FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	ALS Environmental		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45299	SDG NO.:	MF9M48
SDG NOs. TO FOLLOW	N/A		
MOD. REF. No.	N/A		
CONTRACT NO.	EPW09036		
SOW NO.	ISM01.3		

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
1. Inventory Sheet (DC-2)	1	2	✓	
2. SDG Narrative	3	5	✓	
3. Sample Log-In Sheet (DC-1)	6	7	✓	
4. Traffic Report/Chain of Custody Record(s)	8	10	✓	
5. Cover Page	11	11	✓	
Inorganic Analysis				
6. Data Sheet (Form I-IN)	12	51	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	52	56	✓	
8. Blanks (Form III-IN)	57	58	✓	
9. ICP-AES Interference Check Sample(Form IVA-IN)	59	59	✓	
10. ICP-MS Interference Check Sample(Form IVB-IN)	60	60	✓	
11. Matrix Spike Sample Recovery(Form VA-IN)	61	62	✓	
12. Post-Digestion Spike Sample Recovery(Form VB-IN)	63	64	✓	
13. Duplicates (Form VI-IN)	65	66	✓	
14. Laboratory Control Sample (Form VII-IN)	67	68	✓	
15. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	69	70	✓	
16. Method Detection Limit (Annually) (Form IX-IN)	71	73	✓	
17. ICP-AES Interelement Correction Factors (Quarterly) Form XA-IN)	74	74	✓	
18. ICP-AES Interelement Correction Factors (Annually) Form XB-IN)	75	76	✓	
19. Internal Standard Association (Form X1-IN)	77	77	✓	
20. Preparation Log (Form XII-IN)	78	80	✓	
21. Analysis Run Log (Form XIII-IN)	81	86	✓	

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FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
22. ICP-MS Tune (Form XIV-IN)	87	87	✓	
23. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	88	91	✓	
24. Initial Calibration (Form XVI - IN)	92	99	✓	
25. ICP AES Raw Data	100	180	✓	
26. ICP-MS Raw Data	181	289	✓	
27. Mercury Raw Dta	290	294	✓	
28. Cyanide Raw Data	n/a		✓	
29. Preparation Logs Raw Data	295	297	✓	
30. Percent Solids Determination Log	298	298	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	299	300	✓	
Sample Tags	301	301	✓	
Sample Log-In Sheet (Lab)	NA		✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Communication Logs	NA		✓	
ALS SDG TR Cover Sheet	302	303	✓	
			✓	
33. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
ALS CoC	304	312	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	313	336	✓	
Analysis Records	337	413	✓	
PE Instructions	n/a			
Description	NA		✓	
35. Other Records (describe or list)				
Communication Logs	NA		✓	
E-mail Communications	n/a		✓	
			✓	

36. Comments: n/a

Completed by: (CLP Lab) Desiree Hill (Signature) | Desiree Hill / Doc. Ctrl. (Print Name & Title) | 6/24/15 (Date)

Audited By: (USEPA) (Signature) | (Print Name & Title) | (Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW09036

Case: 45299

SDG: MF9M48

WO No(s): 1595632

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C

04/24/2015 DH

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desireé Hill
Document Control Officer

Date: 04/24/2015

SDG Narrative

Case:	45299	Contract #:	EPW-09-036
SDG:	MF9M48	ALS Set ID #:	1515632

General Information: The twenty samples in this SDG were analyzed by methodologies contained in ISM01.3. All concentration, analytical, and method qualifiers are defined in the SOW.

Target Analytes: Target analytes for this SDG are aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

Holding Times: All samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration: All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Interference Check Sample Analysis: Results for the interference check samples met method acceptance criteria.

Preparation Blanks: The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis: Results for the analysis of the LCSs met method acceptance criteria.

Matrix Spike Analysis: All matrix spike recoveries met method acceptance criteria with the exceptions of manganese and antimony.

Matrix Duplicate Analysis: All matrix duplicate results met method acceptance criteria.

Serial Dilution: All serial dilution results met method acceptance criteria with the exception of zinc.

Miscellaneous Comments: All calibration data is linear, please see raw data.

Example Equations:

Method 3050B: $$C \times \frac{Vf}{W \times S} \times DF \div 1000 = Concentration\ (mg/Kg)$$

Method 7471B: $$C \times \frac{1}{W \times S} \times DF \times 0.1 = Concentration\ (mg/Kg)$$

Where,

C = Instrument value in µg/L (The average of all replicate integrations).
Vf = Final digestion volume (mL)
W = Initial digestion Weight (g)
DF = Dilution Factor
S = % Solids/100

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: ALS Environmental	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/04/2015
Received By (Signature): [signature]	
Case Number: 45299	Sample Delivery Group No.: MF9M48 — Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s): Present/Absent* — Intact/Broken*
2. Custody Seal Nos.: N/A / 1
3. Traffic Report/ Chain-of Custody Records or Packing Lists: Present/Absent*
4. Airbill: Airbill/Sticker Present/Absent*
5. Airbill No.: 773749475017 / N/A
6. Sample Tags: Present/Absent* — Sample Tag Numbers: Listed/Not Listed on Chain-of-Custody
7. Sample Condition: Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: Present/Absent*
9. Cooler Temperature: 2
10. Does information on TR/COCs and sample tags agree?: Yes/No*
11. Date Received at Laboratory: 06/04/2015
12. Time Received: 09:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MF9M48	N/A	N/A	1515632001,002,003	TM/Hg, Soil ms/msD
2	49			004	
3	50			005	
4	56			010	
5	57			011	
6	58			012	
7	59			013	
8	60			014	
9	61			015	
10	62			016	
11	65			019	
12	66			020	
13	67			021	
14	68			022	
15					
16					
17					
18					
19					
20					
21					
22					

Sample Transfer	
Fraction: TM/Hg	Fraction:
Area #: R-33-1	Area #:
By: [signature]	By:
On: 06/04/2015	On:

[signature] 06/04/2015

[signature] 06/04/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name ALS Environmental	Page 1 of 1
Received By (Print Name) Thomas Carlson	Log-In Date 06/04/2015
Received By (Signature) [signature]	
Case Number 45299	Sample Delivery Group No. MF9M48 — Mod. Ref. No. N/A

Remarks:

1. Custody Seal (s) Present/Absent* Intact/Broken*
2. Custody Seal Nos. N/A / 1
3. Traffic Report/ Chain-of Custody Records or Packing Lists Present/Absent*
4. Airbill Airbill/Sticker Present/Absent*
5. Airbill No. 7737492039 / N/A
6. Sample Tags Present/Absent* — Sample Tag Numbers Listed/Not Listed on Chain-of-Custody
7. Sample Condition Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle Present/Absent*
9. Cooler Temperature 2
10. Does information on TR/COCs and sample tags agree? Yes/No*
11. Date Received at Laboratory 06/04/2015
12. Time Received 09:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MF9M51	N/A	N/A	1515632 006	TM/Hg SOil
2	52			007	
3	54			008	
4	55			009	
5	63			017	
6	64			018	
7	69				
8	70				
9	71				
10	72				
11	73				
12	74				
13	75				
14	76				
15	77				
16	78				
17	79				
18					
19					
20					
21					
22					

Sample Transfer

Fraction TM/Hg	Fraction
Area # R-33-1	Area #
By [signature]	By
On 06/04/2015	On

[signature] 06/04/2015

* Contact SMO and attach record of resolution

Reviewed By Roxanne Olson	Logbook No. Not Applicable
Date 6/5/15	Logbook Page No. Not Applicable

1515632

USEPA CLP COC (LAB COPY)

DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749475817

CHAIN OF CUSTODY RECORD

Case #: 45299 MF9M48
Cooler #:

No: 6-060315-170849-0091

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-021-001-00-51	MF9M48	Soil/ START	Composite	TM + Hg(21)	1557 (Ice) (1)	021	06/03/2015 07:55	Good
WO-021-003-00-51	MF9M49	Soil/ START	Composite	TM + Hg(21)	1562 (Ice) (1)	021	06/03/2015 08:05	
WO-021-003-00-52	MF9M50	Soil/ START	Composite	TM + Hg(21)	1567 (Ice) (1)	021	06/03/2015 08:10	
WO-021-001-06-51	MF9M56	Soil/ START	Composite	TM + Hg(21)	1596 (Ice) (1)	021	06/03/2015 09:15	
WO-021-001-12-51	MF9M57	Soil/ START	Composite	TM + Hg(21)	1601 (Ice) (1)	021	06/03/2015 09:20	
WO-021-001-24-51	MF9M58	Soil/ START	Composite	TM + Hg(21)	1606 (Ice) (1)	021	06/03/2015 09:25	
WO-021-006-00-51	MF9M59	Soil/ START	Composite	TM + Hg(21)	1611 (Ice) (1)	021	06/03/2015 09:30	
WO-021-003-06-51	MF9M60	Soil/ START	Composite	TM + Hg(21)	1616 (Ice) (1)	021	06/03/2015 09:45	
WO-021-003-12-51	MF9M61	Soil/ START	Composite	TM + Hg(21)	1621 (Ice) (1)	021	06/03/2015 09:50	
WO-021-003-24-51	MF9M62	Soil/ START	Composite	TM + Hg(21)	1626 (Ice) (1)	021	06/03/2015 09:55	

Sample(s) to be used for Lab QC: WO-021-001-00-51 Tag 1557, WO-021-005-24-51 Tag 1641	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TM + Hg=CLP TM + Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample Receipt	FedEx	06/04/2015 09:15	DATAC	06/04/2015 09:15	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749203043

CHAIN OF CUSTODY RECORD
Case #: ~~45316~~ 45299 06/04/2015
Cooler #:

No: 6-060315-193715-0100
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-021-004-00-51	MF9M51	Soil/ START	Composite	TM + Hg(21)	1572 (Ice) (1)	021	06/03/2015 08:25	Good
WO-021-004-00-52	MF9M52	Soil/ START	Composite	TM + Hg(21)	1577 (Ice) (1)	021	06/03/2015 08:30	
WO-021-005-00-51	MF9M54	Soil/ START	Composite	TM + Hg(21)	1586 (Ice) (1)	021	06/03/2015 08:45	
WO-021-007-00-51	MF9M55	Soil/ START	Composite	TM + Hg(21)	1591 (Ice) (1)	021	06/03/2015 09:00	
WO-021-005-06-51	MF9M63	Soil/ START	Composite	TM + Hg(21)	1631 (Ice) (1)	021	06/03/2015 10:20	
WO-021-005-12-51	MF9M64	Soil/ START	Composite	TM + Hg(21)	1636 (Ice) (1)	021	06/03/2015 10:25	
WO-021-004-06-51	MF9M69	Soil/ START	Composite	TM + Hg(21)	1661 (Ice) (1)	021	06/03/2015 11:20	
WO-021-004-12-51	MF9M70	Soil/ START	Composite	TM + Hg(21)	1666 (Ice) (1)	021	06/03/2015 11:25	
WO-021-004-24-51	MF9M71	Soil/ START	Composite	TM + Hg(21)	1671 (Ice) (1)	021	06/03/2015 11:30	
WO-021-007-06-51	MF9M72	Soil/ START	Composite	TM + Hg(21)	1676 (Ice) (1)	021	06/03/2015 11:40	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TM + Hg=CLP TM + Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
n/sample	Weston	6/3/15 2100	Fedex	6/3/15 2100	
sample receipt	FedEx	06/04/2015 09:13	DATAC	06/04/2015 09:15	Good

USEPA CLP COC (LAB COPY)

DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749475817

CHAIN OF CUSTODY RECORD

Case #: 45299 MF9M45
Cooler #:

No: 6-060315-170849-0091

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-021-005-24-51	MF9M65	Soil/ START	Composite	TM + Hg(21)	1641 (Ice) (1)	021	06/03/2015 10:30	Good
WO-021-006-06-51	MF9M66	Soil/ START	Composite	TM + Hg(21)	1646 (Ice) (1)	021	06/03/2015 11:05	
WO-021-006-12-51	MF9M67	Soil/ START	Composite	TM + Hg(21)	1651 (Ice) (1)	021	06/03/2015 11:15	
WO-021-006-24-51	MF9M68	Soil/ START	Composite	TM + Hg(21)	1656 (Ice) (1)	021	06/03/2015 11:15	Slow Rand Sample

Sample(s) to be used for Lab QC: WO-021-005-24-51 Tag 1641	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TM + Hg=CLP TM + Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/3/15 @ 2100	FedEx	6/3/15 @ 2100	
Sample receipt	FedEx	06/04/2015 09:15	[signature] DATAC	06/04/2015 09:15	Good

USEPA - CLP
COVER PAGE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

SOW No.: ISM01.3

EPA Sample No.	Lab Sample ID
MF9M48	1515632001
MF9M48D	1515632003
MF9M48S	1515632002
MF9M49	1515632004
MF9M50	1515632005
MF9M51	1515632006
MF9M52	1515632007
MF9M54	1515632008
MF9M55	1515632009
MF9M56	1515632010
MF9M57	1515632011
MF9M58	1515632012
MF9M59	1515632013
MF9M60	1515632014
MF9M61	1515632015
MF9M62	1515632016
MF9M63	1515632017
MF9M64	1515632018
MF9M65	1515632019
MF9M66	1515632020
MF9M67	1515632021
MF9M68	1515632022

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No)	Yes	Yes
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	Yes	No
If yes - were raw data generated before application of background corrections?	(Yes/No)	No	

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

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 above. Release of the data contained in this hardcopy Data Package 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: Neil Edwards

Date: 06/24/2015 Title: Chemist

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M48

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632001

% Solids: 82.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3420			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1110			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6260			P
7439-92-1	Lead				
7439-95-4	Magnesium	502			P
7439-96-5	Manganese	127		N	P
7439-97-6	Mercury	0.0070	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	718			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	20.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M48

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632001

% Solids: 82.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.070	J	DN	MS
7440-38-2	Arsenic	1.8		D	MS
7440-39-3	Barium	33.8		D	MS
7440-41-7	Beryllium	0.32	J	D	MS
7440-43-9	Cadmium	0.065	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	9.6		D	MS
7440-48-4	Cobalt	1.8		D	MS
7440-50-8	Copper	4.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	9.0		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	5.1		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.029	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.059	J	D	MS
7440-62-2	Vanadium	11.7		D	MS
7440-66-6	Zinc	11.0		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M49

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632004

% Solids: 79.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3160			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1300			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5940			P
7439-92-1	Lead				
7439-95-4	Magnesium	597			P
7439-96-5	Manganese	103		N	P
7439-97-6	Mercury	0.0077	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	668			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	43.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M49

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632004

% Solids: 79.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.033	J	DN	MS
7440-38-2	Arsenic	1.6		D	MS
7440-39-3	Barium	29.6		D	MS
7440-41-7	Beryllium	0.31	J	D	MS
7440-43-9	Cadmium	0.044	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	9.4		D	MS
7440-48-4	Cobalt	1.7		D	MS
7440-50-8	Copper	4.3		D	MS
7439-89-6	Iron				
7439-92-1	Lead	8.2		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	5.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.26	J	D	MS
7440-22-4	Silver	0.017	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.048	J	D	MS
7440-62-2	Vanadium	10.6		D	MS
7440-66-6	Zinc	13.1		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M50

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632005

% Solids: 76.3 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4330			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	3270			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	10200			P
7439-92-1	Lead				
7439-95-4	Magnesium	957			P
7439-96-5	Manganese	129		N	P
7439-97-6	Mercury	0.0060	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	932			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	50.4	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M50

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632005

% Solids: 76.3 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.041	J	DN	MS
7440-38-2	Arsenic	3.0		D	MS
7440-39-3	Barium	40.3		D	MS
7440-41-7	Beryllium	0.58		D	MS
7440-43-9	Cadmium	0.034	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	14.1		D	MS
7440-48-4	Cobalt	3.3		D	MS
7440-50-8	Copper	5.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	9.6		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	13.3		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.3	U	D	MS
7440-22-4	Silver	0.022	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.063	J	D	MS
7440-62-2	Vanadium	16.3		D	MS
7440-66-6	Zinc	16.8		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M51

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632006

% Solids: 79.8 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3920			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1860			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5360			P
7439-92-1	Lead				
7439-95-4	Magnesium	614			P
7439-96-5	Manganese	200		N	P
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	713			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	17.4	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M51

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632006

% Solids: 79.8 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.13	J	DN	MS
7440-38-2	Arsenic	1.5		D	MS
7440-39-3	Barium	57.3		D	MS
7440-41-7	Beryllium	0.32	J	D	MS
7440-43-9	Cadmium	0.17	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	9.6		D	MS
7440-48-4	Cobalt	2.0		D	MS
7440-50-8	Copper	7.6		D	MS
7439-89-6	Iron				
7439-92-1	Lead	50.7		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	4.7		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.027	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.066	J	D	MS
7440-62-2	Vanadium	12.4		D	MS
7440-66-6	Zinc	37.4		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M52

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632007

% Solids: 80.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3900			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	2110			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6110			P
7439-92-1	Lead				
7439-95-4	Magnesium	661			P
7439-96-5	Manganese	218		N	P
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	707			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	17.5	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M52

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632007

% Solids: 80.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.080	J	DN	MS
7440-38-2	Arsenic	1.6		D	MS
7440-39-3	Barium	50.4		D	MS
7440-41-7	Beryllium	0.30	J	D	MS
7440-43-9	Cadmium	0.20	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	8.7		D	MS
7440-48-4	Cobalt	1.7		D	MS
7440-50-8	Copper	7.4		D	MS
7439-89-6	Iron				
7439-92-1	Lead	30.3		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	4.3		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.7	U	D	MS
7440-22-4	Silver	0.025	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.060	J	D	MS
7440-62-2	Vanadium	11.3		D	MS
7440-66-6	Zinc	48.0		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M54

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632008

% Solids: 79.6 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3980			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1610			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5700			P
7439-92-1	Lead				
7439-95-4	Magnesium	621			P
7439-96-5	Manganese	162		N	P
7439-97-6	Mercury	0.013	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	740			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	16.9	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M54

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632008

% Solids: 79.6 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.14	J	DN	MS
7440-38-2	Arsenic	1.7		D	MS
7440-39-3	Barium	42.4		D	MS
7440-41-7	Beryllium	0.34	J	D	MS
7440-43-9	Cadmium	0.13	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	10.8		D	MS
7440-48-4	Cobalt	1.7		D	MS
7440-50-8	Copper	5.4		D	MS
7439-89-6	Iron				
7439-92-1	Lead	14.1		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	5.0		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.32	J	D	MS
7440-22-4	Silver	0.020	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.059	J	D	MS
7440-62-2	Vanadium	13.2		D	MS
7440-66-6	Zinc	26.9		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M55

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632009

% Solids: 77.6 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4030			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1880			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6250			P
7439-92-1	Lead				
7439-95-4	Magnesium	669			P
7439-96-5	Manganese	156		N	P
7439-97-6	Mercury	0.0091	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	686			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	53.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M55

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632009

% Solids: 77.6 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.046	J	DN	MS
7440-38-2	Arsenic	1.8		D	MS
7440-39-3	Barium	37.6		D	MS
7440-41-7	Beryllium	0.27	J	D	MS
7440-43-9	Cadmium	0.072	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	8.9		D	MS
7440-48-4	Cobalt	1.9		D	MS
7440-50-8	Copper	4.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	10.4		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	4.6		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.39	J	D	MS
7440-22-4	Silver	0.020	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.055	J	D	MS
7440-62-2	Vanadium	11.6		D	MS
7440-66-6	Zinc	23.0		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M56

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632010

% Solids: 86.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4540			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	945			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6630			P
7439-92-1	Lead				
7439-95-4	Magnesium	641			P
7439-96-5	Manganese	69.6		N	P
7439-97-6	Mercury	0.0024	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	724			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	27.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M56

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632010

% Solids: 86.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.16	J	DN	MS
7440-38-2	Arsenic	1.6		D	MS
7440-39-3	Barium	31.5		D	MS
7440-41-7	Beryllium	0.38	J	D	MS
7440-43-9	Cadmium	0.037	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	10.6		D	MS
7440-48-4	Cobalt	1.6		D	MS
7440-50-8	Copper	3.8		D	MS
7439-89-6	Iron				
7439-92-1	Lead	4.3		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	5.6		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.3	U	D	MS
7440-22-4	Silver	0.027	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.089	J	D	MS
7440-62-2	Vanadium	12.6		D	MS
7440-66-6	Zinc	6.5		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9M57

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632011

% Solids: 86.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5140			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1500			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	8010			P
7439-92-1	Lead				
7439-95-4	Magnesium	973			P
7439-96-5	Manganese	72.1		N	P
7439-97-6	Mercury	0.0016	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	634			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	29.8	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9M57

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632011

% Solids: 86.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.079	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	40.1		D	MS
7440-41-7	Beryllium	0.42	J	D	MS
7440-43-9	Cadmium	0.0076	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	13.1		D	MS
7440-48-4	Cobalt	1.6		D	MS
7440-50-8	Copper	4.2		D	MS
7439-89-6	Iron				
7439-92-1	Lead	3.9		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	6.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.023	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.087	J	D	MS
7440-62-2	Vanadium	15.4		D	MS
7440-66-6	Zinc	6.8		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M58

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632012

% Solids: 85.9 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6630			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	922			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	20000			P
7439-92-1	Lead				
7439-95-4	Magnesium	743			P
7439-96-5	Manganese	1690		N	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium	711			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	48.8	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M58

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632012

% Solids: 85.9 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.061	J	DN	MS
7440-38-2	Arsenic	2.3		D	MS
7440-39-3	Barium	42.1		D	MS
7440-41-7	Beryllium	0.46		D	MS
7440-43-9	Cadmium	0.40	U	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	14.9		D	MS
7440-48-4	Cobalt	1.9		D	MS
7440-50-8	Copper	4.5		D	MS
7439-89-6	Iron				
7439-92-1	Lead	2.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	7.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.29	J	D	MS
7440-22-4	Silver	0.022	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.090	J	D	MS
7440-62-2	Vanadium	18.7		D	MS
7440-66-6	Zinc	6.4		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M59

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632013

% Solids: 81.5 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2640			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	4350			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4740			P
7439-92-1	Lead				
7439-95-4	Magnesium	1790			P
7439-96-5	Manganese	264		N	P
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	513			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	17.4	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M59

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632013

% Solids: 81.5 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.11	J	DN	MS
7440-38-2	Arsenic	2.0		D	MS
7440-39-3	Barium	43.9		D	MS
7440-41-7	Beryllium	0.24	J	D	MS
7440-43-9	Cadmium	0.20	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	7.2		D	MS
7440-48-4	Cobalt	1.8		D	MS
7440-50-8	Copper	5.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	21.6		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	3.9		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.8	U	D	MS
7440-22-4	Silver	0.034	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.052	J	D	MS
7440-62-2	Vanadium	9.6		D	MS
7440-66-6	Zinc	39.3		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M60

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632014

% Solids: 85.2 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3870			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1510			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	7160			P
7439-92-1	Lead				
7439-95-4	Magnesium	665			P
7439-96-5	Manganese	257		N	P
7439-97-6	Mercury	0.0080	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	659			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	35.6	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M60

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632014

% Solids: 85.2 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.053	J	DN	MS
7440-38-2	Arsenic	2.6		D	MS
7440-39-3	Barium	34.6		D	MS
7440-41-7	Beryllium	0.41	J	D	MS
7440-43-9	Cadmium	0.055	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	12.8		D	MS
7440-48-4	Cobalt	2.2		D	MS
7440-50-8	Copper	4.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	8.8		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	7.7		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.9	U	D	MS
7440-22-4	Silver	0.020	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.060	J	D	MS
7440-62-2	Vanadium	14.2		D	MS
7440-66-6	Zinc	11.7		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M61

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632015

% Solids: 87.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3610			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	826			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6210			P
7439-92-1	Lead				
7439-95-4	Magnesium	552			P
7439-96-5	Manganese	54.8		N	P
7439-97-6	Mercury	0.0036	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	537			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	35.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M61

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632015

% Solids: 87.0 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.046	J	DN	MS
7440-38-2	Arsenic	2.0		D	MS
7440-39-3	Barium	31.8		D	MS
7440-41-7	Beryllium	0.40	J	D	MS
7440-43-9	Cadmium	0.0098	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	12.4		D	MS
7440-48-4	Cobalt	1.8		D	MS
7440-50-8	Copper	4.3		D	MS
7439-89-6	Iron				
7439-92-1	Lead	4.7		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	6.3		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.6	U	D	MS
7440-22-4	Silver	0.015	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.056	J	D	MS
7440-62-2	Vanadium	13.5		D	MS
7440-66-6	Zinc	7.1		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M62

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632016

% Solids: 87.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5220			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	747			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	32000			P
7439-92-1	Lead				
7439-95-4	Magnesium	553			P
7439-96-5	Manganese	1880		N	P
7439-97-6	Mercury	0.0028	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	528			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	39.9	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M62

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632016

% Solids: 87.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.044	J	DN	MS
7440-38-2	Arsenic	7.9		D	MS
7440-39-3	Barium	65.0		D	MS
7440-41-7	Beryllium	0.79		D	MS
7440-43-9	Cadmium	0.0071	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	22.9		D	MS
7440-48-4	Cobalt	6.0		D	MS
7440-50-8	Copper	7.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	5.9		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	14.9		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.021	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.078	J	D	MS
7440-62-2	Vanadium	29.9		D	MS
7440-66-6	Zinc	9.2		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M63

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632017

% Solids: 85.1 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4330			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1310			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6010			P
7439-92-1	Lead				
7439-95-4	Magnesium	617			P
7439-96-5	Manganese	116		N	P
7439-97-6	Mercury	0.012	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	624			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	24.2	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M63

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632017

% Solids: 85.1 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.088	J	DN	MS
7440-38-2	Arsenic	2.3		D	MS
7440-39-3	Barium	459		D	MS
7440-41-7	Beryllium	0.81		D	MS
7440-43-9	Cadmium	0.34	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	15.5		D	MS
7440-48-4	Cobalt	61.2		D	MS
7440-50-8	Copper	5.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	8.9		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	32.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.47	J	D	MS
7440-22-4	Silver	0.017	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.19	J	D	MS
7440-62-2	Vanadium	27.3		D	MS
7440-66-6	Zinc	9.9		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M64

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632018

% Solids: 87.1 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4060			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	955			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5820			P
7439-92-1	Lead				
7439-95-4	Magnesium	550			P
7439-96-5	Manganese	102		N	P
7439-97-6	Mercury	0.0051	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	468	J		P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	27.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M64

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632018

% Solids: 87.1 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.15	J	DN	MS
7440-38-2	Arsenic	19.2		D	MS
7440-39-3	Barium	157		D	MS
7440-41-7	Beryllium	2.1		D	MS
7440-43-9	Cadmium	0.037	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	95.0		D	MS
7440-48-4	Cobalt	10.9		D	MS
7440-50-8	Copper	11.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	12.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	15.0		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.46	J	D	MS
7440-22-4	Silver	0.023	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.093	J	D	MS
7440-62-2	Vanadium	52.2		D	MS
7440-66-6	Zinc	8.6		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M65

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632019

% Solids: 86.5 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5210			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	888			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	9630			P
7439-92-1	Lead				
7439-95-4	Magnesium	632			P
7439-96-5	Manganese	118		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium	531			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	40.9	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M65

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632019

% Solids: 86.5 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.052	J	DN	MS
7440-38-2	Arsenic	2.7		D	MS
7440-39-3	Barium	120		D	MS
7440-41-7	Beryllium	0.48		D	MS
7440-43-9	Cadmium	0.0073	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	15.7		D	MS
7440-48-4	Cobalt	8.4		D	MS
7440-50-8	Copper	4.2		D	MS
7439-89-6	Iron				
7439-92-1	Lead	4.0		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	8.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.3	U	D	MS
7440-22-4	Silver	0.021	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.10	J	D	MS
7440-62-2	Vanadium	21.4		D	MS
7440-66-6	Zinc	7.0		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M66

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632020

% Solids: 83.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2910			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	2810			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4750			P
7439-92-1	Lead				
7439-95-4	Magnesium	1280			P
7439-96-5	Manganese	263		N	P
7439-97-6	Mercury	0.011	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	498			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	13.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M66

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632020

% Solids: 83.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.049	J	DN	MS
7440-38-2	Arsenic	1.0		D	MS
7440-39-3	Barium	36.0		D	MS
7440-41-7	Beryllium	0.24	J	D	MS
7440-43-9	Cadmium	0.12	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	7.3		D	MS
7440-48-4	Cobalt	1.3		D	MS
7440-50-8	Copper	3.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	9.9		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	3.5		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.6	U	D	MS
7440-22-4	Silver	0.018	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.051	J	D	MS
7440-62-2	Vanadium	9.4		D	MS
7440-66-6	Zinc	15.6		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M67

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632021

% Solids: 83.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4050			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1170			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5360			P
7439-92-1	Lead				
7439-95-4	Magnesium	680			P
7439-96-5	Manganese	147		N	P
7439-97-6	Mercury	0.0045	J		CV
7440-02-0	Nickel				
7440-09-7	Potassium	591			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	18.0	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M67

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632021

% Solids: 83.4 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.047	J	DN	MS
7440-38-2	Arsenic	1.4		D	MS
7440-39-3	Barium	45.8		D	MS
7440-41-7	Beryllium	0.29	J	D	MS
7440-43-9	Cadmium	0.060	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	8.7		D	MS
7440-48-4	Cobalt	2.1		D	MS
7440-50-8	Copper	3.9		D	MS
7439-89-6	Iron				
7439-92-1	Lead	8.8		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	4.3		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.5	U	D	MS
7440-22-4	Silver	0.023	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.059	J	D	MS
7440-62-2	Vanadium	12.6		D	MS
7440-66-6	Zinc	11.8		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M68

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632022

% Solids: 85.3 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3790			P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	699			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6140			P
7439-92-1	Lead				
7439-95-4	Magnesium	458	J		P
7439-96-5	Manganese	111		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium	498			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	22.9	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9M68

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil Lab Sample ID: 1515632022

% Solids: 85.3 Date Received: 06/04/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.033	J	DN	MS
7440-38-2	Arsenic	1.5		D	MS
7440-39-3	Barium	43.7		D	MS
7440-41-7	Beryllium	0.32	J	D	MS
7440-43-9	Cadmium	0.0066	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	11.8		D	MS
7440-48-4	Cobalt	1.5		D	MS
7440-50-8	Copper	3.8		D	MS
7439-89-6	Iron				
7439-92-1	Lead	4.0		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel	4.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.4	U	D	MS
7440-22-4	Silver	0.019	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.059	J	D	MS
7440-62-2	Vanadium	15.1		D	MS
7440-66-6	Zinc	6.8		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Initial Calibration Verification Source: EPA ICV-1 (0307)

Continuing Calibration Verification Source: 27549

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521	2700	107	250000	259000	103	242000	97	P
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	10026	10600	106	250000	250000	100	244000	98	P
Chromium									
Cobalt									
Copper									
Iron	5082	5410	106	250000	255000	102	245000	98	P
Lead									
Magnesium	6074	6230	103	250000	249000	100	244000	97	P
Manganese	499	526	105	25000	24700	99	23400	94	P
Mercury									
Nickel									
Potassium	10021	9830	98	250000	253000	101	246000	98	P
Selenium									
Silver									
Sodium	10097	10300	102	250000	253000	101	249000	100	P
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Initial Calibration Verification Source: EPA ICV1 (0307)

Continuing Calibration Verification Source: 28405

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony	199	179	90	2500	2530	101	2570	103	MS
Arsenic	200	192	96	2500	2410	96	2400	96	MS
Barium	99	98.0	99	2500	2500	100	2520	101	MS
Beryllium	99	99.5	100	2500	2530	101	2550	102	MS
Cadmium	99	97.1	98	2500	2420	97	2430	97	MS
Calcium									
Chromium	98	92.4	94	2500	2480	99	2490	99	MS
Cobalt	100	94.3	94	2500	2460	99	2450	98	MS
Copper	98	97.4	99	2500	2360	94	2370	95	MS
Iron									
Lead	200	189	94	2500	2550	102	2570	103	MS
Magnesium									
Manganese									
Mercury									
Nickel	101	98.7	98	2500	2420	97	2390	96	MS
Potassium									
Selenium	206	199	97	250	255	102	253	101	MS
Silver	100	98.1	98	250	259	103	259	104	MS
Sodium									
Thallium	206	193	94	2500	2570	103	2610	105	MS
Vanadium	100	92.2	92	2500	2570	103	2590	104	MS
Zinc	205	200	98	2500	2300	92	2290	92	MS
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 28405

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony				2500	2620	105			MS
Arsenic				2500	2420	97			MS
Barium				2500	2520	101			MS
Beryllium				2500	2570	103			MS
Cadmium				2500	2460	98			MS
Calcium									
Chromium				2500	2520	101			MS
Cobalt				2500	2480	99			MS
Copper				2500	2390	95			MS
Iron									
Lead				2500	2610	104			MS
Magnesium									
Manganese									
Mercury									
Nickel				2500	2400	96			MS
Potassium									
Selenium				250	256	102			MS
Silver				250	262	105			MS
Sodium									
Thallium				2500	2640	106			MS
Vanadium				2500	2610	104			MS
Zinc				2500	2300	92			MS
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: ALS 28388

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	4.0	4.2	106	5	5.6	112	5.6	113	CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Initial Calibration Verification Source:

Continuing Calibration Verification Source: ALS 28388

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				5	5.5	110			CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
3-IN
BLANKS

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Preparation Blank Matrix (soil/water/wipe/filter): Soil

Preparation Blank Concentration Units (ug/L, ug or mg/kg): mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200	U	200	U	200	U			20.0	U	P
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium	5000	U	5000	U	5000	U			8.3	J	P
Chromium											
Cobalt											
Copper											
Iron	100	U	100	U	100	U			10.0	U	P
Lead											
Magnesium	5000	U	5000	U	5000	U			500	U	P
Manganese	15.0	U	1.8	J	2.4	J			1.5	U	P
Mercury	-0.019	J	-0.018	J	-0.019	J	-0.047	J	-0.0028	J	CV
Nickel											
Potassium	5000	U	84.1	J	5000	U			7.9	J	P
Selenium											
Silver											
Sodium	34.1	J	36.5	J	37.8	J			3.8	J	P
Thallium											
Vanadium											
Zinc											
Cyanide											

USEPA - CLP
3-IN
BLANKS

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Preparation Blank Matrix (soil/water/wipe/filter): Soil

Preparation Blank Concentration Units (ug/L, ug or mg/kg): mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											
Antimony	0.50	J	1.1	J	1.0	J	1.1	J	0.17	J	MS
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U	MS
Barium	50.0	U	0.28	J	0.22	J	0.24	J	0.034	J	MS
Beryllium	5.0	U	0.39	J	0.32	J	0.31	J	0.051	J	MS
Cadmium	0.056	J	0.26	J	0.22	J	0.23	J	0.035	J	MS
Calcium											
Chromium	10.0	U	0.28	J	0.20	J	0.23	J	0.015	J	MS
Cobalt	0.039	J	0.28	J	0.21	J	0.23	J	0.032	J	MS
Copper	10.0	U	0.63	J	0.60	J	0.77	J	0.11	J	MS
Iron											
Lead	5.0	U	0.31	J	0.26	J	0.28	J	0.041	J	MS
Magnesium											
Manganese											
Mercury											
Nickel	5.0	U	0.26	J	0.22	J	0.23	J	0.033	J	MS
Potassium											
Selenium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U	MS
Silver	0.22	J	0.14	J	0.12	J	0.098	J	0.031	J	MS
Sodium											
Thallium	0.074	J	0.42	J	0.37	J	0.40	J	0.048	J	MS
Vanadium	25.0	U	0.30	J	0.19	J	0.25	J	0.029	J	MS
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	0.21	J	MS
Cyanide											

USEPA - CLP
4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-AES Instrument ID: ICP08 ICSA Source: EPA ICSA (1211)

ICSB Source: EPA ICSAB (1211/0710)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	254900	246800	263000	103	267000	108
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium	244500	234900	253000	104	257000	109
Chromium						
Cobalt						
Copper						
Iron	100700	99320	103000	103	105000	106
Lead						
Magnesium	255400	248000	259000	102	263000	106
Manganese	7	507	17.2	246	545	107
Nickel						
Potassium	0	0	63.2		34.8	
Selenium						
Silver						
Sodium	0	0	64.3		70.2	
Thallium						
Vanadium						
Zinc						

