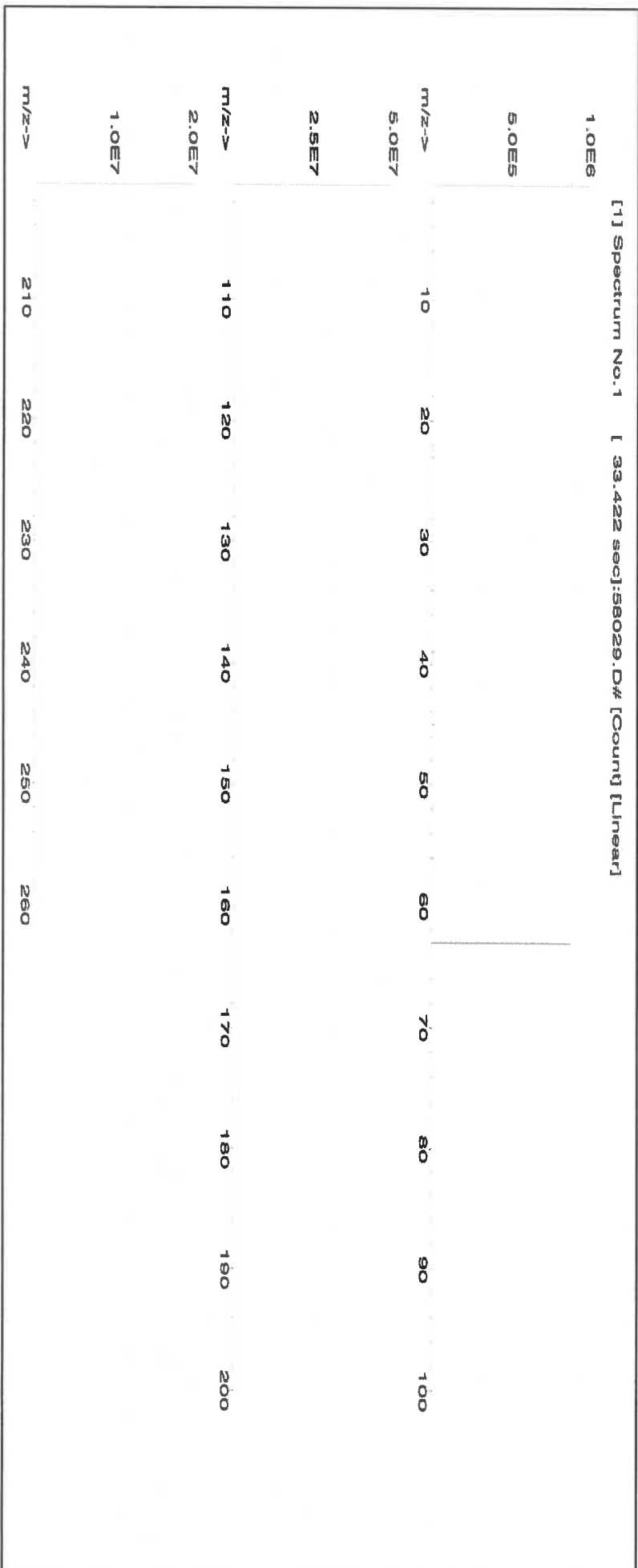
0.058 Flask Uncertainty

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)	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 or-rat 794 mg/kg 3114

[1] Spectrum No. 1 [33.422 sec]:58029.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

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	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



M5648 R:10/23/23



CERTIFIED WEIGHT REPORT:

Part Number: **58025**
Lot Number: **102623**
Description: **Manganese (Mn)**

Lot # **24002546**
Solvent: **Nitric Acid**

Expiration Date: **102626**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

Volume shown below was diluted to (mL): **3000.41**

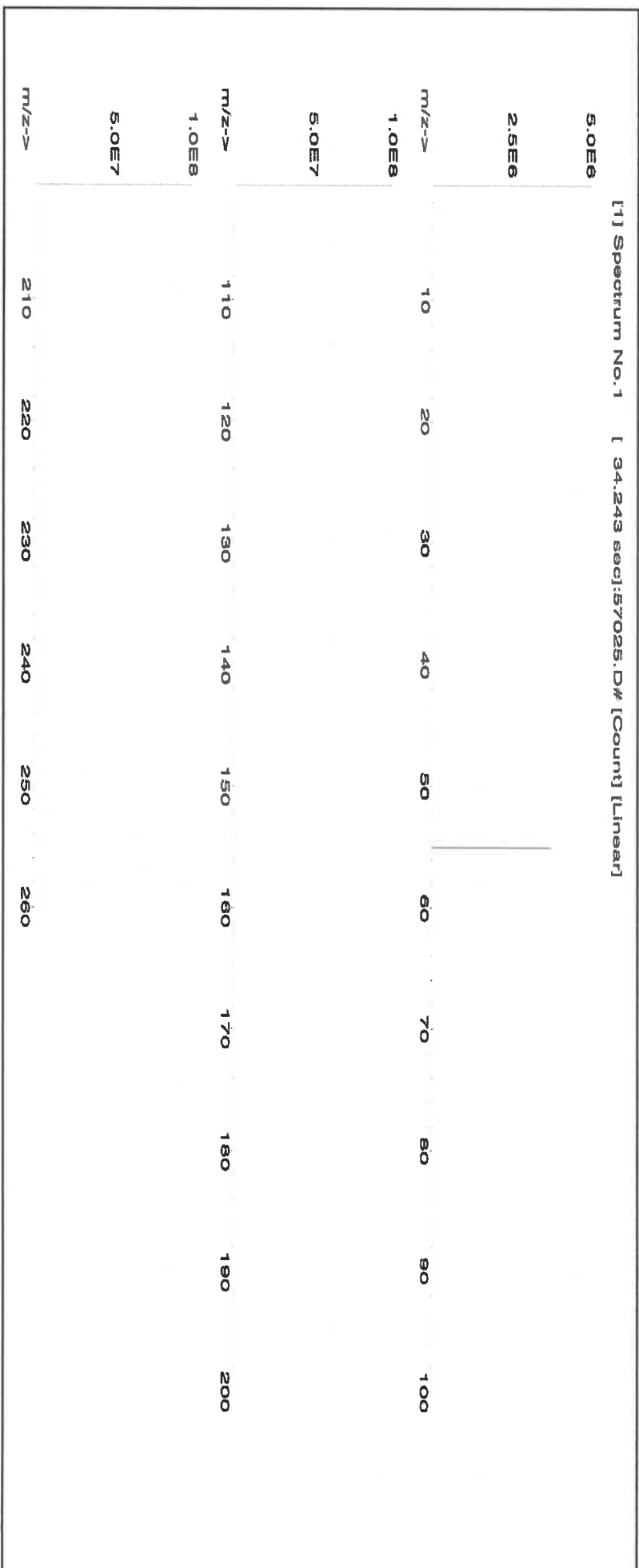
2.0% **60.0** **Nitric Acid**
(mL)

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Ruelas	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.)	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 or-rel>300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]





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	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

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

2% 40.0 (mL) Nitric Acid

M5768 M5769
BP R: 1/13/24

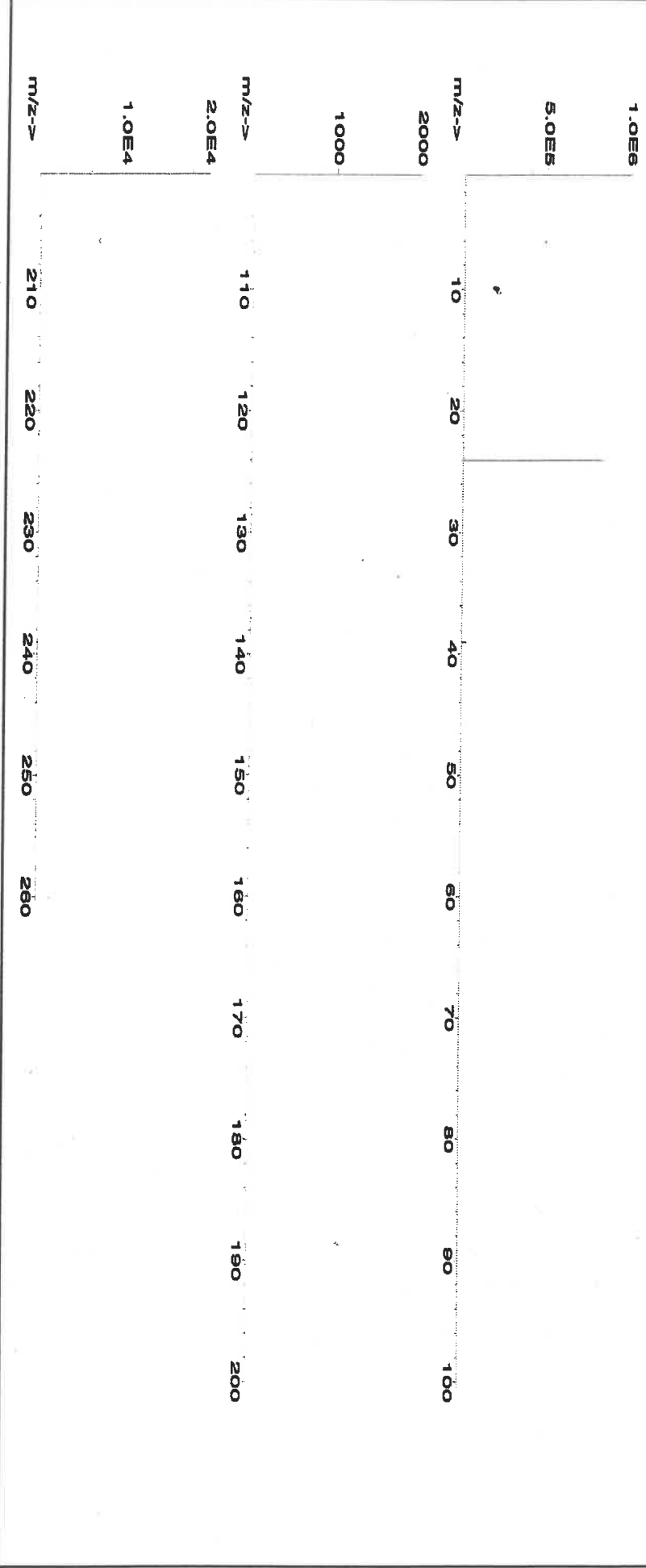
<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas
	091823

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RW#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.923 sec]:58112.D# [Count] [Linear]





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:

- * 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 certified (+/-) 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).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58112
091823
Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

091826
Ambient (20 °C)
10000
6UTB

M5768 M5769

BP R: 1/13/24

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

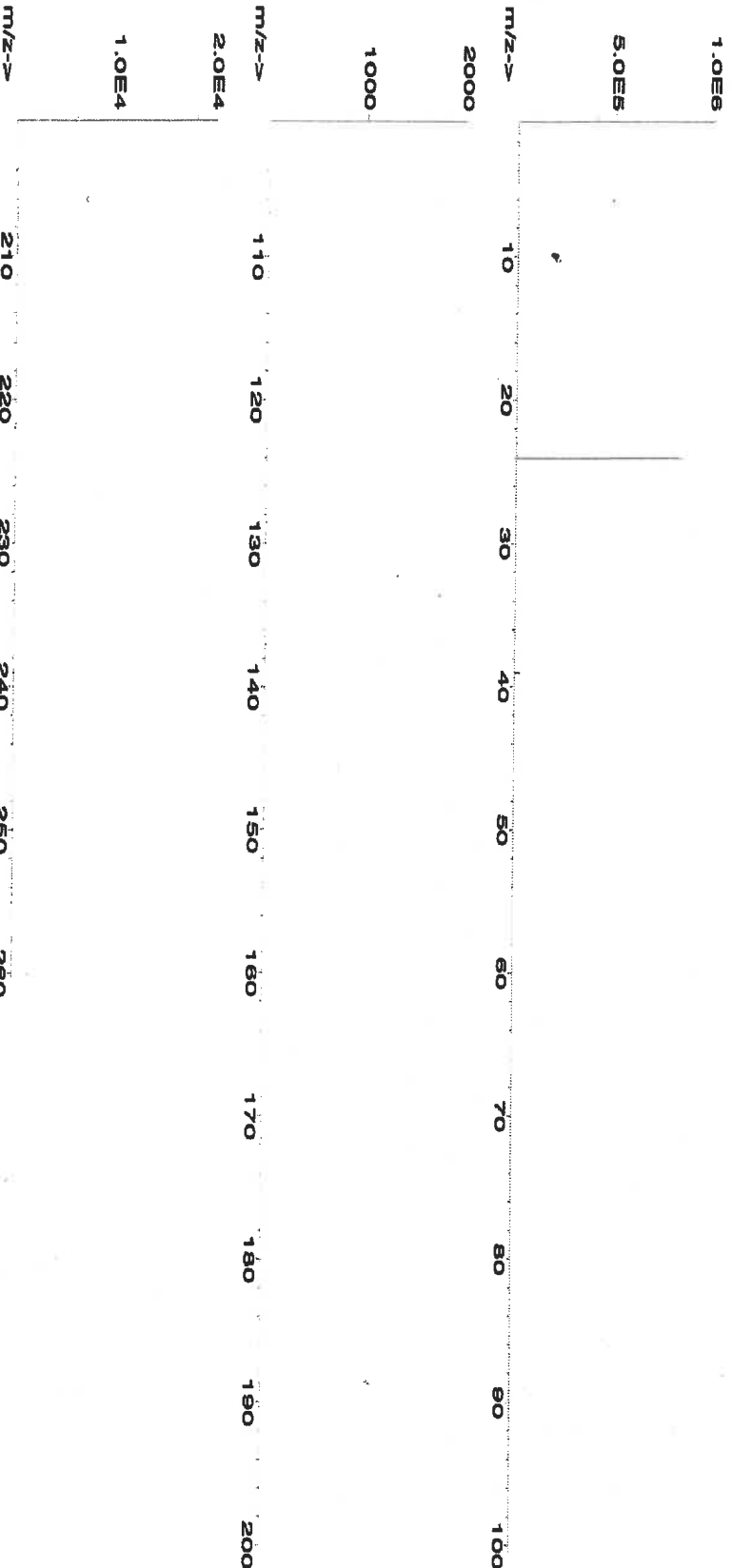
Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RW#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.923 sec]:58112.D# [Count] [Linear]





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:

- * 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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 57004
Lot Number: 102523
Description: Beryllium (Be)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

102526

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty

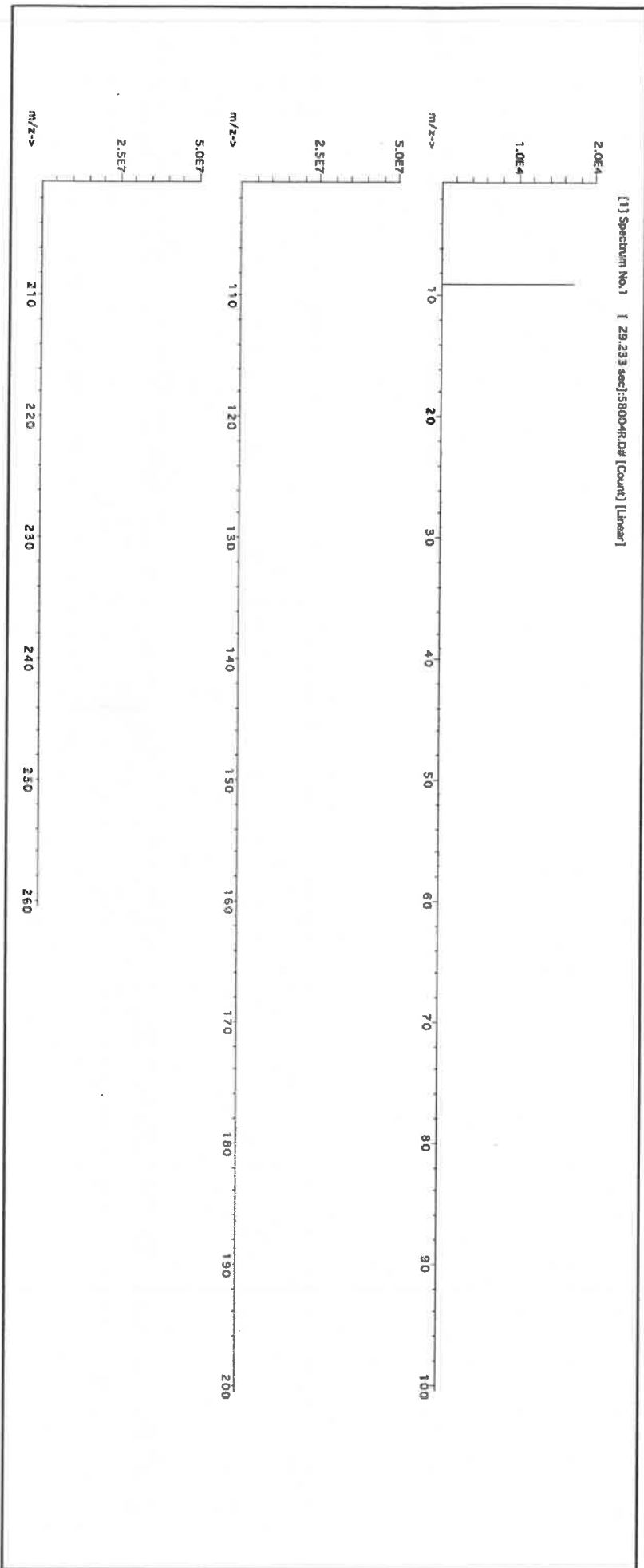
0.058 Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

SDS Information

Compound	Part Number	Lot	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13597-99-4	0.2µg/m3	intrinsc-rat 3.16mg/kg	NA
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	Tc	<0.02	U	<0.02
As	<0.02	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<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	Tl	<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 certified (+/-) 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).

629



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

R-1.02509124
M599

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

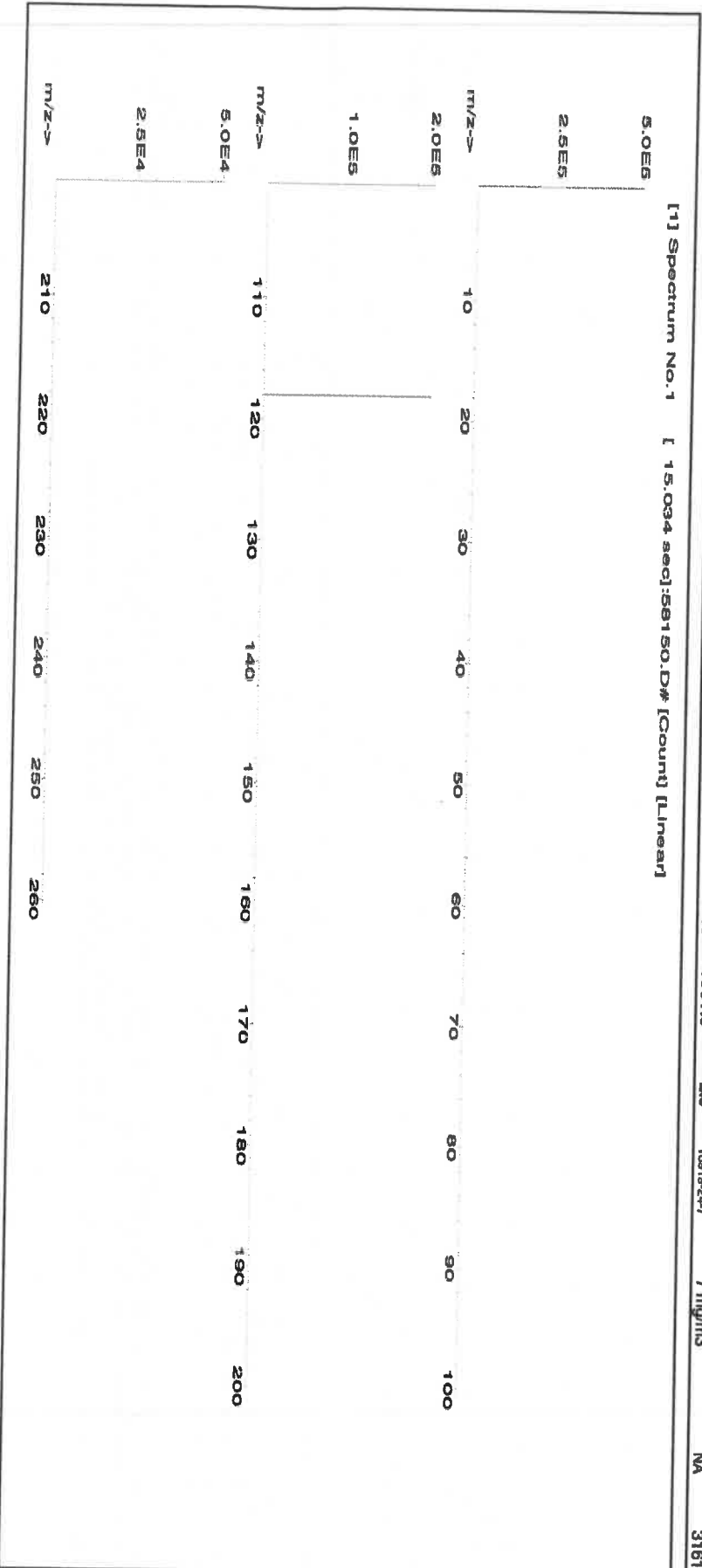
Weight shown below was diluted to (mL): 499.93
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>[Signature]</i>	
Formulated By:	Benson Chan
	071123
Reviewed By:	<i>[Signature]</i>
	Pedro L. Rentas
	071123

Compound		Lot		Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information		
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM	NIST

1. Ammonium hexafluoroantimonate(V) (Sn) INO10 SMD042023A1 1000 99.999 0.10 44.2 1.13107 1.13286 1001.6 2.0 16919-24-7 7 mg/m3 NA 3161a

[1] Spectrum No. 1 [15.034 sec]:56150.D# [Count] [Linear]





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	Ti	<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	Sa	<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	Tl	<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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027
Lot Number: 091923
Description: Cobalt (Co)

Expiration Date: 091926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # 24002546
Solvent: Nitric Acid

2.0% Nitric Acid
40.0 (mL)

Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

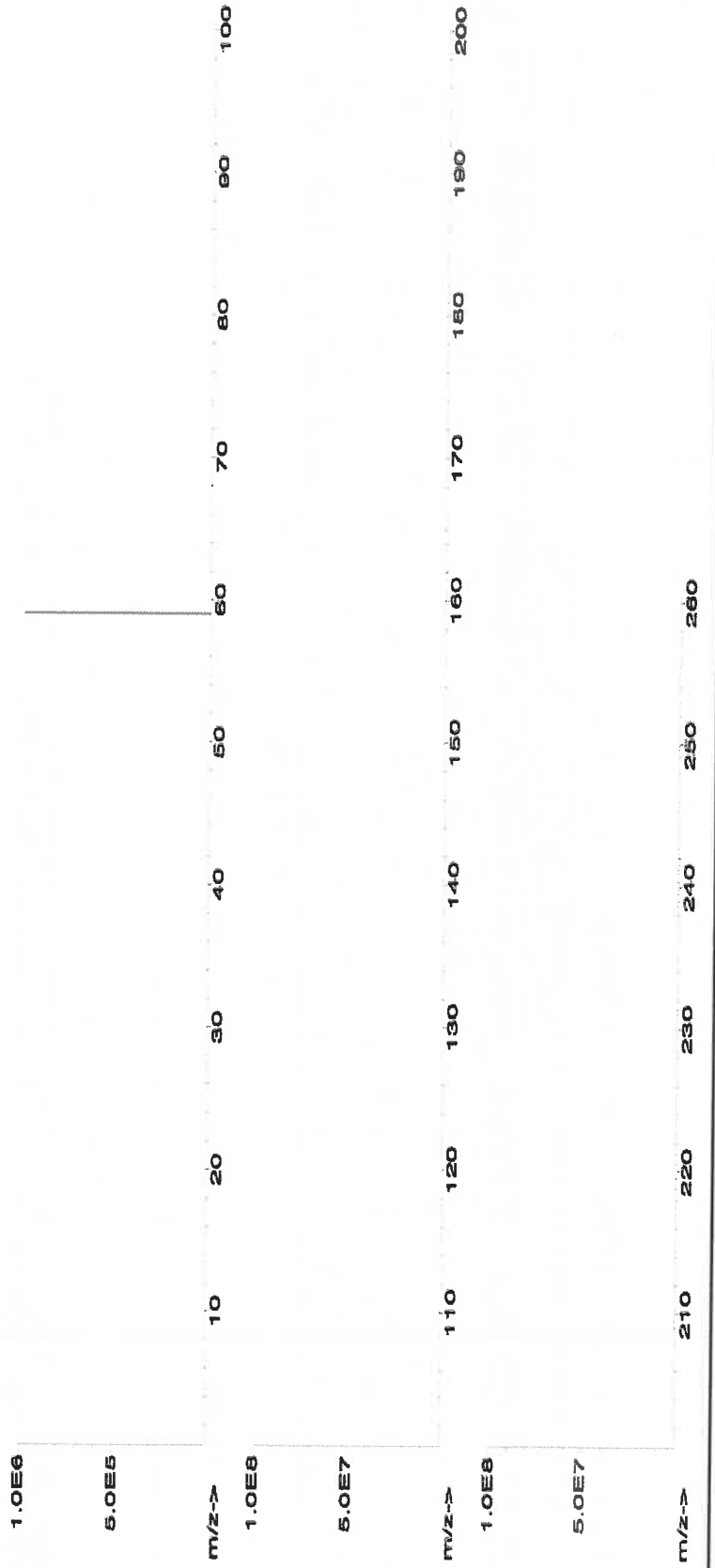
SDS Information

Expanded Uncertainty +/- (µg/mL)
Final Conc. (µg/mL)
Initial Conc. (µg/mL)
Nominal Conc. (µg/mL)
Pipette (mL)
Dilution Factor
Part Number
Lot Number

(Solvent Safety Info. On Attached pg.)
NIST SRM
CAS# OSHA PEL (TWA) LD50

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

[1] Spectrum No.1 [34.243 sec]:58027.D# [Count] [Linear]





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	<0.02	Os	<0.01	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	<0.2	Na	<0.02	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	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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 57033
Lot Number: 111323
Description: Arsenic (As)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date: 111326
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6LUTB
Volume shown below was diluted to (mL): 4000.0

Balance Uncertainty: 5E-05
Flask Uncertainty: 0.06

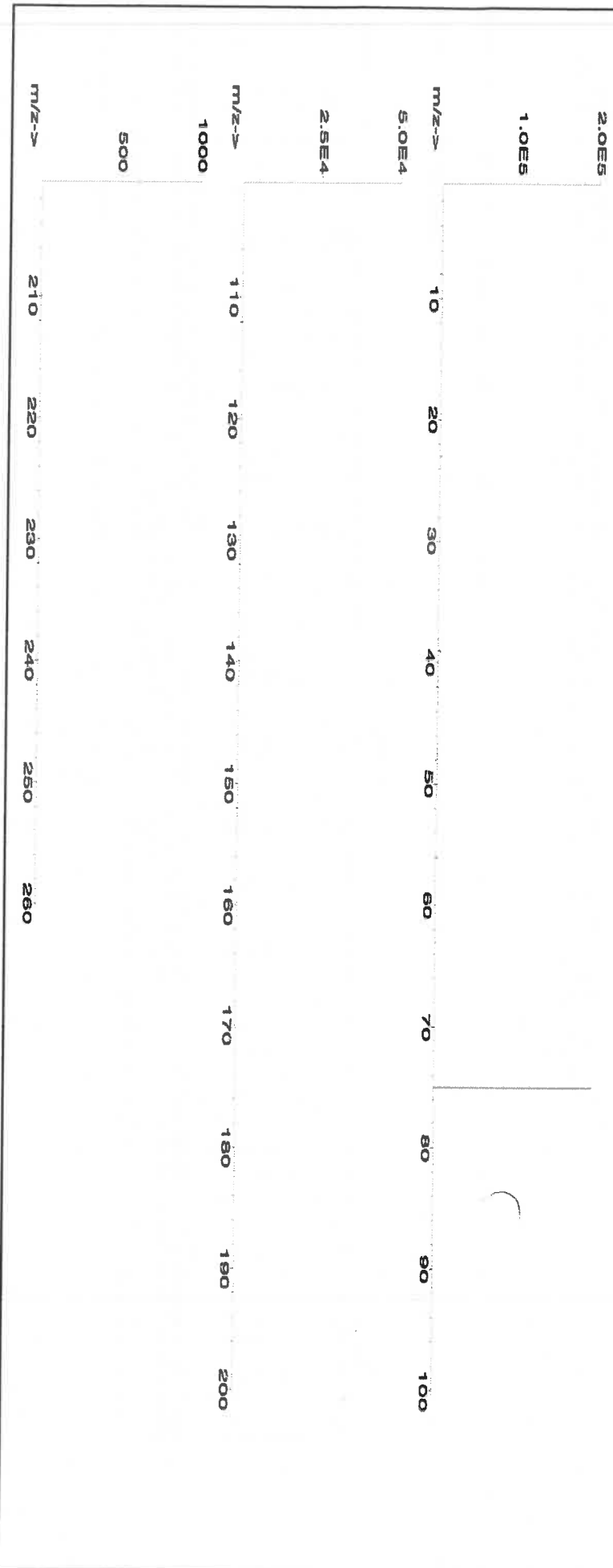
2.0% **80.0 (mL)** **Nitric Acid**

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rendas	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)	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 or-lat 500 mg/kg 3103a