USEPA - CLP
4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 ICSA Source: EPA ICSA (0803)

ICSB Source: EPA ICSB (0803)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum						
Antimony	1.5	22	1.3	87	20.0	91
Arsenic	0.1	19	0.24	0	18.3	96
Barium	1.2	22	1.5	125	21.6	98
Beryllium	0	19	0.32		19.0	100
Cadmium	0.7	20	0.56	80	19.0	95
Calcium						
Chromium	21	40	18.7	89	37.7	94
Cobalt	1	20	1.3	133	19.9	99
Copper	8	25	7.5	93	25.3	101
Iron						
Lead	4	25	4.3	108	24.4	98
Magnesium						
Manganese						
Molybdenum						
Nickel	6	24	6.5	109	25.1	105
Potassium						
Selenium	0.3	19	-0.078	0	16.8	88
Silver	0	18	0.070		18.3	102
Sodium						
Thallium	0	21	0.068		20.3	97
Titanium						
Vanadium	0.5	19	-2.7	546	16.2	86
Zinc	11	29	11.2	102	27.5	95

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9M48S

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese	75-125	293		127		96.8	171	N	P
Mercury	75-125	0.63		0.0070	J	0.56	111		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									

Comments:

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9M48S

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	2.0		0.070	J	8.8	21	N	MS
Arsenic	75-125	4.9		1.8		3.5	88		MS
Barium	75-125	206		33.8		177	97		MS
Beryllium	75-125	4.6		0.32	J	4.4	97		MS
Cadmium	75-125	4.2		0.065	J	4.4	94		MS
Calcium									NR
Chromium	75-125	25.7		9.6		17.7	91		MS
Cobalt	75-125	41.9		1.8		44.2	91		MS
Copper	75-125	24.4		4.0		22.1	92		MS
Iron									NR
Lead		10.6		9.0		1.8	88		MS
Magnesium									NR
Manganese									NR
Mercury									
Nickel	75-125	46.2		5.1		44.2	93		MS
Potassium									NR
Selenium	75-125	8.0		2.2	U	8.8	90		MS
Silver	75-125	4.3		0.029	J	4.4	96		MS
Sodium									NR
Thallium	75-125	4.1		0.059	J	4.4	91		MS
Vanadium	75-125	54.6		11.7		44.2	97		MS
Zinc	75-125	50.6		11.0		44.2	90		MS
Cyanide									

Comments:

USEPA - CLP
5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9M48A

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		382		127		255	100		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP
5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9M48A

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		8.1		0.070	J	8.9	90		MS
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

MF9M48D

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3420		3980		15		P
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	484	1110		1130		1		P
Chromium								
Cobalt								
Copper								
Iron		6260		6200		1		P
Lead								
Magnesium	484	502		560		11		P
Manganese		127		127		0		P
Mercury		0.0070	J	0.0077	J	10		CV
Nickel								
Potassium	484	718		830		15		P
Selenium								
Silver								
Sodium		20.1	J	23.2	J	14		P
Thallium								
Vanadium								
Zinc								
Cyanide								

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

MF9M48D

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony		0.070	J	0.059	J	17		MS
Arsenic		1.8		1.7		3		MS
Barium		33.8		34.9		3		MS
Beryllium	0.088	0.32	J	0.31	J	3		MS
Cadmium		0.065	J	0.052	J	22		MS
Calcium								
Chromium		9.6		9.6		0		MS
Cobalt		1.8		1.8		0		MS
Copper		4.0		4.0		1		MS
Iron								
Lead		9.0		9.4		4		MS
Magnesium								
Manganese								
Mercury								
Nickel		5.1		5.1		0		MS
Potassium								
Selenium		2.2	U	2.2	U			MS
Silver		0.029	J	0.026	J	8		MS
Sodium								
Thallium		0.059	J	0.056	J	5		MS
Vanadium		11.7		12.0		2		MS
Zinc		11.0		12.0		8		MS
Cyanide								

USEPA - CLP
7-IN
LABORATORY CONTROL SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug) True	Found	%R
Aluminum	40.0	45.2	113
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium	1000	1070	107
Chromium			
Cobalt			
Copper			
Iron	20.0	23.9	119
Lead			
Magnesium	1000	1030	103
Manganese	3.0	3.1	105
Mercury			
Nickel			
Potassium	1000	982	98
Selenium			
Silver			
Sodium	1000	1040	104
Thallium			
Vanadium			
Zinc			
Cyanide			

USEPA - CLP
7-IN
LABORATORY CONTROL SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: _____ SDG No.: MF9M48

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug) True	Found	%R
Aluminum			
Antimony	2.0	1.9	96
Arsenic	1.0	0.91	91
Barium	10.0	9.4	94
Beryllium	1.0	0.99	99
Cadmium	1.0	0.94	94
Calcium			
Chromium	2.0	1.9	93
Cobalt	1.0	0.94	94
Copper	2.0	2.0	99
Iron			
Lead	1.0	0.95	95
Magnesium			
Manganese			
Mercury			
Nickel	1.0	1.0	100
Potassium			
Selenium	5.0	4.6	92
Silver	1.0	1.0	101
Sodium			
Thallium	1.0	0.94	94
Vanadium	5.0	5.0	99
Zinc	2.0	2.0	98
Cyanide			

USEPA - CLP
8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF9M48L

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	3420		3430		0		P
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	1110		1110	J	0		P
Chromium							
Cobalt							
Copper							
Iron	6260		6320		1		P
Lead							
Magnesium	502		499	J	1		P
Manganese	127		128		1		P
Nickel							
Potassium	718		731	J	2		P
Selenium							
Silver							
Sodium	20.1	J	31.5	J	57		P
Thallium							
Vanadium							
Zinc							

USEPA - CLP
8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF9M48L

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Matrix: Soil

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony	0.070	J	0.077	J	10		MS
Arsenic	1.8		2.0	J	16		MS
Barium	33.8		34.7		3		MS
Beryllium	0.32	J	0.37	J	17		MS
Cadmium	0.065	J	0.076	J	17		MS
Calcium							
Chromium	9.6		9.9		3		MS
Cobalt	1.8		1.9	J	4		MS
Copper	4.0		4.2	J	6		MS
Iron							
Lead	9.0		9.0		0		MS
Magnesium							
Manganese							
Nickel	5.1		5.2		3		MS
Potassium							
Selenium	2.2	U	11.1	U			MS
Silver	0.029	J	0.035	J	21		MS
Sodium							
Thallium	0.059	J	0.057	J	4		MS
Vanadium	11.7		12.1		3		MS
Zinc	11.0		13.0		18	E	MS

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument Type: CV Instrument ID: AACV02 Date: 01/15/2015

Preparation Method: 7471B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Mercury	253.65	0.0015
Nickel		
Potassium		
Selenium		
Silver		
Sodium		
Thallium		
Vanadium		
Zinc		
Cyanide		

Comments:

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument Type: P Instrument ID: ICP08 Date: 03/29/2015

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum	308.22	6.8
Antimony		
Arsenic		
Barium		
Beryllium		
Cadmium		
Calcium	317.93	2.1
Chromium		
Cobalt		
Copper		
Iron	259.84	3.9
Lead		
Magnesium	279.08	3.9
Manganese	257.61	0.093
Mercury		
Nickel		
Potassium	766.49	4.6
Selenium		
Silver		
Sodium	589.59	1.9
Thallium		
Vanadium		
Zinc		
Cyanide		

Comments:

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument Type: MS Instrument ID: ICPM02 Date: 05/22/2015

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum		
Antimony	121.00	0.015
Arsenic	75.00	0.073
Barium	137.00	0.013
Beryllium	9.00	0.0079
Cadmium	111.00	0.0053
Calcium		
Chromium	52.00	0.011
Cobalt	59.00	0.0030
Copper	63.00	0.029
Iron		
Lead	206,207,208	0.0049
Magnesium		
Manganese		
Mercury		
Nickel	60.00	0.016
Potassium		
Selenium	82.00	0.30
Silver	107.00	0.0025
Sodium		
Thallium	205.00	0.0059
Vanadium	51.00	0.017
Zinc	66.00	0.16
Cyanide		

Comments:

USEPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ba
Aluminum	308.22	0	0	0	0	0
Antimony	206.83	0	0	0.000034	0	0
Arsenic	189.04	0.000002	0	-0.000009	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0
Cadmium	214.44	-0.000003	0	0.000029	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0	0	0	0	0
Cobalt	228.62	0	0	0.000016	0	0.000208
Copper	327.40	0	0	0	0	0
Iron	259.84	0	0	0	0	0
Lead	220.35	0.000209	0	0.000053	0	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0	0.000064	0	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0.000048	0	0.000016	0	0
Silver	328.07	0	0	0	0	0
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0	-0.000015	0	0
Vanadium	292.40	0	0	0.000042	0	0
Zinc	206.20	0	0	0.000012	0	0

Comments:

USEPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Be	Co	Cr	Cu	Mn
Aluminum	308.22	0	0	0	0	0
Antimony	206.83	0	0	0.004584	0	0
Arsenic	189.04	0	0	0.000182	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0
Cadmium	214.44	0	0	0	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0.000349	0	0	0	0
Cobalt	228.62	0	0	0	0	0
Copper	327.40	0	0	0	0	0
Iron	259.84	0	0	0	0	0.002834
Lead	220.35	0	0.000210	0	0.000609	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0.000299	0	0	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0	0	0	0	0.000491
Silver	328.07	0	0	0	0	0.000122
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0.003624	0.000231	0	0.000867
Vanadium	292.40	0	0	0	0	0
Zinc	206.20	0	0	-0.000216	0	0

Comments:

USEPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Ni	Ti	Tl	V
Aluminum	308.22	0.007083	0	0	0	0.142985
Antimony	206.83	-0.002050	0	0	0	0
Arsenic	189.04	0.001151	0	0	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0.000244
Cadmium	214.44	0	0	0	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0.000511	0	0	0	0.000049
Cobalt	228.62	-0.000958	0.000179	0.002132	0	0
Copper	327.40	-0.000486	0	0	0	0
Iron	259.84	0	0	0	0	0
Lead	220.35	-0.000259	0.000210	0	0	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0	0	0.000479	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0	0	0	0	0
Silver	328.07	0.000189	0	0	0	0.000084
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0	0	0	0.002259
Vanadium	292.40	-0.001033	0	0.000987	0	0
Zinc	206.20	0.000258	0	0	0	0

Comments:

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Date: 06/22/2015 16:28:00

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Aluminum		
Antimony	Rh	Tb
Arsenic	Sc	Y
Barium	Rh	Tb
Beryllium	Li	Sc
Cadmium	Rh	Tb
Calcium		
Chromium	Sc	Y
Cobalt	Sc	Y
Copper	Sc	Y
Iron		
Lead	Tb	Bi
Magnesium		
Manganese		
Nickel	Sc	Y
Potassium		
Selenium	Sc	Y
Silver	Rh	Tb
Sodium		
Thallium	Tb	Bi
Vanadium	Sc	Y
Zinc	Sc	Y

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
PBS1	06/10/2015	1.00	100
LCS1	06/10/2015	1.00	100
MF9M48	06/10/2015	1.26	100
MF9M48D	06/10/2015	1.26	100
MF9M48S	06/10/2015	1.26	100
MF9M49	06/10/2015	1.07	100
MF9M50	06/10/2015	1.20	100
MF9M51	06/10/2015	1.12	100
MF9M52	06/10/2015	1.33	100
MF9M54	06/10/2015	1.30	100
MF9M55	06/10/2015	1.19	100
MF9M56	06/10/2015	1.01	100
MF9M57	06/10/2015	1.14	100
MF9M58	06/10/2015	1.14	100
MF9M59	06/10/2015	1.36	100
MF9M60	06/10/2015	1.30	100
MF9M61	06/10/2015	1.15	100
MF9M62	06/10/2015	1.24	100
MF9M63	06/10/2015	1.40	100
MF9M64	06/10/2015	1.17	100
MF9M65	06/10/2015	1.35	100
MF9M66	06/10/2015	1.34	100
MF9M67	06/10/2015	1.31	100
MF9M68	06/10/2015	1.28	100

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
PBS1	06/16/2015	1.00	100
LCS1	06/16/2015	1.00	100
MF9M48	06/16/2015	1.37	100
MF9M48D	06/16/2015	1.38	100
MF9M48S	06/16/2015	1.38	100
MF9M49	06/16/2015	1.48	100
MF9M50	06/16/2015	1.41	100
MF9M51	06/16/2015	1.42	100
MF9M52	06/16/2015	1.15	100
MF9M54	06/16/2015	1.20	100
MF9M55	06/16/2015	1.10	100
MF9M56	06/16/2015	1.25	100
MF9M57	06/16/2015	1.31	100
MF9M58	06/16/2015	1.46	100
MF9M59	06/16/2015	1.09	100
MF9M60	06/16/2015	1.02	100
MF9M61	06/16/2015	1.11	100
MF9M62	06/16/2015	1.30	100
MF9M63	06/16/2015	1.34	100
MF9M64	06/16/2015	1.44	100
MF9M65	06/16/2015	1.26	100
MF9M66	06/16/2015	1.17	100
MF9M67	06/16/2015	1.22	100
MF9M68	06/16/2015	1.24	100

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Preparation Method: 7471B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
S0	06/17/2015	0.50	100
S0.2	06/17/2015	0.50	100
S0.5	06/17/2015	0.50	100
S1.0	06/17/2015	0.50	100
S5.0	06/17/2015	0.50	100
S10	06/17/2015	0.50	100
ICB	06/17/2015	0.50	100
ICV	06/17/2015	0.50	100
CCB	06/17/2015	0.50	100
CCV	06/17/2015	0.50	100
PBS1	06/17/2015	0.50	100
MF9M48	06/17/2015	0.54	100
MF9M48D	06/17/2015	0.54	100
MF9M48S	06/17/2015	0.54	100
MF9M49	06/17/2015	0.51	100
MF9M50	06/17/2015	0.58	100
MF9M51	06/17/2015	0.56	100
MF9M52	06/17/2015	0.55	100
MF9M54	06/17/2015	0.52	100
MF9M55	06/17/2015	0.51	100
MF9M56	06/17/2015	0.53	100
MF9M57	06/17/2015	0.55	100
MF9M58	06/17/2015	0.58	100
MF9M59	06/17/2015	0.55	100
MF9M60	06/17/2015	0.56	100
MF9M61	06/17/2015	0.54	100
MF9M62	06/17/2015	0.59	100
MF9M63	06/17/2015	0.55	100
MF9M64	06/17/2015	0.53	100
MF9M65	06/17/2015	0.54	100
MF9M66	06/17/2015	0.58	100
MF9M67	06/17/2015	0.53	100
MF9M68	06/17/2015	0.54	100

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: AACV02 Analysis Method: CV

Start Date: 06/18/2015 End Date: 06/18/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
S0	1.0	1225															X											
S0.2	1.0	1226															X											
S0.5	1.0	1227															X											
S1.0	1.0	1228															X											
S5.0	1.0	1229															X											
S10	1.0	1230															X											
ICV1	1.0	1231															X											
ICB1	1.0	1233															X											
CCV1	1.0	1234															X											
CCB1	1.0	1235															X											
PBS1	1.0	1236															X											
MF9M48	1.0	1237															X											
MF9M48D	1.0	1238															X											
MF9M48S	1.0	1239															X											
MF9M49	1.0	1241															X											
MF9M50	1.0	1242															X											
MF9M51	1.0	1243															X											
MF9M52	1.0	1244															X											
MF9M54	1.0	1245															X											
MF9M55	1.0	1246															X											
MF9M56	1.0	1247															X											
MF9M57	1.0	1248															X											
MF9M58	1.0	1250															X											
CCV2	1.0	1251															X											
CCB2	1.0	1252															X											
MF9M59	1.0	1253															X											
MF9M60	1.0	1254															X											
MF9M61	1.0	1255															X											
MF9M62	1.0	1256															X											
MF9M63	1.0	1257															X											
MF9M64	1.0	1259															X											
MF9M65	1.0	1300															X											

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: AACV02 Analysis Method: CV

Start Date: 06/18/2015 End Date: 06/18/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
MF9M66	1.0	1301															X											
MF9M67	1.0	1302															X											
MF9M68	1.0	1303															X											
CCV3	1.0	1304															X											
CCB3	1.0	1305															X											

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
TUNE	1.0	1628																										
S0	1.0	2040		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S	1.0	2045		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S10	1.0	2049		X	X		X	X		X	X	X		X				X		X	X		X	X	X			
S50	1.0	2053		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S200	1.0	2058		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S500	1.0	2102		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S2500	1.0	2106		X	X	X	X	X		X	X	X		X				X					X	X	X			
S5000	1.0	2111		X	X	X	X	X		X	X	X		X				X					X	X	X			
S50000	1.0	2115																										
S100000	1.0	2119																										
ICV1	1.0	2124		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICB1	1.0	2128		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICSA1	1.0	2132		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICSAB1	1.0	2137		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCV1	1.0	2141		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB1	1.0	2145		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
PBS1	5.0	2150		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
LCS1	5.0	2154		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M48	5.0	2158		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M48S	5.0	2203		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M48D	5.0	2207		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M48L	25	2211		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M48A	5.0	2216		X																								
MF9M49	5.0	2220		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M50	5.0	2225		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M51	5.0	2229		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M52	5.0	2233		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M54	5.0	2237		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M55	5.0	2242		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCV2	1.0	2246		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB2	1.0	2251		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
MF9M56	5.0	2255		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M57	5.0	2259		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M58	5.0	2304		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M59	5.0	2308		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M60	5.0	2312		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M61	5.0	2317		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M62	5.0	2321		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M63	5.0	2325		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M64	5.0	2330		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M65	5.0	2334		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M66	5.0	2338		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M67	5.0	2343		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9M68	5.0	2347		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCV3	1.0	2351		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB3	1.0	2356		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICP08 Analysis Method: P

Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
S0	1.0	1219	X						X				X		X	X			X			X						
SA	1.0	1222	X						X				X		X	X			X			X						
SB	1.0	1225	X						X				X		X	X			X			X						
SC	1.0	1228	X										X			X												
SD	1.0	1230	X						X				X		X	X			X			X						
SE	1.0	1233	X						X				X		X	X			X			X						
SF	1.0	1236														X												
S500000	1.0	1239	X						X				X		X				X			X						
ICV1	1.0	1242	X						X				X		X	X			X			X						
ICB1	1.0	1244	X						X				X		X	X			X			X						
ICSA1	1.0	1247	X						X				X		X	X			X			X						
ICSAB1	1.0	1250	X						X				X		X	X			X			X						
CCV1	1.0	1253	X						X				X		X	X			X			X						
CCB1	1.0	1256	X						X				X		X	X			X			X						
PBS1	1.0	1259	X						X				X		X	X			X			X						
LCS1	1.0	1301	X						X				X		X	X			X			X						
MF9M48	1.0	1304	X						X				X		X	X			X			X						
MF9M48S	1.0	1307														X												
MF9M48D	1.0	1310	X						X				X		X	X			X			X						
MF9M48L	5.0	1313	X						X				X		X	X			X			X						
MF9M49	1.0	1316	X						X				X		X	X			X			X						
MF9M50	1.0	1319	X						X				X		X	X			X			X						
MF9M51	1.0	1321	X						X				X		X	X			X			X						
MF9M52	1.0	1324	X						X				X		X	X			X			X						
MF9M54	1.0	1327	X						X				X		X	X			X			X						
MF9M55	1.0	1330	X						X				X		X	X			X			X						
MF9M56	1.0	1333	X						X				X		X	X			X			X						
MF9M57	1.0	1336	X						X				X		X	X			X			X						
MF9M58	1.0	1338	X						X				X		X	X			X			X						
MF9M59	1.0	1341	X						X				X		X	X			X			X						
MF9M60	1.0	1344	X						X				X		X	X			X			X						
MF9M61	1.0	1347	X						X				X		X	X			X			X						

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICP08 Analysis Method: P

Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	D/F	Time	Analytes																								
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
MF9M62	1.0	1350	X						X				X		X	X			X			X						
MF9M63	1.0	1352	X						X				X		X	X			X			X						
MF9M64	1.0	1355	X						X				X		X	X			X			X						
MF9M65	1.0	1358	X						X				X		X	X			X			X						
MF9M66	1.0	1401	X						X				X		X	X			X			X						
MF9M67	1.0	1404	X						X				X		X	X			X			X						
MF9M68	1.0	1407	X						X				X		X	X			X			X						
MF9M48A	1.0	1410														X												
CCV2	1.0	1412	X						X				X		X	X			X			X						
CCB2	1.0	1415	X						X				X		X	X			X			X						

USEPA - CLP
14-IN
ICP-MS Tune

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Date: 06/22/2015

Element - Mass	Avg. Measured Mass (amu)	Average Peak Width (amu)	%Height	%RSD
Be - 9	9.01	0.82	5	1.3
Mg - 24	23.99	0.77	5	1.1
Mg - 25	24.99	0.77	5	0.5
Mg - 26	25.98	0.77	5	0.6
Co - 59	58.93	0.77	5	0.3
In - 113	112.90	0.82	5	0.8
In - 115	114.90	0.82	5	1.0
Pb - 206	205.97	0.76	5	1.0
Pb - 207	206.98	0.76	5	1.2
Pb - 208	207.98	0.76	5	1.0

Comments:
Instrument manufacturer's specification for peak height is 0.65 to 0.85 amu with the peak width measured at 5% of the peak maximum.

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	2040										
S	2045										
S10	2049										
S50	2053										
S200	2058										
S500	2102										
S2500	2106										
S5000	2111										
S50000	2115										
S100000	2119										
ICV1	2124	97		100		100		99		99	
ICB1	2128	98		100		98		98		97	
ICSA1	2132	80		86		88		84		91	
ICSAB1	2137	82		87		89		86		94	
CCV1	2141	87		92		92		88		92	
CCB1	2145	98		99		100		100		101	
PBS1	2150	102		102		103		102		103	
LCS1	2154	102		103		103		103		103	
MF9M48	2158	93		101		105		100		102	
MF9M48S	2203	93		101		106		100		101	
MF9M48D	2207	93		101		106		100		101	
MF9M48L	2211	92		99		102		101		102	
MF9M48A	2216	91		99		103		97		99	
MF9M49	2220	92		99		104		99		99	
MF9M50	2225	91		99		104		97		98	
MF9M51	2229	92		99		105		98		100	
MF9M52	2233	92		99		104		98		100	
MF9M54	2237	92		99		103		98		99	
MF9M55	2242	92		98		103		99		100	
CCV2	2246	85		90		91		87		91	
CCB2	2251	97		100		100		100		100	
MF9M56	2255	93		100		105		100		100	

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	2040										
S	2045										
S10	2049										
S50	2053										
S200	2058										
S500	2102										
S2500	2106										
S5000	2111										
S50000	2115										
S100000	2119										
ICV1	2124	100									
ICB1	2128	99									
ICSA1	2132	83									
ICSAB1	2137	84									
CCV1	2141	86									
CCB1	2145	102									
PBS1	2150	103									
LCS1	2154	103									
MF9M48	2158	101									
MF9M48S	2203	100									
MF9M48D	2207	100									
MF9M48L	2211	102									
MF9M48A	2216	98									
MF9M49	2220	98									
MF9M50	2225	97									
MF9M51	2229	99									
MF9M52	2233	98									
MF9M54	2237	98									
MF9M55	2242	99									
CCV2	2246	86									
CCB2	2251	102									
MF9M56	2255	100									

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
MF9M57	2259	92		101		106		99		101	
MF9M58	2304	92		101		106		98		99	
MF9M59	2308	92		99		102		98		99	
MF9M60	2312	92		99		102		98		98	
MF9M61	2317	92		98		102		97		98	
MF9M62	2321	91		98		102		94		96	
MF9M63	2325	89		96		101		92		94	
MF9M64	2330	88		95		101		90		92	
MF9M65	2334	90		96		99		92		94	
MF9M66	2338	91		95		99		95		96	
MF9M67	2343	91		96		100		95		96	
MF9M68	2347	91		96		100		95		96	
CCV3	2351	84		88		87		84		88	
CCB3	2356	95		96		97		97		98	

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

ICP-MS Instrument ID: ICPM02 Start Date: 06/22/2015 End Date: 06/22/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
MF9M57	2259	99									
MF9M58	2304	98									
MF9M59	2308	99									
MF9M60	2312	98									
MF9M61	2317	97									
MF9M62	2321	95									
MF9M63	2325	92									
MF9M64	2330	91									
MF9M65	2334	94									
MF9M66	2338	96									
MF9M67	2343	97									
MF9M68	2347	96									
CCV3	2351	84									
CCB3	2356	100									

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICP08 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.0	-0.030		200	206	-3	1000	1050	-5
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	0.0	-0.67		5000	5340	-7	25000	26200	-5
Chromium									
Cobalt									
Copper									
Iron	0.0	-0.024		100	106	-6	1000	1050	-5
Lead									
Magnesium	0.0	-0.30		5000	5200	-4	25000	25700	-3
Manganese	0.0	-0.0020		15.0	16.3	-8	200	204	-2
Mercury									
Nickel									
Potassium	0.0	0.38		5000	4810	4	25000	24300	3
Selenium									
Silver									
Sodium	0.0	-0.37		5000	5100	-2	25000	25700	-3
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICP08 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	5000	5360	-7	50000	49900	0	250000	249000	0
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium				125000	128000	-2	250000	253000	-1
Chromium									
Cobalt									
Copper									
Iron	5000	5510	-10	50000	51500	-3	250000	252000	-1
Lead									
Magnesium				125000	124000	1	250000	250000	0
Manganese	2000	2140	-7	5000	4910	2	25000	24000	4
Mercury									
Nickel									
Potassium				125000	123000	2	250000	250000	0
Selenium									
Silver									
Sodium				125000	128000	-2	250000	255000	-2
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICP08 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum				500000	500000	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium				500000	493000	1			
Chromium									
Cobalt									
Copper									
Iron				500000	496000	1			
Lead									
Magnesium				500000	500000	0			
Manganese	50000	50900	-2						
Mercury									
Nickel									
Potassium				500000	503000	-1			
Selenium									
Silver									
Sodium				500000	491000	2			
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICPM02 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	0.0	0.0		2.0	1.9	7	10.0	9.0	10
Arsenic	0.0	0.0		1.0	0.88	12	10.0	9.7	3
Barium	0.0	0.0		10.0	9.6	4			
Beryllium	0.0	0.0		1.0	0.97	3	10.0	10.1	-1
Cadmium	0.0	0.0		1.0	0.91	9	10.0	9.8	2
Calcium									
Chromium	0.0	0.0		2.0	1.9	6	10.0	9.4	6
Cobalt	0.0	0.0		1.0	0.94	6	10.0	9.6	4
Copper	0.0	0.0		2.0	2.0	2	10.0	9.9	1
Iron									
Lead	0.0	0.0		1.0	0.91	9	10.0	9.3	7
Magnesium									
Manganese									
Mercury									
Nickel	0.0	0.0		1.0	0.93	7	10.0	9.8	2
Potassium									
Selenium	0.0	0.0		5.0	5.0	1	10.0	10.3	-3
Silver	0.0	0.0		1.0	1.0	-1	10.0	9.9	1
Sodium									
Thallium	0.0	0.0		1.0	0.90	10	10.0	9.3	7
Vanadium	0.0	0.0		5.0	4.9	2	10.0	9.2	8
Zinc	0.0	0.0		2.0	2.0	0	10.0	10.4	-4
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICPM02 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	50.0	46.1	8	200	183	8	500	468	6
Arsenic	50.0	47.9	4	200	192	4	500	485	3
Barium	50.0	48.7	3	200	194	3	500	486	3
Beryllium	50.0	50.6	-1	200	202	-1	500	510	-2
Cadmium	50.0	48.8	2	200	193	3	500	489	2
Calcium									
Chromium	50.0	47.4	5	200	190	5	500	496	1
Cobalt	50.0	48.0	4	200	194	3	500	517	-3
Copper	50.0	49.7	1	200	199	0	500	512	-2
Iron									
Lead	50.0	47.0	6	200	189	5	500	485	3
Magnesium									
Manganese									
Mercury									
Nickel	50.0	49.7	1	200	199	0	500	505	-1
Potassium									
Selenium	50.0	49.3	1	200	200	0	500	500	0
Silver	50.0	49.4	1	200	198	1	500	501	0
Sodium									
Thallium	50.0	46.8	6	200	190	5	500	494	1
Vanadium	50.0	46.6	7	200	188	6	500	495	1
Zinc	50.0	51.3	-3	200	202	-1	500	514	-3
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: ICPM02 Start Date: 06/22/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	2500	2510	0	5000	5000	0			
Arsenic	2500	2450	2	5000	5030	-1			
Barium	2500	2460	2	5000	5020	0			
Beryllium	2500	2550	-2	5000	4970	1			
Cadmium	2500	2470	1	5000	5020	0			
Calcium									
Chromium	2500	2520	-1	5000	4990	0			
Cobalt	2500	2530	-1	5000	4980	0			
Copper	2500	2550	-2	5000	4970	1			
Iron									
Lead	2500	2510	0	5000	5000	0			
Magnesium									
Manganese									
Mercury									
Nickel	2500	2540	-2	5000	4980	0			
Potassium									
Selenium									
Silver									
Sodium									
Thallium	2500	2520	-1	5000	4990	0			
Vanadium	2500	2540	-2	5000	4980	0			
Zinc	2500	2530	-1	5000	4980	0			
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: AACV02 Start Date: 06/18/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	0.0	-0.018		0.20	0.17	15	0.50	0.47	6
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9M48

Instrument ID: AACV02 Start Date: 06/18/2015

Concentration Units: ug/L

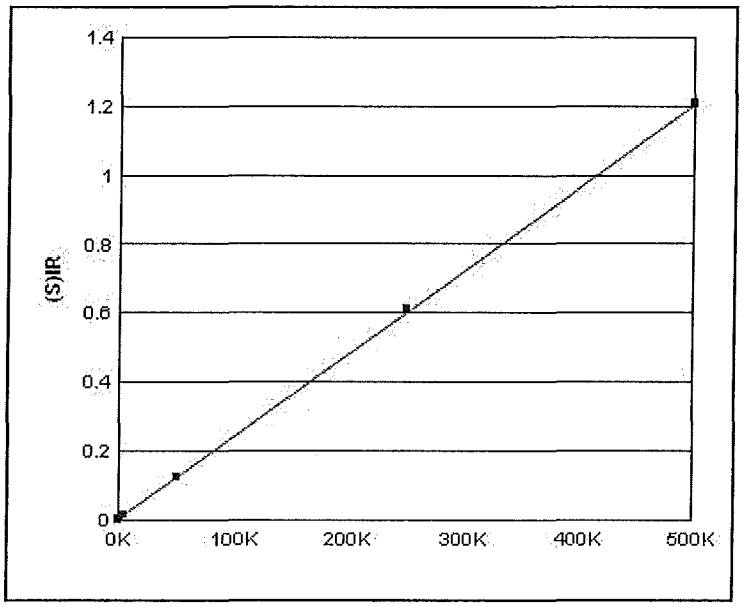
Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	1.0	1.0	-3	5.0	5.1	-2	10.0	10	0
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

Run#	k15120	Al3082	Ca3179	Fe2598	Mg2790	Mn2576	K_7664	Na5895
		Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
S0	06/22/2015 12:19:28	0.00075	0.00327	0.00007	-0.00007	0.00004	-0.00028	-0.00437
SA	06/22/2015 12:22:24	0.00127	0.29304	0.00159	0.01262	0.00186	0.09664	0.26705
SB	06/22/2015 12:25:19	0.00337	1.4255	0.01512	0.06274	0.02283	0.4904	1.3618
SC	06/22/2015 12:28:06	0.01439		0.07927		0.23933		
SD	06/22/2015 12:30:45	0.12282	6.933	0.73944	0.30312	0.54896	2.4711	6.8033
SE	06/22/2015 12:33:21	0.61101	13.712	3.6187	0.60969	2.6854	5.0396	13.575
SF	06/22/2015 12:36:04					5.6964		
S500000	06/22/2015 12:39:14	1.2073	26.783	7.1166	1.2229		10.141	26.123
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ICV1	06/22/2015 12:42:13	2696.6	10612	5409.9	6233.7	525.57	9831.8	10288
ICB1	06/22/2015 12:44:56	-2.5797	-3.9547	10.445	-17.035	-0.19862	29.238	34.095
ICSA1	06/22/2015 12:47:53	263080	253300	103430	259260	17.231	63.185	64.333
ICSAB1	06/22/2015 12:50:37	267200	256820	104950	262710	544.95	34.836	70.183
CCV1	06/22/2015 12:53:16	258520	250000	255220	248770	24713	253400	253200
CCB1	06/22/2015 12:56:01	1.2187	18.641	18.279	25.784	1.8463	84.063	36.512
PBS1	06/22/2015 12:59:00	-6.0703	83.293	8.439	-26.303	-0.31656	79.062	37.591
LCS1	06/22/2015 13:01:58	451.78	10744	238.52	10347	31.361	9823.7	10398
MF9M48	06/22/2015 13:04:51	35358	11481	64659	5183.2	1315.7	7411.3	207.55
MF9M48S	06/22/2015 13:07:42	43583	11118	66788	5658.5	F 3030.4	7771	218.37
MF9M48D	06/22/2015 13:10:24	41153	11621	64031	5785.8	1311.5	8572.3	239.2
MF9M48L	06/22/2015 13:13:15	7083.3	2289.6	13049	1030.8	265.4	1510.7	64.98
MF9M49	06/22/2015 13:16:10	26836	11012	50468	5076.1	878.49	5673.9	365.95
MF9M50	06/22/2015 13:19:02	39632	29988	93256	8768.7	1179.5	8539	461.33
MF9M51	06/22/2015 13:21:52	35024	16633	47902	5489.3	1790.4	6372.1	155.84
MF9M52	06/22/2015 13:24:41	41522	22459	64988	7032.4	2324.2	7523.8	186.76
MF9M54	06/22/2015 13:27:30	41176	16647	58967	6429.6	1678.3	7656.3	175.34
MF9M55	06/22/2015 13:30:19	37178	17353	57682	6179.5	1444.2	6335	496.13
MF9M56	06/22/2015 13:33:09	39626	8247.7	57858	5593.2	607.59	6315.9	236.12
MF9M57	06/22/2015 13:36:00	50639	14793	78930	9580.6	710.46	6240.6	293.69
MF9M58	06/22/2015 13:38:52	64956	9032.6	195990	7276.1	16540	6961.5	478.34
MF9M59	06/22/2015 13:41:39	29220	48261	52523	19860	2926.1	5683.6	192.71
MF9M60	06/22/2015 13:44:27	42854	16714	79234	7363.4	2841.2	7295.6	394.07
MF9M61	06/22/2015 13:47:18	36110	8262.7	62155	5526.7	548.09	5374.3	351.3
MF9M62	06/22/2015 13:50:08	56609	8096.8	347240	5993.6	20344	5720	433.13
MF9M63	06/22/2015 13:52:56	51555	15573	71613	7345.7	1386.9	7427	288.36
MF9M64	06/22/2015 13:55:48	41382	9735.1	59366	5602.7	1043.1	4774.6	282.5
MF9M65	06/22/2015 13:58:40	60886	10368	112540	7380.5	1376.2	6202.9	478.09
MF9M66	06/22/2015 14:01:30	32508	31440	53100	14299	2934.9	5564	153.55
MF9M67	06/22/2015 14:04:19	44233	12722	58486	7422.2	1600.9	6458.2	196.13
MF9M68	06/22/2015 14:07:09	41423	7631.5	67078	4998.5	1213.7	5440.1	250.31
MF9M48A	06/22/2015 14:10:00	35460	11436	64438	5207.2	3949.9	7506.7	224.58
CCV2	06/22/2015 14:12:51	241790	244190	245350	243590	23391	246230	249450
CCB2	06/22/2015 14:15:34	14.943	16.332	37.019	29.662	2.4034	44.488	37.836

Calibration curves for k15120

Author: Joanna Sanchez
Published: 06/24/2015 07:44:03
Method Name: ICP08 ISM01.3 2015 (9)