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]





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	Tl _h	<0.02	Yb	<0.02
Bc	<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	Sa	<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 certified (+/-) 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Solvent: 21110221 Nitric Acid

Lot #

636

Expiration Date: 041726
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 40.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 2000.02 0.056 Balance Uncertainty
Flask Uncertainty

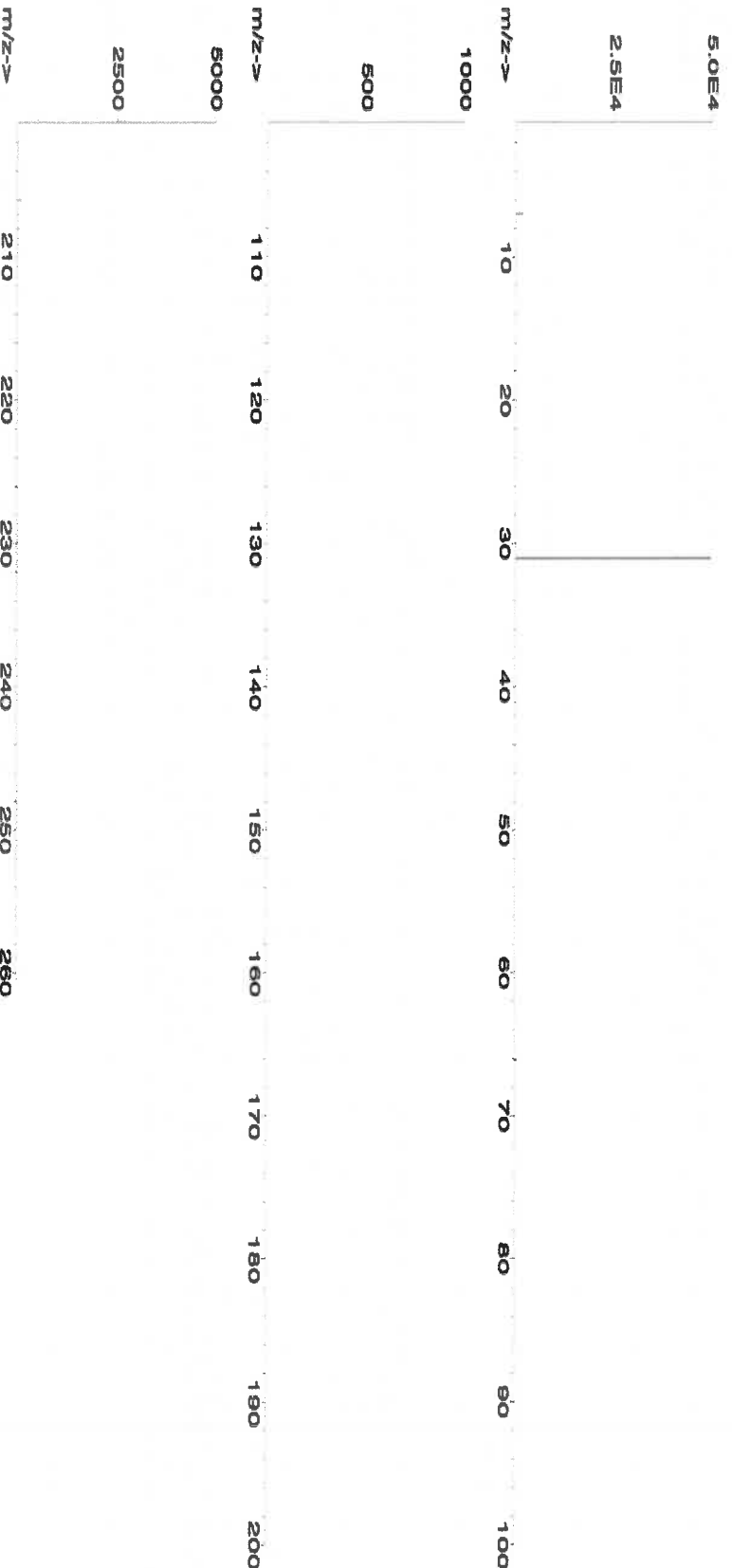
Formulated By: Lawrence Barry	041723
Reviewed By: Pedro L. Rentas	041723

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium dihydrogen phosphate (P) IN008 P082019A1 10000 99.999 0.10 27.5 72.7287 72.7289 10000.0 20.0 7722-76-1 5 mg/m3 or-hal >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





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	Pt	<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:

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57016
122923
Sulfur (S)

Solvent: 122923

ASTM Type 1 Water

Lot # R1 02/09/24

M5816

638

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6L7B
Weight shown below was diluted to (mL): 4000.0
SE-05 Balance Uncertainty
0.06 Flask Uncertainty

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium sulfate (S) IN117 SLBR725V 1000 99.9 0.10 24.3 16.4979 16.4980 1000.0 2.0 7783-20-2 NA off-rel 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]





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	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<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	Ru	<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	S	<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	Ta	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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CERTIFIED WEIGHT REPORT:

Part Number: **57116**
Lot Number: **071123**
Description: **Sulfur (S)**

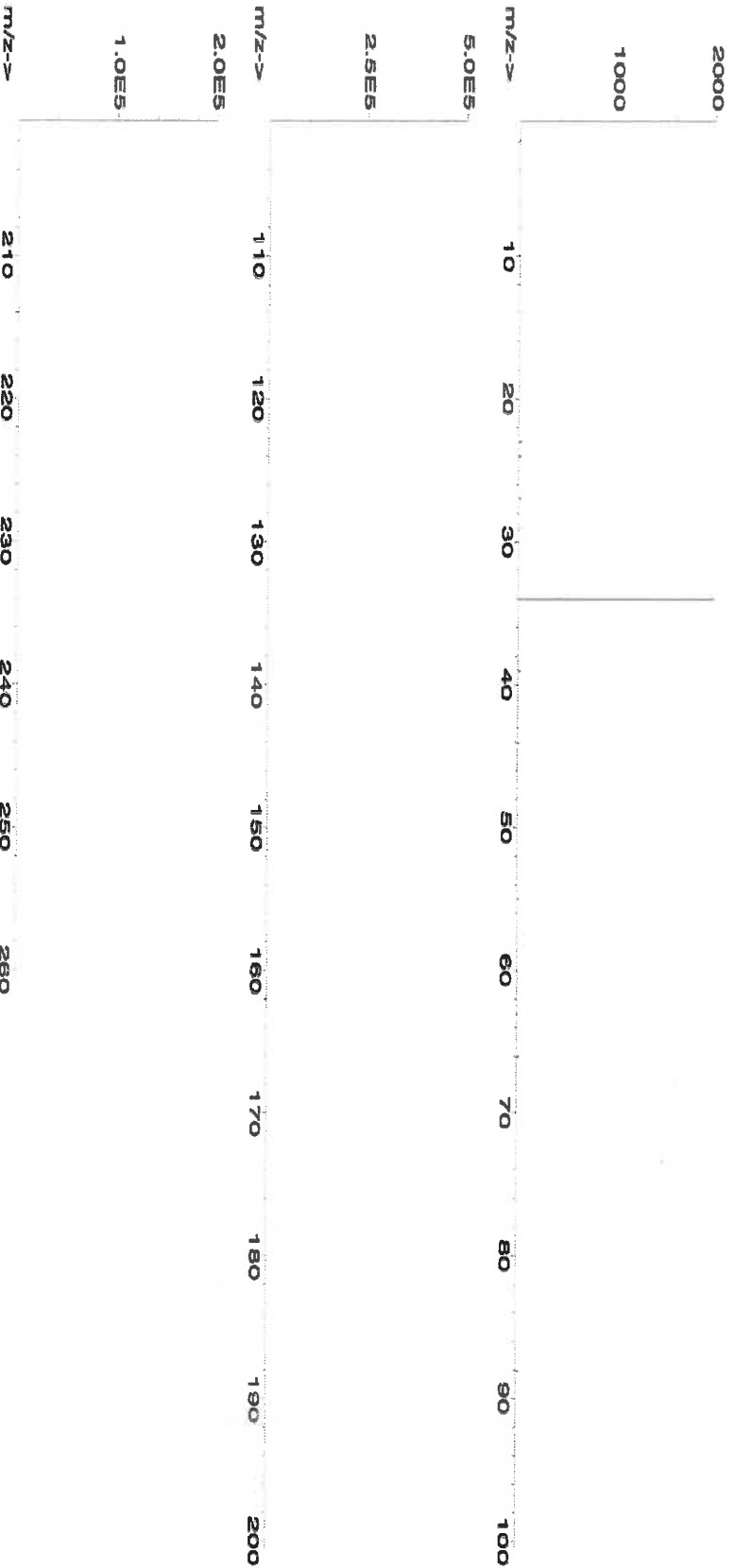
Lot #
Solvent: **071123** ASTM Type 1 Water

Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas
071123	

Expiration Date: **071126**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test Number: **6UTB**
Weight shown below was diluted to (mL): **1999.48** **5E-05** Balance Uncertainty
0.058 Flask Uncertainty

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
Ammonium sulfate (S)	IN117 SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4692	10000.1	20.0
						7763-20-2	NA		oral 4250mg/kg 3181

[1] Spectrum No. 1 [24.004 sec]:58116.D# [Count] [Linear]





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	Pt	<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

Physical Characterization:

(T)= Target analyte

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: **57014**
Lot Number: **122023**
Description: **Silicon (Si)**

Solvent: **24002546 Nitric Acid**

Lot #

Aleah O Brady

Formulated By: **Aleah O Brady** 122023

2% 40.0 (mL) Nitric Acid

Reviewed By: *Pedro L. Rentas* 122023

Expiration Date: **122026**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

SE-05 Balance Uncertainty

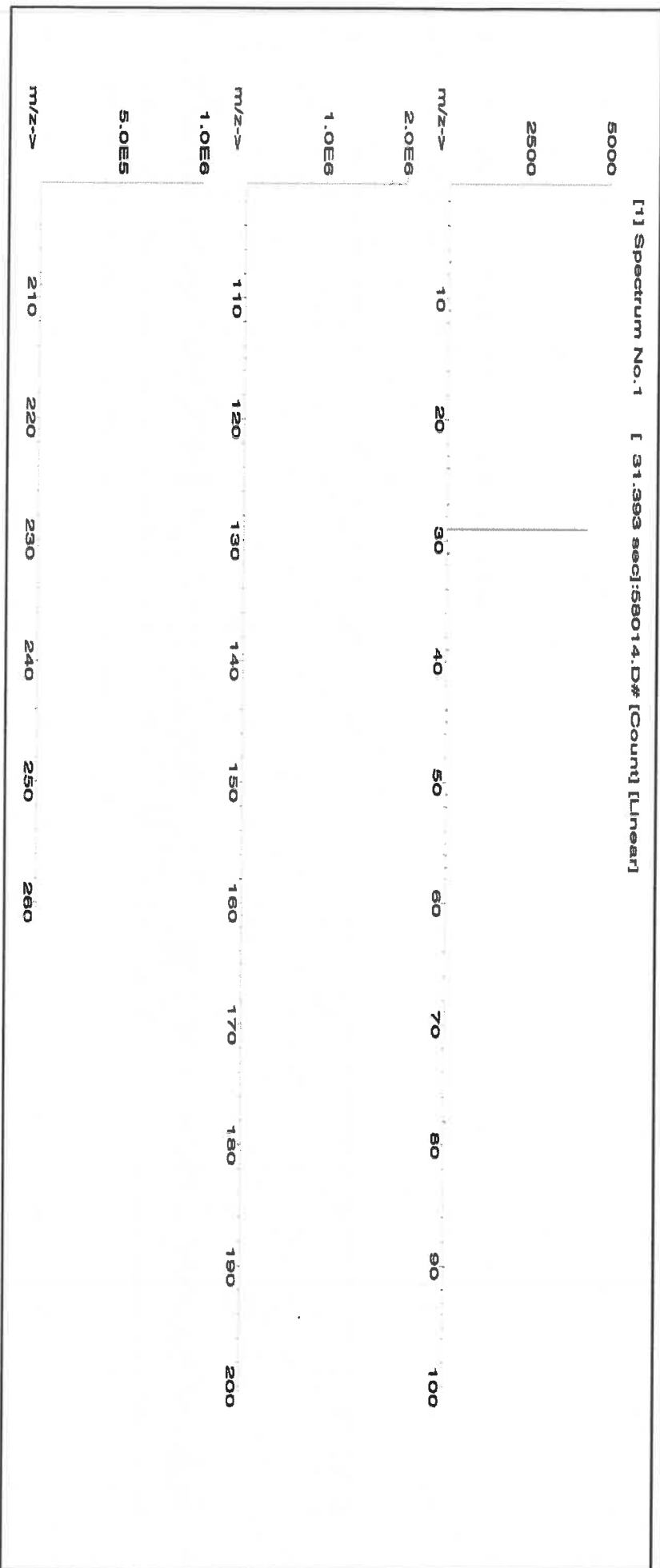
Weight shown below was diluted to (mL): **1999.48** 0.058 Flask Uncertainty