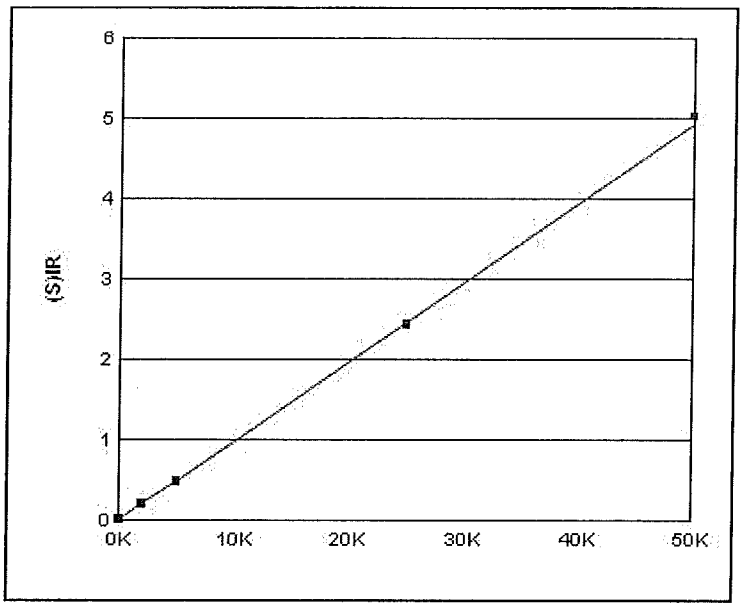


Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00075314
A1 (Gain):	0.0000024117
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.030162	-0.030162	0.00000	0.00075307	0.00020140	1
SA	200.00	205.59	5.5944	2.7972	0.0012664	0.000080464	1
SB	1,000.00	1,054.7	54.686	5.4686	0.0033670	0.000054765	1
SC	5,000.0	5,361.4	361.43	7.2285	0.014386	0.000031306	1
SD	50,000	49,885	-114.87	-0.22973	0.12282	0.00054441	1
SE	250,000	249,400	-599.15	-0.23966	0.61101	0.0041546	1
S500000	500,000	500,280	279.85	0.055970	1.2073	0.0069573	1

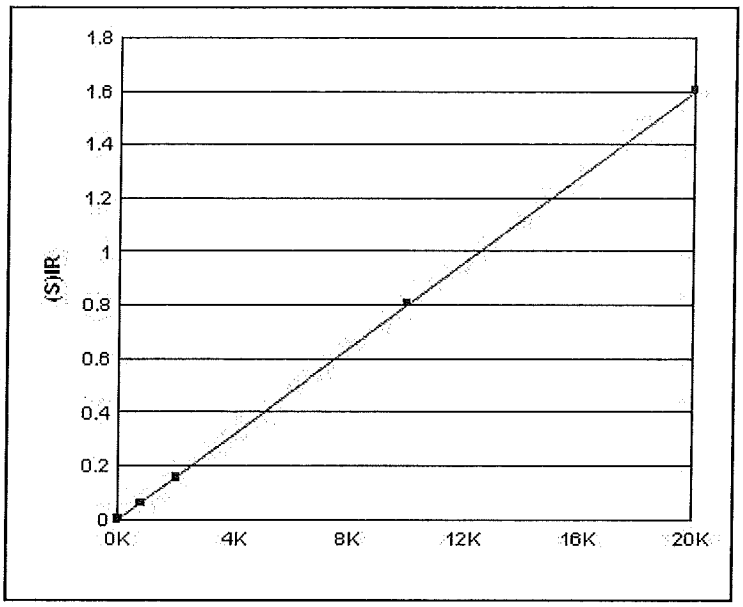


Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.000027137
A1 (Gain):	0.000098589
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.0017070	0.0017070	0.00000	0.000027306	0.00020439	1
SA	60.000	61.703	1.7034	2.8391	0.0061132	0.00029771	1
SB	200.00	201.34	1.3362	0.66811	0.019954	0.00036941	1
SC	2,000.0	1,974.9	-25.126	-1.2563	0.19549	0.00027454	1
SD	5,000.0	4,769.4	-230.60	-4.6121	0.47226	0.0020616	1
SE	25,000	24,505	-494.84	-1.9794	2.4261	0.011157	1
SF	50,000	50,748	747.78	1.4956	5.0217	0.076495	1

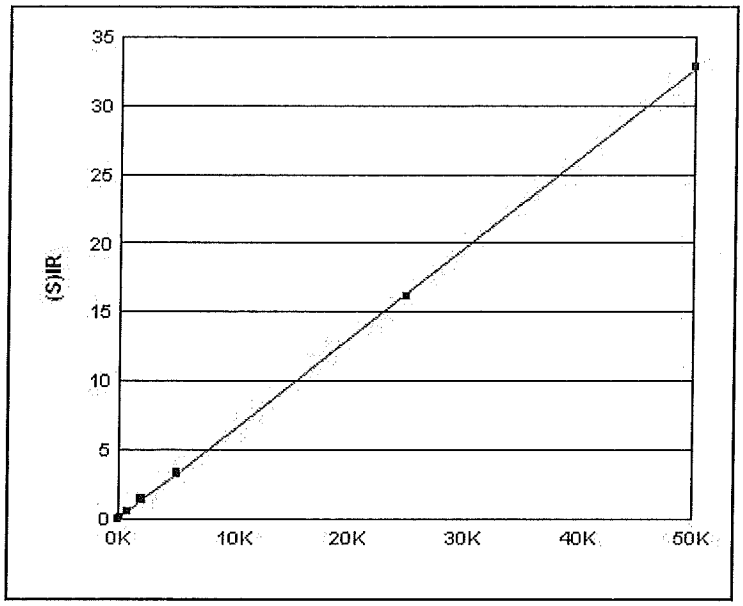


Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.000045228
A1 (Gain):	0.000079997
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0013218	-0.0013218	0.00000	0.000045122	0.00011036	1
SA	10.000	11.838	1.8383	18.383	0.00099329	0.000056725	1
SB	80.000	80.672	0.67242	0.84052	0.0065085	0.00012735	1
SC	800.00	769.30	-30.699	-3.8374	0.061687	0.00026996	1
SD	2,000.0	1,941.1	-58.907	-2.9453	0.15556	0.0010061	1
SE	10,000	10,068	68.300	0.68300	0.80662	0.0029103	1
SF	20,000	20,019	18.796	0.093980	1.6041	0.024917	1

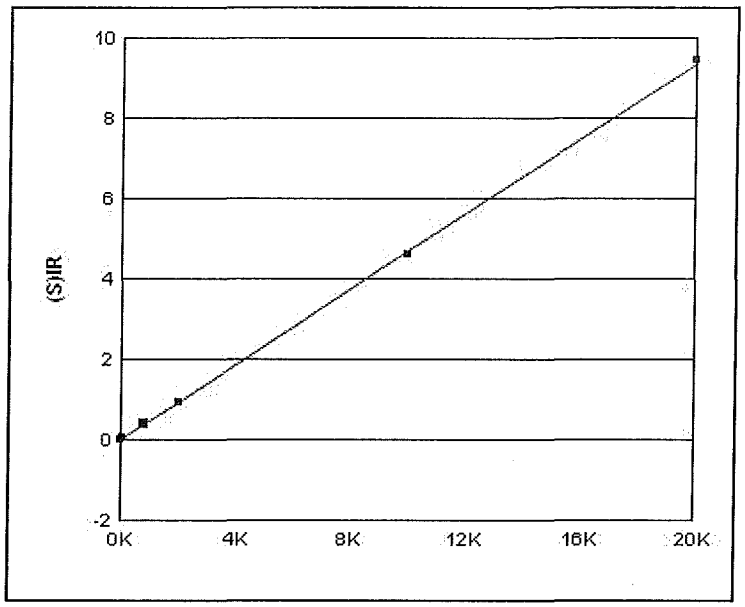


Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0033886
A1 (Gain):	0.00065454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.033758	-0.033758	0.00000	0.0033666	0.00023591	1
SA	200.00	213.72	13.715	6.8576	0.14327	0.00079940	1
SB	750.00	786.04	36.043	4.8057	0.51788	0.0030878	1
SC	2,000.0	2,128.6	128.57	6.4285	1.3966	0.0027849	1
SD	5,000.0	4,988.7	-11.297	-0.22594	3.2687	0.015045	1
SE	25,000	24,674	-326.44	-1.3057	16.153	0.066789	1
SF	50,000	50,159	159.41	0.31881	32.834	0.62828	1

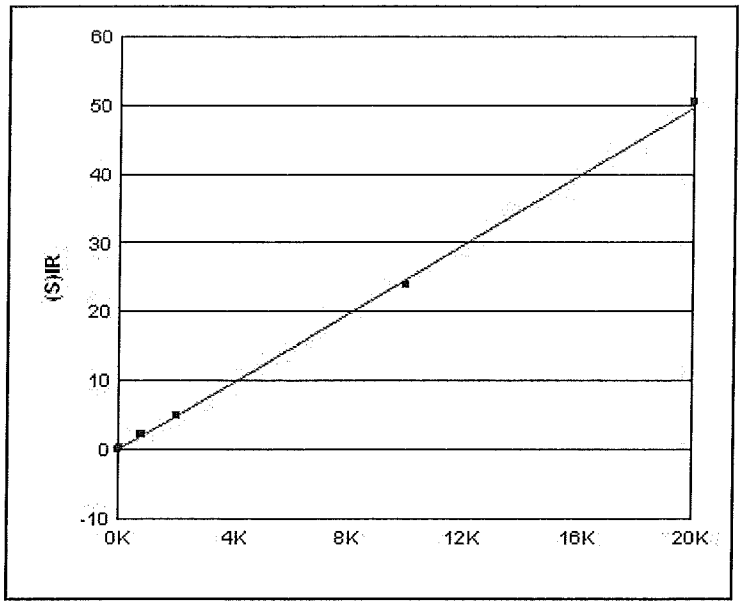


Element Name:	Be
Element Wavelength:	Be 313.107 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.000082814
A1 (Gain):	0.00046728
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.000086706	0.000086706	0.00000	-0.000082774	0.00015855	1
SA	5.0000	4.9246	-0.075425	-1.5085	0.0022241	0.00022247	1
SB	80.000	79.474	-0.52606	-0.65757	0.037077	0.000087620	1
SC	800.00	820.16	20.163	2.5203	0.38339	0.00043128	1
SD	2,000.0	1,975.9	-24.130	-1.2065	0.92378	0.0050734	1
SE	10,000	9,819.1	-180.94	-1.8094	4.5910	0.031643	1
SF	20,000	20,186	185.51	0.92757	9.4379	0.087838	1

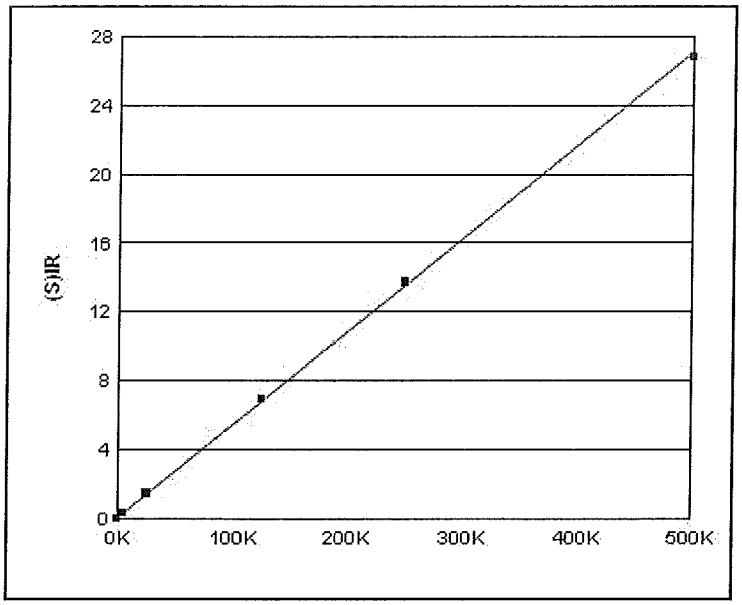


Element Name:	Cd
Element Wavelength:	Cd 214.438 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99965
A0 (Offset):	-0.00024105
A1 (Gain):	0.0024801
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00080697	-0.00080697	0.00000	-0.00024305	0.000096202	1
SA	5.0000	5.4329	0.43291	8.6583	0.013239	0.00020340	1
SB	80.000	84.624	4.6238	5.7797	0.20970	0.0020632	1
SC	800.00	841.15	41.154	5.1443	2.0862	0.0074499	1
SD	2,000.0	1,970.2	-29.815	-1.4907	4.8891	0.017753	1
SE	10,000	9,625.7	-374.28	-3.7428	23.888	0.038394	1
SF	20,000	20,358	358.14	1.7907	50.489	0.80855	1

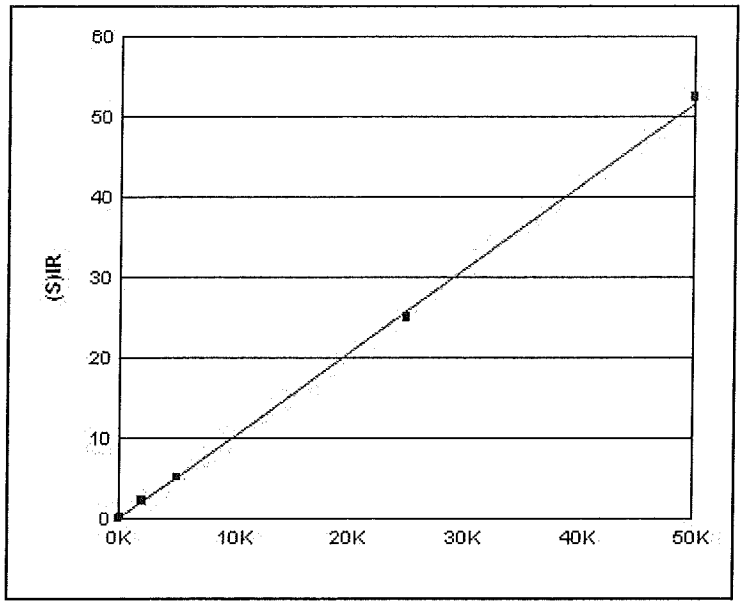


Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.0033049
A1 (Gain):	0.000054287
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.66611	-0.66611	0.00000	0.0032687	0.00011982	1
SA	5,000.0	5,337.1	337.05	6.7410	0.29304	0.0022013	1
SB	25,000	26,198	1,198.4	4.7938	1.4255	0.0066494	1
SD	125,000	127,650	2,648.7	2.1190	6.9330	0.043506	1
SE	250,000	252,530	2,526.3	1.0105	13.712	0.065874	1
S500000	500,000	493,290	-6,710.4	-1.3421	26.783	0.33734	1

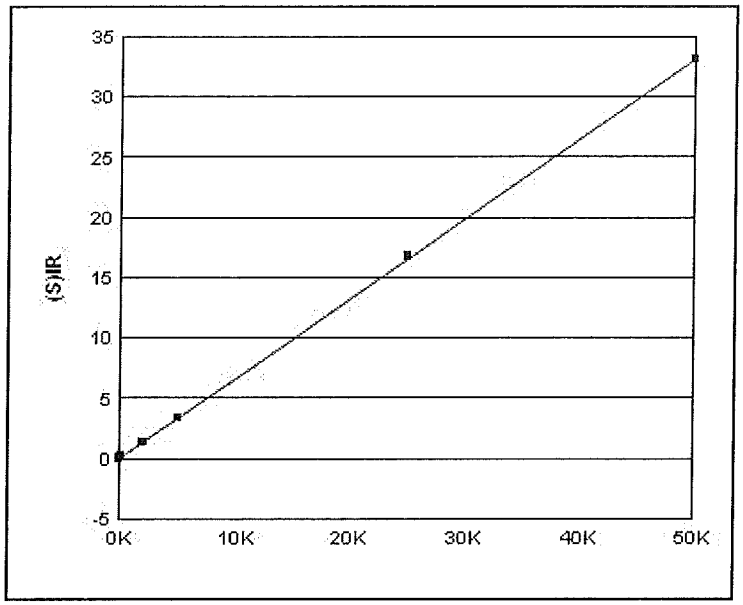


Element Name:	Cr
Element Wavelength:	Cr 205.552 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99974
A0 (Offset):	0.00051650
A1 (Gain):	0.0010312
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0010117	-0.0010117	0.00000	0.00051546	0.00014216	1
SA	10.000	10.422	0.42197	4.2197	0.011273	0.000095270	1
SB	200.00	208.65	8.6515	4.3257	0.21576	0.0020478	1
SC	2,000.0	2,104.0	104.04	5.2022	2.1710	0.0089739	1
SD	5,000.0	4,896.9	-103.09	-2.0618	5.0523	0.016861	1
SE	25,000	24,225	-774.58	-3.0983	24.992	0.051347	1
SF	50,000	50,765	764.56	1.5291	52.370	1.1307	1

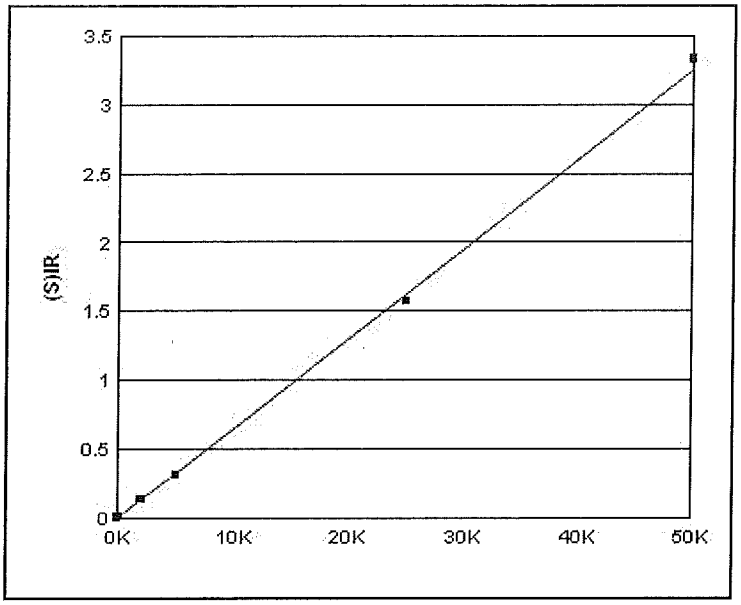


Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000025633
A1 (Gain):	0.00066359
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0020472	-0.0020472	0.00000	-0.000026992	0.00018644	1
SA	50.000	51.342	1.3421	2.6843	0.034107	0.00025451	1
SB	200.00	202.47	2.4709	1.2354	0.13453	0.00074407	1
SC	2,000.0	2,007.6	7.5800	0.37900	1.3334	0.0012138	1
SD	5,000.0	4,964.0	-35.978	-0.71956	3.2974	0.011553	1
SE	25,000	25,233	233.04	0.93218	16.761	0.026245	1
SF	50,000	49,792	-208.49	-0.41699	33.070	0.61879	1

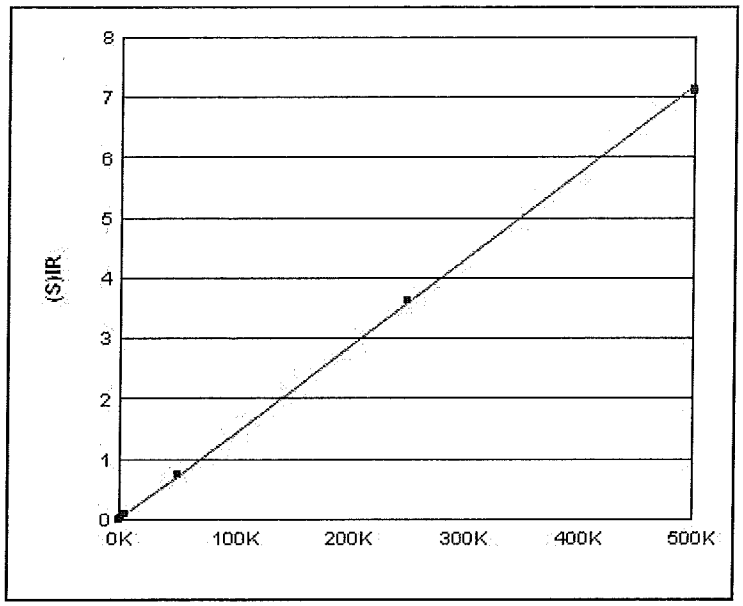


Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99960
A0 (Offset):	0.00039784
A1 (Gain):	0.000065156
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.0011621	0.0011621	0.00000	0.00039792	0.000048574	1
SA	25.000	24.804	-0.19608	-0.78433	0.0020137	0.000034093	1
SB	200.00	200.11	0.11123	0.055613	0.013434	0.000087993	1
SC	2,000.0	2,046.7	46.742	2.3371	0.13373	0.0010771	1
SD	5,000.0	4,754.1	-245.90	-4.9179	0.31009	0.0035906	1
SE	25,000	24,131	-868.70	-3.4748	1.5724	0.0091511	1
SF	50,000	51,068	1,067.9	2.1359	3.3272	0.012385	1

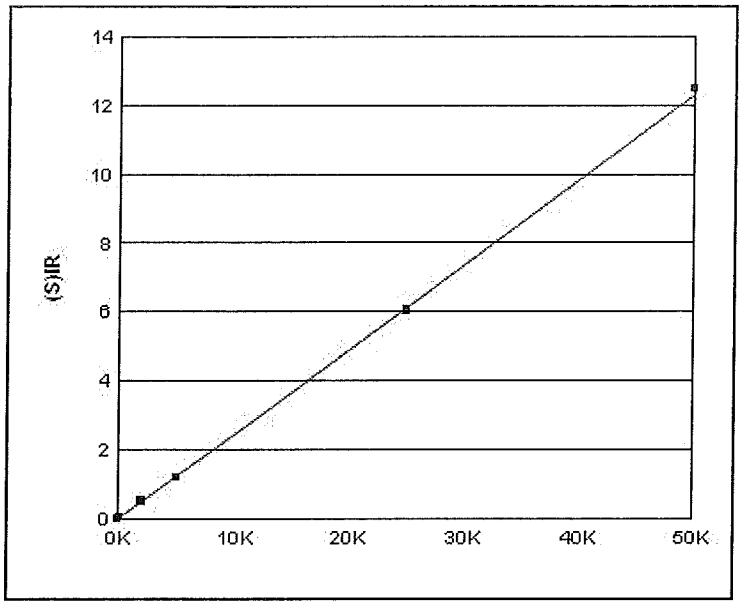


Element Name:	Fe
Element Wavelength:	Fe 259.837 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.000072085
A1 (Gain):	0.000014352
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.023659	-0.023659	0.00000	0.000071745	0.000027839	1
SA	100.00	105.61	5.6146	5.6146	0.0015885	0.00011224	1
SB	1,000.00	1,047.9	47.921	4.7921	0.015120	0.00012401	1
SC	5,000.0	5,512.3	512.34	10.247	0.079265	0.00023273	1
SD	50,000	51,503	1,503.0	3.0060	0.73944	0.0049441	1
SE	250,000	252,070	2,069.1	0.82765	3.6187	0.015531	1
S500000	500,000	495,860	-4,139.6	-0.82793	7.1166	0.026230	1

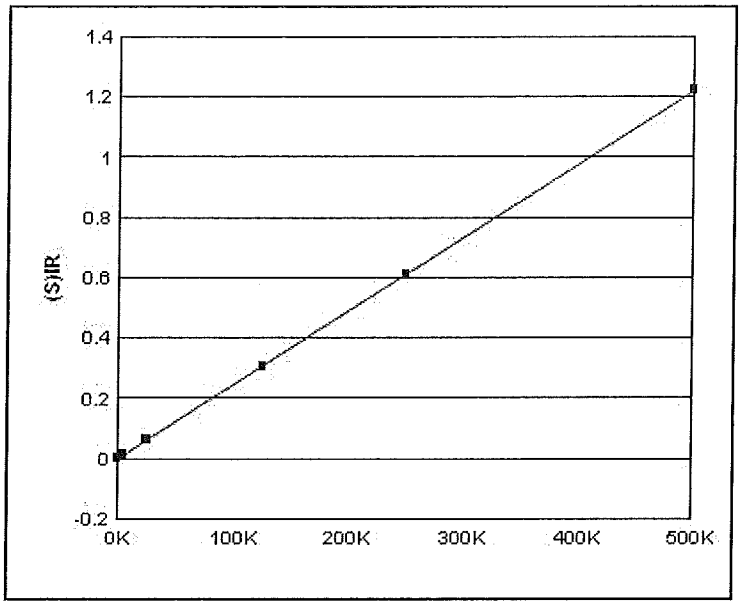


Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.0015280
A1 (Gain):	0.00024582
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00076810	-0.00076810	0.00000	0.0015278	0.00035601	1
SA	10.000	11.066	1.0658	10.658	0.0042675	0.00029640	1
SB	200.00	199.86	-0.14404	-0.072018	0.050766	0.00057391	1
SC	2,000.0	2,019.5	19.460	0.97302	0.49872	0.0023238	1
SD	5,000.0	4,848.3	-151.70	-3.0340	1.1977	0.0033028	1
SE	25,000	24,445	-555.13	-2.2205	6.0323	0.017273	1
SF	50,000	50,688	688.27	1.3765	12.473	0.19401	1

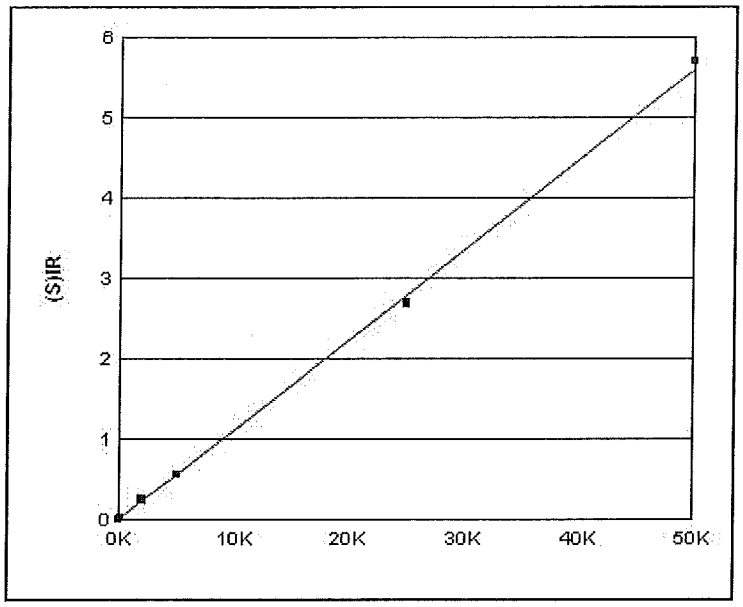


Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000073712
A1 (Gain):	0.0000024436
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.29632	-0.29632	0.00000	-0.000074436	0.000058063	1
SA	5,000.0	5,196.6	196.55	3.9310	0.012625	0.00013071	1
SB	25,000	25,706	705.90	2.8236	0.062742	0.00031607	1
SD	125,000	124,080	-923.61	-0.73889	0.30312	0.0014918	1
SE	250,000	249,530	-467.66	-0.18706	0.60969	0.0045611	1
S500000	500,000	500,490	488.81	0.097762	1.2229	0.0054738	1

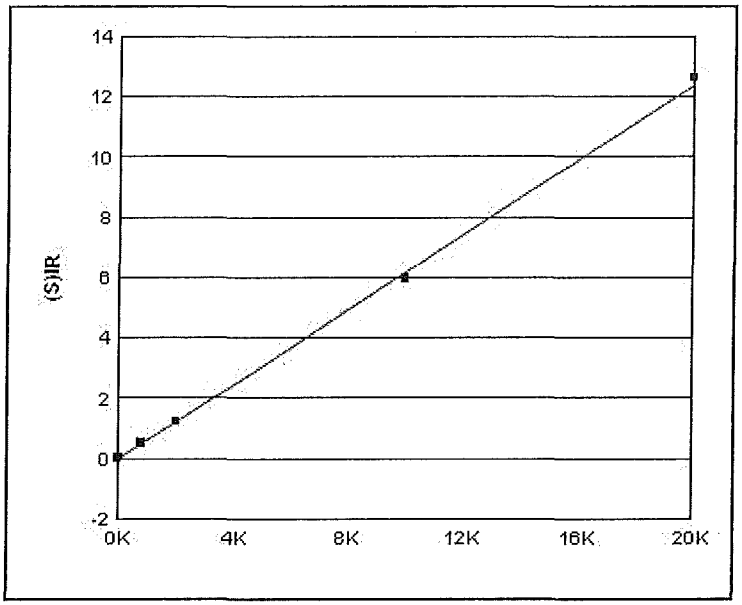


Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99959
A0 (Offset):	0.000038873
A1 (Gain):	0.00011184
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0020117	-0.0020117	0.00000	0.000038648	0.000047260	1
SA	15.000	16.268	1.2680	8.4530	0.0018582	0.000031633	1
SB	200.00	203.78	3.7789	1.8894	0.022829	0.00014090	1
SC	2,000.0	2,139.7	139.70	6.9852	0.23933	0.00032374	1
SD	5,000.0	4,908.3	-91.717	-1.8343	0.54896	0.0031476	1
SE	25,000	24,012	-988.12	-3.9525	2.6854	0.018464	1
SF	50,000	50,935	935.09	1.8702	5.6964	0.011721	1

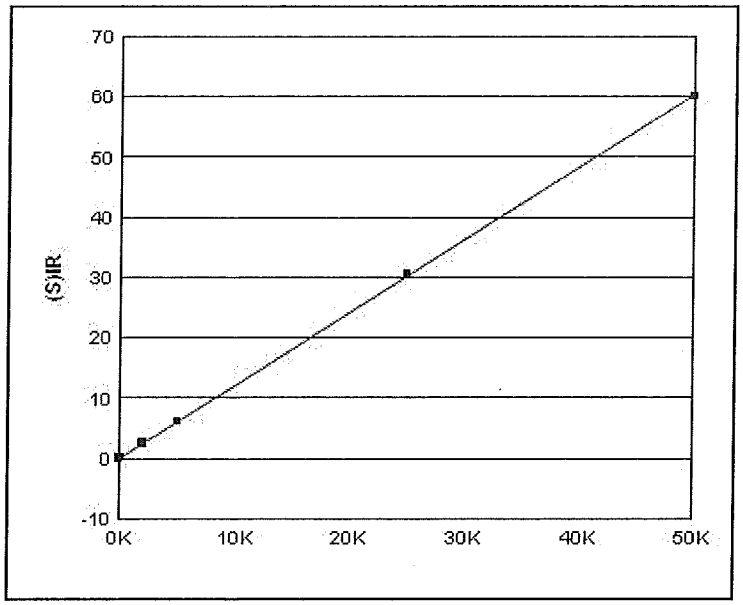


Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99963
A0 (Offset):	-0.0000089145
A1 (Gain):	0.00061917
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00032668	0.00032668	0.00000	-0.0000087122	0.000083631	1
SA	10.000	9.8616	-0.13844	-1.3844	0.0060965	0.000073584	1
SB	80.000	81.686	1.6864	2.1080	0.050564	0.00045178	1
SC	800.00	803.94	3.9438	0.49297	0.49774	0.00082257	1
SD	2,000.0	1,942.1	-57.885	-2.8942	1.2022	0.0063031	1
SE	10,000	9,629.9	-370.14	-3.7014	5.9612	0.012064	1
SF	20,000	20,422	422.45	2.1122	12.645	0.23865	1

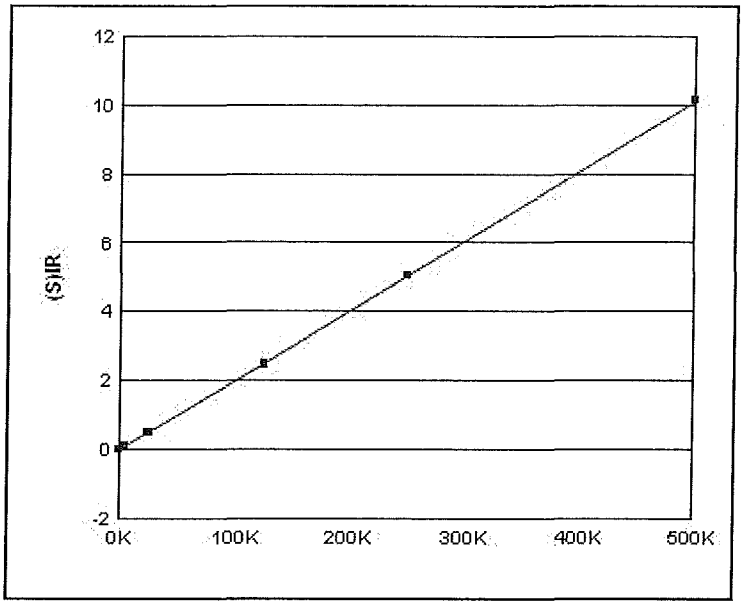


Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00063390
A1 (Gain):	0.0012087
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0028187	-0.0028187	0.00000	-0.00063731	0.000061288	1
SA	40.000	41.417	1.4174	3.5434	0.049468	0.00046528	1
SB	200.00	204.52	4.5155	2.2577	0.24676	0.0019421	1
SC	2,000.0	2,021.7	21.740	1.0870	2.4447	0.0062641	1
SD	5,000.0	4,975.9	-24.127	-0.48255	6.0206	0.023595	1
SE	25,000	25,324	324.38	1.2975	30.644	0.037835	1
SF	50,000	49,672	-328.12	-0.65624	60.068	1.1042	1

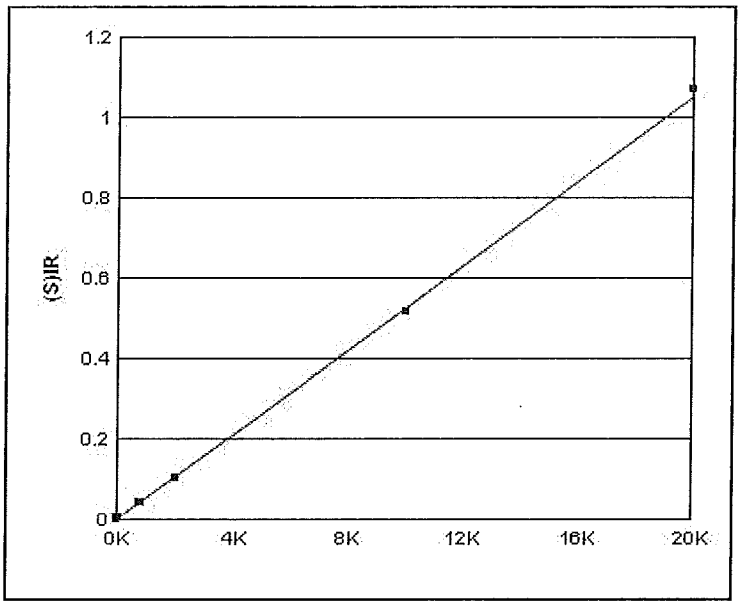


Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00028565
A1 (Gain):	0.000020155
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.38421	0.38421	0.00000	-0.00027791	0.00059523	1
SA	5,000.0	4,809.0	-190.99	-3.8199	0.096639	0.0014862	1
SB	25,000	24,346	-654.04	-2.6162	0.49040	0.0020662	1
SD	125,000	122,620	-2,380.6	-1.9045	2.4711	0.0076590	1
SE	250,000	250,060	56.180	0.022472	5.0396	0.014970	1
S500000	500,000	503,170	3,169.5	0.63389	10.141	0.0096157	1

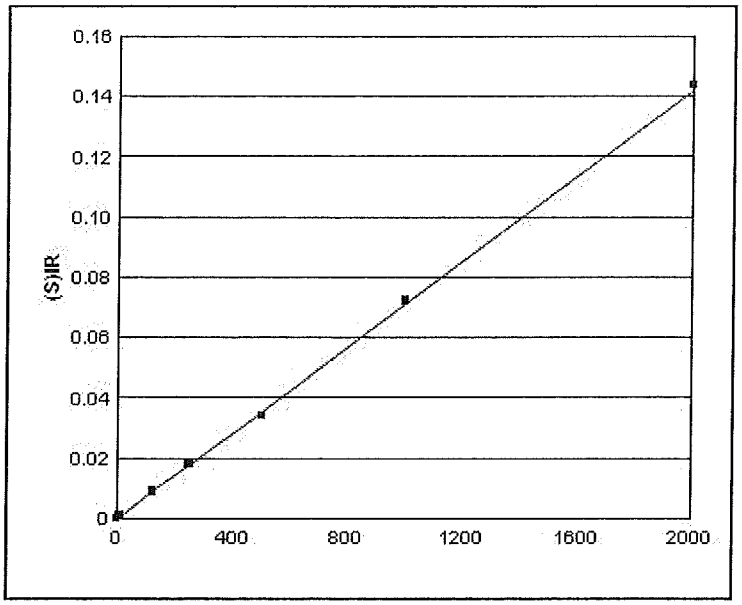


Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.00031358
A1 (Gain):	0.000052616
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00085751	-0.00085751	0.00000	0.00031353	0.00017644	1
SA	35.000	35.779	0.77928	2.2265	0.0021971	0.000078386	1
SB	80.000	85.448	5.4484	6.8105	0.0048181	0.00018532	1
SC	800.00	778.29	-21.710	-2.7137	0.041333	0.00028745	1
SD	2,000.0	1,936.1	-63.888	-3.1944	0.10248	0.00013532	1
SE	10,000	9,784.4	-215.60	-2.1560	0.51662	0.0024190	1
SF	20,000	20,295	295.42	1.4771	1.0695	0.015425	1