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium hexafluorosilicate (Si) IN009 S1D08022A1 1000 99.999 0.10 14.4 13.8854 13.8855 1000.0 2.0 18919-19-0 2.5 mg/m3 off-mus 70 mg/kg NA

[1] Spectrum No. 1 [31.393 sec; 158014.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Ru	<0.02	Ag	<0.02	Ti	<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	Tl	<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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Solvent: 24002546 Nitric Acid

Lot # R: 02109124 MS819

2% 60.0 (mL) Nitric Acid

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

5E-05 Balance Uncertainty

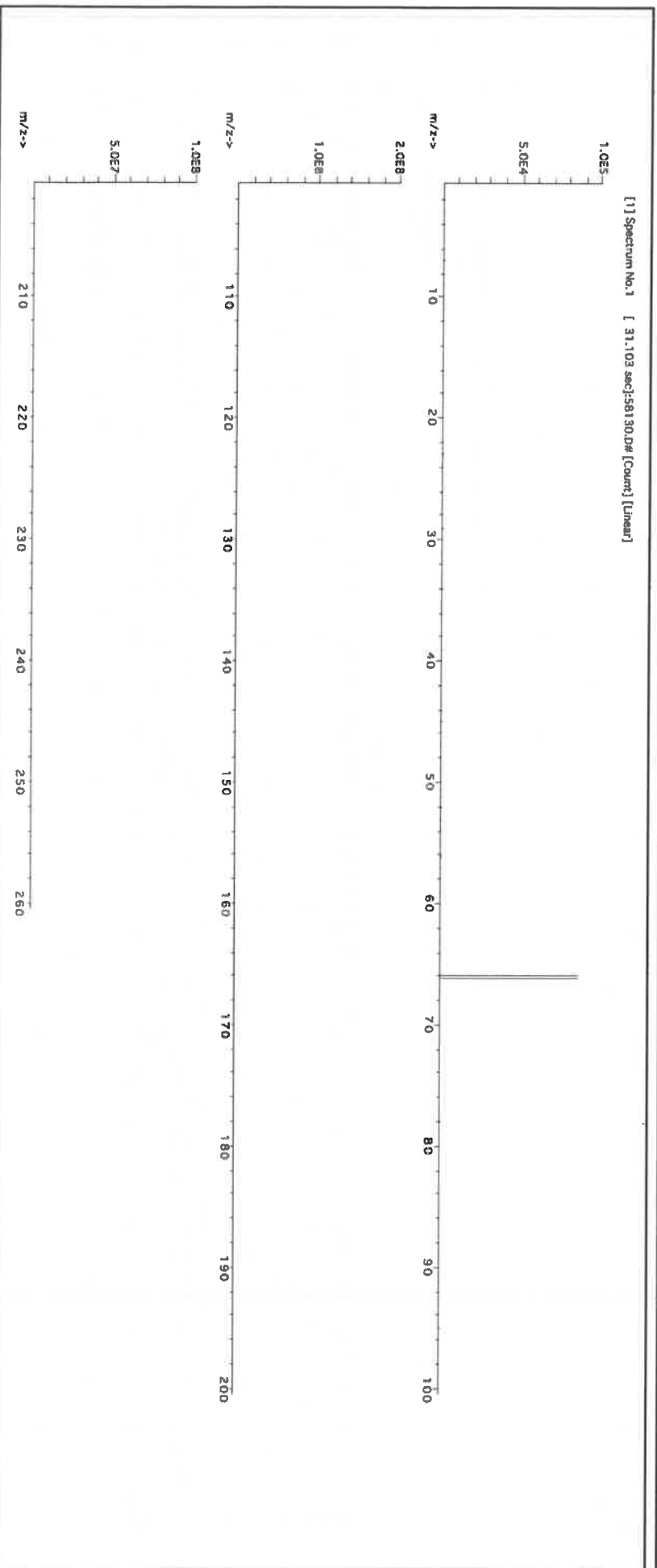
0.06 Flask Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rientas	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)	CAS#	OSHA PEL (TWA)	LDSO	NIST SRM
-----	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Zinc nitrate hexahydrate (Zn) IN016 ZNE03021A1 1000 99.999 0.10 24.3 12.3475 12.3502 1000.2 2.0 10196-18-6 1 mg/mL 3168 on-rat 1190mg/kg





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	Bu	<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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 57015
Lot Number: 091123
Description: Phosphorous (P)

Solvent: 24002546 Nitric Acid

Lot #

Formulated By: Lawrence Barry 091123
Reviewed By: Pedro L. Rentas 091123

2% 40.0 (mL) Nitric Acid

646

Expiration Date: 091126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6LJB

Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

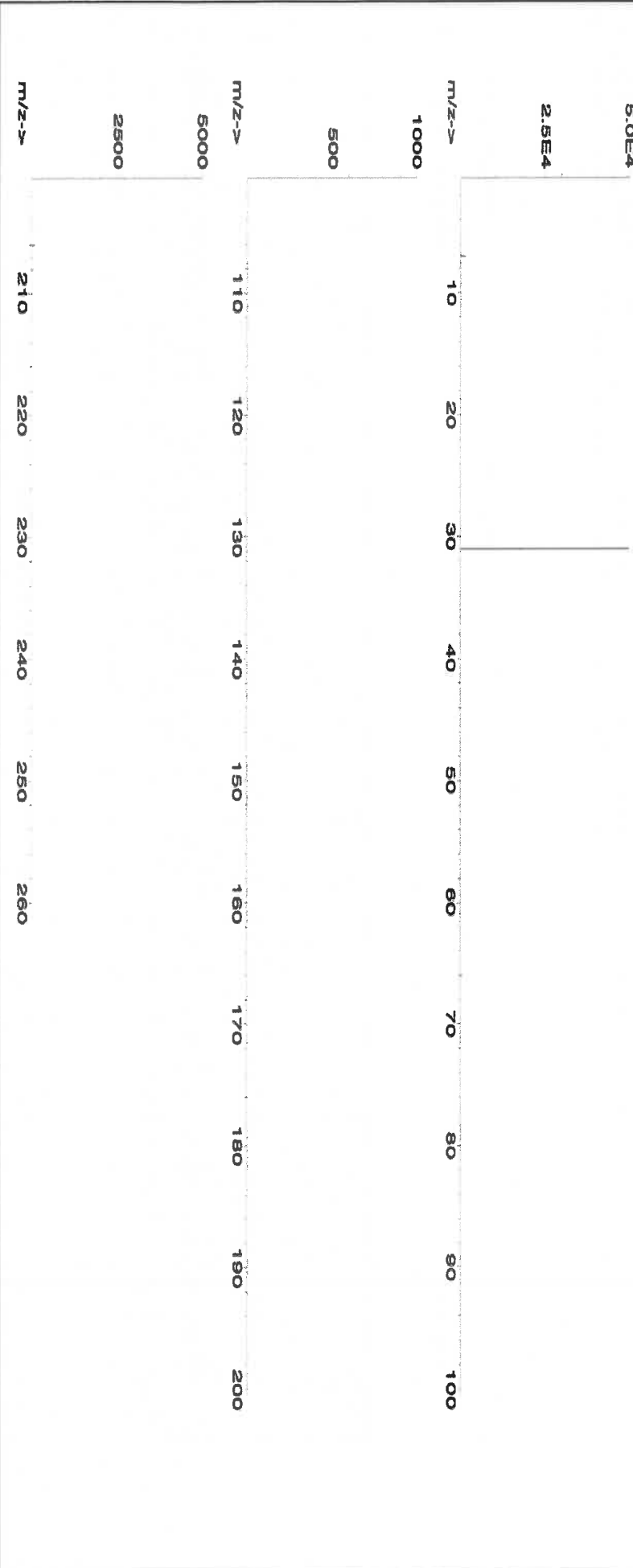
Compound

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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SDS Information

1. Ammonium dihydrogen phosphate (P) IN008 PVO62019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





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	Tc	<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	Sa	<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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

MS961 R-1 6/11/24

Lot #

Part Number:

57028

Solvent:

24002546 Nitric Acid

Lot Number:

041124

Description:

Nickel (NI)

Expiration Date:

041127

2%

5.0

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

249.85

5E-05 Balance Uncertainty
0.002 Flask Uncertainty

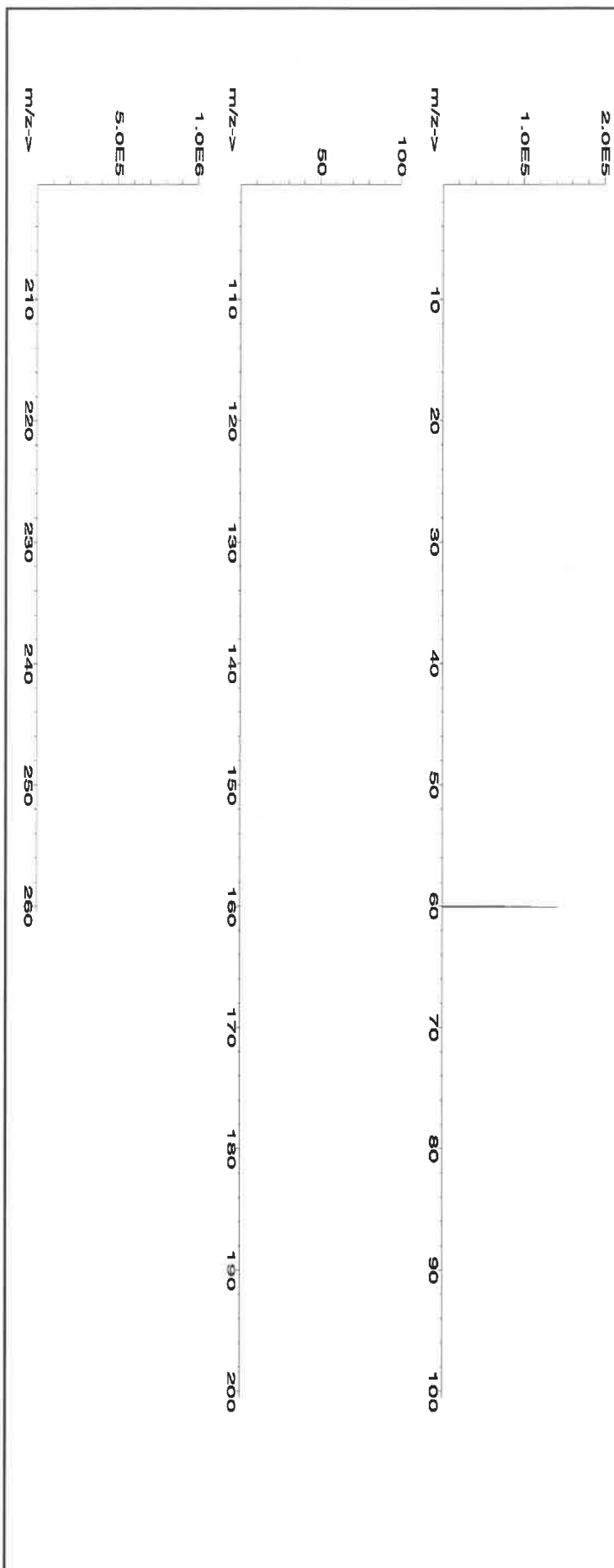
Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

SDS Information

Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)			NIST
	RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

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	or-rat 1620 mg/kg	3136
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[1] Spectrum No.1 [12.374 sec]:58128.D# [Count] [Linear]





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	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	Ba	<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
Bc	<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 certified (+/-) 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).



Certified Reference Material CRM
M5962 **R10614124**



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

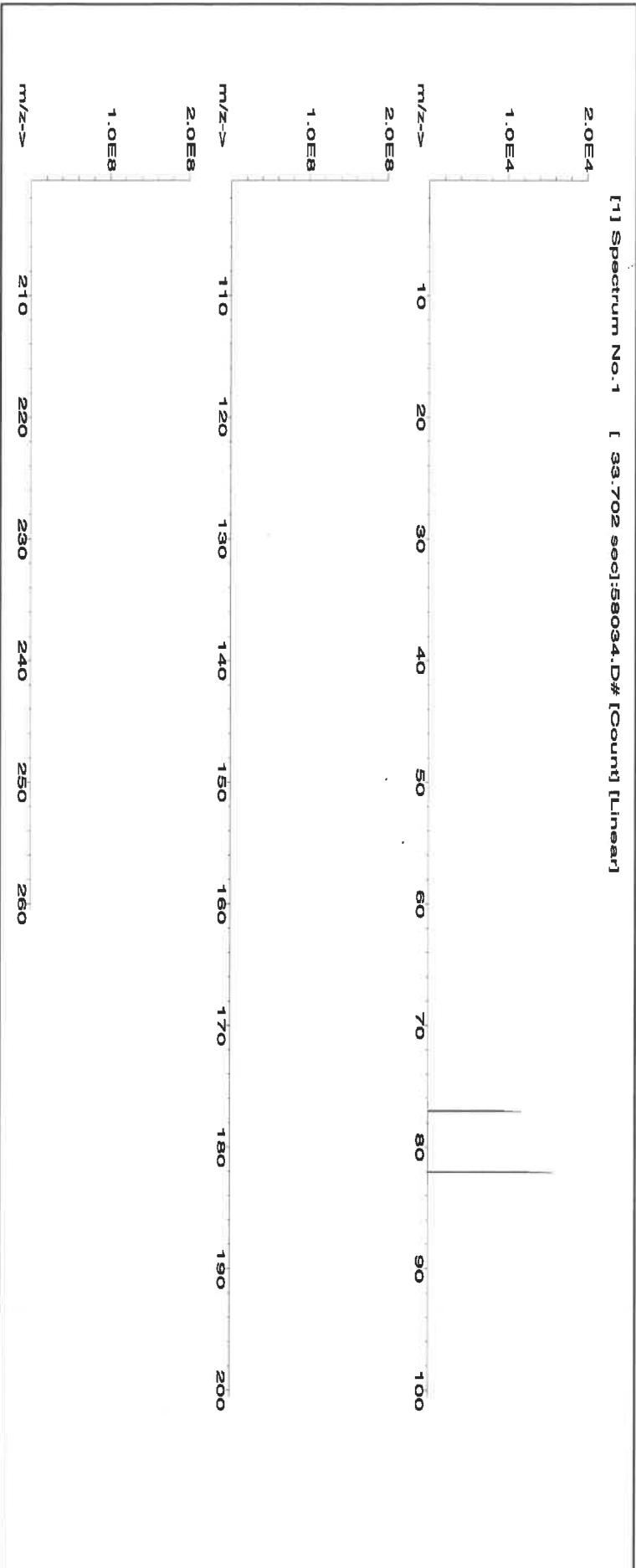
Part Number: 57034
Lot Number: 060624
Description: Selenium (Se)
Expiration Date: 060627
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.07

Lot # 24002546
Solvent: Nitric Acid
2.0%
40.0 (mL)
Nitric Acid

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rantas	060624

SDS Information									
Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	1000.0	2.2

(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50 SRM
7782-49-2 0.2 mg/m3 or-tral 6700 mg/kg 3149





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

651

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	Pt	<0.02	Se	T	Tb	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	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02		<0.02	Ti	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 certified (+/-) 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).

M5976, M5977

R: 02/22/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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	<	0.000590	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,79Br16O,190Os2+,190Pt2+
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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6798; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com

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



Certificate of Analysis

MS978, MS979



Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com



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).

1.0 ACCREDITATION / REGISTRATION

2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution

Catalog Number: CGT1

Lot Number: T2-T1719972

Matrix: 2% (v/v) HNO₃

Value / Analyte(s): tr. HF

Starting Material: 1 000 µg/mL ea.

Starting Material: T1 Metal

Starting Material Lot#: 2094

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Method #1

1002 ± 4 µg/mL

ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods
Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \sum (X_i / U_i)$

X_i = mean of Assay Method A with

$U_{A,HR}$ = the standard uncertainty of characterization Method A

$U_{A,HR}$ = long term stability standard uncertainty (storage)

$U_{A,HR}$ = bottle to bottle homogeneity standard uncertainty

$U_{A,HR}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = long term stability standard uncertainty (storage)

$U_{CRM/RM}$ = bottle to bottle homogeneity standard uncertainty

$U_{CRM/RM}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = long term stability standard uncertainty (storage)

$U_{CRM/RM}$ = bottle to bottle homogeneity standard uncertainty

$U_{CRM/RM}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = long term stability standard uncertainty (storage)

$U_{CRM/RM}$ = bottle to bottle homogeneity standard uncertainty

$U_{CRM/RM}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = long term stability standard uncertainty (storage)

$U_{CRM/RM}$ = bottle to bottle homogeneity standard uncertainty

$U_{CRM/RM}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = long term stability standard uncertainty (storage)

$U_{CRM/RM}$ = bottle to bottle homogeneity standard uncertainty

$U_{CRM/RM}$ = the known error from characterization

k = coverage factor = 2

$U_{CRM/RM} = \sqrt{U_{A,HR}^2 + U_{B,HR}^2 + U_{C,HR}^2 + U_{D,HR}^2 + U_{E,HR}^2}$

$U_{CRM/RM}$ = expanded uncertainty (95% confidence level) using the inverse square of the variance

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 UHPA-filtered Clean Room. An UHPA-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
M 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	<	0.00096		
O B	<	0.008929	M Ge	<	0.002146	M Os	<	0.000269	O Sr	<	0.00096		
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 Th	<	0.001341		
O Ca	<	0.000676	M In	<	0.002683	M Pr	<	0.000268	M Tl	<	0.053663		
M Cd	<	0.000268	M Ir	<	0.000269	M Pt	<	0.000536	S Tl	<			
M Co	<	0.000268	M K	<	0.001172	M Rb	<	0.000268	M Ti	<	0.000268		
M Cr	<	0.000752	O Li	<	0.002268	M Re	<	0.000268	M Tm	<	0.000268		
M Cs	<	0.000268	M Lu	<	0.000268	M Rh	<	0.000268	M U	<	0.000268		
O Cu	<	0.010890	O Mg	<	0.005445	I S	<	0.006976	M Y	<	0.002146		
M Dy	<	0.000268	O Mn	<	0.003267	M Sb	<	0.004900	M Yb	<	0.000536		
M Er	<	0.000268	M Mo	<	0.000774	O Sc	<	0.004900	M Yb	<	0.000536		

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: 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 1% HNO₃ / 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 P10 and dissolve by heating with K₂S₂O₇ - no KF if silica not present); Organic Matrices (Dry ash at 450EC in P10 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):

ICP-MS 48 amu
Estimated D.L. 14 ppt
N/A
Order Interferences (underlined indicates severe)

32S16O, 32S14N,
14N16O18O,
14N17N2, 36Ar12C,
48Ca, [96X=2
(where X = Zr, Mo,

Ru)]
Ce, Ar, Ni
Nb, Ta, Cr, U
W, Mo, Co

ICP-OES 323.452 nm
ICP-OES 334.941 nm
ICP-OES 336.121 nm

0.0054 / 0.00092 µg/mL
0.0038 / 0.00028 µg/mL
0.0053 / 0.00034 µg/mL

HF Note: This standard should not be prepared or stored in glass.

HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

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"

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY
Inorganic Ventures, 300 Technology Drive, Chesapeake, VA 20723, USA. Telephone: 800.868.6786; 540.565.3030; Fax: 540.565.3012; info@inorganicventures.com

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

Thomas Kozlikowski
Manager, Quality Control

809782

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul Gaines



MS981

R:6/11/24



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57092
060724
Uranium (U)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

060727
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.07

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Lot # Solvent:
24002546 Nitric Acid

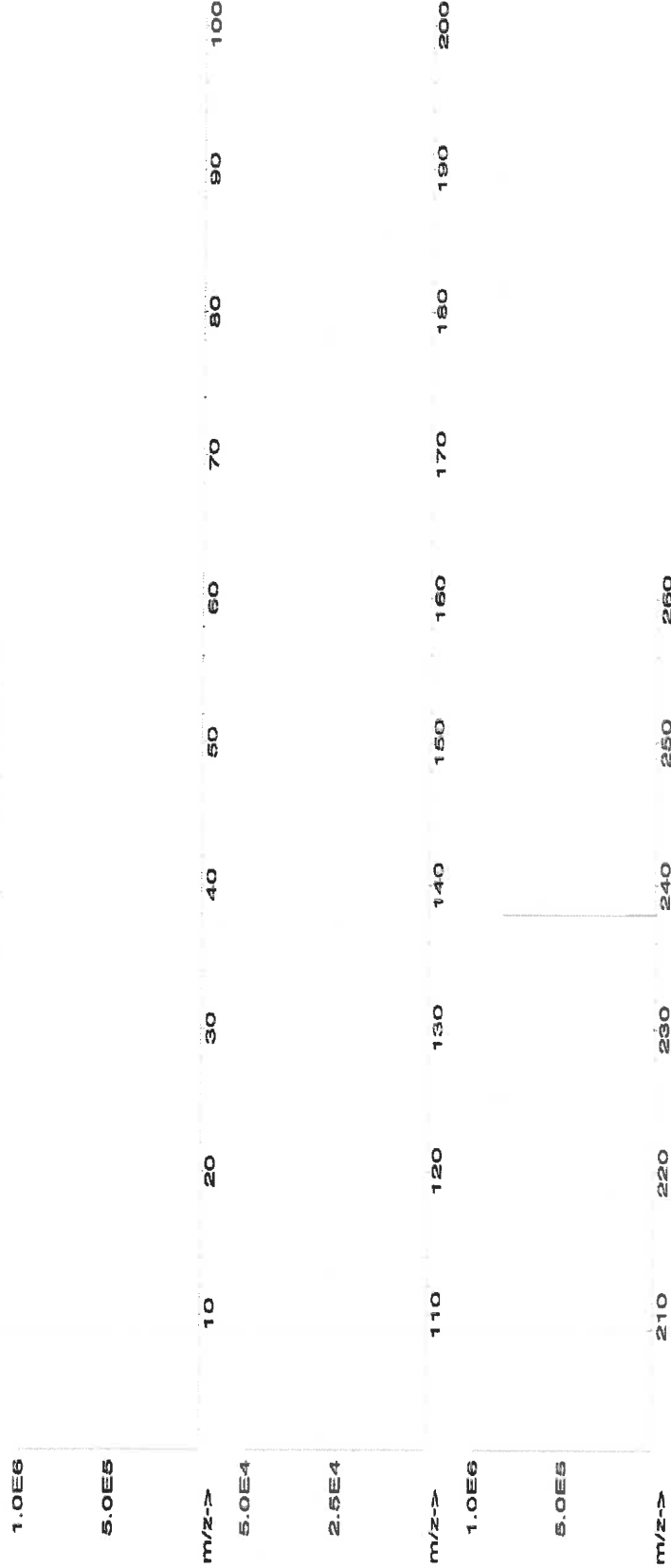
2.0% Nitric Acid
40.0 (mL)

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas

SDS Information

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)	(Solvent Safety Info. On Attached pg.)	NIST SRM
1. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13620-83-7 0.05 mg/m3 orl-rat 1040 mg/kg	3164

[1] Spectrum No.1 [23.254 sec]:57092.D# [Count] [Linear]



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	<0.02	Os	<0.01	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	<0.02	Hg	<0.2	P	<0.2	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	<0.02	Sc	<0.2	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:

[Signature]

- * 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 certified (+/-) 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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45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57038
031524
Strontium (Sr)

Solvent: 24002546 Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

031527
Ambient (20 °C)
1000
6UTB

2% 40.0 Nitric Acid
(mL)

Weight shown below was diluted to (mL): 2000.07
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Formulated By:	Benson Chan 031524
Reviewed By:	Pedro L. Rentas 031524

Expanded

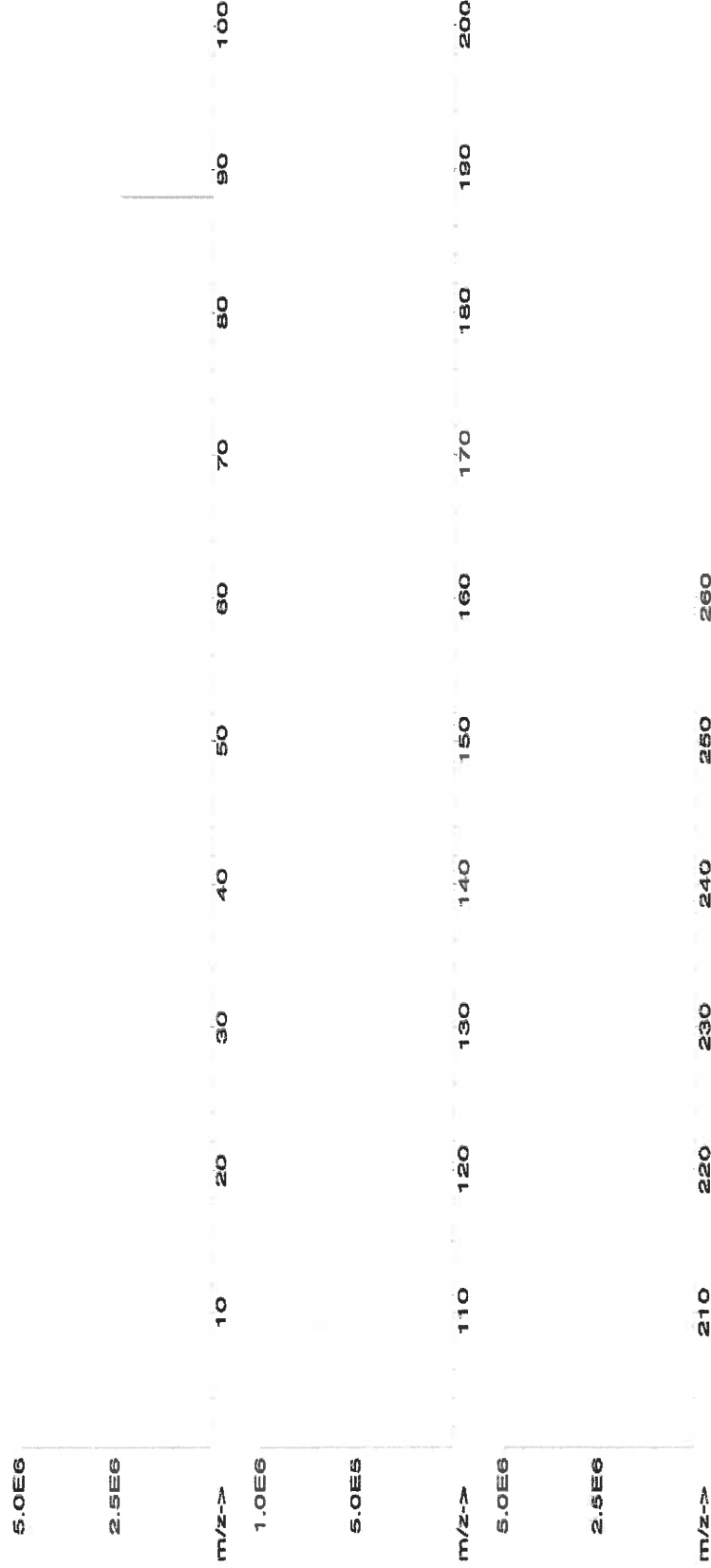
Uncertainty

(Solvent Safety Info. On Attached pg.)
NIST
LD50
SRM

SDS Information
CAS# OSHA PEL (TWA)

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SR202018A1	1000	89.997	0.10	41.2	4.85470	4.85502	1000.1	2.0	10042-76-9	NA	orl-rat >2000mg/kg	3153a

[1] Spectrum No.1 [14.495 sec]:58136.D# [Count] [Linear]



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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	Pt	<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	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Ti	<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	Tl	<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 certified (+/-) 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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2024 JUN 7 3:58 PM



145983

R: 6/11/24



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57040
071423
Zirconium (Zr)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

071426
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # Solvent:
21110221 Nitric Acid

2.0% Nitric Acid
40.0 (mL)

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas

Expanded
Uncertainty
+/- (µg/mL)

SDS Information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	1000.0	2.2	13520-92-8	NA	NA	NA

[1] Spectrum No.1 [41.153 sec]:57040.D# [Count] [Linear]

1.OE6

5.OE5

m/z-->

1.OE8

5.OE7

m/z-->

1.OE8

5.OE7

m/z-->

664



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

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	<0.02	Os	<0.01	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	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	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	<0.02	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02
																			T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

[Signature]

- * 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 certified (+/-) 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).