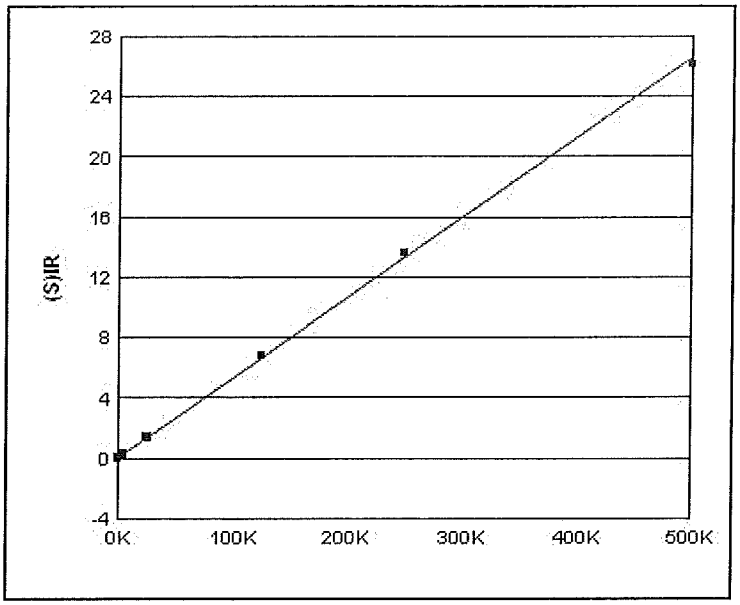


Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	0.000022392
A1 (Gain):	0.000070886
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00057475	0.00057475	0.00000	0.000022433	0.000017150	1
SA	10.000	9.7265	-0.27347	-2.7347	0.00071243	0.000020258	1
SB	125.00	124.09	-0.91413	-0.73130	0.0088224	0.000046521	1
SC	250.00	252.11	2.1129	0.84517	0.017934	0.00010938	1
SD	500.00	476.28	-23.722	-4.7445	0.033884	0.00041802	1
SE	1,000.00	1,009.7	9.6558	0.96558	0.072092	0.00044642	1
SF	2,000.0	2,013.0	13.044	0.65221	0.14372	0.00048957	1

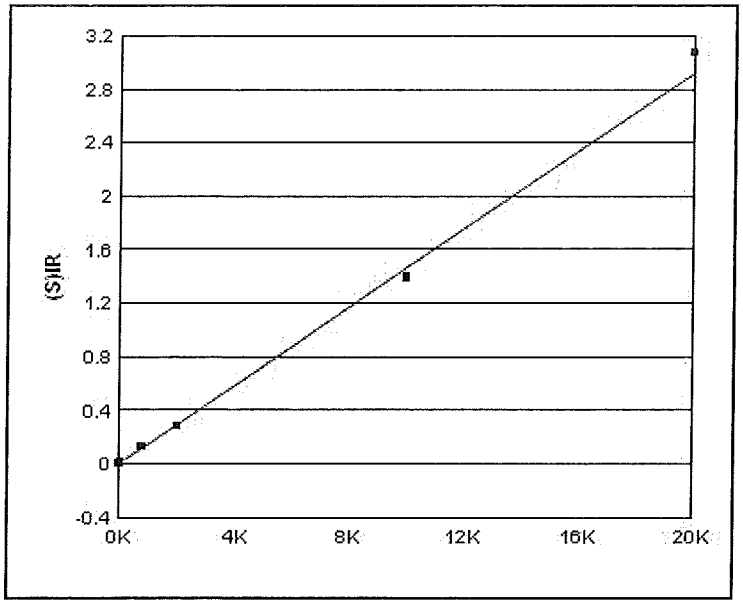


Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:41:59
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	-0.0043515
A1 (Gain):	0.000053206
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.36912	-0.36912	0.00000	-0.0043712	0.00056336	1
SA	5,000.0	5,100.9	100.87	2.0174	0.26705	0.0022902	1
SB	25,000	25,677	676.98	2.7079	1.3618	0.0062070	1
SD	125,000	127,950	2,948.6	2.3589	6.8033	0.031765	1
SE	250,000	255,220	5,217.7	2.0871	13.575	0.073424	1
S500000	500,000	491,060	-8,944.1	-1.7888	26.123	0.30596	1

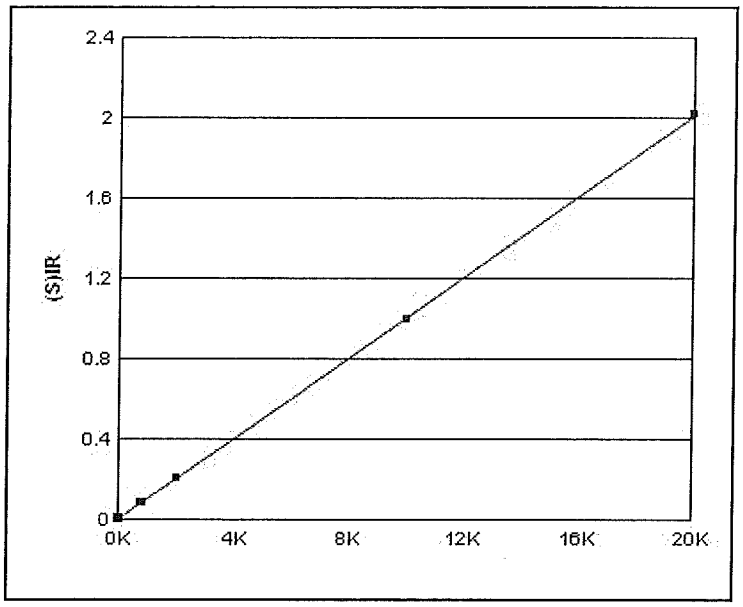


Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99894
A0 (Offset):	-0.00099221
A1 (Gain):	0.00014625
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0021432	-0.0021432	0.00000	-0.00099252	0.00014777	1
SA	25.000	25.981	0.98111	3.9244	0.0028526	0.00015588	1
SB	80.000	84.354	4.3536	5.4420	0.011546	0.00024927	1
SC	800.00	854.13	54.126	6.7657	0.12595	0.00029862	1
SD	2,000.0	1,910.3	-89.732	-4.4866	0.28338	0.00030185	1
SE	10,000	9,355.4	-644.57	-6.4457	1.3922	0.0031012	1
SF	20,000	20,675	674.58	3.3729	3.0737	0.035118	1

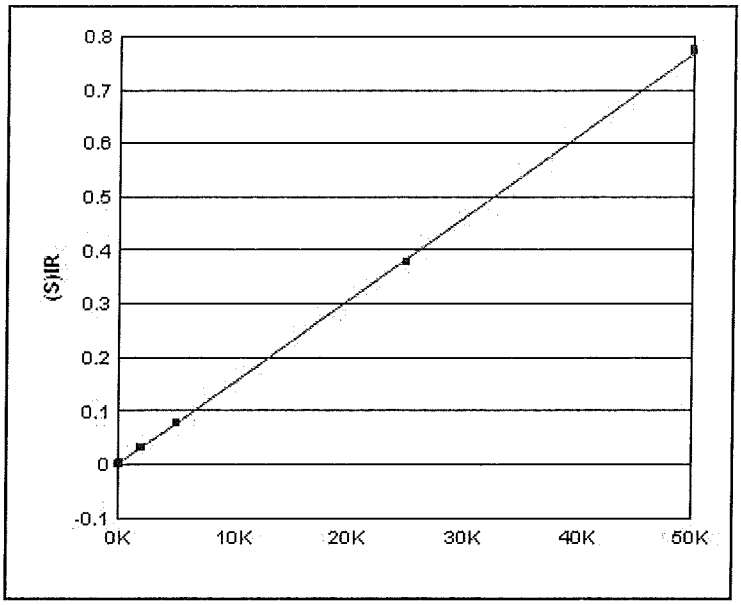


Element Name:	Ti
Element Wavelength:	Ti 334.941 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00024415
A1 (Gain):	0.00010026
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

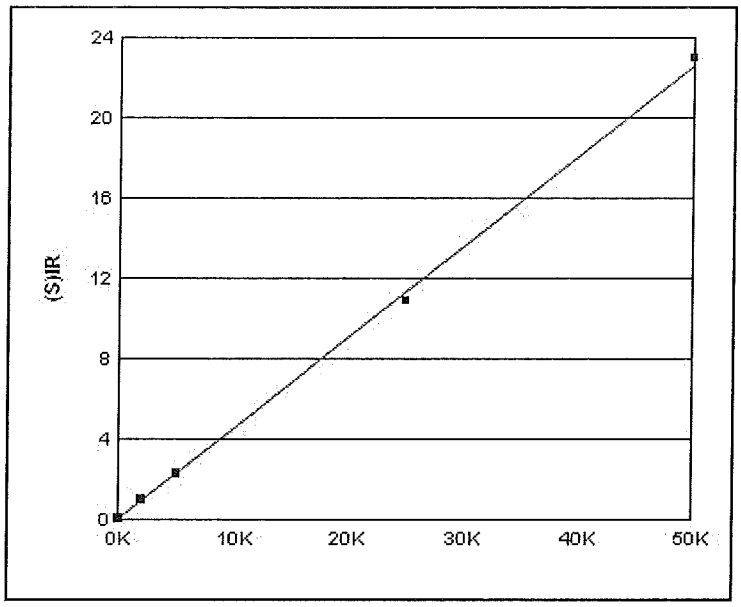
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0010850	-0.0010850	0.00000	0.00024404	0.000049842	1
SA	25.000	24.578	-0.42201	-1.6880	0.0027165	0.00014282	1
SB	80.000	82.825	2.8245	3.5306	0.0085941	0.00015011	1
SC	800.00	825.20	25.196	3.1495	0.083044	0.00013091	1
SD	2,000.0	2,003.2	3.2024	0.16012	0.20145	0.0012431	1
SE	10,000	9,868.3	-131.68	-1.3168	0.99086	0.0067012	1
SF	20,000	20,101	100.92	0.50459	2.0172	0.0040776	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.000011721
A1 (Gain):	0.000015356
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0067863	-0.0067863	0.00000	-0.000011825	0.0000027797	1
SA	50.000	53.398	3.3981	6.7961	0.00080853	0.0000070446	1
SB	200.00	209.37	9.3740	4.6870	0.0032040	0.000027809	1
SC	2,000.0	2,067.6	67.607	3.3804	0.031741	0.00027558	1
SD	5,000.0	4,985.0	-14.982	-0.29964	0.076568	0.00042079	1
SE	25,000	24,570	-430.43	-1.7217	0.37743	0.00090673	1
SF	50,000	50,365	365.21	0.73043	0.77337	0.0015360	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ug/L
Date of Calibration:	06/22/2015 12:39:00
Date of Fit:	06/22/2015 16:31:24
Type of Fit:	Linear
Correlation:	0.99965
A0 (Offset):	0.00076586
A1 (Gain):	0.00045197
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.011408	-0.011408	0.00000	0.00076070	0.00010748	1
SA	60.000	65.865	5.8651	9.7751	0.030536	0.00022430	1
SB	200.00	214.03	14.025	7.0125	0.097494	0.00084492	1
SC	2,000.0	2,095.5	95.452	4.7726	0.94777	0.0043446	1
SD	5,000.0	4,977.1	-22.915	-0.45830	2.2503	0.0048599	1
SE	25,000	24,048	-952.29	-3.8092	10.870	0.014423	1
SF	50,000	50,860	859.98	1.7200	22.985	0.41387	1

Sample Name: S0 Acquired: 06/22/2015 12:19:28 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

K/5/20
Joanna C. Sanchez
06/24/2015

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00075**	**.00003**	**.00005**	**.00337**	**-.00008**	**-.00024**	**.00327**
Stddev	.00020	.00020	.00011	.00024	.00016	.00010	.00012
%RSD	26.744	748.54	244.59	7.0075	191.54	39.582	3.6656
#1	.00052	.00022	.00017	.00356	.00004	-.00026	.00320
#2	.00083	-.00019	-.00004	.00311	-.00002	-.00014	.00320
#3	.00091	.00005	.00001	.00343	-.00026	-.00033	.00341

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00052**	**-.00003**	**.00040**	**.00007**	**.00153**	**-.00007**	**.00004**
Stddev	.00014	.00019	.00005	.00003	.00036	.00006	.00005
%RSD	27.578	690.75	12.207	38.803	23.301	78.004	122.28
#1	.00064	.00016	.00045	.00007	.00117	-.00014	.00004
#2	.00054	-.00022	.00035	.00004	.00188	-.00002	-.00001
#3	.00036	-.00002	.00039	.00010	.00154	-.00007	.00008

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00001**	**-.00064**	**-.00028**	**.00031**	**.00002**	**-.00437**	**-.00099**
Stddev	.00008	.00006	.00060	.00018	.00002	.00056	.00015
%RSD	959.92	9.6167	214.18	56.273	76.448	12.888	14.888
#1	-.00011	-.00071	-.00011	.00052	.00001	-.00470	-.00096
#2	.00004	-.00061	.00021	.00019	.00004	-.00470	-.00086
#3	.00004	-.00060	-.00094	.00024	.00001	-.00372	-.00115

Elem	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.00024**	**-.00001**	**.00076**
Stddev	.00005	.00000	.00011
%RSD	20.424	23.507	14.129
#1	.00019	-.00001	.00074
#2	.00029	-.00001	.00088
#3	.00026	-.00001	.00067

Sample Name: S0 Acquired: 06/22/2015 12:19:28 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3552.4**	**29007.**	**460330.**	**4668.7**	**13130.**	**228070.**
Stddev	15.3	128.	4341.	11.4	43.	580.
%RSD	.43083	.44136	.94306	.24392	.32713	.25431
#1	3535.6	28860.	455340.	4656.3	13086.	227480.
#2	3556.0	29091.	462500.	4670.9	13134.	228640.
#3	3565.6	29071.	463170.	4678.8	13171.	228080.

Sample Name: SA Acquired: 06/22/2015 12:22:24 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00127**	**.00611**	**.00099**	**.14327**	**.00222**	**.01324**	**.29304**	**.01127**
Stddev	.00008	.00030	.00006	.00080	.00022	.00020	.00220	.00010
%RSD	6.3538	4.8699	5.7108	.55796	10.003	1.5364	.75121	.84510
#1	.00120	.00580	.00106	.14242	.00197	.01334	.29051	.01118
#2	.00135	.00640	.00098	.14339	.00239	.01338	.29410	.01127
#3	.00125	.00614	.00095	.14400	.00232	.01300	.29451	.01137

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03411**	**.00201**	**.00159**	**.00427**	**.01262**	**.00186**	**.00610**	**.04947**
Stddev	.00025	.00003	.00011	.00030	.00013	.00003	.00007	.00047
%RSD	.74621	1.6931	7.0659	6.9455	1.0354	1.7023	1.2070	.94056
#1	.03391	.00199	.00156	.00429	.01248	.00188	.00606	.04922
#2	.03401	.00205	.00171	.00396	.01266	.00187	.00618	.05001
#3	.03440	.00200	.00149	.00455	.01273	.00182	.00605	.04918

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09664**	**.00220**	**.00071**	**.26705**	**.00285**	**.00272**	**.00081**	**.03054**
Stddev	.00149	.00008	.00002	.00229	.00016	.00014	.00001	.00022
%RSD	1.5379	3.5677	2.8435	.85761	5.4647	5.2575	.87128	.73455
#1	.09579	.00228	.00072	.26449	.00285	.00260	.00082	.03029
#2	.09836	.00212	.00069	.26774	.00301	.00267	.00081	.03060
#3	.09578	.00219	.00073	.26891	.00270	.00288	.00080	.03072

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3426.2**	**29462.**	**456860.**	**4571.9**	**13233.**	**225590.**
Stddev	5.4	168.	3108.	7.7	77.	2015.
%RSD	.15862	.56891	.68031	.16785	.57892	.89332
#1	3426.5	29605.	459430.	4565.1	13303.	227650.
#2	3420.6	29277.	453410.	4570.4	13151.	225490.
#3	3431.5	29503.	457750.	4580.2	13246.	223630.

Sample Name: SB Acquired: 06/22/2015 12:25:19 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00337**	**.01995**	**.00651**	**.51788**	**.03708**	**.20970**	**1.4255**	**.21576**
Stddev	.00005	.00037	.00013	.00309	.00009	.00206	.0066	.00205
%RSD	1.6265	1.8513	1.9567	.59624	.23632	.98391	.46644	.94913
#1	.00330	.01970	.00665	.51451	.03698	.21096	1.4184	.21717
#2	.00340	.02038	.00647	.51855	.03716	.21081	1.4267	.21669
#3	.00340	.01978	.00640	.52058	.03709	.20731	1.4316	.21341

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13453**	**.01343**	**.01512**	**.05077**	**.06274**	**.02283**	**.05056**	**.24676**
Stddev	.00074	.00009	.00012	.00057	.00032	.00014	.00045	.00194
%RSD	.55308	.65501	.82019	1.1305	.50376	.61720	.89349	.78701
#1	.13538	.01335	.01498	.05110	.06245	.02267	.05091	.24839
#2	.13421	.01352	.01521	.05010	.06270	.02287	.05072	.24729
#3	.13400	.01343	.01517	.05110	.06308	.02295	.05005	.24461

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49040**	**.00482**	**.00882**	**1.3618**	**.01155**	**.00859**	**.00320**	**.09749**
Stddev	.00207	.00019	.00005	.0062	.00025	.00015	.00003	.00084
%RSD	.42133	3.8463	.52730	.45579	2.1589	1.7467	.86796	.86664
#1	.48808	.00498	.00877	1.3561	.01152	.00845	.00318	.09830
#2	.49111	.00486	.00883	1.3609	.01181	.00875	.00323	.09756
#3	.49202	.00461	.00887	1.3684	.01131	.00859	.00321	.09662

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3254.9**	**29768.**	**450540.**	**4457.3**	**13167.**	**216070.**
Stddev	9.8	135.	2855.	8.7	55.	1292.
%RSD	.30064	.45333	.63367	.19503	.42068	.59782
#1	3246.0	29824.	453280.	4450.8	13185.	217480.
#2	3253.5	29865.	447580.	4453.8	13211.	214950.
#3	3265.4	29614.	450750.	4467.2	13105.	215790.

Sample Name: SC Acquired: 06/22/2015 12:28:06 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Cr2055	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01439**	**.19549**	**.06169**	**1.3966**	**.38339**	**2.0862**	**2.1710**	**1.3334**
Stddev	.00003	.00027	.00027	.0028	.00043	.0075	.0090	.0012
%RSD	.21761	.14044	.43763	.19940	.11249	.35710	.41335	.09103
#1	.01436	.19544	.06199	1.3955	.38343	2.0943	2.1808	1.3348
#2	.01442	.19524	.06160	1.3998	.38380	2.0848	2.1692	1.3326
#3	.01438	.19578	.06147	1.3945	.38294	2.0796	2.1631	1.3328

Elem	Cu3273	Fe2598	Pb2203	Mn2576	Mo2020	Ni2316	Se1960	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13373**	**.07927**	**.49872**	**.23933**	**.49774**	**2.4447**	**.04133**	**.01793**
Stddev	.00108	.00023	.00232	.00032	.00082	.0063	.00029	.00011
%RSD	.80539	.29361	.46595	.13527	.16526	.25624	.69545	.60989
#1	.13452	.07900	.50032	.23913	.49866	2.4518	.04164	.01806
#2	.13417	.07943	.49980	.23971	.49751	2.4422	.04106	.01789
#3	.13250	.07937	.49606	.23917	.49706	2.4400	.04130	.01786

Elem	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12595**	**.08304**	**.03174**	**.94777**
Stddev	.00030	.00013	.00028	.00434
%RSD	.23708	.15763	.86822	.45840
#1	.12598	.08290	.03176	.95271
#2	.12624	.08309	.03200	.94605
#3	.12565	.08314	.03145	.94455

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3517.6**	**30428.**	**472220.**	**4670.8**	**13242.**	**226470.**
Stddev	6.3	289.	2283.	8.6	128.	826.
%RSD	.18025	.95024	.48353	.18494	.97029	.36455
#1	3511.9	30153.	472890.	4664.2	13118.	225520.
#2	3516.6	30730.	469670.	4667.6	13375.	226900.
#3	3524.4	30402.	474080.	4680.6	13233.	226980.

Sample Name: SD Acquired: 06/22/2015 12:30:45 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12282**	**.47226**	**.15556**	**3.2687**	**.92378**	**4.8891**	**6.9330**	**5.0523**
Stddev	.00054	.00206	.00101	.0150	.00507	.0177	.0435	.0169
%RSD	.44327	.43654	.64678	.46028	.54921	.36311	.62752	.33373
#1	.12342	.47249	.15469	3.2853	.92914	4.8883	6.9750	5.0484
#2	.12236	.47009	.15532	3.2559	.91905	4.8718	6.8881	5.0377
#3	.12267	.47419	.15666	3.2648	.92314	4.9073	6.9360	5.0707

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.2974**	**.31009**	**.73944**	**1.1977**	**.30312**	**.54896**	**1.2022**	**6.0206**
Stddev	.0116	.00359	.00494	.0033	.00149	.00315	.0063	.0236
%RSD	.35038	1.1579	.66864	.27577	.49215	.57338	.52428	.39190
#1	3.2900	.31420	.74365	1.1944	.30463	.55259	1.2006	6.0024
#2	3.2915	.30851	.73399	1.1977	.30164	.54709	1.1969	6.0122
#3	3.3107	.30757	.74066	1.2010	.30310	.54719	1.2092	6.0473

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.4711**	**.10248**	**.03388**	**6.8033**	**.28338**	**.20145**	**.07657**	**2.2503**
Stddev	.0077	.00014	.00042	.0318	.00030	.00124	.00042	.0049
%RSD	.30994	.13204	1.2337	.46691	.10652	.61708	.54957	.21597
#1	2.4795	.10234	.03435	6.8396	.28363	.20256	.07688	2.2472
#2	2.4645	.10248	.03377	6.7805	.28346	.20010	.07609	2.2478
#3	2.4692	.10262	.03353	6.7898	.28305	.20168	.07673	2.2559

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2983.2**	**30027.**	**440900.**	**4360.7**	**12947.**	**208610.**
Stddev	9.2	81.	873.	7.4	24.	1753.
%RSD	.30729	.26823	.19807	.17022	.18257	.84023
#1	2993.0	29997.	441590.	4366.4	12942.	207020.
#2	2981.7	29966.	441190.	4363.4	12927.	208330.
#3	2974.8	30118.	439920.	4352.3	12973.	210490.

Sample Name: SE Acquired: 06/22/2015 12:33:21 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.61101**	**2.4261**	**.80662**	**16.153**	**4.5910**	**23.888**	**13.712**	**24.992**
Stddev	.00415	.0112	.00291	.067	.0316	.038	.066	.051
%RSD	.67995	.45990	.36080	.41348	.68924	.16072	.48040	.20546
#1	.61575	2.4143	.80334	16.077	4.6275	23.851	13.788	24.938
#2	.60930	2.4365	.80890	16.201	4.5746	23.927	13.684	25.040
#3	.60799	2.4274	.80763	16.181	4.5710	23.886	13.665	24.998

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.761**	**1.5724**	**3.6187**	**6.0323**	**.60969**	**2.6854**	**5.9612**	**30.644**
Stddev	.026	.0092	.0155	.0173	.00456	.0185	.0121	.038
%RSD	.15658	.58199	.42919	.28634	.74809	.68758	.20237	.12347
#1	16.747	1.5817	3.6365	6.0187	.61493	2.7066	5.9478	30.622
#2	16.792	1.5722	3.6080	6.0517	.60759	2.6730	5.9712	30.687
#3	16.745	1.5634	3.6117	6.0264	.60656	2.6766	5.9647	30.621

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.0396**	**.51662**	**.07209**	**13.575**	**1.3922**	**.99086**	**.37743**	**10.870**
Stddev	.0150	.00242	.00045	.073	.0031	.00670	.00091	.014
%RSD	.29705	.46824	.61924	.54088	.22275	.67630	.24024	.13269
#1	5.0554	.51389	.07160	13.498	1.3902	.99845	.37676	10.858
#2	5.0256	.51851	.07221	13.644	1.3958	.98577	.37846	10.886
#3	5.0377	.51745	.07247	13.582	1.3907	.98835	.37705	10.865

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2699.0**	**29639.**	**418810.**	**4071.3**	**12732.**	**196860.**
Stddev	3.7	143.	569.	4.0	31.	327.
%RSD	.13793	.48124	.13579	.09751	.24298	.16609
#1	2696.3	29482.	418390.	4073.8	12704.	196630.
#2	2697.4	29675.	418570.	4066.7	12726.	197240.
#3	2703.2	29761.	419450.	4073.4	12765.	196720.

Sample Name: SF Acquired: 06/22/2015 12:36:04 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Sb2068	As1890	Ba4554	Be3131	Cd2144	Cr2055	Co2286	Cu3273
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.0217**	**1.6041**	**32.834**	**9.4379**	**50.489**	**52.370**	**33.070**	**3.3272**
Stddev	.0765	.0249	.628	.0878	.809	1.131	.619	.0124
%RSD	1.5233	1.5534	1.9135	.93069	1.6014	2.1591	1.8712	.37224
#1	5.0942	1.6293	33.070	9.5104	51.304	53.558	33.663	3.3187
#2	5.0292	1.6035	32.122	9.3403	50.476	52.244	33.117	3.3214
#3	4.9418	1.5794	33.311	9.4632	49.687	51.307	32.428	3.3414

Elem	Pb2203	Mn2576	Mo2020	Ni2316	Se1960	Ag3280	Tl1908	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.473**	**5.6964**	**12.645**	**60.068**	**1.0695**	**.14372**	**3.0737**	**2.0172**
Stddev	.194	.0117	.239	1.104	.0154	.00049	.0351	.0041
%RSD	1.5554	.20575	1.8873	1.8383	1.4423	.34065	1.1425	.20214
#1	12.652	5.7005	12.884	61.146	1.0831	.14408	3.1041	2.0148
#2	12.500	5.6832	12.644	60.119	1.0726	.14391	3.0818	2.0149
#3	12.267	5.7055	12.407	58.939	1.0527	.14316	3.0352	2.0219

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.77337**	**22.985**
Stddev	.00154	.414
%RSD	.19861	1.8006
#1	.77167	23.410
#2	.77467	22.963
#3	.77376	22.583

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3305.1**	**30505.**	**460960.**	**4382.7**	**217660.**
Stddev	11.8	243.	1440.	17.2	819.
%RSD	.35629	.79644	.31245	.39216	.37615
#1	3291.9	30412.	459650.	4363.0	216860.
#2	3308.9	30780.	462510.	4394.3	217620.
#3	3314.5	30321.	460730.	4390.9	218500.

Sample Name: S500000 Acquired: 06/22/2015 12:39:14 Type: Cal
Method: ICP08 ISM01.3 2015(v9) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Ca3179	Fe2598	Mg2790	K_7664	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2073**	**26.783**	**7.1166**	**1.2229**	**10.141**	**26.123**
Stddev	.0070	.337	.0262	.0055	.010	.306
%RSD	.57629	1.2595	.36858	.44759	.09482	1.1712
#1	1.2150	26.600	7.1465	1.2293	10.151	25.927
#2	1.2052	27.172	7.1055	1.2200	10.140	26.475
#3	1.2016	26.576	7.0976	1.2195	10.132	25.966

Int. Std.	Sc3613	Y_3710
Units	Cts/S	Cts/S
Avg	**28911.**	**12421.**
Stddev	116.	74.
%RSD	.40043	.59373
#1	28986.	12487.
#2	28777.	12341.
#3	28969.	12433.

Sample Name: ICV1 Acquired: 06/22/2015 12:42:13 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2696.6**	**961.83**	**981.47**	**534.45**	**507.08**	**519.18**	**10612.**	**514.10**	**513.58**
Stddev	76.7	3.24	2.86	3.59	4.99	1.36	89.	1.10	1.33
%RSD	2.8444	.33679	.29145	.67089	.98407	.26269	.84016	.21393	.25810
#1	2765.0	965.00	984.18	537.88	512.12	520.60	10698.	514.99	513.98
#2	2711.0	961.98	978.48	534.74	506.98	517.88	10617.	512.87	512.10
#3	2613.6	958.52	981.75	530.73	502.14	519.07	10520.	514.44	514.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

Elem	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**490.44**	**5409.9**	**1017.3**	**6233.7**	**525.57**	**.82748**	**512.37**	**9831.8**	**959.16**
Stddev	7.80	51.1	2.0	38.9	5.34	.11172	.40	64.0	4.92
%RSD	1.5904	.94499	.19283	.62456	1.0157	13.501	.07843	.65094	.51267
#1	481.45	5456.9	1018.6	6278.5	531.02	.95075	512.80	9877.2	963.01
#2	495.48	5417.3	1015.1	6213.9	525.33	.73291	512.01	9859.6	960.84
#3	494.38	5355.5	1018.4	6208.6	520.35	.79878	512.31	9758.6	953.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value Range									

Elem	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**479.88**	**10288.**	**1083.8**	**6.5844**	**518.25**	**1045.2**
Stddev	8.88	74.	2.1	.9826	2.69	3.1
%RSD	1.8507	.71813	.19449	14.923	.51976	.29658
#1	469.88	10367.	1083.3	5.8853	520.98	1048.8
#2	486.85	10277.	1081.9	7.7078	515.60	1043.7
#3	482.90	10221.	1086.1	6.1601	518.16	1043.2
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value Range						

Sample Name: ICV1 Acquired: 06/22/2015 12:42:13 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3314.1**	**29830.**	**463050.**	**4561.1**	**13100.**	**220910.**
Stddev	2.0	414.	4610.	6.3	195.	1827.
%RSD	.06094	1.3876	.99565	.13750	1.4894	.82694
#1	3314.1	29444.	457790.	4554.2	12919.	222910.
#2	3316.0	29779.	466400.	4562.5	13074.	219330.
#3	3312.0	30267.	464960.	4566.5	13307.	220490.

Sample Name: ICB1 Acquired: 06/22/2015 12:44:56 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.5797**	**2.4355**	**-2.1440**	**-.26467**	**.11629**	**.03062**	**-3.9547**	**-.17676**
Stddev	63.827	1.7487	1.1278	.04415	.13838	.05390	4.9579	.13504
%RSD	2474.2	71.803	52.600	16.683	119.00	176.04	125.37	76.396
#1	36.939	4.2496	-.93884	-.24329	.21969	.08953	.46464	-.11391
#2	31.536	2.2964	-3.1738	-.31545	-.04092	-.01621	-9.3159	-.33177
#3	-76.215	.76043	-2.3194	-.23528	.17008	.01853	-3.0127	-.08460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.04490**	**.37515**	**10.445**	**-3.0057**	**-17.035**	**-.19862**	**.19663**	**.03469**
Stddev	.31891	.45149	4.005	.8981	30.522	.54700	.18233	.26379
%RSD	710.29	120.35	38.341	29.880	179.17	275.40	92.730	760.42
#1	.40256	.60872	12.980	-2.5713	-41.403	-.81154	.01105	.16754
#2	-.20985	.66201	12.528	-4.0384	17.201	-.02432	.37554	-.26911
#3	-.05801	-.14528	5.8284	-2.4074	-26.904	.23998	.20329	.20564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**29.238**	**.74747**	**.04880**	**34.095**	**1.5395**	**.10930**	**.37153**	**.11320**
Stddev	28.202	1.0758	.74666	7.907	2.4065	1.0126	.09798	.02191
%RSD	96.454	143.92	1529.9	23.190	156.32	926.41	26.373	19.356
#1	39.777	1.9895	.45976	36.920	2.8554	1.2756	.26258	.09512
#2	-2.7150	.10800	.49971	40.200	3.0012	-.40241	.39962	.13757
#3	50.653	.14494	-.81305	25.163	-1.2381	-.54529	.45241	.10693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB1 Acquired: 06/22/2015 12:44:56 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3564.8**	**30277.**	**474100.**	**4690.9**	**13434.**	**231380.**
Stddev	8.0	108.	4126.	11.4	30.	1335.
%RSD	.22433	.35826	.87021	.24229	.22299	.57708
#1	3558.6	30152.	475700.	4679.6	13400.	230400.
#2	3573.8	30335.	477180.	4690.9	13458.	232900.
#3	3562.0	30345.	469410.	4702.3	13443.	230840.

Sample Name: ICSA1 Acquired: 06/22/2015 12:47:53 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**263080.**	**11.472**	**7.4753**	**5.8766**	**-.08357**	**.19408**	**253300.**
Stddev	1966.	4.340	3.8833	.0357	.31731	.22242	2106.
%RSD	.74713	37.832	51.949	.60842	379.67	114.60	.83153
#1	260880.	9.9228	11.296	5.9122	.09014	.44789	250940.
#2	263700.	8.1192	7.5971	5.8768	.10895	.03322	253960.
#3	264660.	16.374	3.5325	5.8407	-.44981	.10112	255000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**58.510**	**-2.2066**	**9.0135**	**103430.**	**4.2061**	**259260.**	**17.231**
Stddev	.873	.6399	.3551	901.	4.1342	2290.	.499
%RSD	1.4917	29.000	3.9394	.87160	98.291	.88322	2.8931
#1	59.365	-2.8277	9.4198	102390.	8.3410	256690.	17.338
#2	57.621	-1.5494	8.8581	103840.	.07250	260030.	16.687
#3	58.543	-2.2425	8.7627	104050.	4.2048	261070.	17.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.39696**	**-4.1536**	**63.185**	**-10.446**	**.23905**	**64.333**	**-3.3766**
Stddev	.23789	.8357	77.128	6.830	.79680	9.592	.8036
%RSD	59.929	20.119	122.07	65.385	333.32	14.910	23.799
#1	.14201	-3.1886	140.00	-2.5801	-.15589	70.067	-2.7053
#2	.61300	-4.6431	-14.250	-13.883	1.1562	53.260	-3.1574
#3	.43587	-4.6289	63.801	-14.874	-.28314	69.673	-4.2670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA1 Acquired: 06/22/2015 12:47:53 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**2.5197**	**-1.1157**	**3.0658**
Stddev	1.0125	.5802	.4098
%RSD	40.182	52.005	13.367
#1	1.3988	-1.1598	2.8796
#2	3.3680	-1.6727	3.5356
#3	2.7923	-.51473	2.7822
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2803.3**	**29108.**	**415230.**	**4223.2**	**12825.**	**200800.**
Stddev	22.0	159.	2124.	37.0	75.	616.
%RSD	.78364	.54700	.51142	.87645	.58551	.30686
#1	2778.2	29287.	412920.	4180.5	12909.	200140.
#2	2819.0	29057.	415670.	4244.4	12801.	200890.
#3	2812.7	28981.	417100.	4244.8	12764.	201360.

Sample Name: ICSAB1 Acquired: 06/22/2015 12:50:37 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**267200.**	**599.71**	**102.59**	**555.11**	**527.47**	**1010.6**	**256820.**
Stddev	1126.	3.29	5.01	1.65	.66	2.4	569.
%RSD	.42122	.54781	4.8881	.29659	.12505	.24062	.22175
#1	266720.	601.66	103.60	556.06	527.82	1013.3	257070.
#2	268490.	595.92	107.02	556.07	527.89	1008.7	257220.
#3	266400.	601.56	97.144	553.21	526.71	1009.8	256170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**571.64**	**528.10**	**521.13**	**104950.**	**55.183**	**262710.**	**544.95**
Stddev	1.38	.81	2.63	331.	1.246	738.	1.34
%RSD	.24091	.15411	.50427	.31570	2.2582	.28081	.24521
#1	572.69	529.03	521.11	104930.	54.994	263320.	546.47
#2	570.08	527.56	518.51	105290.	54.041	262910.	543.96
#3	572.15	527.70	523.76	104630.	56.512	261890.	544.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.22166**	**1049.8**	**34.836**	**42.195**	**203.11**	**70.183**	**99.052**
Stddev	.24184	3.6	13.771	1.757	1.18	25.362	.552
%RSD	109.10	.34178	39.532	4.1630	.57886	36.137	.55776
#1	.18551	1053.7	32.121	44.197	203.17	99.468	99.293
#2	-.00007	1046.6	49.763	40.910	201.90	55.687	99.443
#3	.47955	1049.1	22.624	41.478	204.25	55.392	98.420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSAB1 Acquired: 06/22/2015 12:50:37 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**5.8540**	**520.64**	**1017.8**
Stddev	1.3123	4.68	2.8
%RSD	22.416	.89958	.27920
#1	6.0504	515.34	1020.5
#2	4.4546	522.39	1014.8
#3	7.0570	524.20	1018.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2786.2**	**29548.**	**422510.**	**4209.6**	**13033.**	**202350.**
Stddev	7.7	74.	1904.	8.4	22.	367.
%RSD	.27774	.25018	.45071	.20058	.17020	.18155
#1	2779.0	29480.	424680.	4200.3	13008.	202090.
#2	2794.4	29537.	421140.	4216.6	13040.	202200.
#3	2785.0	29627.	421700.	4212.0	13050.	202770.

Sample Name: CCV1 Acquired: 06/22/2015 12:53:16 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**258520.**	**24752.**	**10082.**	**25915.**	**9971.0**	**9745.6**	**250000.**
Stddev	1682.	73.	23.	339.	33.2	14.4	1185.
%RSD	.65047	.29562	.22451	1.3086	.33262	.14750	.47409
#1	260460.	24732.	10083.	26246.	10006.	9739.7	251330.
#2	257690.	24692.	10058.	25568.	9966.4	9735.2	249640.
#3	257420.	24833.	10104.	25930.	9940.4	9762.0	249040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24622.**	**25756.**	**24525.**	**255220.**	**24722.**	**248770.**	**24713.**
Stddev	43.	40.	172.	1549.	37.	577.	150.
%RSD	.17407	.15712	.70093	.60690	.15003	.23214	.60872
#1	24593.	25717.	24327.	256940.	24708.	249440.	24886.
#2	24601.	25753.	24609.	254800.	24694.	248410.	24639.
#3	24671.	25797.	24638.	253930.	24764.	248470.	24613.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9892.2**	**25514.**	**253400.**	**10032.**	**1009.5**	**253200.**	**9539.3**
Stddev	16.2	53.	650.	34.	10.6	3180.	11.8
%RSD	.16336	.20587	.25632	.34063	1.0522	1.2558	.12420
#1	9880.9	25469.	254130.	10012.	1001.3	252230.	9537.2
#2	9885.0	25500.	252890.	10013.	1005.6	250620.	9528.7
#3	9910.7	25571.	253190.	10071.	1021.5	256750.	9552.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV1 Acquired: 06/22/2015 12:53:16 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**10333.**	**25193.**	**24466.**
Stddev	64.	103.	24.
%RSD	.61566	.41053	.09723
#1	10406.	25074.	24449.
#2	10303.	25254.	24454.
#3	10289.	25251.	24493.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2655.1**	**28970.**	**407180.**	**4006.6**	**12765.**	**195410.**
Stddev	2.1	168.	1171.	3.1	59.	97.
%RSD	.07842	.58132	.28756	.07814	.45849	.04971
#1	2657.2	28869.	406250.	4008.5	12729.	195340.
#2	2655.0	29165.	406790.	4008.4	12833.	195360.
#3	2653.0	28878.	408490.	4003.0	12734.	195520.

Sample Name: CCB1 Acquired: 06/22/2015 12:56:01 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.2187**	**.63452**	**1.3508**	**1.3412**	**.84112**	**.18658**	**18.641**	**.45722**
Stddev	17.279	2.6275	1.4335	.3217	.25562	.07805	5.308	.37229
%RSD	1417.8	414.09	106.13	23.985	30.390	41.833	28.475	81.425
#1	15.666	2.3429	1.9987	1.4521	.54605	.27311	13.019	.78863
#2	-17.922	1.9517	-.29232	1.5928	.98249	.16516	19.338	.52862
#3	5.9115	-2.3910	2.3459	.97877	.99482	.12148	23.567	.05440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.33377**	**1.9151**	**18.279**	**-.65670**	**25.784**	**1.8463**	**1.5312**	**.69238**
Stddev	.50263	.2986	13.204	1.7416	4.021	.2060	.2326	.24221
%RSD	150.59	15.592	72.235	265.20	15.594	11.155	15.191	34.982
#1	.67279	2.2222	33.498	-1.0809	30.242	1.7692	1.7400	.58143
#2	.57223	1.6259	11.458	-2.1470	24.679	1.6901	1.2805	.52552
#3	-.24371	1.8971	9.8803	1.2578	22.431	2.0798	1.5732	.97019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**84.063**	**.02885**	**.01626**	**36.512**	**1.4731**	**1.0858**	**.93921**	**.45975**
Stddev	31.242	2.5598	.27903	10.643	2.6410	1.8701	.72686	.53308
%RSD	37.165	8871.9	1716.0	29.148	179.29	172.24	77.390	115.95
#1	53.970	-2.4802	-.25178	32.258	1.3798	2.6465	1.1441	.36074
#2	81.881	2.6366	-.00454	48.624	-1.1201	1.5978	1.5416	1.0354
#3	116.34	-.06986	.30511	28.655	4.1595	-.98703	.13191	-.01688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB1 Acquired: 06/22/2015 12:56:01 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.4**	**29696.**	**465920.**	**4544.6**	**13185.**	**225070.**
Stddev	10.4	148.	4147.	12.3	54.	418.
%RSD	.30230	.49739	.89005	.27150	.41308	.18561
#1	3419.9	29528.	464720.	4530.7	13124.	225130.
#2	3434.4	29750.	462510.	4554.3	13204.	224620.
#3	3440.0	29808.	470540.	4548.7	13229.	225450.

Sample Name: PBS1 Acquired: 06/22/2015 12:59:00 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-6.0703**	**1.8243**	**1.0668**	**-.24173**	**.19418**	**-.00450**	**83.293**	**-.09145**
Stddev	60.066	2.4745	2.0520	.45771	.14678	.09581	1.444	.28067
%RSD	989.50	135.64	192.34	189.34	75.586	2130.1	1.7334	306.90
#1	46.346	-.09644	.28974	-.55662	.29691	.10361	81.812	.16686
#2	7.0567	4.6166	-.48306	-.45189	.02608	-.03817	84.696	-.39011
#3	-71.614	.95263	3.3939	.28331	.25956	-.07893	83.372	-.05110

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.02883**	**.01583**	**8.4390**	**-1.4504**	**-26.303**	**-.31656**	**.33806**	**.00033**
Stddev	.10441	.58026	9.2059	2.2282	8.806	.98218	.12740	.27046
%RSD	362.11	3665.8	109.09	153.62	33.480	310.27	37.687	82642.
#1	.01551	.63455	-1.5453	-1.6150	-30.017	.48551	.19266	.31050
#2	.04609	-.07083	16.591	.85553	-32.643	-1.4120	.39138	-.12328
#3	-.14810	-.51623	10.271	-3.5918	-16.248	-.02320	.43013	-.18624

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**79.062**	**1.5157**	**.27654**	**37.591**	**1.7876**	**.64625**	**.19444**	**.94211**
Stddev	46.449	4.9801	.73837	6.081	1.3354	1.6061	.51307	.05596
%RSD	58.749	328.56	267.01	16.176	74.708	248.52	263.87	5.9396
#1	77.929	-3.5707	-.53412	44.392	1.0415	2.3303	-.21873	1.0066
#2	33.190	6.3821	.91058	32.678	.99188	.47692	.76873	.90592
#3	126.07	1.7357	.45315	35.704	3.3293	-.86845	.03331	.91385

nt. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3424.2**	**30270.**	**468910.**	**4535.4**	**13324.**	**224770.**
Stddev	6.3	85.	2777.	10.3	10.	1980.
%RSD	.18354	.28038	.59218	.22714	.07529	.88077
#1	3417.0	30368.	469600.	4524.4	13334.	226330.
#2	3426.9	30212.	465850.	4536.9	13314.	225450.
#3	3428.7	30230.	471270.	4544.8	13324.	222550.

Sample Name: LCS1 Acquired: 06/22/2015 13:01:58 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**451.78**	**119.38**	**20.156**	**421.85**	**10.102**	**10.422**	**10744.**	**21.635**
Stddev	19.29	1.09	1.199	.67	.341	.124	10.	.163
%RSD	4.2690	.91347	5.9480	.15927	3.3745	1.1925	.09308	.75189
#1	446.13	120.39	21.200	421.21	10.356	10.551	10756.	21.630
#2	473.25	119.53	20.421	421.78	10.235	10.303	10738.	21.800
#3	435.94	118.22	18.847	422.55	9.7147	10.414	10739.	21.475

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**103.29**	**51.016**	**238.52**	**18.567**	**10347.**	**31.361**	**.11867**	**84.208**
Stddev	.78	.960	10.81	3.641	26.	1.054	.19039	.583
%RSD	.75293	1.8811	4.5335	19.611	.25328	3.3620	160.44	.69248
#1	104.06	51.949	233.74	22.222	10347.	30.144	.33647	84.672
#2	102.51	50.031	230.92	14.940	10320.	32.000	.03567	83.554
#3	103.30	51.067	250.90	18.539	10373.	31.939	-.01613	84.399

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9823.7**	**66.791**	**19.280**	**10398.**	**54.714**	**-.75077**	**103.65**	**127.74**
Stddev	29.2	3.527	.140	22.	.606	1.1285	.83	.62
%RSD	.29675	5.2804	.72620	.20946	1.1078	150.31	.80134	.48339
#1	9791.7	70.251	19.325	10418.	55.206	.50352	104.12	127.33
#2	9830.5	66.921	19.123	10400.	54.037	-1.6837	102.69	127.44
#3	9848.8	63.201	19.393	10375.	54.899	-1.0722	104.14	128.45

nt. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.3**	**30528.**	**463490.**	**4479.2**	**13313.**	**223070.**
Stddev	7.6	172.	1694.	11.3	62.	818.
%RSD	.23012	.56271	.36556	.25282	.46359	.36691
#1	3276.1	30436.	463940.	4479.0	13253.	222190.
#2	3289.9	30726.	464910.	4490.6	13377.	223230.
#3	3277.8	30422.	461610.	4468.0	13309.	223800.

Sample Name: MF9M48 Acquired: 06/22/2015 13:04:51 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35358.**	**1.8089**	**26.473**	**327.08**	**3.1299**	**.42511**	**11481.**	**90.103**
Stddev	114.	1.4052	2.689	.48	.0757	.02648	25.	.273
%RSD	.32216	77.684	10.156	.14533	2.4183	6.2292	.22132	.30246
#1	35442.	1.3977	23.390	326.57	3.1836	.42199	11488.	90.271
#2	35403.	.65508	27.699	327.51	3.0434	.45302	11453.	90.249
#3	35228.	3.3738	28.331	327.16	3.1629	.40033	11503.	89.788

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.022**	**43.820**	**64659.**	**101.99**	**5183.2**	**1315.7**	**.85933**	**46.802**
Stddev	.551	.315	31.	2.18	18.4	4.6	.27408	.355
%RSD	2.8956	.71932	.04817	2.1332	.35520	.35252	31.894	.75845
#1	18.387	44.175	64693.	99.630	5173.2	1310.8	.70163	46.394
#2	19.308	43.573	64632.	102.43	5204.5	1320.1	.70055	47.042
#3	19.370	43.712	64653.	103.91	5172.0	1316.2	1.1758	46.970

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7411.3**	**-.71009**	**-1.2920**	**207.55**	**.04664**	**293.99**	**104.56**	**119.98**
Stddev	45.6	3.5156	.2747	10.52	.88749	.61	1.25	.71
%RSD	.61563	495.09	21.264	5.0690	1902.8	.20839	1.1993	.59488
#1	7439.4	-2.5589	-1.0839	195.49	-.94651	293.29	103.24	119.18
#2	7358.7	-2.9155	-1.1887	214.80	.76201	294.25	105.74	120.55
#3	7435.8	3.3442	-1.6034	212.38	.32443	294.43	104.71	120.20

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3284.7**	**30841.**	**465640.**	**4576.1**	**13481.**	**224100.**
Stddev	10.2	61.	1394.	11.9	17.	1141.
%RSD	.31027	.19769	.29941	.26113	.12915	.50926
#1	3274.8	30908.	466410.	4563.2	13500.	224430.
#2	3284.1	30827.	464030.	4578.5	13477.	222840.
#3	3295.1	30789.	466470.	4586.8	13466.	225050.

Sample Name: MF9M48S Acquired: 06/22/2015 13:07:42 Type: RQC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**43583.**	F **71.422**	**102.35**	**4720.6**	**111.51**	**105.13**	**11118.**
Stddev	90.	1.239	2.33	16.0	.54	.32	36.
%RSD	.20617	1.7350	2.2799	.33867	.48578	.30274	.32477
#1	43573.	72.850	100.03	4723.7	111.41	105.47	11120.
#2	43677.	70.633	104.70	4734.8	112.09	104.84	11154.
#3	43498.	70.781	102.30	4703.3	111.02	105.09	11082.
Check ?	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value		200.00					
Range		-25.000%					
	None		75.872	4393.5	108.38	104.71	None
Recovery		69.613	94.840%	109.84%	108.38%	104.71%	
% Recovery		34.806%					

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**514.03**	**1096.9**	**570.07**	**66788.**	**139.33**	**5658.5**	F **3030.4**
Stddev	1.54	2.4	3.49	125.	1.14	36.6	6.2
%RSD	.30025	.21526	.61143	.18698	.81814	.64752	.20322
#1	515.67	1099.3	566.05	66831.	139.14	5653.5	3036.7
#2	512.60	1096.8	572.06	66885.	138.30	5697.3	3030.3
#3	513.83	1094.6	572.11	66647.	140.55	5624.5	3024.3
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Fail
Value							1000.0
Range							25.000%
	423.93	1077.9	526.25	None	37.340	None	
Recovery	105.98%	107.79%	105.25%		93.351%		1714.8
% Recovery							171.48%

Sample Name: MF9M48S Acquired: 06/22/2015 13:07:42 Type: RQC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.81007**	**1124.9**	**7771.0**	**90.854**	**99.750**	**218.37**	**109.09**
Stddev	.28113	2.0	10.4	.802	1.161	11.90	2.45
%RSD	34.704	.17465	.13428	.88242	1.1634	5.4474	2.2428
#1	.49197	1127.1	7767.2	90.175	98.440	232.02	107.35
#2	.91306	1124.2	7763.0	91.738	100.16	210.21	108.04
#3	1.0252	1123.4	7782.8	90.649	100.65	212.88	111.89
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value							
Range							
	None	1078.1	None	91.564	101.04	None	109.05
Recovery		107.81%		91.564%	101.04%		109.05%
% Recovery							

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**302.19**	**1140.7**	**1162.4**
Stddev	1.20	14.1	4.2
%RSD	.39747	1.2366	.35856
#1	301.88	1148.3	1167.2
#2	303.52	1149.4	1160.0
#3	301.19	1124.4	1159.9
Check ?	None	Chk Pass	Chk Pass
Value			
Range			
	None	1036.2	1042.4
Recovery		103.62%	104.24%
% Recovery			

Sample Name: MF9M48S Acquired: 06/22/2015 13:07:42 Type: RQC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3232.8**	**30534.**	**461740.**	**4550.9**	**13382.**	**219610.**
Stddev	15.2	237.	5059.	21.0	91.	1241.
%RSD	.46934	.77568	1.0957	.46153	.68068	.56494
#1	3215.3	30267.	458080.	4527.6	13278.	221040.
#2	3241.8	30718.	459620.	4568.5	13447.	218960.
#3	3241.5	30618.	467510.	4556.6	13421.	218840.

Sample Name: MF9M48D Acquired: 06/22/2015 13:10:24 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41153.**	**.82732**	**26.450**	**345.39**	**3.0863**	**.32158**	**11621.**	**86.147**
Stddev	103.	1.8958	1.369	.41	.3043	.06674	40.	1.435
%RSD	.24969	229.15	5.1761	.11786	9.8579	20.753	.34806	1.6657
#1	41034.	-1.2902	26.951	345.81	2.9001	.36611	11588.	86.921
#2	41208.	1.4053	27.498	345.35	3.4374	.35379	11610.	87.029
#3	41216.	2.3668	24.901	345.00	2.9214	.24485	11666.	84.491

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.278**	**44.769**	**64031.**	**104.65**	**5785.8**	**1311.5**	**.63451**	**48.076**
Stddev	.372	.992	98.	3.42	51.9	.4	.16691	.735
%RSD	1.9288	2.2154	.15261	3.2693	.89706	.03240	26.305	1.5290
#1	19.046	45.730	63920.	107.86	5845.7	1311.1	.67435	48.578
#2	19.707	43.749	64102.	105.06	5757.6	1312.0	.77790	48.417
#3	19.082	44.828	64072.	101.05	5754.2	1311.5	.45129	47.232

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8572.3**	**3.8678**	**-1.4728**	**239.20**	**-.17669**	**334.13**	**104.40**	**119.54**
Stddev	72.2	3.0010	.1495	6.45	2.0613	2.80	.70	2.45
%RSD	.84236	77.590	10.150	2.6984	1166.7	.83932	.67183	2.0509
#1	8510.3	1.5620	-1.4381	243.16	.46634	337.33	104.78	120.38
#2	8555.0	7.2609	-1.3437	231.75	-2.4829	332.98	103.60	121.46
#3	8651.6	2.7805	-1.6366	242.68	1.4865	332.09	104.83	116.78

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.7**	**30855.**	**468260.**	**4608.4**	**13458.**	**220620.**
Stddev	54.9	130.	1155.	67.2	72.	607.
%RSD	1.6802	.42289	.24656	1.4592	.53586	.27523
#1	3230.4	30842.	467850.	4565.0	13469.	220490.
#2	3240.0	30992.	467380.	4574.4	13523.	220080.
#3	3329.9	30732.	469570.	4685.9	13380.	221280.

Sample Name: MF9M48L Acquired: 06/22/2015 13:13:15 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7083.3**	**-.38608**	**5.0289**	**65.748**	**.66369**	**.00051**	**2289.6**	**17.672**
Stddev	73.4	2.0710	1.1351	.336	.17157	.07115	23.9	.306
%RSD	1.0356	536.42	22.572	.51139	25.851	13980.	1.0458	1.7343
#1	7157.8	1.4413	4.0973	65.524	.85618	-.08163	2302.3	17.955
#2	7081.0	-2.6357	6.2932	66.135	.52688	.04311	2304.6	17.715
#3	7011.1	.03611	4.6961	65.585	.60800	.04004	2262.0	17.347

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.7253**	**9.2353**	**13049.**	**18.870**	**1030.8**	**265.40**	**-.42850**	**9.1183**
Stddev	.3267	.5345	47.	1.114	56.0	1.91	.52153	.5186
%RSD	8.7695	5.7876	.35988	5.9026	5.4305	.72103	121.71	5.6877
#1	3.7778	9.5840	13101.	17.757	1029.0	267.49	-.50049	9.3650
#2	4.0226	9.5019	13035.	19.985	1087.7	264.98	-.91030	9.4675
#3	3.3755	8.6199	13010.	18.867	975.79	263.73	.12528	8.5223

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1510.7**	**2.8598**	**-.69510**	**64.980**	**2.7038**	**57.373**	**20.779**	**23.600**
Stddev	31.3	1.9897	.41985	15.004	.5450	1.286	.137	.868
%RSD	2.0739	69.574	60.401	23.090	20.155	2.2419	.66049	3.6764
#1	1546.3	5.1358	-.34007	81.557	2.3954	56.291	20.817	24.544
#2	1498.0	1.9935	-.58672	61.052	2.3829	58.795	20.893	22.838
#3	1487.7	1.4501	-1.1585	52.331	3.3330	57.032	20.626	23.418

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.4**	**31329.**	**481160.**	**4745.0**	**13715.**	**231410.**
Stddev	2.6	122.	994.	4.1	82.	1160.
%RSD	.07290	.39091	.20660	.08642	.59548	.50147
#1	3581.3	31192.	481840.	4742.4	13628.	232560.
#2	3577.4	31369.	480020.	4749.7	13728.	230240.
#3	3582.4	31427.	481620.	4742.9	13790.	231430.

Sample Name: MF9M49 Acquired: 06/22/2015 13:16:10 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26836.**	**2.4896**	**22.824**	**233.18**	**2.4104**	**.27712**	**11012.**	**63.861**
Stddev	175.	1.9317	2.511	1.11	.1529	.07158	54.	.402
%RSD	.65156	77.591	11.004	.47785	6.3441	25.830	.48814	.62950
#1	26738.	4.6668	21.681	232.10	2.4970	.19706	10966.	64.325
#2	26732.	.98124	25.703	233.11	2.5004	.33492	11000.	63.658
#3	27038.	1.8207	21.087	234.32	2.2338	.29939	11071.	63.602

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.227**	**41.389**	**50468.**	**73.477**	**5076.1**	**878.49**	**.55679**	**42.053**
Stddev	.655	.403	105.	3.299	39.3	3.64	.12898	.560
%RSD	4.0368	.97443	.20826	4.4898	.77361	.41428	23.165	1.3326
#1	16.304	41.596	50352.	76.929	5118.2	874.92	.41364	42.193
#2	16.841	41.647	50494.	70.355	5040.4	878.35	.59277	41.436
#3	15.537	40.924	50557.	73.149	5069.6	882.20	.66397	42.531

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5673.9**	**2.4359**	**-1.1161**	**365.95**	**-.07808**	**267.60**	**75.615**	**114.69**
Stddev	41.2	2.1325	.4762	10.39	1.9025	1.67	.401	.57
%RSD	.72651	87.544	42.667	2.8404	2436.5	.62411	.53003	.49436
#1	5645.2	2.7765	-.58322	364.24	2.0622	265.69	75.866	115.22
#2	5655.4	4.3776	-1.5000	377.09	-.71935	268.35	75.153	114.77
#3	5721.2	.15360	-1.2649	356.52	-1.5771	268.76	75.826	114.09

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3274.5**	**30701.**	**462940.**	**4534.6**	**13407.**	**219460.**
Stddev	6.7	212.	3634.	13.4	109.	320.
%RSD	.20387	.68995	.78489	.29442	.81516	.14587
#1	3267.2	30946.	463010.	4520.2	13533.	219650.
#2	3280.4	30587.	466550.	4537.3	13349.	219630.
#3	3276.0	30572.	459280.	4546.5	13339.	219090.

Sample Name: MF9M50 Acquired: 06/22/2015 13:19:02 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39632.**	**1.4132**	**31.895**	**356.86**	**4.2278**	**.14623**	**29988.**	**89.858**
Stddev	43.	1.7914	1.638	.38	.2752	.09325	58.	.152
%RSD	.10852	126.75	5.1362	.10656	6.5088	63.769	.19435	.16887
#1	39587.	1.3666	32.051	356.53	4.1913	.04355	29960.	89.914
#2	39673.	3.2275	33.450	357.28	4.5194	.16950	30055.	89.974
#3	39636.	-.35433	30.184	356.76	3.9727	.22563	29949.	89.686

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.120**	**52.581**	**93256.**	**88.570**	**8768.7**	**1179.5**	**.62627**	**95.127**
Stddev	.283	.784	162.	.686	39.3	1.7	.35964	.160
%RSD	1.0829	1.4904	.17417	.77478	.44776	.14153	57.425	.16820
#1	26.047	52.043	93255.	89.331	8747.1	1177.6	.73201	95.130
#2	26.432	53.480	93420.	87.999	8745.0	1180.5	.22562	94.966
#3	25.880	52.219	93095.	88.381	8814.0	1180.5	.92119	95.286

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8539.0**	**-2.5798**	**-1.1768**	**461.33**	**-1.9619**	**388.44**	**124.36**	**159.71**
Stddev	29.2	3.8258	.4241	4.09	2.2166	.51	.53	.72
%RSD	.34237	148.29	36.034	.88637	112.98	.13252	.42740	.45326
#1	8520.0	-3.0711	-1.1856	457.33	.59170	388.43	123.98	160.42
#2	8572.7	-6.1363	-.74847	465.51	-3.0876	387.93	124.13	159.74
#3	8524.3	1.4678	-1.5965	461.17	-3.3897	388.96	124.97	158.97

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3207.9**	**30367.**	**456410.**	**4557.5**	**13306.**	**218840.**
Stddev	16.0	79.	2113.	24.3	42.	689.
%RSD	.49981	.25884	.46289	.53403	.31267	.31504
#1	3192.7	30299.	458810.	4538.7	13298.	219520.
#2	3206.3	30349.	455550.	4548.8	13270.	218140.
#3	3224.7	30453.	454860.	4585.0	13351.	218850.

Sample Name: MF9M51 Acquired: 06/22/2015 13:21:52 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35024.**	**6.9294**	**17.790**	**439.41**	**2.5499**	**7.6515**	**16633.**	**76.206**
Stddev	117.	1.7873	2.924	1.97	.2423	.0292	24.	.188
%RSD	.33535	25.793	16.434	.44942	9.5031	.38197	.14437	.24671
#1	34905.	5.5056	16.495	437.54	2.4024	7.6178	16609.	76.414
#2	35140.	8.9352	21.138	439.21	2.4176	7.6691	16658.	76.155
#3	35028.	6.3475	15.737	441.48	2.8295	7.6677	16633.	76.048

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.314**	**69.096**	**47902.**	**358.29**	**5489.3**	**1790.4**	**1.8597**	**31.198**
Stddev	.281	.950	250.	2.60	41.5	5.8	.3767	.368
%RSD	1.8365	1.3745	.52214	.72435	.75554	.32481	20.258	1.1805
#1	14.997	68.327	47650.	361.29	5463.8	1784.6	1.9907	31.549
#2	15.533	68.802	48150.	356.82	5467.0	1790.2	2.1534	31.230
#3	15.413	70.157	47908.	356.77	5537.2	1796.2	1.4349	30.814

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6372.1**	**1.1407**	**-.95138**	**155.84**	**.05220**	**385.98**	**87.069**	**2160.8**
Stddev	52.6	2.6067	.33935	22.13	1.7328	1.55	1.380	5.0
%RSD	.82576	228.52	35.669	14.200	3319.2	.40044	1.5854	.23200
#1	6382.3	-1.7238	-1.1089	148.95	2.0471	384.20	86.611	2166.3
#2	6418.9	1.7723	-1.1833	180.59	-.81132	386.89	85.976	2156.4
#3	6315.2	3.3735	-.56190	137.98	-1.0791	386.86	88.621	2159.7

nt. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3253.3**	**30534.**	**457920.**	**4562.2**	**13461.**	**220960.**
Stddev	10.4	40.	4029.	10.0	24.	256.
%RSD	.32046	.13234	.87980	.21909	.17470	.11599
#1	3243.8	30531.	459990.	4552.2	13442.	221180.
#2	3251.6	30575.	460500.	4562.1	13455.	220680.
#3	3264.4	30494.	453280.	4572.2	13487.	221020.

Sample Name: MF9M52 Acquired: 06/22/2015 13:24:41 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41522.**	**4.0578**	**24.498**	**594.17**	**3.2825**	**2.1441**	**22459.**	**83.746**
Stddev	50.	.9277	.357	1.61	.1576	.0152	80.	.380
%RSD	.12131	22.862	1.4585	.27063	4.8007	.71104	.35821	.45399
#1	41531.	3.7454	24.168	593.43	3.1326	2.1289	22400.	84.022
#2	41568.	3.3267	24.877	596.02	3.4468	2.1438	22551.	83.904
#3	41468.	5.1014	24.450	593.07	3.2681	2.1594	22427.	83.313

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.154**	**87.484**	**64988.**	**481.76**	**7032.4**	**2324.2**	**1.8887**	**38.749**
Stddev	.070	1.270	159.	3.41	25.0	11.5	.3147	.352
%RSD	.36654	1.4516	.24413	.70723	.35559	.49530	16.662	.90856
#1	19.235	88.820	64856.	485.69	7043.4	2327.1	2.0011	38.510
#2	19.116	87.340	65164.	479.61	7003.8	2334.0	1.5332	38.583
#3	19.111	86.293	64943.	479.97	7050.0	2311.5	2.1317	39.153

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7523.8**	**3.4208**	**-1.2528**	**186.76**	**-1.4913**	**431.84**	**109.43**	**544.17**
Stddev	11.9	5.7352	.1833	3.75	3.0349	.49	1.06	3.83
%RSD	.15841	167.66	14.628	2.0071	203.51	.11434	.97260	.70466
#1	7510.1	2.1636	-1.0576	185.36	-3.1838	431.72	110.55	546.48
#2	7529.1	9.6803	-1.4211	191.01	-3.3025	432.38	109.31	546.28
#3	7532.0	-1.5815	-1.2796	183.92	2.0124	431.41	108.43	539.74

nt. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3288.3**	**30391.**	**459280.**	**4626.6**	**13675.**	**224620.**
Stddev	8.3	55.	2535.	13.6	26.	1243.
%RSD	.25145	.18023	.55191	.29368	.19204	.55324
#1	3281.7	30411.	458860.	4613.3	13700.	223520.
#2	3285.6	30329.	456980.	4626.0	13648.	224390.
#3	3297.5	30433.	462000.	4640.5	13677.	225970.

Sample Name: MF9M54 Acquired: 06/22/2015 13:27:30 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41176.**	**5.4382**	**27.381**	**414.73**	**2.7127**	**1.3063**	**16647.**	**86.637**
Stddev	23.	.8873	1.833	2.18	.0887	.0152	49.	.215
%RSD	.05557	16.316	6.6953	.52673	3.2696	1.1628	.29259	.24778
#1	41201.	4.4147	28.347	415.50	2.7476	1.3238	16700.	86.883
#2	41172.	5.9915	28.529	416.43	2.7786	1.2989	16638.	86.486
#3	41156.	5.9084	25.267	412.27	2.6119	1.2963	16604.	86.543

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.952**	**58.103**	**58967.**	**160.23**	**6429.6**	**1678.3**	**.92064**	**39.392**
Stddev	.432	.460	9.	1.45	6.3	5.7	.13195	.643
%RSD	2.7081	.79131	.01443	.90507	.09765	.34164	14.333	1.6328
#1	16.430	57.759	58957.	158.56	6429.9	1678.3	.88228	39.011
#2	15.836	58.625	58970.	161.01	6435.7	1684.0	1.0675	39.030
#3	15.590	57.925	58973.	161.13	6423.2	1672.5	.81211	40.134

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7656.3**	**.77152**	**-1.1697**	**175.34**	**-.14324**	**315.23**	**104.06**	**319.52**
Stddev	45.2	1.6365	.3111	2.10	1.3535	1.34	1.59	1.31
%RSD	.59098	212.12	26.600	1.1982	944.91	.42636	1.5241	.40907
#1	7648.7	2.3852	-1.2214	176.97	.68280	316.78	102.80	320.62
#2	7704.8	-.88689	-.83597	176.08	.59275	314.36	103.53	318.08
#3	7615.3	.81622	-1.4518	172.97	-1.7053	314.55	105.84	319.87

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3292.7**	**30495.**	**455940.**	**4604.9**	**13743.**	**225760.**
Stddev	7.1	45.	2178.	1.5	13.	1217.
%RSD	.21570	.14820	.47761	.03153	.09642	.53887
#1	3292.6	30513.	458430.	4605.1	13741.	226990.
#2	3285.6	30528.	454350.	4603.3	13757.	224560.
#3	3299.8	30443.	455050.	4606.2	13731.	225740.

Sample Name: MF9M55 Acquired: 06/22/2015 13:30:19 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**37178.**	**3.1302**	**22.002**	**346.34**	**2.3806**	**.51876**	**17353.**	**76.485**
Stddev	178.	4.4634	.188	.83	.2025	.05174	59.	.658
%RSD	.47950	142.59	.85391	.23930	8.5052	9.9740	.33759	.85999
#1	37354.	1.8408	21.939	346.58	2.1600	.52669	17420.	76.641
#2	37181.	-.54653	22.213	347.02	2.4237	.56609	17325.	77.051
#3	36998.	8.0963	21.854	345.42	2.5580	.46352	17314.	75.763

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.549**	**41.380**	**57682.**	**81.858**	**6179.5**	**1444.2**	**1.0590**	**34.266**
Stddev	1.081	.664	181.	1.695	49.3	8.2	.2281	.277
%RSD	6.5347	1.6040	.31342	2.0707	.79702	.56514	21.541	.80701
#1	17.723	42.107	57822.	83.696	6171.9	1451.5	.79678	34.397
#2	16.331	40.806	57746.	81.524	6232.1	1445.7	1.1685	34.453
#3	15.593	41.229	57478.	80.355	6134.5	1435.4	1.2117	33.949

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6335.0**	**1.1461**	**-1.1345**	**496.13**	**-1.2791**	**331.59**	**97.362**	**257.78**
Stddev	79.4	2.9177	.3213	2.09	1.9782	2.67	1.945	1.61
%RSD	1.2529	254.58	28.322	.42032	154.65	.80642	1.9972	.62350
#1	6411.0	-.02322	-.93340	493.79	.25795	328.50	97.109	259.47
#2	6252.7	4.4670	-.96507	496.80	-.58430	333.21	99.421	257.60
#3	6341.2	-1.0056	-1.5051	497.79	-3.5110	333.05	95.557	256.27

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3327.2**	**30851.**	**465910.**	**4663.0**	**13652.**	**222070.**
Stddev	9.8	122.	2908.	16.5	58.	1296.
%RSD	.29519	.39524	.62421	.35350	.42569	.58356
#1	3320.4	30889.	464450.	4645.3	13668.	220910.
#2	3322.6	30950.	464030.	4665.9	13701.	221830.
#3	3338.4	30715.	469260.	4677.9	13588.	223470.

Sample Name: MF9M56 Acquired: 06/22/2015 13:33:09 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39626.**	**3.2594**	**21.937**	**266.28**	**2.7575**	**-.05416**	**8247.7**	**79.746**
Stddev	105.	.9352	.838	.70	.2650	.09841	1.2	.646
%RSD	.26485	28.692	3.8218	.26307	9.6088	181.70	.01479	.80977
#1	39678.	4.1143	22.621	265.47	2.6531	-.15446	8246.5	80.335
#2	39695.	2.2607	21.002	266.70	2.5607	.04225	8247.7	79.848
#3	39505.	3.4031	22.189	266.68	3.0588	-.05028	8248.9	79.055

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13.890**	**36.336**	**57858.**	**41.614**	**5593.2**	**607.59**	**.59001**	**42.322**
Stddev	.405	.191	43.	1.412	29.9	1.25	.46104	.420
%RSD	2.9141	.52516	.07473	3.3923	.53455	.20537	78.140	.99138
#1	14.214	36.409	57871.	42.306	5611.9	607.16	.60683	42.797
#2	13.437	36.120	57809.	39.990	5609.0	609.00	.12080	42.002
#3	14.020	36.480	57893.	42.546	5558.7	606.61	1.0424	42.168

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6315.9**	**.87025**	**-1.2099**	**236.12**	**-1.0636**	**292.73**	**95.100**	**55.987**
Stddev	39.0	5.1873	.4111	4.98	2.9991	1.66	1.259	.737
%RSD	.61813	596.07	33.979	2.1104	281.98	.56689	1.3241	1.3163
#1	6271.2	-2.4181	-.99768	235.39	-2.8448	290.88	93.791	56.653
#2	6333.0	6.8501	-.94821	241.43	-2.7450	294.08	96.302	56.112
#3	6343.4	-1.8212	-1.6837	231.54	2.3990	293.24	95.206	55.195

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3311.2**	**31009.**	**468510.**	**4630.0**	**13565.**	**221650.**
Stddev	20.3	117.	286.	22.4	59.	1030.
%RSD	.61368	.37834	.06115	.48448	.43669	.46457
#1	3289.5	30898.	468700.	4610.4	13502.	222680.
#2	3314.3	30996.	468180.	4625.1	13576.	220620.
#3	3329.8	31132.	468660.	4654.4	13619.	221660.