665



Certified Reference Material CRM
R: 01/03/24 M6033



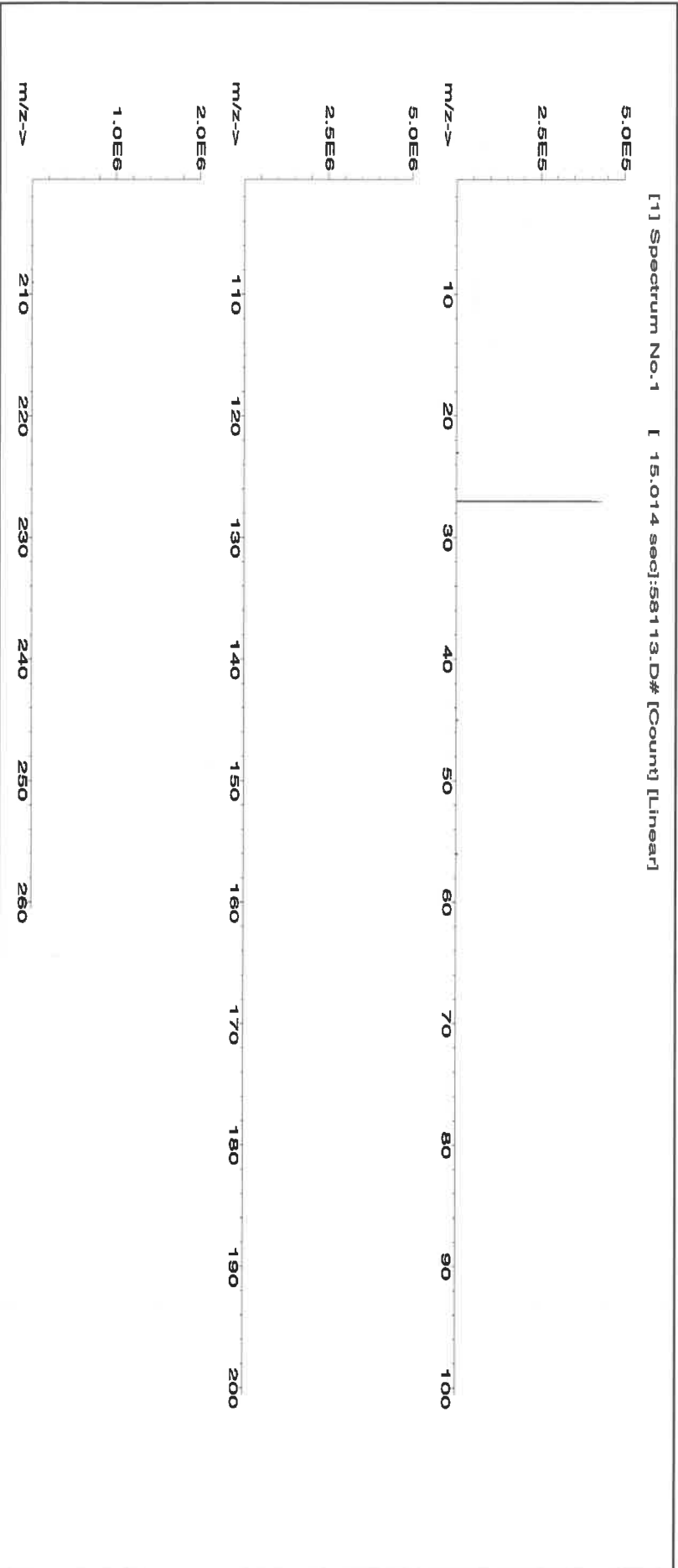
CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 011623
Description: Aluminum (Al)
Expiration Date: 011626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6LUTB
Weight shown below was diluted to (mL): 2000.02
Solvent: 20510011 Nitric Acid
Lot #
2% 40.0 (mL) Nitric Acid
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Rentas</i>
	Pedro L. Rentas
	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-----	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Aluminum nitrate nonahydrate (Al) IN022 ALUM12021A1 10000 99.999 0.10 7.30 273.9779 274.0078 10001.1 20.0 7784-27-2 2 mg/m³ or rat 3671 mg/kg 3101a



Nitric Acid 69%
CMOS

avantor™



Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Draw
date: 1.1 - 08/01/2023

M6034, M6037
M6035, M6038,
M6036, 1

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

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
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For Microelectronic Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

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Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Received! — 08/01/2024
pater
m6039
m6040

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

672

Revised 8/19/24, M60055

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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: IV-STOCK-12

Lot Number: U2-MEB734294

Matrix: 5% (v/v) HNO₃

Value / Analyte(s): 10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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

- June 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





CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 122226

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 10000

NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

2% 60.0 (mL) Nitric Acid

<i>Aleah O Brady</i>	
Formulated By:	Aleah O Brady
Reviewed By:	Pedro L. Rentas
	122223

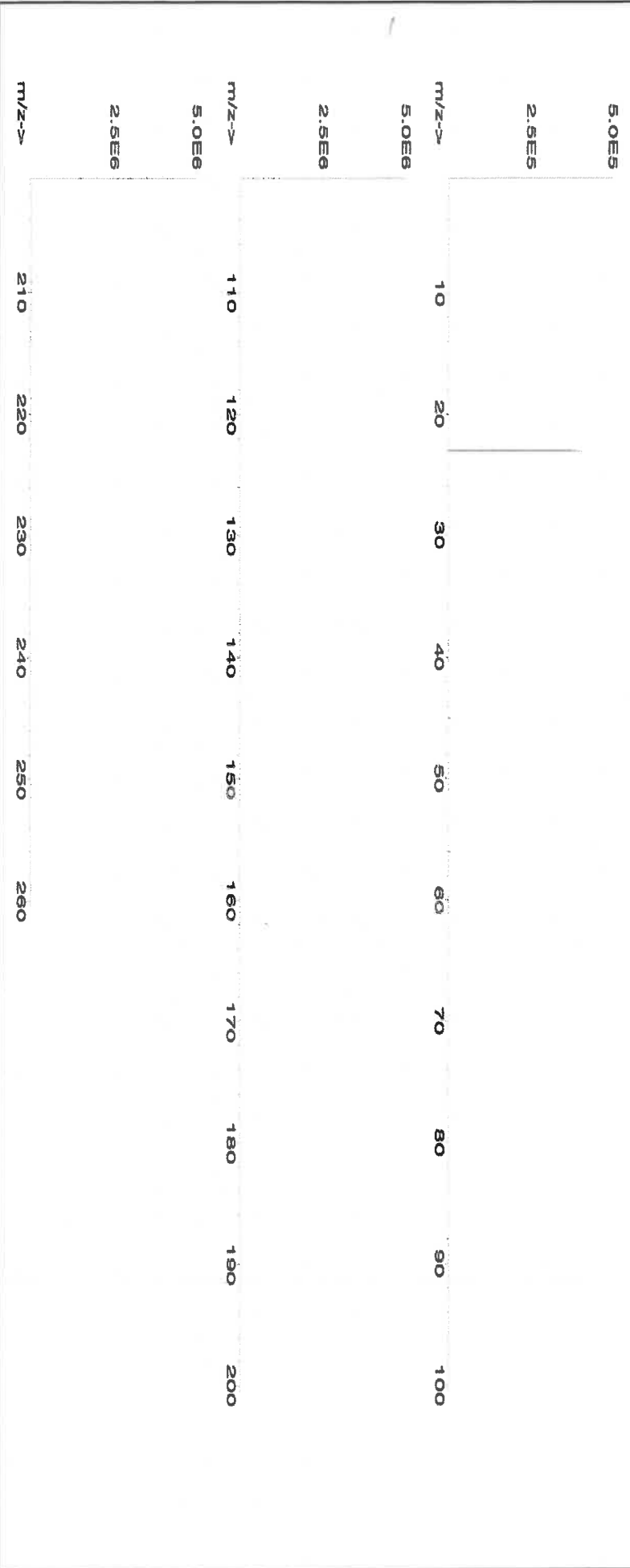
Expanded

SDS Information

Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.999 0.10 26.9 111.5406 111.5479 10000.7 20.0 7631-99-4 5 mg/m3 or-trat 3430 mg/kg 3152a

[1] Spectrum No.1 [8.935 sec]:58111.D# [Count] [Linear]





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	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<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	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	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	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	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	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 certified (+/-) 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).

A: 4/11/22

M5738 M5739 M5740 M5741 M5742
M5743

Certificate of Analysis

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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: 6020ISS
Lot Number: S2-MEB709511
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 µg/mL ea:
Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i})^2 / (\sum(1/(u_{char\ i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2(u_{char\ i})^2]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 03, 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-MS (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 an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, 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

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. 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 the ICP-MS ICS 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-0803, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 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.



**QATS LABORATORY INORGANIC REFERENCE MATERIAL
 INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (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 an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

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ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 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.



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57051
120523
Antimony (Sb)

Lot #
Solvent:

24002546
Nitric Acid

2.0%
60.0
Nitric Acid
(mL)

Expiration Date:

120526

Recommended Storage:
Ambient (20 °C)

Nominal Concentration (µg/mL):
1000

NIST Test Number:
6U7B

Volume shown below was diluted to (mL):
3000.41

5E-05
0.058
Balance Uncertainty
Flask Uncertainty

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Renteria	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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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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 or-rel 7000 mg/kg 3102a

[1] Spectrum No.1 [17.964 sec]:58051.D# [Count] [Linear]





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	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



M6030



CERTIFIED WEIGHT REPORT:

Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**

Lot #
Solvent: 24002546 Nitric Acid

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

2% 80.0 (mL) Nitric Acid

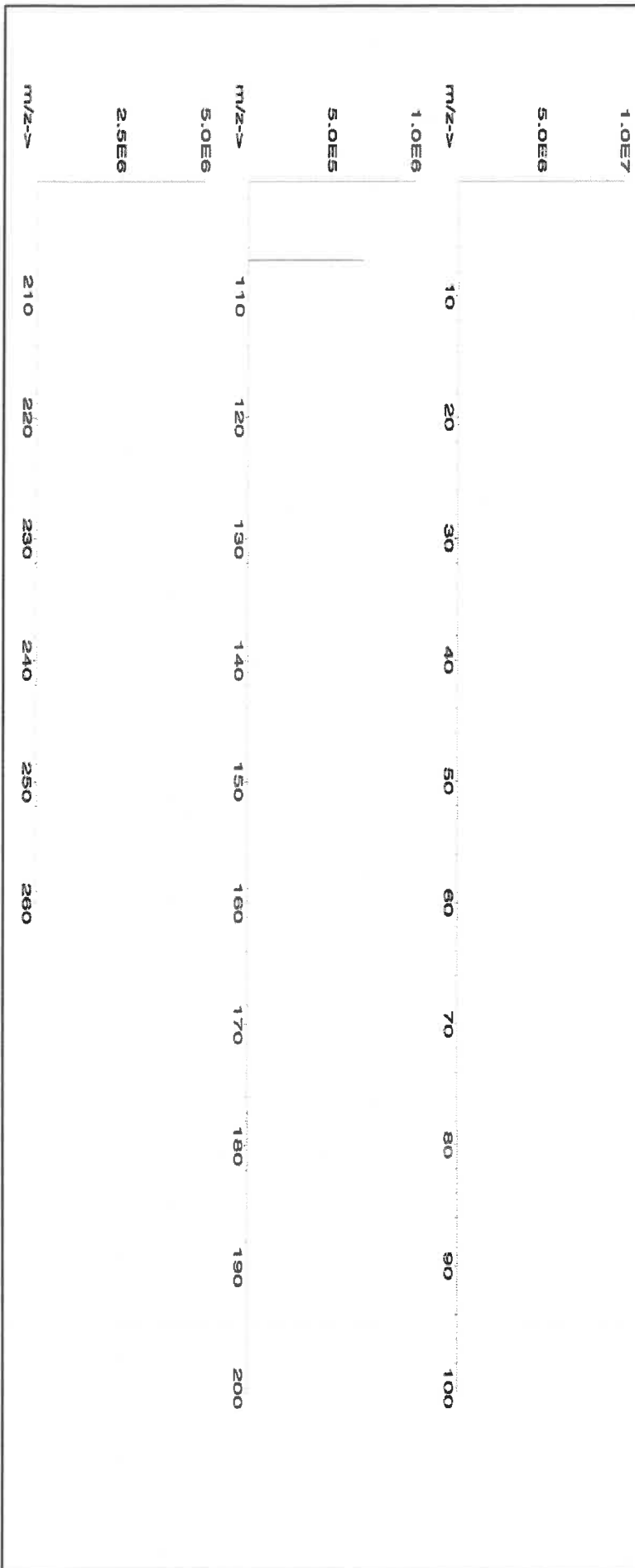
Weight shown below was diluted to (mL): 4000.30
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan
122823	
Reviewed By:	Pedro L. Rentas
122823	

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)

1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9996	0.10	63.7	6.27992	6.27998	1000.0
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[1] Spectrum No. 1 [14.044 sec]:58147.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

690

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	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 meghm 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 certified (+/-) 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

R: 03/16/23 MS473 MS474 MS475 MS476

Lot #

Part Number:

Solvent: 20510011 Nitric Acid

Lot Number:

2% 20.0 Nitric Acid

Description:

(mL)

Expiration Date:

082925

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

10000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

1000.12 0.058 Balance Uncertainty
Flask Uncertainty

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Renteria	082922

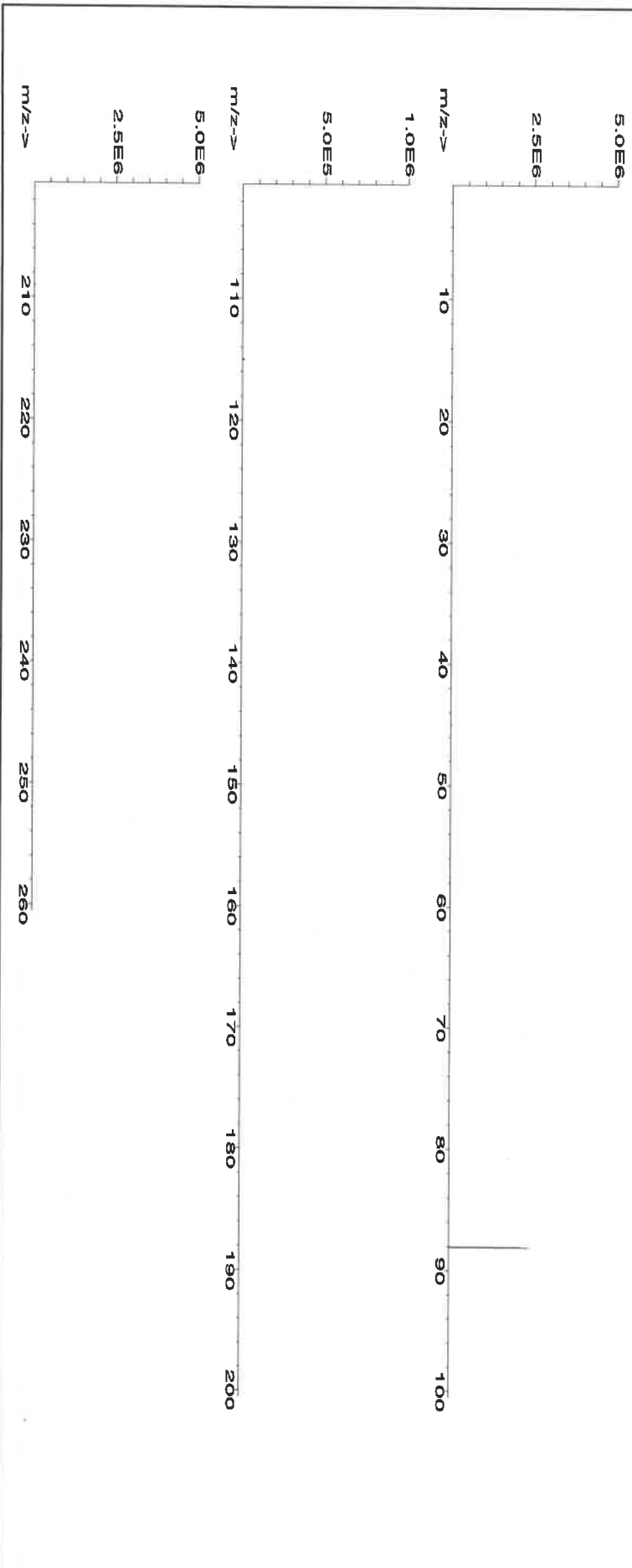
SDS Information

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-----	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Strontium nitrate (Sr) IN017 SR2022018A1 10000 99.997 0.10 41.2 24.2756 24.2758 10000.1 20.0 10042-76-9 NA or-rat >2000mg/kg 3153a

[1] Spectrum No. 1 [14.495 sec]: 56138.D# [Count] [Linear]





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:

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 certified (+/-) 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

R: 03/16/23 MS473 MS474 MS475 MS476

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Solvent: 20510011 Nitric Acid

Lot #

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

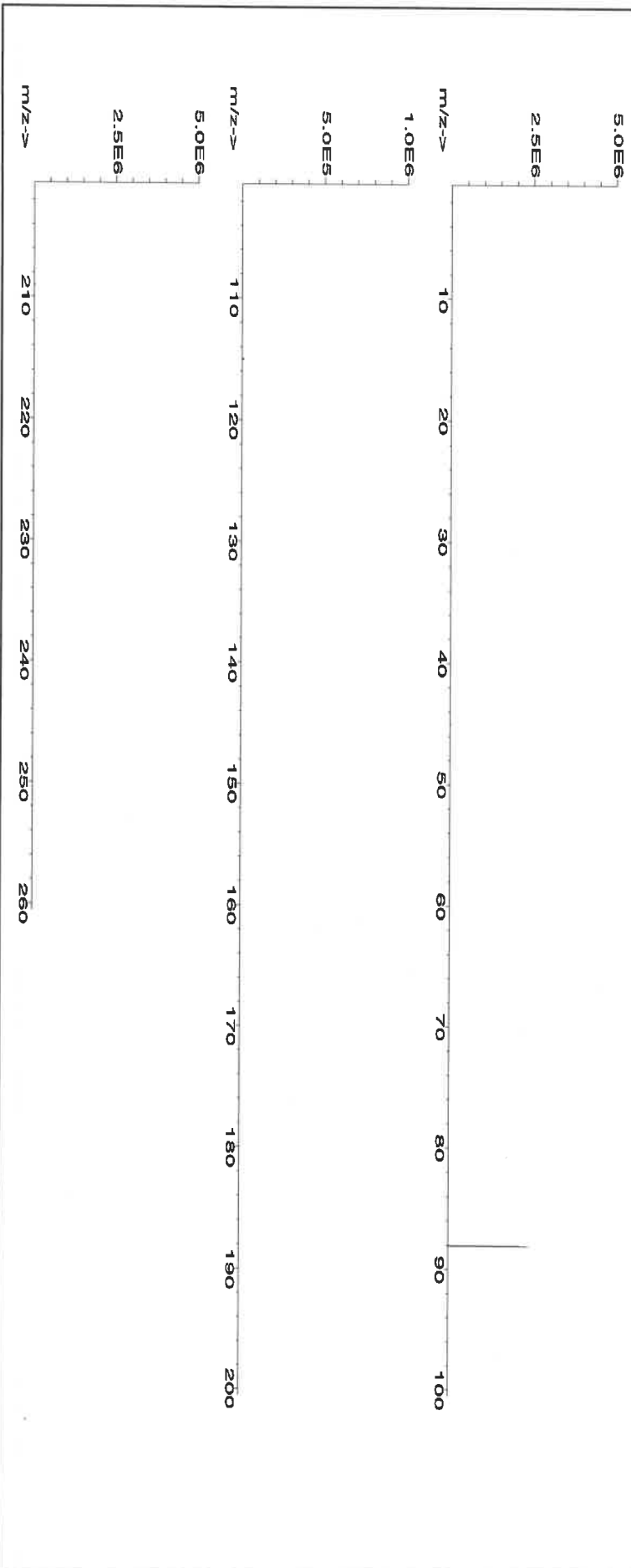
2% 20.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 1000.12 0.058 Balance Uncertainty
Flask Uncertainty

<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Renteria
	082922

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Strontium nitrate (Sr)	IN017	SF2022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	10000.1
							20.0	10042-76-9	NA
									or-rat >2000mg/kg 3153a

[1] Spectrum No. 1 [14.495 sec]: 56138.D# [Count] [Linear]





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:

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (TI)

Solvent: 24002546 Nitric Acid

Lot #

Aleah O'Brady
Formulated By: Aleah O'Brady 062724

Expiration Date:

2% 40.0 (mL) Nitric Acid

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

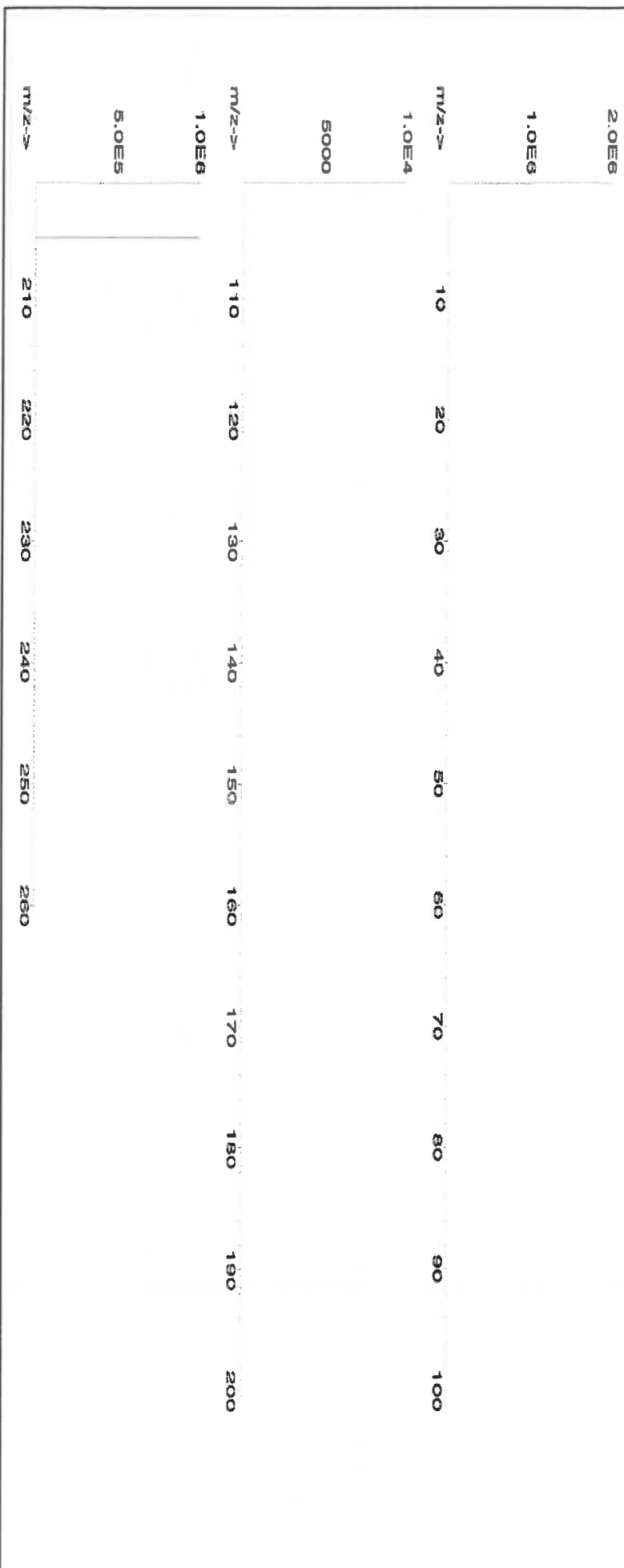
Pedro L. Renteria
Reviewed By: Pedro L. Renterias 062724

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Thallium nitrate (TI) 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

[1] Spectrum No.1 [14.044 sec]:57081.D# [Count] [Linear]





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	Pt	<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	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	Tm	<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	Sn	<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	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Se	<0.02	Ta	<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 certified (+/-) 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).



Certified Reference Material CRM

M6021



CERTIFIED WEIGHT REPORT:

Part Number: 57023
Lot Number: 062424
Description: Vanadium (V)

Lot # 24002546
Solvent: Nitric Acid

<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
Reviewed By:	<i>Pedro L. Rantas</i>
	Pedro L. Rantas

Expiration Date: 062427
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

2.0% 40.0 (mL) Nitric Acid

Volume shown below was diluted to (mL): 2000.3 0.06 Balance Uncertainty Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Ammonium metavanadate (V) 58123 021224 0.1000 200.0 0.084 1000 10000.3 10000.0 2.2 7803-55-6 0.05 mg/m3 0.1-1.5 mg/kg 3165

[1] Spectrum No.1 [34.243 sec]:58023.D# [Count] [Linear]

2.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
2.0E7	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E7	m/z-->	10	20	30	40	50	60	70	80	90	100
5.0E8	m/z-->	110	120	130	140	150	160	170	180	190	200
2.5E8	m/z-->	210	220	230	240	250	260				



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	Pt	<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	Pr	<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 certified (+/-) 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).

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : MH2GK2

Start Digest Date: 10/29/2024 **Time :** 15:00 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 10/29/2024 **Time :** 15:30 **Temp :** 95 °C

Pipette ID: ICP A

Digestion tube ID: M6054

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: 

pH Strip ID : N/A

Supervisor Signature: 

Hood ID : #3

Temp : 1. 95°C 2. N/A

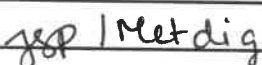
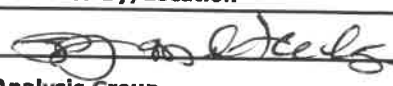
Block ID: 1. HOT BLOCK #3 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP82583
Spike Sol. B	1.00	MP82584
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	4.00	MP81119
1:4 HCl Solution	10.00	MP82128
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3 CELL #34 : 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/29/24 15:40	 Met dig	
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4553-01	MH2GK2	N/A	2.13	500	Brown	Yellow	Medium	N/A	N/A	1
P4553-02	MH2GK2D	N/A	2.09	500	Brown	Yellow	Medium	N/A	N/A	2
P4553-03	MH2GK2S	N/A	2.09	500	Brown	Yellow	Medium	N/A	MP82584	3
P4553-04	MH2GM1	N/A	2.26	500	Brown	Yellow	Medium	N/A	N/A	4
P4553-05	MH2GM2	N/A	2.00	500	Brown	Yellow	Medium	N/A	N/A	5
P4553-06	MH2GM3	N/A	2.02	500	Brown	Yellow	Medium	N/A	N/A	6
P4553-07	MH2GM4	N/A	2.16	500	Brown	Yellow	Medium	N/A	N/A	7
P4553-08	MH2GM5	N/A	2.02	500	Brown	Yellow	Medium	N/A	N/A	8
P4553-09	MH2GM6	N/A	2.21	500	Brown	Yellow	Medium	N/A	N/A	9
P4553-10	MH2GM7	N/A	2.16	500	Brown	Yellow	Medium	N/A	N/A	10
P4553-11	MH2GM8	N/A	2.01	500	Brown	Yellow	Medium	N/A	N/A	11
P4553-12	MH2GM9	N/A	2.08	500	Brown	Yellow	Medium	N/A	N/A	12
P4553-13	MH2GN0	N/A	2.08	500	Brown	Yellow	Medium	N/A	N/A	13
P4553-14	MH2GN1	N/A	2.34	500	Brown	Yellow	Medium	N/A	N/A	14
P4553-15	MH2GN2	N/A	2.26	500	Brown	Yellow	Medium	N/A	N/A	15
P4553-16	MH2GN3	N/A	2.29	500	Brown	Yellow	Medium	N/A	N/A	16
P4553-17	MH2GN4	N/A	2.11	500	Brown	Yellow	Medium	N/A	N/A	17
P4553-18	MH2GN5	N/A	2.15	500	Brown	Yellow	Medium	N/A	N/A	18
P4553-19	MH2GN6	N/A	2.21	500	Brown	Yellow	Medium	N/A	N/A	19
P4553-20	MH2GN7	N/A	2.10	500	Brown	Yellow	Medium	N/A	N/A	20
P4553-21	MH2GN8	N/A	2.17	500	Brown	Yellow	Medium	N/A	N/A	21
PB164509BL	PBS509	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	22
PB164509BS	LCS509	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP82583	23