Sample Name: MF9M57 Acquired: 06/22/2015 13:36:00 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**50639.**	**4.0895**	**25.171**	**358.18**	**3.8747**	**-.06527**	**14793.**	**121.13**
Stddev	38.	2.7482	1.108	.88	.2650	.08111	22.	.67
%RSD	.07426	67.202	4.4016	.24702	6.8382	124.27	.15021	.54914
#1	50671.	7.2525	24.420	359.12	4.0908	-.14803	14819.	121.79
#2	50649.	2.2857	26.443	358.06	3.9541	.01408	14783.	121.15
#3	50598.	2.7303	24.649	357.36	3.5791	-.06187	14777.	120.46

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**15.275**	**43.965**	**78930.**	**36.341**	**9580.6**	**710.46**	**.76671**	**65.328**
Stddev	.344	.384	214.	2.119	44.9	4.07	.36060	.639
%RSD	2.2504	.87256	.27063	5.8311	.46824	.57264	47.033	.97743
#1	15.004	44.345	79140.	38.514	9614.4	706.06	.72135	66.064
#2	15.661	43.578	78937.	34.281	9529.7	711.25	1.1478	64.921
#3	15.158	43.972	78713.	36.228	9597.6	714.08	.43093	64.998

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6240.6**	**2.4218**	**-1.1276**	**293.69**	**-1.5853**	**326.61**	**127.73**	**51.672**
Stddev	41.1	8.6938	.2629	9.64	.4711	1.94	.55	.120
%RSD	.65865	358.98	23.313	3.2825	29.718	.59406	.42918	.23228
#1	6278.6	10.433	-1.2275	289.99	-1.6344	328.72	128.35	51.639
#2	6196.9	-6.8226	-1.3258	304.64	-1.0915	326.22	127.51	51.573
#3	6246.2	3.6547	-.82939	286.45	-2.0299	324.89	127.33	51.806

nt. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.0**	**30640.**	**462040.**	**4601.0**	**13567.**	**222560.**
Stddev	14.6	71.	2414.	12.6	51.	1453.
%RSD	.44622	.23251	.52253	.27328	.37952	.65282
#1	3251.9	30558.	461890.	4593.7	13507.	221680.
#2	3265.2	30673.	459710.	4593.8	13594.	224240.
#3	3281.0	30688.	464530.	4615.6	13599.	221760.

Sample Name: MF9M58 Acquired: 06/22/2015 13:38:52 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**64956.**	**2.3896**	**83.942**	**897.08**	**10.012**	**-.08771**	**9032.6**
Stddev	378.	3.4226	3.005	4.98	.342	.07387	25.1
%RSD	.58218	143.23	3.5804	.55488	3.4156	84.219	.27772
#1	64521.	4.9723	87.268	891.34	10.122	-.04019	9005.9
#2	65199.	-1.4924	81.422	900.22	10.286	-.05012	9055.7
#3	65149.	3.6890	83.134	899.67	9.6290	-.17281	9036.2

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**217.41**	**286.81**	**62.534**	**195990.**	**72.418**	**7276.1**	**16540.**
Stddev	.62	1.44	.812	717.	4.092	51.3	58.
%RSD	.28323	.50381	1.2984	.36604	5.6508	.70513	.35258
#1	217.85	288.20	63.421	195170.	71.596	7237.1	16473.
#2	217.67	285.31	61.827	196290.	76.859	7257.0	16570.
#3	216.71	286.92	62.355	196500.	68.799	7334.2	16577.

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.0273**	**158.12**	**6961.5**	**5.3740**	**-2.7301**	**478.34**	**-8.0579**
Stddev	.0896	.65	44.6	5.3228	.5041	7.78	4.5704
%RSD	4.4213	.41196	.64135	99.047	18.464	1.6257	56.720
#1	1.9349	158.82	6931.7	7.8017	-3.2905	480.63	-11.834
#2	2.1139	158.01	6940.0	9.0500	-2.3138	484.71	-9.3628
#3	2.0331	157.53	7012.8	-.72980	-2.5858	469.67	-2.9769

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**322.96**	**303.41**	**51.556**
Stddev	1.73	1.99	.591
%RSD	.53533	.65651	1.1455
#1	322.18	303.58	50.882
#2	324.94	305.30	51.804
#3	321.75	301.33	51.983

Sample Name: MF9M58 Acquired: 06/22/2015 13:38:52 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3220.5**	**31537.**	**466560.**	**4639.4**	**13888.**	**225550.**
Stddev	17.2	57.	2126.	15.4	45.	1411.
%RSD	.53423	.18057	.45571	.33107	.32212	.62560
#1	3200.9	31478.	468070.	4626.3	13839.	224830.
#2	3233.3	31591.	464130.	4635.7	13927.	227180.
#3	3227.2	31543.	467480.	4656.3	13896.	224650.

Sample Name: MF9M59 Acquired: 06/22/2015 13:41:39 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**29220.**	**4.4058**	**24.044**	**436.15**	**2.3750**	**1.9229**	**48261.**	**70.108**
Stddev	120.	3.5810	1.090	1.78	.1530	.1171	50.	.341
%RSD	.41064	81.280	4.5341	.40927	6.4427	6.0879	.10417	.48623
#1	29351.	5.6795	23.557	435.67	2.5431	1.9794	48305.	70.364
#2	29191.	.36202	25.293	438.13	2.2438	1.7883	48271.	70.239
#3	29117.	7.1758	23.282	434.66	2.3381	2.0010	48206.	69.721

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**18.039**	**59.178**	**52523.**	**273.47**	**19860.**	**2926.1**	**2.2062**	**33.969**
Stddev	.438	.343	72.	2.48	48.	10.4	.2879	.276
%RSD	2.4283	.57891	.13619	.90707	.24025	.35663	13.049	.81145
#1	17.689	59.066	52578.	272.71	19907.	2926.5	1.8760	33.686
#2	18.530	58.906	52442.	276.24	19812.	2936.3	2.4040	34.236
#3	17.898	59.563	52550.	271.45	19861.	2915.4	2.3387	33.984

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5683.6**	**5.2474**	**-.90567**	**192.71**	**-1.0563**	**395.71**	**85.855**	**431.00**
Stddev	67.2	.2854	.21764	8.65	.4749	1.60	.632	1.64
%RSD	1.1815	5.4399	24.031	4.4882	44.960	.40501	.73591	.38092
#1	5759.2	4.9225	-1.1405	183.90	-1.1697	393.90	86.227	432.73
#2	5631.0	5.4582	-.86591	201.18	-.53493	396.29	85.125	429.46
#3	5660.5	5.3613	-.71066	193.06	-1.4642	396.95	86.213	430.81

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3243.8**	**31485.**	**468830.**	**4627.4**	**13791.**	**224080.**
Stddev	11.2	91.	1357.	15.5	34.	1031.
%RSD	.34581	.28760	.28940	.33581	.24761	.46011
#1	3231.2	31446.	468140.	4610.1	13753.	222890.
#2	3252.8	31421.	470400.	4631.9	13800.	224670.
#3	3247.5	31589.	467960.	4640.2	13820.	224670.

Sample Name: MF9M60 Acquired: 06/22/2015 13:44:27 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**42854.**	**3.8843**	**32.263**	**489.74**	**3.8506**	**.26218**	**16714.**	**102.12**
Stddev	76.	1.8703	1.749	1.43	.1429	.20342	27.	.35
%RSD	.17744	48.149	5.4199	.29196	3.7119	77.587	.16197	.34720
#1	42785.	6.0209	32.597	488.29	3.6857	.40931	16713.	102.32
#2	42936.	2.5436	33.821	491.15	3.9393	.03005	16741.	102.33
#3	42841.	3.0885	30.372	489.78	3.9267	.34720	16687.	101.71

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**32.364**	**53.301**	**79234.**	**124.59**	**7363.4**	**2841.2**	**1.3545**	**60.835**
Stddev	.736	.858	85.	.66	25.2	1.9	.2638	.357
%RSD	2.2740	1.6105	.10735	.53086	.34161	.06772	19.479	.58705
#1	33.177	52.375	79186.	124.16	7386.0	2839.1	1.1592	61.243
#2	32.172	53.457	79332.	125.35	7336.3	2842.8	1.6546	60.686
#3	31.743	54.070	79183.	124.27	7367.9	2841.9	1.2496	60.577

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7295.6**	**-2.4064**	**-1.0608**	**394.07**	**-3.1900**	**363.63**	**120.91**	**133.47**
Stddev	34.4	2.7694	.2145	15.19	1.5060	2.22	1.31	.80
%RSD	.47130	115.08	20.216	3.8547	47.210	.61165	1.0853	.59947
#1	7274.6	.69084	-1.2870	385.79	-2.7906	366.01	119.39	133.81
#2	7276.9	-4.6442	-.86043	384.82	-1.9240	361.61	121.64	134.06
#3	7335.3	-3.2659	-1.0350	411.60	-4.8555	363.27	121.69	132.56

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3233.7**	**30683.**	**466260.**	**4562.1**	**13560.**	**222390.**
Stddev	7.5	110.	2245.	18.9	38.	1370.
%RSD	.23277	.35968	.48154	.41333	.28143	.61584
#1	3225.2	30608.	466930.	4548.5	13527.	222690.
#2	3236.2	30810.	463750.	4554.1	13602.	223580.
#3	3239.6	30631.	468090.	4583.6	13550.	220900.

Sample Name: MF9M61 Acquired: 06/22/2015 13:47:18 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**36110.**	**2.0282**	**25.997**	**260.63**	**3.4737**	**-.04957**	**8262.7**	**83.724**
Stddev	182.	1.0704	1.459	1.73	.1340	.05811	13.4	.394
%RSD	.50286	52.774	5.6116	.66319	3.8563	117.24	.16225	.47011
#1	35928.	2.0305	27.112	259.17	3.4987	-.06100	8247.8	84.171
#2	36111.	3.0974	24.346	260.19	3.3289	-.10112	8274.0	83.574
#3	36291.	.95670	26.533	262.54	3.5933	.01341	8266.2	83.428

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**14.862**	**43.213**	**62155.**	**44.459**	**5526.7**	**548.09**	**.42772**	**48.504**
Stddev	.576	.474	85.	2.146	4.5	2.29	.31299	.352
%RSD	3.8765	1.0970	.13694	4.8265	.08136	.41807	73.177	.72650
#1	15.163	42.700	62056.	42.057	5522.9	545.58	.78330	48.911
#2	15.225	43.302	62209.	45.134	5531.7	548.62	.30593	48.314
#3	14.197	43.636	62199.	46.186	5525.6	550.07	.19393	48.287

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5374.3**	**.28137**	**-1.4896**	**351.30**	**-.69124**	**297.11**	**98.807**	**57.267**
Stddev	52.0	1.3259	.1860	16.10	1.2554	2.34	.753	.275
%RSD	.96821	471.22	12.487	4.5828	181.62	.78896	.76230	.48010
#1	5329.0	-.61759	-1.3107	354.35	-1.6531	295.25	98.172	56.952
#2	5431.1	-.34238	-1.4761	333.89	-1.1496	299.74	98.610	57.389
#3	5362.8	1.8041	-1.6820	365.66	.72897	296.33	99.639	57.460

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3244.0**	**31057.**	**466130.**	**4557.4**	**13560.**	**222740.**
Stddev	6.0	180.	1492.	13.6	41.	1188.
%RSD	.18497	.57872	.32006	.29857	.29884	.53355
#1	3245.7	31259.	467670.	4559.1	13606.	223910.
#2	3237.3	30997.	464690.	4543.0	13544.	222770.
#3	3249.0	30915.	466040.	4570.1	13530.	221540.

Sample Name: MF9M62 Acquired: 06/22/2015 13:50:08 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**56609.**	**5.9250**	**188.41**	**4410.7**	**11.972**	**-1.5767**	**8096.8**
Stddev	77.	3.7911	5.24	5.9	.113	.0588	22.4
%RSD	.13682	63.985	2.7798	.13443	.94590	3.7283	.27660
#1	56698.	8.5751	187.88	4416.5	11.841	-1.5189	8118.5
#2	56569.	1.5824	183.46	4411.1	12.027	-1.6364	8098.1
#3	56559.	7.6173	193.90	4404.6	12.047	-1.5748	8073.8

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**480.31**	**179.57**	**129.95**	**347240.**	**62.020**	**5993.6**	**20344.**
Stddev	1.46	1.20	1.21	669.	1.243	36.5	38.
%RSD	.30350	.66772	.92823	.19276	2.0040	.60930	.18654
#1	481.93	180.17	129.99	348010.	63.455	6023.1	20383.
#2	479.92	180.35	131.13	346760.	61.315	5952.8	20341.
#3	479.09	178.19	128.72	346950.	61.290	6004.9	20307.

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4.5111**	**108.22**	**5720.0**	**.09256**	**-1.6827**	**433.13**	**-15.818**
Stddev	.3684	.17	26.9	2.1040	.2537	10.51	1.953
%RSD	8.1662	.15326	.47104	2273.1	15.075	2.4269	12.348
#1	4.8814	108.09	5737.5	2.1234	-1.8883	432.14	-15.146
#2	4.5073	108.40	5733.7	-2.0778	-1.7605	444.09	-14.290
#3	4.1446	108.15	5689.0	.23206	-1.3992	423.14	-18.019

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**321.55**	**421.19**	**44.056**
Stddev	1.11	4.35	.923
%RSD	.34642	1.0332	2.0960
#1	320.28	418.62	44.628
#2	322.38	426.22	44.549
#3	321.98	418.74	42.990

Sample Name: MF9M62 Acquired: 06/22/2015 13:50:08 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3150.3**	**30808.**	**457300.**	**4577.2**	**13551.**	**219820.**
Stddev	7.3	145.	4879.	10.4	55.	1277.
%RSD	.23033	.47087	1.0669	.22669	.40935	.58113
#1	3142.3	30870.	459860.	4565.6	13578.	219190.
#2	3152.2	30642.	451670.	4580.4	13487.	218980.
#3	3156.4	30911.	460370.	4585.6	13587.	221290.

Sample Name: MF9M63 Acquired: 06/22/2015 13:52:56 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**51555.**	**4.4046**	**27.798**	**427.46**	**3.5622**	**.64560**	**15573.**	**103.24**
Stddev	208.	.8272	.770	.72	.2583	.05475	35.	.36
%RSD	.40284	18.781	2.7710	.16795	7.2522	8.4810	.22680	.34435
#1	51488.	5.1757	27.023	426.72	3.2834	.70529	15591.	103.48
#2	51389.	4.5073	28.564	427.49	3.7935	.59770	15532.	102.83
#3	51788.	3.5309	27.806	428.16	3.6097	.63382	15595.	103.39

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**17.668**	**59.088**	**71613.**	**118.76**	**7345.7**	**1386.9**	**1.3773**	**45.620**
Stddev	.241	.889	75.	2.38	36.9	3.7	.2284	.588
%RSD	1.3649	1.5051	.10445	2.0030	.50279	.26746	16.585	1.2886
#1	17.716	60.109	71587.	121.26	7306.4	1386.4	1.4006	45.703
#2	17.882	58.668	71555.	118.49	7379.6	1383.4	1.5931	44.996
#3	17.407	58.485	71697.	116.52	7351.0	1390.8	1.1381	46.162

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7427.0**	**4.8373**	**-1.3555**	**288.36**	**-2.3910**	**366.32**	**125.29**	**199.11**
Stddev	41.9	4.4799	.5724	2.79	.8211	1.07	.64	.36
%RSD	.56404	92.611	42.228	.96903	34.342	.29344	.50690	.17838
#1	7441.9	1.9119	-.72934	290.23	-3.2998	365.16	125.99	198.87
#2	7459.4	2.6052	-1.8518	289.71	-2.1707	366.52	124.76	199.52
#3	7379.7	9.9947	-1.4853	285.15	-1.7025	367.29	125.13	198.94

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3294.8**	**31232.**	**468860.**	**4685.4**	**13785.**	**226270.**
Stddev	7.1	120.	2994.	5.8	53.	1710.
%RSD	.21459	.38463	.63861	.12412	.38641	.75568
#1	3292.6	31102.	465430.	4679.7	13729.	225600.
#2	3302.7	31339.	470200.	4685.0	13835.	225000.
#3	3289.1	31254.	470950.	4691.3	13792.	228220.

Sample Name: MF9M64 Acquired: 06/22/2015 13:55:48 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41382.**	**1.8813**	**22.788**	**352.80**	**3.2826**	**.24444**	**9735.1**	**87.404**
Stddev	120.	4.8060	2.158	1.37	.1095	.06341	32.6	.383
%RSD	.28999	255.46	9.4701	.38744	3.3370	25.943	.33522	.43804
#1	41380.	-1.4465	25.229	353.49	3.2596	.20089	9771.8	87.817
#2	41503.	-.30080	21.131	353.68	3.1863	.21524	9724.2	87.334
#3	41263.	7.3912	22.005	351.22	3.4018	.31719	9709.3	87.060

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13.836**	**39.219**	**59366.**	**57.745**	**5602.7**	**1043.1**	**.80414**	**36.144**
Stddev	.379	.718	315.	2.994	23.6	4.5	.09813	.327
%RSD	2.7407	1.8302	.53020	5.1854	.42149	.43008	12.204	.90427
#1	13.922	38.526	59689.	61.035	5584.6	1047.3	.79791	36.021
#2	14.164	39.171	59350.	57.023	5629.4	1043.5	.70926	36.515
#3	13.421	39.959	59060.	55.178	5594.1	1038.4	.90523	35.897

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4774.6**	**-3.1892**	**-1.2037**	**282.50**	**-2.7806**	**280.52**	**103.75**	**79.990**
Stddev	44.8	2.6660	.4211	15.73	2.8317	2.76	.43	.178
%RSD	.93872	83.596	34.982	5.5663	101.84	.98215	.40986	.22256
#1	4778.1	-3.1654	-1.3378	276.54	-3.5454	282.71	103.80	80.171
#2	4817.5	-.53512	-1.5413	270.63	.35497	281.42	103.30	79.986
#3	4728.1	-5.8670	-.73187	300.34	-5.1514	277.43	104.15	79.815

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3295.6**	**31072.**	**470540.**	**4615.3**	**13569.**	**222180.**
Stddev	12.5	49.	947.	21.4	25.	814.
%RSD	.37863	.15695	.20131	.46364	.18446	.36642
#1	3282.2	31054.	470910.	4591.0	13543.	222040.
#2	3297.8	31035.	469460.	4623.6	13569.	221450.
#3	3306.9	31128.	471250.	4631.3	13593.	223060.

Sample Name: MF9M65 Acquired: 06/22/2015 13:58:40 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**60886.**	**3.5917**	**44.223**	**448.85**	**4.6687**	**-.58437**	**10368.**
Stddev	121.	1.5247	2.928	.74	.3238	.06061	32.
%RSD	.19805	42.450	6.6210	.16457	6.9353	10.372	.30418
#1	60975.	3.8380	44.774	449.04	4.4901	-.53507	10384.
#2	60749.	1.9589	46.836	449.47	5.0425	-.56599	10389.
#3	60936.	4.9783	41.058	448.03	4.4736	-.65204	10332.

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**111.25**	**25.359**	**50.416**	**112540.**	**42.372**	**7380.5**	**1376.2**
Stddev	.71	.738	.741	409.	2.798	20.1	6.3
%RSD	.63826	2.9108	1.4702	.36319	6.6036	.27201	.45568
#1	111.70	25.168	50.962	112930.	43.790	7396.4	1379.3
#2	111.62	26.173	50.715	112590.	39.148	7387.2	1380.4
#3	110.44	24.734	49.573	112110.	44.177	7357.9	1369.0

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.4276**	**51.247**	**6202.9**	**-4.1210**	**-1.6205**	**478.09**	**-3.0724**
Stddev	.3898	.168	54.3	.8329	.4216	7.83	1.2386
%RSD	27.304	.32799	.87591	20.210	26.016	1.6387	40.312
#1	1.3340	51.314	6258.5	-4.9370	-1.9582	485.71	-2.8112
#2	1.8556	51.056	6150.0	-3.2723	-1.7552	470.05	-4.4208
#3	1.0930	51.372	6200.4	-4.1538	-1.1480	478.52	-1.9853

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**397.82**	**151.12**	**62.108**
Stddev	2.16	.83	.316
%RSD	.54223	.55111	.50855
#1	396.03	150.89	62.255
#2	400.22	150.43	62.323
#3	397.21	152.05	61.745

Sample Name: MF9M65 Acquired: 06/22/2015 13:58:40 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3187.4**	**30508.**	**461070.**	**4593.8**	**13459.**	**221110.**
Stddev	12.9	161.	2312.	20.6	93.	1676.
%RSD	.40418	.52692	.50137	.44786	.69217	.75819
#1	3183.9	30323.	461480.	4578.9	13352.	219170.
#2	3176.6	30589.	463150.	4585.2	13500.	222040.
#3	3201.6	30612.	458580.	4617.3	13524.	222100.

Sample Name: MF9M66 Acquired: 06/22/2015 14:01:30 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**32508.**	**1.6611**	**27.725**	**438.90**	**2.4353**	**2.4393**	**31440.**	**69.000**
Stddev	148.	2.4999	3.385	.95	.1852	.0399	84.	.231
%RSD	.45456	150.50	12.210	.21604	7.6034	1.6365	.26793	.33453
#1	32465.	.48862	25.813	439.65	2.2465	2.4296	31346.	68.751
#2	32673.	-.03705	31.634	439.23	2.6167	2.4051	31466.	69.207
#3	32387.	4.5318	25.729	437.84	2.4428	2.4832	31509.	69.043

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**22.066**	**49.703**	**53100.**	**235.73**	**14299.**	**2934.9**	**1.6122**	**39.462**
Stddev	.284	.414	74.	3.25	122.	4.0	.1608	.191
%RSD	1.2888	.83317	.13984	1.3799	.85662	.13546	9.9718	.48475
#1	22.181	49.251	53016.	233.79	14213.	2930.3	1.4340	39.634
#2	22.275	50.064	53156.	233.91	14439.	2937.1	1.6561	39.497
#3	21.742	49.796	53130.	239.48	14243.	2937.3	1.7464	39.256

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5564.0**	**-.44587**	**-1.3004**	**153.55**	**.05704**	**431.08**	**94.643**	**332.64**
Stddev	36.3	4.0958	.1387	18.02	3.3785	2.70	.930	.66
%RSD	.65156	918.61	10.662	11.737	5923.3	.62726	.98253	.19781
#1	5522.2	-.45031	-1.1948	164.54	1.0727	433.11	94.587	333.31
#2	5585.1	3.6522	-1.4574	132.75	-3.7127	432.11	95.599	332.00
#3	5584.8	-4.5395	-1.2490	163.36	2.8112	428.01	93.742	332.60

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3162.8**	**30619.**	**462490.**	**4509.1**	**13397.**	**218660.**
Stddev	1.5	99.	2165.	5.9	43.	692.
%RSD	.04684	.32238	.46801	.13061	.31882	.31630
#1	3162.2	30569.	464830.	4502.6	13406.	218990.
#2	3161.8	30733.	462100.	4514.1	13435.	217870.
#3	3164.5	30555.	460550.	4510.4	13351.	219130.

Sample Name: MF9M67 Acquired: 06/22/2015 14:04:19 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**44233.**	**1.3553**	**26.553**	**438.41**	**3.0572**	**.51980**	**12722.**	**80.521**
Stddev	53.	2.8839	.571	1.03	.0507	.08541	16.	.551
%RSD	.12012	212.78	2.1506	.23511	1.6592	16.432	.12618	.68441
#1	44176.	3.4236	26.654	438.27	3.0013	.54036	12704.	80.687
#2	44281.	2.5814	27.068	439.50	3.1004	.59306	12734.	80.970
#3	44244.	-1.9390	25.939	437.45	3.0699	.42599	12729.	79.906

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**20.214**	**42.453**	**58486.**	**87.720**	**7422.2**	**1600.9**	**1.2353**	**39.793**
Stddev	.380	.090	64.	1.095	23.3	7.3	.3511	.235
%RSD	1.8800	.21232	.10997	1.2486	.31389	.45779	28.425	.59064
#1	20.389	42.480	58419.	87.904	7395.3	1596.6	1.4212	39.970
#2	20.475	42.526	58493.	88.711	7435.9	1609.4	1.4543	39.526
#3	19.778	42.352	58547.	86.544	7435.3	1596.7	.83026	39.883

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6458.2**	**3.2470**	**-1.2703**	**196.13**	**-.20371**	**510.53**	**113.23**	**107.13**
Stddev	25.2	3.7343	.2421	5.94	3.2259	1.60	1.16	.63
%RSD	.39054	115.01	19.057	3.0290	1583.6	.31248	1.0203	.58788
#1	6483.9	7.5565	-1.0740	196.82	-1.4450	508.69	111.90	107.62
#2	6457.5	1.2193	-1.1961	189.88	3.4584	511.31	113.95	107.35
#3	6433.4	.96519	-1.5408	201.70	-2.6246	511.58	113.85	106.42

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3286.0**	**31754.**	**476180.**	**4677.1**	**13793.**	**226770.**
Stddev	10.1	157.	3211.	13.8	81.	867.
%RSD	.30693	.49593	.67440	.29441	.58484	.38246
#1	3278.0	31645.	479770.	4670.4	13716.	225930.
#2	3282.8	31682.	475180.	4667.9	13787.	226740.
#3	3297.3	31935.	473580.	4692.9	13877.	227660.

Sample Name: MF9M68 Acquired: 06/22/2015 14:07:09 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41423.**	**4.3479**	**21.695**	**453.54**	**3.3261**	**-.13382**	**7631.5**	**88.961**
Stddev	29.	3.6885	2.117	1.24	.4819	.12802	7.4	.268
%RSD	.06964	84.833	9.7603	.27326	14.489	95.671	.09749	.30117
#1	41456.	.67227	24.138	453.10	3.8005	.00588	7636.7	88.671
#2	41409.	4.3224	20.380	452.57	2.8370	-.24555	7634.7	89.200
#3	41403.	8.0491	20.567	454.93	3.3409	-.16178	7623.0	89.011

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.192**	**40.210**	**67078.**	**45.505**	**4998.5**	**1213.7**	**1.5816**	**37.048**
Stddev	.540	.567	74.	1.384	36.3	4.7	.0196	.053
%RSD	3.3374	1.4106	.10986	3.0405	.72639	.38449	1.2385	.14325
#1	15.864	40.426	67002.	45.069	5038.7	1214.8	1.5862	36.987
#2	16.815	40.637	67084.	44.391	4988.6	1208.5	1.5984	37.083
#3	15.895	39.566	67149.	47.054	4968.1	1217.7	1.5601	37.075

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5440.1**	**1.4725**	**-1.2043**	**250.31**	**-3.5514**	**414.68**	**122.44**	**62.569**
Stddev	72.1	2.7944	.2936	1.90	1.9313	3.12	1.91	.191
%RSD	1.3257	189.77	24.375	.75832	54.383	.75295	1.5638	.30455
#1	5431.0	-1.6994	-1.1068	248.23	-5.7140	415.99	120.75	62.466
#2	5373.0	2.5455	-1.5342	251.95	-2.9418	411.12	124.52	62.789
#3	5516.4	3.5715	-.97194	250.74	-1.9984	416.94	122.05	62.452

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3260.5**	**30847.**	**467650.**	**4589.6**	**13481.**	**224230.**
Stddev	8.6	116.	2245.	9.5	60.	1774.
%RSD	.26239	.37527	.48008	.20659	.44164	.79107
#1	3251.3	30714.	469320.	4578.6	13429.	223860.
#2	3261.8	30895.	465100.	4595.3	13468.	222670.
#3	3268.3	30930.	468540.	4594.8	13546.	226160.

Sample Name: MF9M48A Acquired: 06/22/2015 14:10:00 Type: Unk
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep: 3050B
Comment: Mn-2630

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35460.**	**1.5776**	**26.829**	**330.72**	**3.0516**	**.32346**	**11436.**	**89.291**
Stddev	195.	4.0582	3.146	.82	.3671	.12670	29.	.463
%RSD	.55116	257.23	11.728	.24892	12.029	39.169	.25623	.51899
#1	35271.	-.14564	30.415	330.02	3.1984	.17742	11424.	89.782
#2	35449.	6.2131	24.535	330.51	3.3226	.38895	11469.	88.861
#3	35661.	-1.3345	25.535	331.63	2.6339	.40401	11414.	89.229

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**18.875**	**44.027**	**64438.**	**102.70**	**5207.2**	**3949.9**	**.68739**	**47.108**
Stddev	.235	1.169	119.	.87	12.3	14.6	.20957	.564
%RSD	1.2428	2.6553	.18542	.84780	.23574	.37043	30.487	1.1963
#1	18.634	43.539	64310.	101.75	5221.3	3933.2	.92790	46.462
#2	19.102	45.361	64547.	103.45	5201.0	3955.7	.59020	47.493
#3	18.891	43.180	64455.	102.92	5199.3	3960.7	.54405	47.371

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7506.7**	**.14554**	**-1.1670**	**224.58**	**-2.7723**	**298.57**	**105.30**	**119.55**
Stddev	45.2	3.8318	.5928	7.42	2.1587	3.46	1.31	.43
%RSD	.60166	2632.8	50.797	3.3035	77.865	1.1593	1.2393	.36184
#1	7480.4	4.0915	-1.3121	229.03	-4.4392	296.41	104.36	120.05
#2	7480.7	-3.5608	-1.6738	216.02	-.33391	302.56	106.79	119.35
#3	7558.8	-.09407	-.51513	228.70	-3.5438	296.74	104.74	119.25

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3296.2**	**31223.**	**467930.**	**4611.1**	**13642.**	**225000.**
Stddev	5.3	105.	2898.	2.8	67.	1539.
%RSD	.15990	.33485	.61935	.06024	.49343	.68405
#1	3301.9	31133.	469110.	4608.7	13590.	223350.
#2	3295.1	31199.	464630.	4614.1	13617.	225280.
#3	3291.6	31338.	470050.	4610.3	13718.	226390.

Sample Name: CCV2 Acquired: 06/22/2015 14:12:51 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**241790.**	**25365.**	**10226.**	**24280.**	**9728.5**	**9644.6**	**244190.**
Stddev	1402.	101.	10.	242.	35.0	18.6	647.
%RSD	.57980	.39724	.09898	.99728	.36024	.19303	.26498
#1	242900.	25276.	10215.	24008.	9755.6	9645.0	243520.
#2	242260.	25474.	10235.	24471.	9740.9	9663.0	244250.
#3	240220.	25344.	10230.	24362.	9688.9	9625.7	244810.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24517.**	**25661.**	**24163.**	**245350.**	**24691.**	**243590.**	**23391.**
Stddev	51.	58.	275.	316.	55.	231.	81.
%RSD	.20720	.22457	1.1373	.12882	.22382	.09496	.34697
#1	24504.	25605.	24297.	245470.	24633.	243320.	23461.
#2	24573.	25720.	23847.	245590.	24744.	243720.	23409.
#3	24474.	25659.	24346.	244990.	24695.	243720.	23302.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9846.0**	**25602.**	**246230.**	**9939.8**	**1023.9**	**249450.**	**9606.8**
Stddev	24.4	67.	1270.	17.5	4.2	999.	24.5
%RSD	.24810	.26052	.51585	.17568	.40999	.40028	.25460
#1	9843.0	25526.	244770.	9933.5	1021.3	248300.	9581.3
#2	9871.7	25650.	246830.	9959.5	1021.7	249940.	9630.0
#3	9823.2	25629.	247080.	9926.3	1028.7	250110.	9609.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV2 Acquired: 06/22/2015 14:12:51 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**9601.9**	**24271.**	**23966.**
Stddev	46.3	394.	54.
%RSD	.48186	1.6235	.22679
#1	9636.9	23818.	24001.
#2	9619.4	24528.	23994.
#3	9549.5	24468.	23904.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2621.4**	**29572.**	**413600.**	**3971.3**	**12585.**	**191800.**
Stddev	6.1	135.	4589.	13.5	106.	1127.
%RSD	.23092	.45759	1.1095	.34100	.84024	.58770
#1	2622.3	29717.	418890.	3965.8	12697.	190870.
#2	2615.0	29548.	410740.	3961.4	12572.	193050.
#3	2627.1	29450.	411160.	3986.7	12486.	191470.

Sample Name: CCB2 Acquired: 06/22/2015 14:15:34 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**14.943**	**4.1662**	**1.2655**	**2.1990**	**1.0357**	**.31321**	**16.332**	**.76995**
Stddev	102.98	4.0610	.9917	.1807	.4277	.08538	1.368	.26420
%RSD	689.16	97.473	78.369	8.2164	41.300	27.259	8.3735	34.314
#1	129.46	1.8670	2.1832	2.2710	1.4894	.41096	16.788	1.0729
#2	-70.045	8.8551	1.3998	1.9935	.97793	.27545	17.414	.64926
#3	-14.587	1.7766	.21339	2.3327	.63976	.25322	14.795	.58766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.1410**	**1.8594**	**37.019**	**-2.2467**	**29.662**	**2.4034**	**1.4069**	**.81894**
Stddev	.2407	.1650	13.620	1.5439	23.963	.6060	.4588	.07627
%RSD	21.095	8.8729	36.791	68.718	80.787	25.214	32.609	9.3127
#1	1.4107	1.8379	31.987	-2.8369	10.728	2.7393	1.8056	.90278
#2	.94824	2.0341	52.438	-.49478	21.654	2.7671	.90547	.80033
#3	1.0639	1.7062	26.631	-3.4084	56.603	1.7039	1.5095	.75370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**44.488**	**4.2350**	**-.28619**	**37.836**	**1.5116**	**.90773**	**2.0070**	**.89854**
Stddev	16.036	3.4850	.19844	7.330	1.3356	.35833	.1091	.41260
%RSD	36.045	82.291	69.341	19.374	88.356	39.475	5.4380	45.919
#1	61.457	5.9639	-.23640	33.970	1.9488	.67191	2.0036	1.3359
#2	29.585	.22352	-.50478	33.249	.01219	1.3201	1.8996	.51628
#3	42.424	6.5174	-.11737	46.290	2.5737	.73120	2.1178	.84339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 06/22/2015 14:15:34 Type: QC
Method: ICP08 ISM01.3 2015(v9) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG#: MF9M48 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3490.3**	**30658.**	**474780.**	**4637.2**	**13401.**	**229040.**
Stddev	6.4	31.	484.	8.0	51.	780.
%RSD	.18389	.10097	.10199	.17320	.37732	.34038
#1	3482.9	30661.	474820.	4629.7	13346.	228290.
#2	3493.8	30687.	475240.	4636.2	13445.	229850.
#3	3494.1	30626.	474270.	4645.6	13412.	228990.

Run MS215060 Summary		9Be	51V	52Cr	59Co	60Ni	63Cu	66Zn	75As	82Se	107Ag	111Cd	121Sb	137Ba	205Tl	208Pb	6Li	45Sc	89Y	103Rh	159Tb	209Bi
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S0	06/22/2015 20:40:51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
S	06/22/2015 20:45:09	0.9735	4.8899	1.8734	0.9426	0.9287	1.9663	1.9905	0.8771	4.9585	1.0064	0.913	1.8565	9.6328	0.9042	0.9067	100.52%	100.59%	100.20%	100.16%	100.02%	100.65%
S10	06/22/2015 20:49:29	10.1	9.2064	9.3943	9.5717	9.8056	9.9218	10.386	9.6552	10.278	9.8539	9.8001	9.0312	9.5858	9.3164	9.2946	100.40%	100.13%	99.78%	100.23%	99.24%	99.72%
S50	06/22/2015 20:53:48	50.634	46.572	47.44	47.969	49.7	49.712	51.253	47.902	49.323	49.423	48.813	46.116	48.727	46.791	46.97	99.23%	99.05%	99.36%	99.10%	98.84%	99.98%
S200	06/22/2015 20:58:08	201.51	188.35	190.44	193.73	199.26	199.04	202.29	191.81	200.33	198.39	193.28	183.02	193.63	189.74	189.13	96.40%	96.99%	97.68%	98.20%	98.46%	99.88%
S500	06/22/2015 21:02:28	510.14	494.98	495.55	516.57	505.06	511.71	514.17	484.94	499.93	500.7	489.37	468.23	485.73	493.76	485.19	94.82%	94.73%	96.04%	96.82%	97.99%	99.41%
S2500	06/22/2015 21:06:48	2548.7	2543.2	2522.6	2534.2	2537.5	2554.7	2531.3	2445.9	0.5836	0.9435	2469	2506.3	2460.9	2515.7	2511.3	91.45%	90.29%	90.92%	90.97%	93.33%	94.45%
S5000	06/22/2015 21:11:08	4974.6	4979.4	4989.6	4981.5	4980.8	4971.5	4982.8	5028.9	0.8781	0.7917	5016.9	5000.8	5021.2	4993.2	4996.3	92.48%	90.99%	90.44%	89.45%	91.14%	91.59%
S50000	06/22/2015 21:15:28	0.7906	0.4502	0.6142	0.8822	1.4943	1.4128	1.3173	0.7357	-0.4144	0.466	0.5894	1.5154	0.6271	0.883	0.7003	87.48%	89.31%	88.08%	85.18%	89.99%	85.53%
S100000	06/22/2015 21:19:49	0.1554	-0.2129	0.1845	0.7253	1.903	1.0712	0.8421	0.1342	-0.4486	0.428	0.0641	0.4869	0.1153	0.1533	0.2009	83.26%	89.46%	85.52%	81.85%	85.12%	78.07%
ICV1	06/22/2015 21:24:09	99.478	92.152	92.427	94.326	98.699	97.401	200.42	191.81	199.38	98.053	97.11	179.33	97.958	193.11	188.84	96.50%	99.88%	99.61%	98.97%	98.72%	99.97%
ICB1	06/22/2015 21:28:32	0.0777	0.0662	0.038	0.0392	0.0437	0.1221	0.1455	0.0621	0.0365	0.2236	0.056	0.5014	0.0278	0.0736	0.0466	97.74%	99.62%	98.16%	98.17%	97.32%	99.22%
ICSA1	06/22/2015 21:32:53	0.3173	-2.7278	18.7	1.3296	6.5419	7.455	11.174	0.2369	-0.0777	0.0702	0.5586	1.2981	1.4981	0.0682	4.3289	80.40%	85.72%	87.67%	84.42%	90.85%	83.05%
ICSAB1	06/22/2015 21:37:12	19.033	16.246	37.68	19.878	25.117	25.312	27.478	18.301	16.759	18.322	19.009	19.984	21.607	20.302	24.422	81.61%	86.69%	89.43%	86.16%	93.81%	84.44%
CCV1	06/22/2015 21:41:33	2530.6	2572.6	2477.3	2463.7	2415.5	2360.1	2295.3	2406.1	254.85	258.73	2419	2526.4	2497.5	2571.3	2551.8	87.20%	91.88%	91.51%	88.30%	91.81%	86.29%
CCB1	06/22/2015 21:45:54	0.3918	0.2955	0.2768	0.2753	0.2574	0.626	0.3819	0.4925	0.3883	0.1419	0.2604	1.0881	0.2821	0.4162	0.3087	97.98%	99.09%	99.99%	100.28%	101.09%	102.26%
PBS1-5x	06/22/2015 21:50:14	0.1023	0.0577	0.0291	0.0634	0.0662	0.226	0.4139	0.0989	-0.0546	0.0625	0.0697	0.3347	0.0672	0.0957	0.0811	102.29%	102.05%	102.66%	102.21%	102.67%	103.15%
LCS1-5x	06/22/2015 21:54:35	1.9701	9.9454	3.7158	1.8837	2.0002	3.956	3.9287	1.814	9.2327	2.0194	1.8838	3.8435	18.789	1.87	1.9002	102.43%	102.64%	103.04%	102.64%	102.83%	103.18%
MF9M48-5x	06/22/2015 21:58:56	0.7135	26.314	21.565	4.094	11.445	8.8894	24.757	3.9312	0.4544	0.0641	0.1462	0.1577	76.023	0.1328	20.267	93.26%	100.85%	105.01%	100.20%	101.98%	100.92%
MF9M48S-5x	06/22/2015 22:03:17	10.384	123.61	58.193	94.79	104.52	55.118	114.48	11.027	17.998	9.6292	9.4975	4.4403	466.14	9.2761	23.938	92.81%	101.30%	105.84%	100.45%	101.48%	100.10%
MF9M48D-5x	06/22/2015 22:07:38	0.6963	27.065	21.697	4.1047	11.531	9.0687	27.107	3.8456	0.5695	0.0599	0.1175	0.1345	78.975	0.1277	21.347	92.54%	101.01%	106.07%	100.32%	101.38%	100.07%
MF9M48L-5x	06/22/2015 22:11:59	0.1669	5.4215	4.4323	0.8547	2.3525	1.8889	5.8299	0.9098	0.3779	0.0155	0.0342	0.0347	15.601	0.0256	4.0533	92.15%	98.90%	102.46%	101.45%	101.75%	102.48%
MF9M48A-5x	06/22/2015 22:16:19	10.272	73.5	38.794	12.94	20.457	26.714	41.724	12.281	44.262	9.7905	9.5151	18.094	171.12	9.2431	29.474	91.28%	98.92%	103.38%	97.34%	98.95%	97.55%
MF9M49-5X	06/22/2015 22:20:40	0.7338	24.894	22.013	3.985	12.781	10.208	30.728	3.6464	0.6147	0.0399	0.1039	0.0784	69.463	0.1133	19.362	92.35%	99.15%	103.70%	98.63%	99.10%	98.42%
MF9M50-5x	06/22/2015 22:25:00	1.2567	35.06	30.409	7.0056	28.573	10.663	36.262	6.4146	0.4869	0.0477	0.0737	0.0892	86.697	0.1363	20.563	91.31%	99.25%	103.94%	97.10%	98.44%	96.95%
MF9M51-5x	06/22/2015 22:29:19	0.7181	28.15	21.7	4.5113	10.732	17.197	84.749	3.3683	0.5748	0.0619	0.3752	0.2846	129.97	0.1502	115.02	91.72%	99.18%	104.97%	98.34%	100.07%	99.32%
MF9M52-5x	06/22/2015 22:33:38	0.5597	20.796	16.059	3.0998	7.9121	13.551	88.407	2.9117	0.5503	0.0451	0.3658	0.1478	92.841	0.1112	55.74	91.69%	98.94%	103.82%	98.28%	99.61%	98.33%
MF9M54-5x	06/22/2015 22:37:59	0.6415	25.199	20.671	3.3251	9.5892	10.267	51.327	3.3331	0.6027	0.0376	0.2549	0.2687	81.047	0.1131	26.849	91.95%	99.08%	103.38%	97.75%	99.24%	98.34%
MF9M55-5x	06/22/2015 22:42:19	0.4663	19.865	15.273	3.169	7.8121	6.8446	39.267	3.1336	0.6625	0.0348	0.1224	0.0787	64.168	0.094	17.743	92.18%	97.81%	102.70%	98.54%	100.29%	99.06%
CCV2	06/22/2015 22:46:39	2547.6	2588.1	2485.7	2451.9	2387.9	2365.6	2288.2	2401.3	253.11	259.21	2426.1	2571.4	2521.1	2613.6	2574	85.04%	90.13%	90.94%	86.99%	91.14%	85.60%
CCB2	06/22/2015 22:51:00	0.3194	0.1906	0.1962	0.211	0.2185	0.6027	0.5746	0.3919	0.2211	0.1159	0.2189	1.0279	0.2153	0.3728	0.2608	96.64%	99.55%	99.70%	99.54%	99.86%	101.59%
MF9M56-5x	06/22/2015 22:55:22	0.8228	27.299	22.933	3.4467	12.082	8.1382	14.125	3.378	0.3712	0.0574	0.079	0.3457	68.047	0.1916	9.2789	93.07%	100.22%	104.92%	99.51%	100.36%	99.72%
MF9M57-5x	06/22/2015 22:59:43	0.9517	34.91	29.587	3.7018	14.452	9.6155	15.342	3.0421	0.5076	0.0516	0.0173	0.1799	90.707	0.1959	8.7598	92.48%	100.87%	106.18%	98.89%	100.81%	99.38%
MF9M58-5x	06/22/2015 23:04:03	1.1647	46.946	37.498	4.7929	18.554	11.307	16.154	5.7901	0.7196	0.056	-0.0645	0.153	105.53	0.2248	6.2844	92.37%	101.09%	105.72%	97.74%	99.08%	97.92%
MF9M59-5x	06/22/2015 23:08:25	0.4299	17.128	12.772	3.28	7.0072	8.9168	69.855	3.5635	0.2369	0.0605	0.3479	0.2025	77.974	0.0924	38.468	91.79%	98.86%	102.41%	98.05%	99.14%	99.12%
MF9M60-5x	06/22/2015 23:12:45	0.7137	24.622	22.238	3.8156	13.433	8.2515	20.416	4.5603	0.4674	0.0345	0.0949	0.0917	60.2	0.1051	15.365	91.82%	98.93%	101.73%	98.06%	98.47%	97.61%
MF9M61-5x	06/22/2015 23:17:05	0.7726	26.166	24.009	3.4828	12.195	8.3054	13.699	3.8904	0.3548	0.0295	0.019	0.0892	61.337	0.1082	9.094	92.08%	98.30%	102.29%	97.37%	97.96%	96.68%
MF9M62-5x	06/22/2015 23:21:25	1.7965	68.019	52.082	13.599	33.91	17.462	20.904	17.88	0.3715	0.0487	0.0162	0.0998	147.79	0.1773	13.461	90.61%	98.39%	102.36%	94.43%	95.65%	94.60%
MF9M63-5x	06/22/2015 23:25:44	1.8513	62.29	35.308	139.62	73.833	12.942	22.648	5.1568	1.0784	0.0394	0.7724	0.2001	1047	0.4344	20.389	89.13%	96.03%	101.24%	91.90%	94.42%	92.38%
MF9M64-5x	06/22/2015 23:30:04	5.3796	130.93	238.25	27.294	37.643	29.466	21.627	48.293	1.1466	0.058	0.0916	0.3888	392.86	0.2343	31.363	88.42%	95.16%	101.16%	89.71%	91.81%	90.70%
MF9M65-5x	06/22/2015 23:34:24	1.042	46.721	34.298	18.252	18.375	9.0837	15.17	5.8725	0.5772	0.0457	0.0159	0.1123	261.99	0.2242	8.8023	90.44%	95.54%	99.00%	92.38%	94.21%	93.91%
MF9M66-5x	06/22/2015 23:38:44	0.4644	18.408	14.171	2.5146	6.7511	7.2473	30.521	2.0342	0.3696	0.0348	0.231	0.0956	70.289	0.0989	19.265	91.21%	95.23%	98.94%	94.64%	95.73%	96.00%
MF9M67-5x	06/22/2015 23:43:04	0.5918	25.652	17.626	4.2062	8.8324	7.8776	23.898	2.8544	0.4992	0.0464	0.1226	0.0955	93.103	0.1192	17.827	91.26%	96.03%	100.14%	94.91%	96.28%	96.60%
MF9M68-5x	06/22/2015 23:47:25	0.6862	31.903	25.073	3.2145	9.2187	8.0416	14.412	3.2573	0.422	0.0411	0.0139	0.0705	92.419	0.1259	8.4685	91.11%	95.83%	100.21%	94.84%	96.25%	96.22%
CCV3	06/22/2015 23:51:45	2565.2	2611.9	2517.3	2477.3	2401.8	2386.4	2300.6	2424.4	255.81	261.58	2458.9	2619.4	2520.1	2638.1	2609.2	83.89%	87.58%	86.84%	83.95%	88.12%	83.75%
CCB3	06/22/2015 23:56:08	0.3127	0.2482	0.2251	0.2288	0.233	0.77	0.363	0.4627	0.4241	0.0976	0.2277	1.1101	0.2359	0.4001	0.277	94.59%	95.83%	96.62%	96.82%	97.68%	100.13%

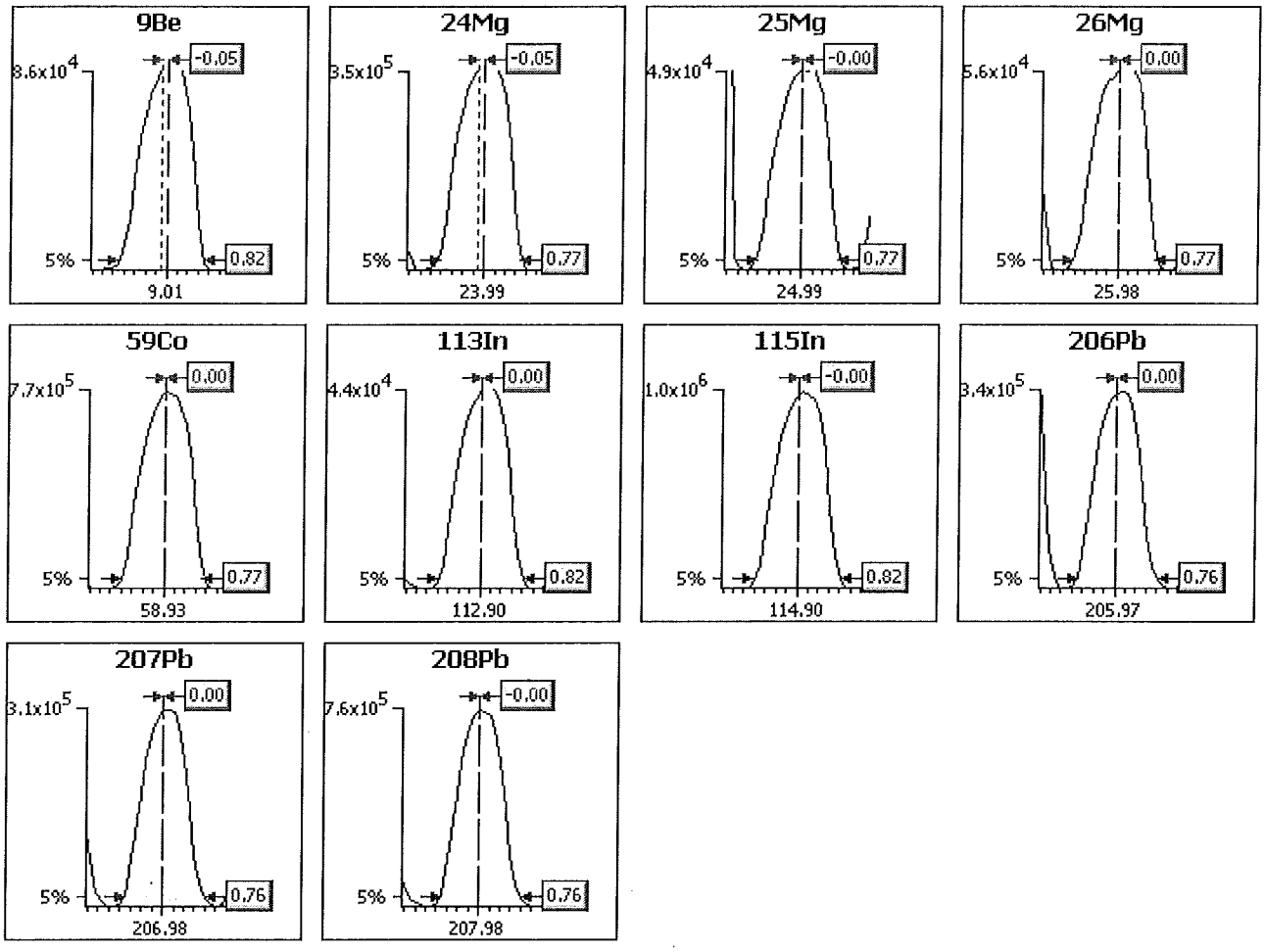
Performance Report

Tune - M5215060

Sample details
Acquired at : 06/22/2015 16:28:59
Report name : CLP [10/19/2012 10:16:28]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.11	0.82	-0.05
24Mg	0.85	0.65	0.11	0.77	-0.05
25Mg	0.85	0.65	0.11	0.77	-0.00
26Mg	0.85	0.65	0.11	0.77	0.00
59Co	0.85	0.65	0.11	0.77	0.00
113In	0.85	0.65	0.11	0.82	0.00
115In	0.85	0.65	0.11	0.82	-0.00
206Pb	0.85	0.65	0.11	0.76	0.00
207Pb	0.85	0.65	0.11	0.76	0.00
208Pb	0.85	0.65	0.11	0.76	-0.00

Sample details
Acquired at : 06/22/2015 16:28:59
Report name : CLP [10/19/2012 10:16:28]

Tune - m5215060

Tune conditions

Major	
Extraction	-149
Lens 1	4.7
Focus	24.9
D1	-32.9
Pole Bias	-0.0
Hexapole Bias	-5.0
Nebuliser	0.80
Sampling Depth	130

Minor	
Lens 2	-27.5
Lens 3	-115.3
Forward power	1404
Horizontal	85
Vertical	467
D2	-160
DA	-80.0
Cool	13.0
Auxiliary	0.90

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1922
PC Detector	3069

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 130

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	138Ba++	101Bkg
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-	-
	Countrate	-	>3000	>10000	>10000	>10000	-	>10000	-	-
1	16:29:19	2.000	92873.896	385862.80	48988.184	57678.149	355799.13	761154.74	33519.071	1.846
2	16:30:35	1.077	92677.886	390628.06	48934.021	57644.068	355559.21	762781.57	33688.213	1.231
3	16:31:48	1.308	94758.785	392336.34	49097.285	58135.154	355855.30	767013.25	33217.096	1.385
4	16:33:00	1.615	94666.203	397190.68	49187.042	58269.936	354362.11	762894.30	33681.519	1.923
5	16:34:13	1.615	95360.980	394098.16	49568.524	57537.954	355920.29	762036.25	33362.290	1.538
x		1.523	94067.550	392023.21	49155.011	57853.052	355499.21	763176.02	33493.638	1.585
σ		0.35	1210.90	4213.17	251.01	326.70	650.13	2255.22	204.65	0.30
%RSD		22.978	1.287	1.075	0.511	0.565	0.183	0.296	0.611	18.675

Run	Time	113In	115In	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	5.0%	5.0%	-	-	-	5.0%	5.0%	5.0%	-
	Countrate	>10000	>10000	-	-	-	>10000	>10000	>10000	<20
1	16:29:19	45003.499	1009134.3	720193.16	1054993.6	18600.479	348252.46	313418.94	753621.78	2.308
2	16:30:35	45199.943	1011279.4	714286.59	1050799.2	18982.621	345481.39	310848.38	747448.94	14.462
3	16:31:48	44752.925	997496.37	709059.55	1038529.9	18935.335	344728.86	309017.52	743370.28	2.462
4	16:33:00	44513.957	999124.42	699036.62	1035021.8	18696.591	340950.39	306529.66	737101.53	2.154
5	16:34:13	44319.850	986098.97	699009.06	1028822.3	18725.888	339853.86	304263.45	735944.93	1.385
x		44758.035	1000626.7	708316.99	1041633.4	18788.183	343853.39	308815.59	743497.49	4.554
σ		356.07	10111.51	9354.06	10954.19	163.53	3434.84	3581.60	7349.84	5.55
%RSD		0.796	1.011	1.321	1.052	0.870	0.999	1.160	0.989	121.964

Ratio results

Run	Time	56Ar O/59Co	138Ba++/138Ba	115In/101Bkg	156Ce O/140Ce
Ratio limits		-	-	>10000.0000	<0.0300
1	16:29:19	0.467	0.047	546614.36	0.018
2	16:30:35	0.466	0.047	821664.47	0.018
3	16:31:48	0.464	0.047	720413.99	0.018
4	16:33:00	0.464	0.048	519544.64	0.018
5	16:34:13	0.467	0.048	640964.27	0.018
x		0.4658	0.0473	649840.34	0.0180
σ		0.00	0.00	124715.20	0.00
%RSD		0.3316	1.4031	19.1917	1.3344

Result : The performance report passed.

Experiment Details

John Kershisnik
Run # MS215060
MF9M48
Case: 45299
W.O. 1515632
ISM01.3 SOIL

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\data\MS215058.tee
Created By User	Edwards
Analyte Database	ILM5.3.tea
Creation Timestamp	02/02/2005 10:10:19
Last Edited By	john.kershisnik
Last Edit Timestamp	06/23/2015 15:50:06
Instrument Detector	Simultaneous
Database Version	3.51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

Column headings	Result cells	Data warning flags
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	QC Failure	M - Result over max
	Transient TRA only:	V - Valley integration failed
	Peak Not Found	D - Different method used
	Manually Edited	
	Merged Peak	

Setup

Survey Scan Setup

Sweeps	5
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	6739

Main Run Setup

Main Run	Peak Jumping
Sweeps	40
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	36287
Channel Spacing	0.02

Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	Standard
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.50	9	600	
33.50	34.50	10	600	
36.50	37.50	10	600	
38.50	39.41	9	600	Standard
42.59	245.50	2029	600	Standard

Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
6Li	1	30000	Standard
7Li	1	10000	Standard
9Be	1	30000	Standard
13C	1	10000	
23Na	1	10000	
24Mg	1	5000	
25Mg	1	5000	
26Mg	1	5000	
27Al	1	10000	Standard
39K	1	10000	
43Ca	1	10000	
44Ca	1	10000	
45Sc	1	20000	Standard
47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	
55Mn	1	10000	Standard
56Fe	1	10000	

57Fe	1	10000	
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
65Cu	1	10000	Standard
66Zn	1	10000	Standard
75As	1	30000	Standard
77Ar Cl	1	30000	Standard
78Se	1	30000	Standard
82Se	1	30000	Standard
83Kr	1	30000	Standard
86Sr	1	10000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
94Mo	1	10000	Standard
95Mo	1	10000	Standard
96Mo	1	10000	Standard
97Mo	1	10000	Standard
98Mo	1	10000	Standard
103Rh	1	10000	Standard
106Pd	1	10000	Standard
106Cd	1	10000	Standard
107Ag	1	20000	Standard
108Mo O	1	10000	Standard
109Ag	1	20000	Standard
111Cd	1	20000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
135Ba	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
203Tl	1	20000	Standard
205Tl	1	20000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	20000	Standard
220Bkg	1	10000	Standard

Calibration Technique

Use External Drift Correction - No
Calibrate by - Element

Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
6Li	Yes	1.00	None				No		
7Li	Yes	1.00	None				No		
9Be	Yes	0.75	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
13C	Yes	0.05	None				No		
23Na	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
24Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
25Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
26Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
27Al	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
39K	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
43Ca	Yes	0.99	None				No		
44Ca	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
45Sc	Yes	1.00	None				No		
47Ti	Yes	0.99	Semi-Quantified				No		
51V	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
52Cr	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
55Mn	Yes	0.95	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
54Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
56Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
57Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
59Co	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
60Ni	No	0.91	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
63Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
65Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
66Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
75As	Yes	0.07	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
78Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
82Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
83Kr	Yes	0.01	Semi-Quantified				No		
86Sr	Yes	0.96	None				No		
88Sr	Yes	0.96	None				No		
89Y	Yes	0.98	None				No		
94Mo	Yes	0.98	None				No		
95Mo	Yes	0.98	None				No		
96Mo	Yes	0.98	None				No		
97Mo	Yes	0.98	None				No		
98Mo	Yes	0.98	None				No		
103Rh	Yes	0.94	None				No		

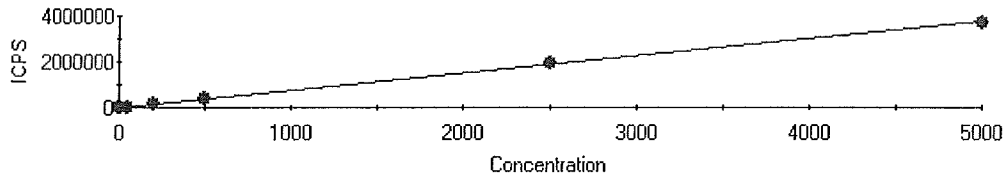
106Pd	Yes	0.93	None				No	
107Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
109Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
106Cd	Yes	0.57	None				No	
111Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
115In	Yes	0.99	None				No	
118Sn	Yes	0.96	None				No	
121Sb	Yes	0.39	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
135Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
137Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
159Tb	Yes	0.99	None				No	
203Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
206Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
207Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
208Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
209Bi	Yes	0.92	None				No	
205Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
220Bkg	Yes		Semi-Quantified				No	
77Ar Cl	Yes		Semi-Quantified				No	
53Cl O	Yes		Semi-Quantified				No	
108Mo O	Yes		Semi-Quantified				No	

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	S0	Blank	1.000	1	1	1	144
2	S	Fully Quant Standard	1.000	1	1	2	144
3	S10	Fully Quant Standard	1.000	1	1	3	144
4	S50	Fully Quant Standard	1.000	1	1	4	144
5	S200	Fully Quant Standard	1.000	1	1	5	144
6	S500	Fully Quant Standard	1.000	1	1	6	144
7	S2500	Fully Quant Standard	1.000	1	1	7	144
8	S5000	Fully Quant Standard	1.000	1	1	8	144
9	S50000	Fully Quant Standard	1.000	1	1	9	144
10	S100000	Fully Quant Standard	1.000	1	1	10	144
11	ICV1	Unknown	1.000	1	1	11	144
12	ICB1	Unknown	1.000	1	1	12	144
13	ICSA1	Unknown	1.000	1	2	1	144
14	ICSAB1	Unknown	1.000	1	2	2	144
15	CCV1	Unknown	1.000	1	2	3	144
16	CCB1	Unknown	1.000	1	2	4	144
17	PBS1-5x	Unknown	1.000	1	2	5	144
18	LCS1-5x	Unknown	1.000	1	2	6	144
19	MF9M48-5x	Unknown	1.000	1	2	7	144
20	MF9M48S-5x	Unknown	1.000	1	2	8	144
21	MF9M48D-5x	Unknown	1.000	1	2	9	144
22	MF9M48L-5x	Unknown	1.000	1	2	10	144
23	MF9M48A-5x	Unknown	1.000	1	2	11	144
24	MF9M49-5X	Unknown	1.000	1	2	12	144
25	MF9M50-5x	Unknown	1.000	1	3	1	144
26	MF9M51-5x	Unknown	1.000	1	3	2	144
27	MF9M52-5x	Unknown	1.000	1	3	3	144
28	MF9M54-5x	Unknown	1.000	1	3	4	144
29	MF9M55-5x	Unknown	1.000	1	3	5	144
30	CCV2	Unknown	1.000	1	3	6	144
31	CCB2	Unknown	1.000	1	3	7	144
32	MF9M56-5x	Unknown	1.000	1	3	8	144
33	MF9M57-5x	Unknown	1.000	1	3	9	144
34	MF9M58-5x	Unknown	1.000	1	3	10	144
35	MF9M59-5x	Unknown	1.000	1	3	11	144
36	MF9M60-5x	Unknown	1.000	1	3	12	144
37	MF9M61-5x	Unknown	1.000	1	4	1	144
38	MF9M62-5x	Unknown	1.000	1	4	2	144
39	MF9M63-5x	Unknown	1.000	1	4	3	144
40	MF9M64-5x	Unknown	1.000	1	4	4	144
41	MF9M65-5x	Unknown	1.000	1	4	5	144
42	MF9M66-5x	Unknown	1.000	1	4	6	144
43	MF9M67-5x	Unknown	1.000	1	4	7	144
44	MF9M68-5x	Unknown	1.000	1	4	8	144
45	CCV3	Unknown	1.000	1	4	9	144
46	CCB3	Unknown	1.000	1	4	10	144

Fully Quant Calibration

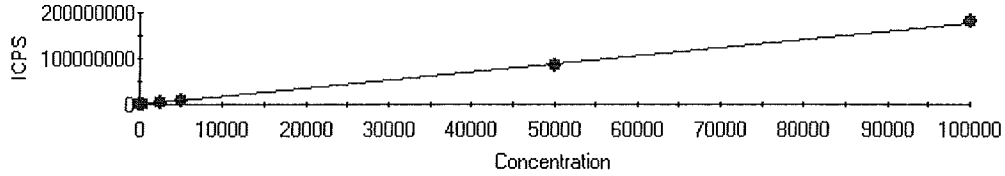
9Be FQ Block 1



Intercept CPS=34.655302 Intercept Conc=0.046228
Sensitivity=749.654896 Correlation Coeff=0.999937

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	34.66	0.00
S	1.000	0.973	0.027	764.43	2.65
S10	10.000	10.100	0.100	7606.44	1.00
S50	50.000	50.634	0.634	37992.40	1.27
S200	200.000	201.511	1.511	151098.09	0.76
S500	500.000	510.141	10.141	382464.71	2.03
S2500	2500.000	2548.678	48.678	1910663.78	1.95
S5000	5000.000	4974.580	25.420	3729252.74	0.51

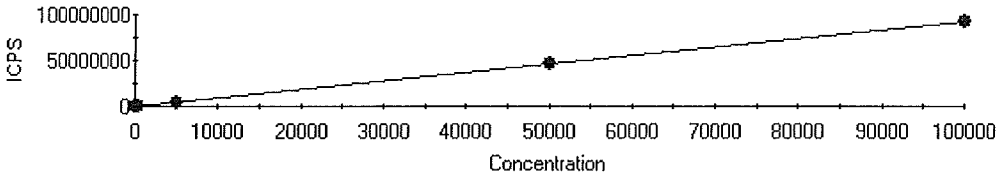
23Na FQ Block 1



Intercept CPS=19178.340831 Intercept Conc=10.792698
Sensitivity=1776.973681 Correlation Coeff=0.999890

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	19178.34	0.00
S50	50.000	48.656	1.344	105638.84	2.69
S200	200.000	182.877	17.123	344146.13	8.56
S500	500.000	467.012	32.988	849047.05	6.60
S2500	2500.000	2391.172	108.828	4268228.37	4.35
S5000	5000.000	4768.341	231.659	8492394.14	4.63
S50000	50000.000	48679.956	1320.044	86522179.41	2.64
S100000	100000.000	100674.525	674.525	178915160.34	0.67

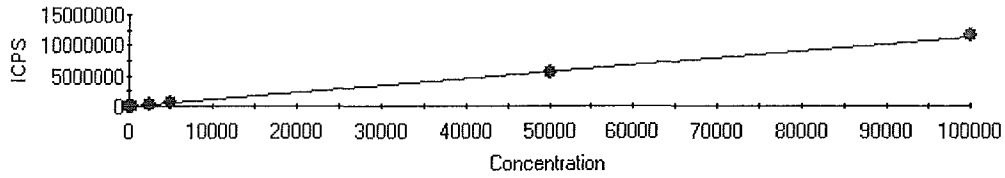
24Mg FQ Block 1



Intercept CPS=171.212501 Intercept Conc=0.184870
Sensitivity=926.121853 Correlation Coeff=0.999939

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	171.21	0.00
S50	50.000	47.011	2.989	43708.94	5.98
S200	200.000	184.917	15.083	171426.61	7.54
S500	500.000	469.987	30.013	435436.65	6.00
S5000	5000.000	4815.195	184.805	4459628.51	3.70
S50000	50000.000	49032.432	967.568	45410177.66	1.94
S100000	100000.000	100493.206	493.206	93069125.47	0.49

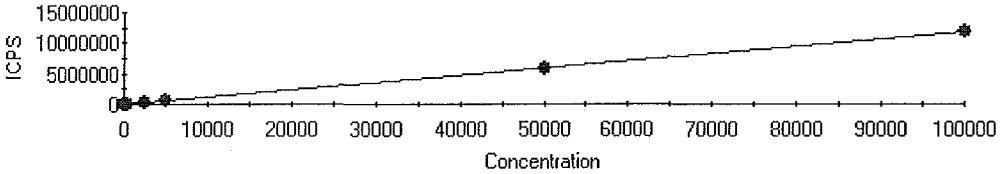
25Mg FQ Block 1



Intercept CPS=31.025594 Intercept Conc=0.272615
Sensitivity=113.807507 Correlation Coeff=0.999940

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	31.03	0.00
S50	50.000	48.081	1.919	5503.06	3.84
S200	200.000	187.205	12.795	21336.39	6.40
S500	500.000	472.735	27.265	53831.83	5.45
S2500	2500.000	2313.853	186.147	263364.87	7.45
S5000	5000.000	4574.096	425.904	520597.47	8.52
S50000	50000.000	49065.051	934.949	5584002.17	1.87
S100000	100000.000	100493.586	493.586	11436955.54	0.49

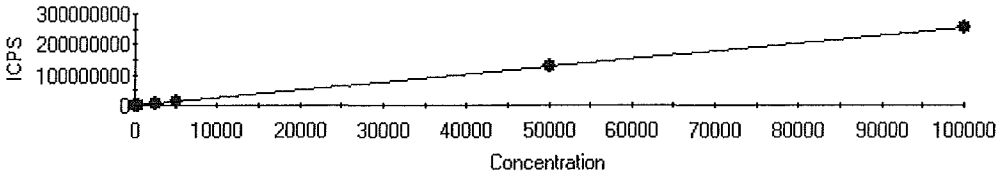
26Mg FQ Block 1



Intercept CPS=31.076868 Intercept Conc=0.263861
Sensitivity=117.777492 Correlation Coeff=0.999944

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	31.08	0.00
S50	50.000	47.758	2.242	5655.87	4.48
S200	200.000	190.458	9.542	22462.78	4.77
S500	500.000	479.262	20.738	56477.41	4.15
S2500	2500.000	2346.003	153.997	276337.48	6.16
S5000	5000.000	4656.394	343.606	548449.52	6.87
S50000	50000.000	49080.637	919.363	5780625.48	1.84
S100000	100000.000	100480.835	480.835	11834411.88	0.48

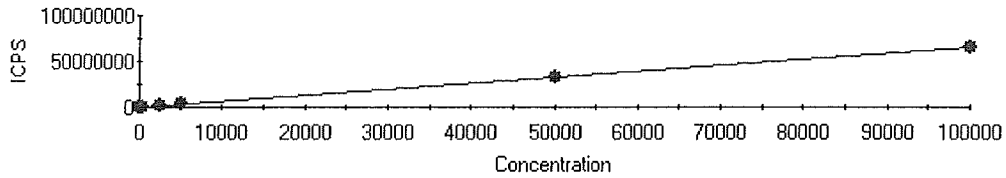
27Al FQ Block 1



Intercept CPS=1573.242269 Intercept Conc=0.622475
Sensitivity=2527.399011 Correlation Coeff=0.999955

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	1573.24	0.00
S	20.000	18.688	1.312	48806.10	6.56
S50	50.000	49.378	0.622	126370.75	1.24
S200	200.000	193.103	6.897	489621.38	3.45
S500	500.000	493.241	6.759	1248188.84	1.35
S2500	2500.000	2441.902	58.098	6173232.81	2.32
S5000	5000.000	4824.475	175.525	12194946.12	3.51
S50000	50000.000	49151.685	848.315	124227492.60	1.70
S100000	100000.000	100434.435	434.435	253839463.67	0.43

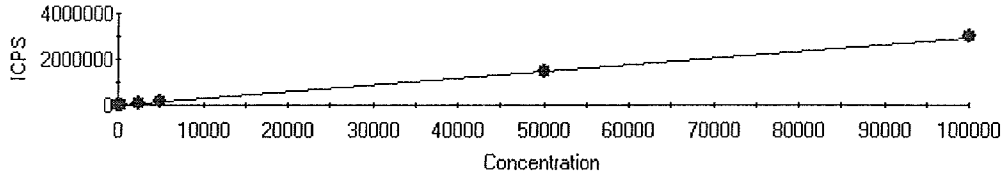
39K FQ Block 1



Intercept CPS=34398.411984 Intercept Conc=53.273334
Sensitivity=645.696631 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	34398.41	0.00
S50	50.000	52.290	2.290	68161.92	4.58
S200	200.000	206.457	6.457	167707.13	3.23
S500	500.000	518.348	18.348	369093.80	3.67
S2500	2500.000	2522.566	22.566	1663210.96	0.90
S5000	5000.000	4942.163	57.837	3225536.51	1.16
S50000	50000.000	50223.576	223.576	32463592.20	0.45
S100000	100000.000	99890.434	109.566	64533315.01	0.11

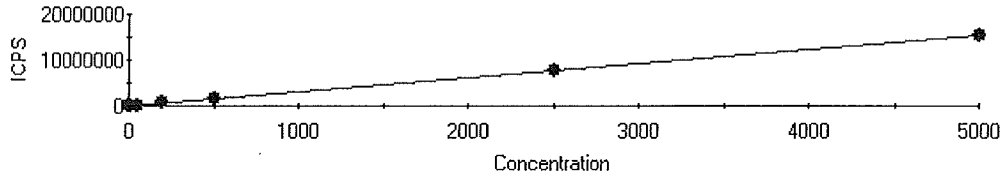
44Ca FQ Block 1



Intercept CPS=255.337215 Intercept Conc=8.627663
Sensitivity=29.595176 Correlation Coeff=0.999856