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB133242

Review By	Sarabjit Jaswal	Review On	11/4/2024 1:01:43 AM
Supervise By	Mohan Bera	Supervise On	11/4/2024 1:02:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569
ICV Standard	MP82578
CCV Standard	MP82579
ICSA Standard	MP82580,MP82581
CRI Standard	
LCS Standard	MP82583
Chk Standard	MP82587,MP82586

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	10/31/24 19:34		Jaswal	OK
2	S00	S0	CAL1	10/31/24 20:06		Jaswal	OK
3	S02	S02	CAL3	10/31/24 20:13		Jaswal	OK
4	S03	S03	CAL4	10/31/24 20:16		Jaswal	OK
5	S04	S04	CAL5	10/31/24 20:19		Jaswal	OK
6	S05	S05	CAL6	10/31/24 20:22		Jaswal	OK
7	S06	S06	CAL7	10/31/24 20:25		Jaswal	OK
8	S07	S07	CAL8	10/31/24 20:27		Jaswal	OK
9	S08	S08	CAL9	10/31/24 20:42		Jaswal	OK
10	ICV001	ICV001	ICV	10/31/24 20:51	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	10/31/24 20:55		Jaswal	OK
12	ICSA001	ICSA001	ICSA	10/31/24 20:58		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	10/31/24 21:01		Jaswal	OK
14	CCV001	CCV001	CCV	10/31/24 21:08	Inst. paused for review	Jaswal	OK
15	CCB001	CCB001	CCB	10/31/24 21:15	Inst. paused for review	Jaswal	OK
16	PB164510BL	PBS510	MB	10/31/24 21:18		Jaswal	OK
17	PB164510BS	LCS510	LCS	10/31/24 21:21		Jaswal	OK
18	PB164509BL	PBS509	MB	10/31/24 21:24		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB133242

Review By	Sarabjit Jaswal	Review On	11/4/2024 1:01:43 AM
Supervise By	Mohan Bera	Supervise On	11/4/2024 1:02:34 AM
STD. NAME	STD REF.#		
ICAL Standard	MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569		
ICV Standard	MP82578		
CCV Standard	MP82579		
ICSA Standard	MP82580,MP82581		
CRI Standard			
LCS Standard	MP82583		
Chk Standard	MP82587,MP82586		

19	PB164509BS	LCS509	LCS	10/31/24 21:28		Jaswal	OK
20	P4552-01	MH2GK1	SAM	10/31/24 21:31	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
21	P4552-02	MH2GK1D	DUP	10/31/24 21:34	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
22	P4552-01L	MH2GK1L	SD	10/31/24 21:37	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
23	P4552-03	MH2GK1S	MS	10/31/24 21:40	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
24	P4553-01	MH2GK2	SAM	10/31/24 21:43	INT_STD 89Y(1) Fail	Jaswal	Dilution
25	P4553-02	MH2GK2D	DUP	10/31/24 21:46	INT_STD 89Y(1) Fail	Jaswal	Dilution
26	P4553-01L	MH2GK2L	SD	10/31/24 21:49	INT_STD 89Y(1) Fail	Jaswal	Dilution
27	P4553-03	MH2GK2S	MS	10/31/24 21:52	INT_STD 89Y(1) Fail	Jaswal	Dilution
28	P4552-08	MH2GK7	SAM	10/31/24 21:55		Jaswal	OK
29	P4552-09	MH2GK8	SAM	10/31/24 21:58	INT_STD 89Y(1) Fail	Jaswal	Dilution
30	P4552-10	MH2GK9	SAM	10/31/24 22:01		Jaswal	OK
31	P4552-11	MH2GL0	SAM	10/31/24 22:04	INT_STD 89Y(1) Fail	Jaswal	Dilution
32	P4552-12	MH2GL1	SAM	10/31/24 22:07		Jaswal	OK
33	P4552-13	MH2GL2	SAM	10/31/24 22:10		Jaswal	OK
34	P4552-14	MH2GL3	SAM	10/31/24 22:13	INT_STD 89Y(1) Fail	Jaswal	Dilution
35	P4552-15	MH2GL4	SAM	10/31/24 22:16		Jaswal	OK
36	P4552-16	MH2GL5	SAM	10/31/24 22:19		Jaswal	OK
37	P4552-17	MH2GL6	SAM	10/31/24 22:22		Jaswal	OK
38	P4552-18	MH2GL7	SAM	10/31/24 22:25		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB133242

Review By	Sarabjit Jaswal	Review On	11/4/2024 1:01:43 AM
Supervise By	Mohan Bera	Supervise On	11/4/2024 1:02:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569
ICV Standard	MP82578
CCV Standard	MP82579
ICSA Standard	MP82580,MP82581
CRI Standard	
LCS Standard	MP82583
Chk Standard	MP82587,MP82586

39	P4552-19	MH2GL8	SAM	10/31/24 22:28		Jaswal	OK
40	P4552-20	MH2GL9	SAM	10/31/24 22:31		Jaswal	OK
41	P4552-21	MH2GM0	SAM	10/31/24 22:34		Jaswal	OK
42	CCV002	CCV002	CCV	10/31/24 22:37		Jaswal	OK
43	CCB002	CCB002	CCB	10/31/24 22:40		Jaswal	OK
44	P4552-04	MH2GK3	SAM	10/31/24 22:43		Jaswal	OK
45	P4552-05	MH2GK4	SAM	10/31/24 22:46		Jaswal	OK
46	P4552-06	MH2GK5	SAM	10/31/24 22:49		Jaswal	OK
47	P4552-07	MH2GK6	SAM	10/31/24 22:53		Jaswal	OK
48	P4553-04	MH2GM1	SAM	10/31/24 22:56		Jaswal	OK
49	P4553-05	MH2GM2	SAM	10/31/24 22:59		Jaswal	OK
50	P4553-06	MH2GM3	SAM	10/31/24 23:02		Jaswal	OK
51	P4553-07	MH2GM4	SAM	10/31/24 23:05		Jaswal	OK
52	P4553-08	MH2GM5	SAM	10/31/24 23:08		Jaswal	OK
53	P4553-09	MH2GM6	SAM	10/31/24 23:11		Jaswal	OK
54	P4553-10	MH2GM7	SAM	10/31/24 23:14		Jaswal	OK
55	P4553-11	MH2GM8	SAM	10/31/24 23:17		Jaswal	OK
56	P4553-12	MH2GM9	SAM	10/31/24 23:20		Jaswal	OK
57	P4553-13	MH2GN0	SAM	10/31/24 23:23		Jaswal	OK
58	P4553-14	MH2GN1	SAM	10/31/24 23:26		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB133242

Review By	Sarabjit Jaswal	Review On	11/4/2024 1:01:43 AM
Supervise By	Mohan Bera	Supervise On	11/4/2024 1:02:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569
ICV Standard	MP82578
CCV Standard	MP82579
ICSA Standard	MP82580,MP82581
CRI Standard	
LCS Standard	MP82583
Chk Standard	MP82587,MP82586

59	P4553-15	MH2GN2	SAM	10/31/24 23:29		Jaswal	OK
60	P4553-16	MH2GN3	SAM	10/31/24 23:32		Jaswal	OK
61	P4553-17	MH2GN4	SAM	10/31/24 23:35		Jaswal	OK
62	P4553-18	MH2GN5	SAM	10/31/24 23:38		Jaswal	OK
63	P4553-19	MH2GN6	SAM	10/31/24 23:41		Jaswal	OK
64	P4553-20	MH2GN7	SAM	10/31/24 23:44		Jaswal	OK
65	P4553-21	MH2GN8	SAM	10/31/24 23:47		Jaswal	OK
66	P4552-01DL	MH2GK1	SAM	10/31/24 23:50	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
67	P4552-02DL	MH2GK1D	DUP	10/31/24 23:53	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
68	P4552-01LDL	MH2GK1L	SD	10/31/24 23:56	10X For INT_STD 89Y(1&2)	Jaswal	Confirms
69	P4552-03DL	MH2GK1S	MS	10/31/24 23:59	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
70	CCV003	CCV003	CCV	11/01/24 00:08		Jaswal	OK
71	CCB003	CCB003	CCB	11/01/24 00:13		Jaswal	OK
72	P4553-01DL	MH2GK2	SAM	11/01/24 00:16	2X For INT_STD 89Y(1)	Jaswal	Confirms
73	P4553-02DL	MH2GK2D	DUP	11/01/24 00:19	2X For INT_STD 89Y(1)	Jaswal	Confirms
74	P4553-01LDL	MH2GK2L	SD	11/01/24 00:22	10X For INT_STD 89Y(1)	Jaswal	Confirms
75	P4553-03DL	MH2GK2S	MS	11/01/24 00:25	2X For INT_STD 89Y(1)	Jaswal	Confirms
76	P4552-08DL	MH2GK7	SAM	11/01/24 00:28	Not Required	Jaswal	Not Ok
77	P4552-09DL	MH2GK8	SAM	11/01/24 00:31	2X For INT_STD 89Y(1)	Jaswal	Confirms

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB133242

Review By	Sarabjit Jaswal	Review On	11/4/2024 1:01:43 AM
Supervise By	Mohan Bera	Supervise On	11/4/2024 1:02:34 AM
STD. NAME	STD REF.#		
ICAL Standard	MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569		
ICV Standard	MP82578		
CCV Standard	MP82579		
ICSA Standard	MP82580,MP82581		
CRI Standard			
LCS Standard	MP82583		
Chk Standard	MP82587,MP82586		

78	P4552-11DL	MH2GL0	SAM	11/01/24 00:34	2X For INT_STD 89Y(1)	Jaswal	Confirms
79	P4552-13DL	MH2GL2	SAM	11/01/24 00:37	Not Required	Jaswal	Not Ok
80	P4552-14DL	MH2GL3	SAM	11/01/24 00:40	2X For INT_STD 89Y(1)	Jaswal	Confirms
81	CCV004	CCV004	CCV	11/01/24 00:58		Jaswal	OK
82	CCB004	CCB004	CCB	11/01/24 01:02		Jaswal	OK

ORIGIN: DBCA (303) 994-3853
MARK WOOD
PACIFIC WESTERN TECHNOLOGIES
3000 YOUNGFIELD ST

WHEATBRIDGE, CO 80215
UNITED STATES US

SHIP DATE: 24OCT24
ACTWGT: 20.00 LB
CAD: 252853097/INET4535
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TO SOHIL JODHANI

ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092

(908) 789-8900

REF: EN-SE-038-004-044-221

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10-25-24
7:25
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TRK# 7794 9320 6119

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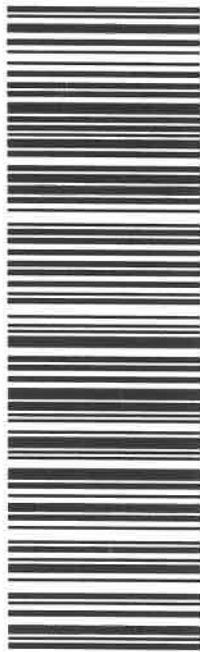
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Login Summary Report

Order ID :	P4553	Order Date :	10/25/2024 7:25:00 AM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	51715	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	10/25/2024 7:25:00 AM	EDD Type :	EPA CLP
Date Sign Off :	10/25/2024 4:17:10 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4553-01	MH2GK2	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-02	MH2GK2D	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-03	MH2GK2S	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-04	MH2GM1	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-05	MH2GM2	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-06	MH2GM3	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-07	MH2GM4	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-08	MH2GM5	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-09	MH2GM6	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024
P4553-10	MH2GM7	Solid	10/17/2024						
				Metals CLP MS FULL		SFAM_MS	10	11/08/2024	11/08/2024
				Percent Solids		Chemtech -SOP	10	11/08/2024	11/08/2024

P4553-11	MH2GM8	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-12	MH2GM9	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-13	MH2GN0	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-14	MH2GN1	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-15	MH2GN2	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-16	MH2GN3	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-17	MH2GN4	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-18	MH2GN5	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-19	MH2GN6	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-20	MH2GN7	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024
P4553-21	MH2GN8	Solid	10/17/2024		
				Metals CLP MS FULL	SFAM_MS 10 11/08/2024 11/08/2024
				Percent Solids	Chemtech -SOP 10 11/08/2024 11/08/2024

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB164509

Worklist ID : 184908

Department : Digestion

Date : 10-29-2024 13:55:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4553-01	MH2GK2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-02	MH2GK2D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-03	MH2GK2S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-04	MH2GM1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-05	MH2GM2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-06	MH2GM3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-07	MH2GM4	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-08	MH2GM5	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-09	MH2GM6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-10	MH2GM7	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-11	MH2GM8	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-12	MH2GM9	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-13	MH2GN0	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-14	MH2GN1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-15	MH2GN2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-16	MH2GN3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-17	MH2GN4	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-18	MH2GN5	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-19	MH2GN6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-20	MH2GN7	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS
P4553-21	MH2GN8	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/17/2024	SFAM_MS

Date/Time

10/29/24

12:00

Raw Sample Received by:

ASP Crest dis

Raw Sample Relinquished by:

SPCsm

Date/Time

10/29/24

14:45

Raw Sample Received by:

SPCsm

Raw Sample Relinquished by:

ASP Crest dis