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	255.34	0.00
S50	50.000	55.780	5.780	1906.15	11.56
S200	200.000	187.479	12.521	5803.81	6.26
S500	500.000	488.224	11.776	14704.41	2.36
S2500	2500.000	2359.461	140.539	70084.00	5.62
S5000	5000.000	4676.851	323.149	138667.57	6.46
S50000	50000.000	48501.798	1498.202	1435674.61	3.00
S100000	100000.000	100768.853	768.853	2982527.28	0.77

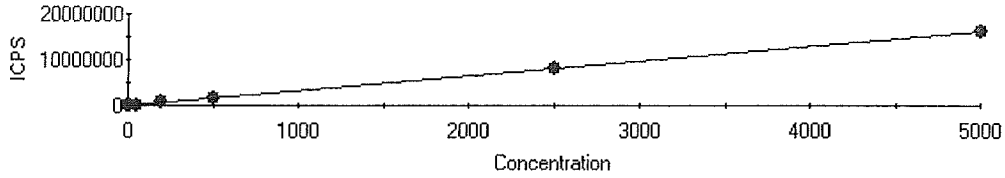
51V FQ Block 1



Intercept CPS=115.951891 Intercept Conc=0.037738
Sensitivity=3072.584083 Correlation Coeff=0.999946

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	115.95	0.00
S	5.000	4.890	0.110	15140.68	2.20
S10	10.000	9.206	0.794	28403.27	7.94
S50	50.000	46.572	3.428	143212.63	6.86
S200	200.000	188.348	11.652	578831.10	5.83
S500	500.000	494.977	5.023	1520975.72	1.00
S2500	2500.000	2543.193	43.193	7814290.46	1.73
S5000	5000.000	4979.408	20.592	15299765.05	0.41

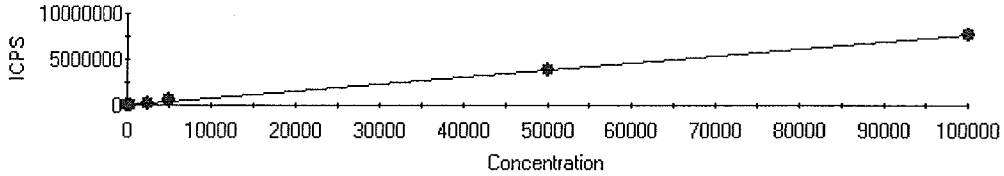
52Cr FQ Block 1



Intercept CPS=875.977787 Intercept Conc=0.270626
Sensitivity=3236.855356 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	875.98	0.00
S	2.000	1.873	0.127	6939.75	6.33
S10	10.000	9.394	0.606	31284.12	6.06
S50	50.000	47.440	2.560	154432.31	5.12
S200	200.000	190.440	9.560	617301.79	4.78
S500	500.000	495.547	4.453	1604891.43	0.89
S2500	2500.000	2522.564	22.564	8166051.67	0.90
S5000	5000.000	4989.572	10.428	16151400.09	0.21

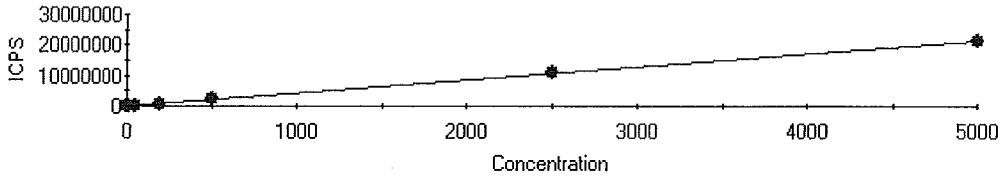
54Fe FQ Block 1



Intercept CPS=2488.942141 Intercept Conc=32.130859
Sensitivity=77.462669 Correlation Coeff=0.999867

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	2488.94	0.00
S50	50.000	67.990	17.990	7755.67	35.98
S200	200.000	268.558	68.558	23292.18	34.28
S500	500.000	684.204	184.204	55489.17	36.84
S2500	2500.000	3384.022	884.022	264624.35	35.36
S5000	5000.000	6675.910	1675.910	519622.71	33.52
S50000	50000.000	49867.556	132.444	3865362.91	0.26
S100000	100000.000	99959.259	40.741	7745599.97	0.04

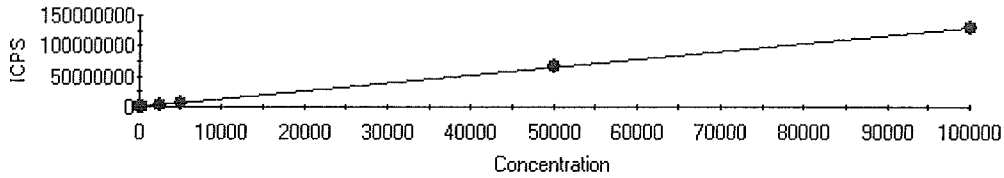
55Mn FQ Block 1



Intercept CPS=114.980236 Intercept Conc=0.027009
Sensitivity=4257.032859 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	114.98	0.00
S	1.000	0.927	0.073	4059.91	7.33
S10	10.000	9.513	0.487	40612.42	4.87
S50	50.000	47.882	2.118	203952.35	4.24
S200	200.000	194.374	5.626	827570.81	2.81
S500	500.000	510.572	10.572	2173638.47	2.11
S2500	2500.000	2521.775	21.775	10735395.43	0.87
S5000	5000.000	4988.302	11.698	21235481.80	0.23

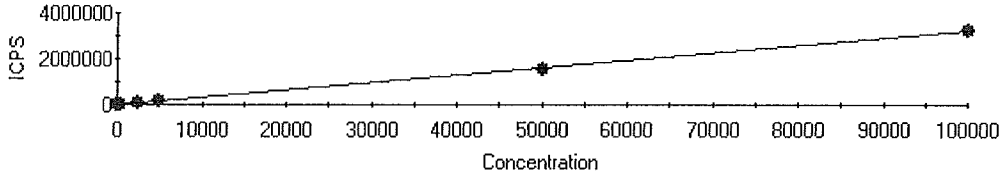
56Fe FQ Block 1



Intercept CPS=102169.191473 Intercept Conc=78.650596
Sensitivity=1299.026282 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	102169.19	0.00
S50	50.000	47.689	2.311	164118.46	4.62
S200	200.000	189.993	10.007	348974.90	5.00
S500	500.000	488.085	11.915	736203.88	2.38
S2500	2500.000	2524.269	24.269	3381260.93	0.97
S5000	5000.000	4977.785	22.215	6568442.95	0.44
S50000	50000.000	50201.086	201.086	65314699.40	0.40
S100000	100000.000	99900.042	99.958	129874948.90	0.10

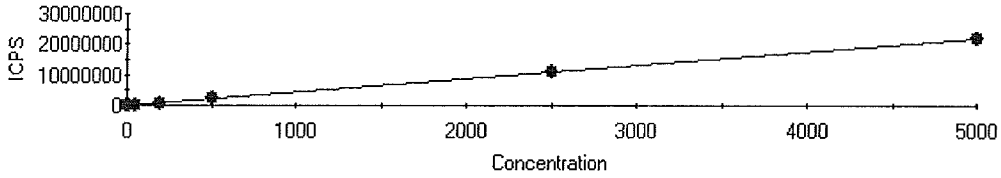
57Fe FQ Block 1



Intercept CPS=697.338403 Intercept Conc=21.751707
Sensitivity=32.059019 Correlation Coeff=0.999870

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	697.34	0.00
S50	50.000	50.457	0.457	2314.94	0.91
S200	200.000	188.144	11.856	6729.05	5.93
S500	500.000	489.461	10.539	16388.98	2.11
S2500	2500.000	2393.698	106.302	77436.95	4.25
S5000	5000.000	4678.903	321.097	150698.38	6.42
S50000	50000.000	48574.784	1425.216	1557957.28	2.85
S100000	100000.000	100731.396	731.396	3230047.12	0.73

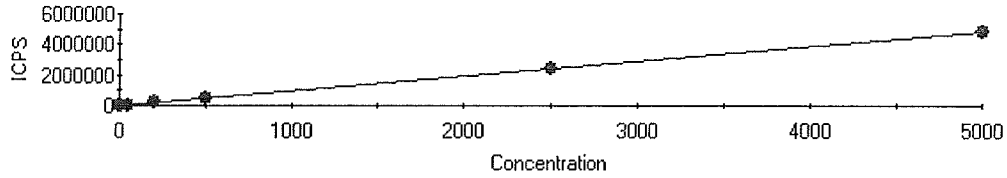
59Co FQ Block 1



Intercept CPS=20.907154 Intercept Conc=0.004744
Sensitivity=4407.133539 Correlation Coeff=0.999962

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	20.91	0.00
S	1.000	0.943	0.057	4175.18	5.74
S10	10.000	9.572	0.428	42204.52	4.28
S50	50.000	47.969	2.031	211426.03	4.06
S200	200.000	193.731	6.269	853820.57	3.13
S500	500.000	516.568	16.568	2276603.16	3.31
S2500	2500.000	2534.173	34.173	11168460.53	1.37
S5000	5000.000	4981.529	18.471	21954282.59	0.37

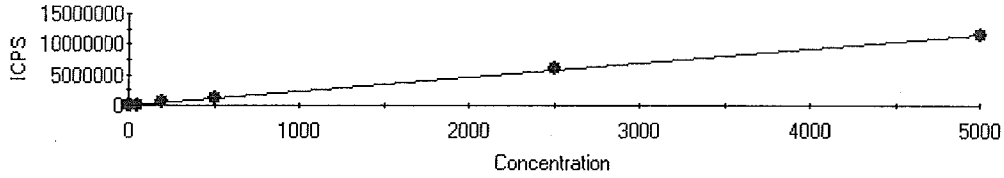
60Ni FQ Block 1



Intercept CPS=25.051217 Intercept Conc=0.025714
Sensitivity=974.240307 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	25.05	0.00
S	1.000	0.929	0.071	929.82	7.13
S10	10.000	9.806	0.194	9578.10	1.94
S50	50.000	49.700	0.300	48444.68	0.60
S200	200.000	199.258	0.742	194150.19	0.37
S500	500.000	505.064	5.064	492079.06	1.01
S2500	2500.000	2537.474	37.474	2472134.72	1.50
S5000	5000.000	4980.790	19.210	4852510.98	0.38

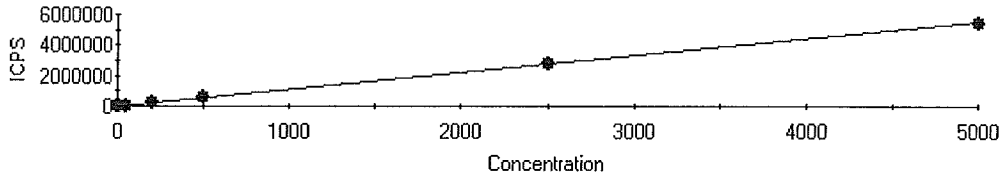
63Cu FQ Block 1



Intercept CPS=2029.435454 Intercept Conc=0.874184
Sensitivity=2321.518983 Correlation Coeff=0.999919

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	2029.44	0.00
S	2.000	1.966	0.034	6594.33	1.68
S10	10.000	9.922	0.078	25062.97	0.78
S50	50.000	49.712	0.288	117436.34	0.58
S200	200.000	199.037	0.963	464098.25	0.48
S500	500.000	511.708	11.708	1189968.73	2.34
S2500	2500.000	2554.660	54.660	5932720.97	2.19
S5000	5000.000	4971.541	28.459	11543555.81	0.57

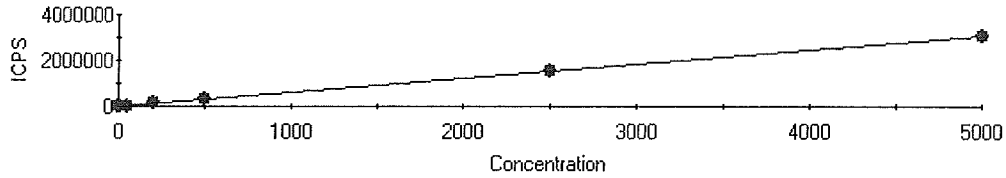
65Cu FQ Block 1



Intercept CPS=924.110868 Intercept Conc=0.838282
Sensitivity=1102.386448 Correlation Coeff=0.999911

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	924.11	0.00
S	2.000	2.000	0.000	3129.26	0.02
S10	10.000	10.007	0.007	11956.15	0.07
S50	50.000	49.639	0.361	55645.81	0.72
S200	200.000	199.885	0.115	221274.10	0.06
S500	500.000	507.446	7.446	560325.19	1.49
S2500	2500.000	2558.071	58.071	2820907.25	2.32
S5000	5000.000	4970.228	29.772	5480036.11	0.60

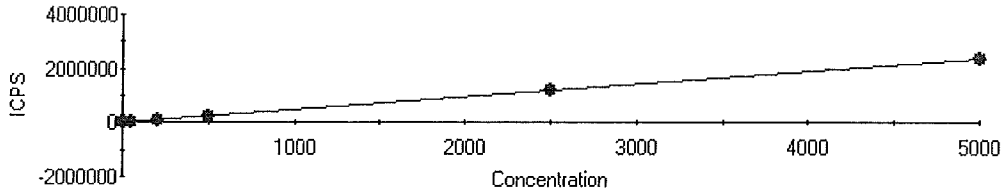
66Zn FQ Block 1



Intercept CPS=149.009241 Intercept Conc=0.239477
Sensitivity=622.226952 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	149.01	0.00
S	2.000	1.990	0.010	1387.53	0.48
S10	10.000	10.386	0.386	6611.39	3.86
S50	50.000	51.253	1.253	32039.70	2.51
S200	200.000	202.286	2.286	126016.93	1.14
S500	500.000	514.169	14.169	320079.12	2.83
S2500	2500.000	2531.343	31.343	1575219.11	1.25
S5000	5000.000	4982.807	17.193	3100585.58	0.34

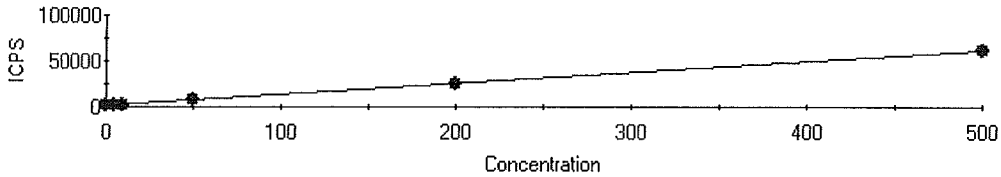
75As FQ Block 1



Intercept CPS=-18.119953 Intercept Conc=-0.038008
Sensitivity=476.745064 Correlation Coeff=0.999922

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	-18.12	0.00
S	1.000	0.877	0.123	400.03	12.29
S10	10.000	9.655	0.345	4584.95	3.45
S50	50.000	47.902	2.098	22818.81	4.20
S200	200.000	191.815	8.185	91428.65	4.09
S500	500.000	484.935	15.065	231172.33	3.01
S2500	2500.000	2445.866	54.134	1166036.53	2.17
S5000	5000.000	5028.922	28.922	2397495.85	0.58

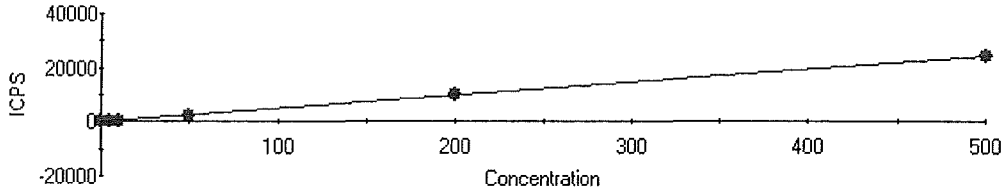
78Se FQ Block 1



Intercept CPS=980.049192 Intercept Conc=8.029723
Sensitivity=122.052671 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	980.05	0.00
S	5.000	4.880	0.120	1575.62	2.41
S10	10.000	9.890	0.110	2187.20	1.10
S50	50.000	50.014	0.014	7084.45	0.03
S200	200.000	197.666	2.334	25105.71	1.17
S500	500.000	500.936	0.936	62120.57	0.19

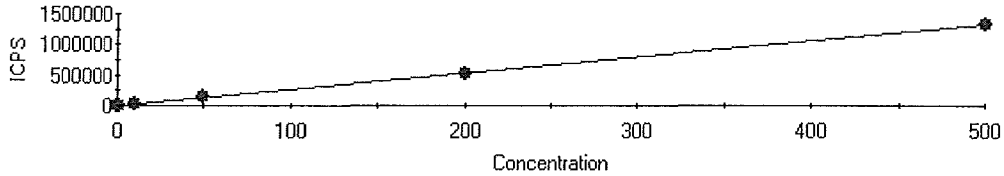
82Se FQ Block 1



Intercept CPS=-3.798966 Intercept Conc=-0.078091
Sensitivity=48.648226 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	-3.80	0.00
S	5.000	4.959	0.041	237.42	0.83
S10	10.000	10.278	0.278	496.23	2.78
S50	50.000	49.323	0.677	2395.67	1.35
S200	200.000	200.327	0.327	9741.75	0.16
S500	500.000	499.932	0.068	24317.00	0.01

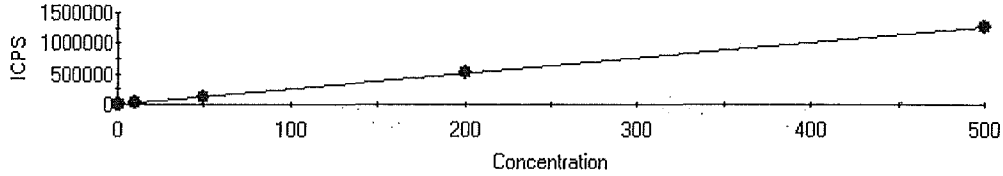
107Ag FQ Block 1



Intercept CPS=40.750186 Intercept Conc=0.015423
Sensitivity=2642.215220 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	40.75	0.00
S	1.000	1.006	0.006	2699.87	0.64
S10	10.000	9.854	0.146	26076.84	1.46
S50	50.000	49.423	0.577	130628.02	1.15
S200	200.000	198.392	1.608	524234.39	0.80
S500	500.000	500.704	0.704	1323008.16	0.14

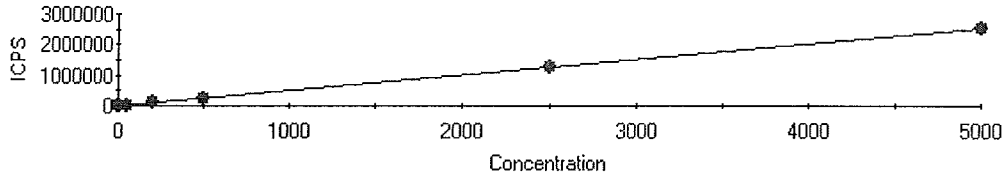
109Ag FQ Block 1



Intercept CPS=34.510241 Intercept Conc=0.013595
Sensitivity=2538.407687 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	34.51	0.00
S	1.000	0.993	0.007	2555.01	0.71
S10	10.000	9.818	0.182	24957.21	1.82
S50	50.000	49.462	0.538	125589.31	1.08
S200	200.000	198.916	1.084	504964.38	0.54
S500	500.000	500.491	0.491	1270484.84	0.10

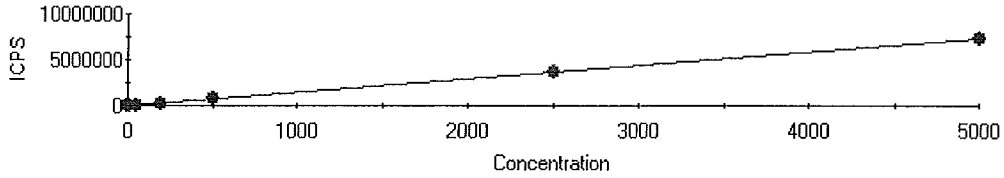
111Cd FQ Block 1



Intercept CPS=82.840780 Intercept Conc=0.164240
Sensitivity=504.387358 Correlation Coeff=0.999974

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	82.84	0.00
S	1.000	0.913	0.087	543.34	8.70
S10	10.000	9.800	0.200	5025.87	2.00
S50	50.000	48.813	1.187	24703.35	2.37
S200	200.000	193.284	6.716	97573.04	3.36
S500	500.000	489.370	10.630	246914.97	2.13
S2500	2500.000	2468.981	31.019	1245405.59	1.24
S5000	5000.000	5016.853	16.853	2530520.30	0.34

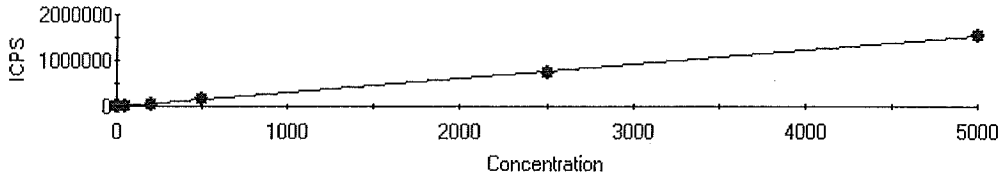
121Sb FQ Block 1



Intercept CPS=35.021541 Intercept Conc=0.024228
Sensitivity=1445.485192 Correlation Coeff=0.999979

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	35.02	0.00
S	2.000	1.856	0.144	2718.50	7.18
S10	10.000	9.031	0.969	13089.50	9.69
S50	50.000	46.116	3.884	66694.88	7.77
S200	200.000	183.022	16.978	264590.15	8.49
S500	500.000	468.232	31.768	676857.09	6.35
S2500	2500.000	2506.262	6.262	3622799.80	0.25
S5000	5000.000	5000.766	0.766	7228567.84	0.02

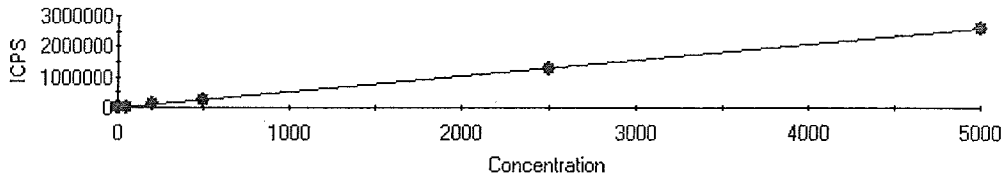
135Ba FQ Block 1



Intercept CPS=2.990917 Intercept Conc=0.009778
Sensitivity=305.890133 Correlation Coeff=0.999550

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	2.99	0.00
S	10.000	9.178	0.822	2810.49	8.22
S50	50.000	47.322	2.678	14478.28	5.36
S200	200.000	187.893	12.107	57477.55	6.05
S500	500.000	471.838	28.162	144333.53	5.63
S2500	2500.000	2371.136	128.864	725310.04	5.15
S5000	5000.000	5067.761	67.761	1550181.08	1.36

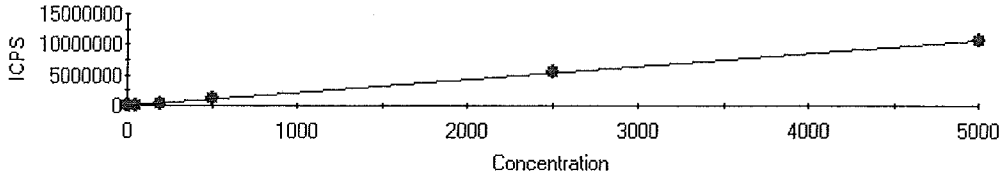
137Ba FQ Block 1



Intercept CPS=5.001659 Intercept Conc=0.009604
Sensitivity=520.779181 Correlation Coeff=0.999957

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	5.00	0.00
S	10.000	9.633	0.367	5021.59	3.67
S50	50.000	48.727	1.273	25380.76	2.55
S200	200.000	193.628	6.372	100842.59	3.19
S500	500.000	485.726	14.274	252960.85	2.85
S2500	2500.000	2460.941	39.059	1281612.01	1.56
S5000	5000.000	5021.225	21.225	2614954.50	0.42

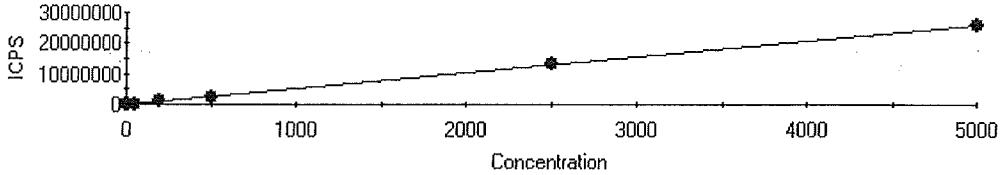
203Tl FQ Block 1



Intercept CPS=46.963261 Intercept Conc=0.021935
Sensitivity=2141.018127 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	46.96	0.00
S	1.000	0.914	0.086	2004.70	8.56
S10	10.000	9.481	0.519	20345.84	5.19
S50	50.000	47.060	2.940	100804.17	5.88
S200	200.000	190.683	9.317	408302.97	4.66
S500	500.000	486.649	13.351	1041971.68	2.67
S2500	2500.000	2500.362	0.362	5353367.35	0.01
S5000	5000.000	5001.557	1.557	10708471.60	0.03

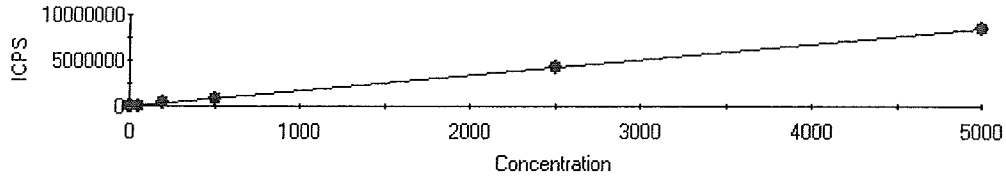
205Tl FQ Block 1



Intercept CPS=107.699484 Intercept Conc=0.020618
Sensitivity=5223.505814 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	107.70	0.00
S	1.000	0.904	0.096	4830.94	9.58
S10	10.000	9.316	0.684	48772.02	6.84
S50	50.000	46.791	3.209	244520.53	6.42
S200	200.000	189.742	10.258	991225.41	5.13
S500	500.000	493.761	6.239	2579269.94	1.25
S2500	2500.000	2515.746	15.746	13141121.28	0.63
S5000	5000.000	4993.195	6.805	26082089.52	0.14

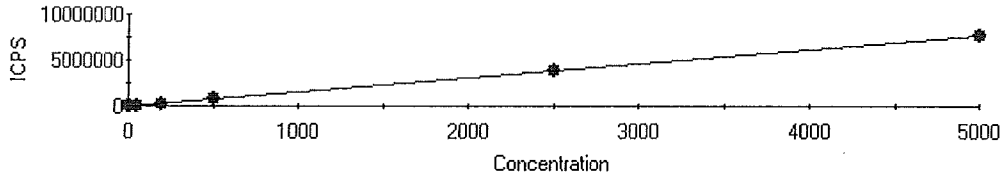
206Pb FQ Block 1



Intercept CPS=36.527953 Intercept Conc=0.021474
Sensitivity=1701.005231 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	36.53	0.00
S	1.000	0.897	0.103	1563.05	10.26
S10	10.000	9.663	0.337	16472.69	3.37
S50	50.000	48.853	1.147	83135.31	2.29
S200	200.000	195.511	4.489	332602.43	2.24
S500	500.000	501.980	1.980	853907.41	0.40
S2500	2500.000	2506.062	6.062	4262860.29	0.24
S5000	5000.000	4996.963	3.037	8499896.62	0.06

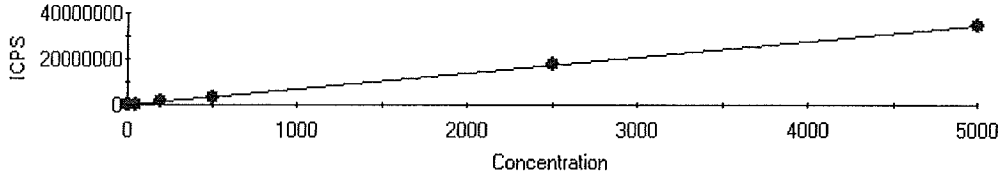
207Pb FQ Block 1



Intercept CPS=31.513432 Intercept Conc=0.020566
Sensitivity=1532.343471 Correlation Coeff=0.999974

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	31.51	0.00
S	1.000	0.920	0.080	1441.21	8.00
S10	10.000	9.152	0.848	14055.91	8.48
S50	50.000	45.834	4.166	70265.54	8.33
S200	200.000	184.384	15.616	282570.37	7.81
S500	500.000	469.611	30.389	719637.26	6.08
S2500	2500.000	2516.274	16.274	3855826.94	0.65
S5000	5000.000	4995.570	4.430	7654960.75	0.09

208Pb FQ Block 1



Intercept CPS=138.469305 Intercept Conc=0.019817
Sensitivity=6987.494427 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	138.47	0.00
S	1.000	0.907	0.093	6473.89	9.33
S10	10.000	9.295	0.705	65084.14	7.05
S50	50.000	46.970	3.030	328338.13	6.06
S200	200.000	189.128	10.872	1321667.65	5.44
S500	500.000	485.189	14.811	3390392.92	2.96
S2500	2500.000	2511.303	11.303	17547853.86	0.45
S5000	5000.000	4996.296	3.704	34911730.75	0.07

Dilution Corrected Concentrations

S0 06/22/2015 20:40:51

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	98.66%	-0.0057	0.0045	0.0342	0.0393	0.0806	0.0479	0.8803	0.2842
2	20:42:10	99.99%	0.0105	-0.0550	0.0108	-0.0956	-0.0072	-0.0032	-0.1690	-0.0644
3	20:42:49	99.82%	-0.0039	0.0350	-0.0008	0.0357	0.0341	-0.0015	0.1727	-0.1615
4	20:43:29	100.60%	-0.0043	0.0414	-0.0136	0.2499	0.0727	-0.0335	-0.9281	0.3773
5	20:44:09	100.93%	0.0033	-0.0259	-0.0305	-0.2293	-0.1802	-0.0097	0.0440	-0.4356
x		100.00%	0.0000	-0.0000	0.0000	-0.0000	0.0000	-0.0000	-0.0000	-0.0000
%RSD		0.87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	98.51%	-0.0032	-0.0212	0.0035	0.6643	-0.0026	0.0356	0.5430	-0.0024
2	20:42:10	98.53%	0.0015	0.0262	0.0007	-0.5060	-0.0050	0.3974	-0.9532	-0.0019
3	20:42:49	99.66%	-0.0033	0.0123	-0.0102	-0.3387	0.0078	-0.7795	2.7058	0.0010
4	20:43:29	101.23%	0.0071	-0.0352	-0.0231	0.8036	0.0055	0.6198	-0.4338	-0.0003
5	20:44:09	102.07%	-0.0021	0.0179	0.0291	-0.6231	-0.0057	-0.2732	-1.8618	0.0036
x		100.00%	0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000
%RSD		1.60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	0.0210	0.0403	-0.0203	-0.0122	0.0512	-0.0179	0.1439	0.7406	99.55%
2	20:42:10	-0.0101	0.0692	-0.0908	0.0408	0.0757	-0.1862	0.2133	-0.1368	99.36%
3	20:42:49	-0.0025	-0.0064	0.0208	-0.0255	-0.0809	0.1619	-0.3386	0.8778	99.37%
4	20:43:29	0.0022	-0.0632	0.0843	-0.0406	0.0015	0.1575	0.1432	-0.5262	100.81%
5	20:44:09	-0.0106	-0.0399	0.0060	0.0376	-0.0474	-0.1153	-0.1618	-0.9554	100.91%
x		0.0000	0.0000	0.0000	-0.0000	0.0000	0.0000	0.0000	-0.0000	100.00%
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.79

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	0.0000	0.0000	0.0000	0.0000	0.0000	98.90%	-0.0016	0.4329	-0.0022
2	20:42:10	0.0000	0.0000	0.0000	0.0000	0.0000	99.73%	-0.0012	0.3731	0.0012
3	20:42:49	0.0000	0.0000	0.0000	0.0000	0.0000	100.14%	0.0021	0.2092	-0.0018
4	20:43:29	0.0000	0.0000	0.0000	0.0000	0.0000	100.18%	0.0030	-0.2590	0.0066
5	20:44:09	0.0000	0.0000	0.0000	0.0000	0.0000	101.05%	-0.0023	-0.7562	-0.0038
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.00%	0.0000	-0.0000	-0.0000
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.78	0.0000	0.0000	0.0000

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	-0.0143	0.0000	0.0000	-0.0033	-0.0098	0.0097	100.04%	-0.0083	-0.0029
2	20:42:10	-0.0152	0.0000	0.0000	0.0035	-0.0098	0.0000	100.12%	0.0002	-0.0027
3	20:42:49	0.0015	0.0000	0.0000	-0.0035	0.0229	-0.0048	99.84%	0.0031	-0.0020
4	20:43:29	0.0121	0.0000	0.0000	0.0104	-0.0098	-0.0048	99.08%	0.0085	0.0057
5	20:44:09	0.0159	0.0000	0.0000	-0.0071	0.0064	-0.0001	100.93%	-0.0035	0.0019
x		-0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	100.00%	-0.0000	0.0000
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.66	0.0000	0.0000

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	20:41:30	0.0024	0.0043	0.0002	98.29%	0.4346
2	20:42:10	-0.0038	-0.0010	0.0002	100.05%	-0.2857
3	20:42:49	0.0019	0.0038	0.0015	100.52%	-0.2857
4	20:43:29	0.0035	-0.0075	-0.0034	99.97%	0.4225
5	20:44:09	-0.0040	0.0004	0.0014	101.17%	-0.2857
x		0.0000	-0.0000	-0.0000	100.00%	-0.0000
%RSD		0.0000	0.0000	0.0000	1.07	0.0000

S 06/22/2015 20:45:09

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	99.83%	0.9836	T469.0700	450.6900	453.3100	465.9800	19.0130	488.9200	460.6800
2	20:46:29	101.14%	0.8820	452.2900	453.6300	448.9400	465.7700	19.0810	494.8700	459.1600
3	20:47:08	100.42%	1.0085	457.6100	452.1100	451.9000	465.6700	18.6110	502.0500	475.2900
4	20:47:48	100.02%	0.9947	458.4200	455.0700	455.9900	462.7800	18.6300	496.7800	468.2800
5	20:48:28	101.20%	0.9987	433.5300	434.9400	432.5300	447.7300	18.1060	472.7900	451.6500
x		100.52%	0.9735	T454.1900	449.2900	448.5400	461.5900	18.6880	491.0800	463.0100
%RSD		0.63	5.3358	T2.8740	1.8230	2.0734	1.7021	2.0864	2.2914	1.9556

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	100.15%	0.0043	4.7801	1.8568	184.1800	1.0201	185.1900	197.5500	0.9365
2	20:46:29	100.43%	-0.0034	4.9187	1.8821	187.4900	0.9113	193.6800	195.9100	0.9441
3	20:47:08	100.80%	-0.0049	4.9254	1.8926	187.2900	0.9132	189.7300	188.1700	0.9372
4	20:47:48	100.62%	0.0042	4.9874	1.8824	185.2900	0.9080	188.0800	194.8000	0.9634
5	20:48:28	100.96%	0.0102	4.8381	1.8528	179.7300	0.8809	182.4600	187.3300	0.9319
x		100.59%	0.0021	4.8899	1.8734	184.8000	0.9267	187.8300	192.7500	0.9426
%RSD		0.31	301.2800	1.6589	0.9339	1.7051	5.8097	2.2857	2.4283	1.3143

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	0.8869	1.9749	1.9614	1.9840	0.8590	4.6273	4.4618	3.6334	100.84%
2	20:46:29	0.9277	1.9210	2.1192	2.0459	0.9381	5.1270	5.1436	2.4635	100.36%
3	20:47:08	0.9464	2.0051	1.8788	1.9796	0.7428	5.3721	4.4143	2.0017	100.16%
4	20:47:48	1.0148	2.0420	2.0698	1.9601	1.0057	4.5077	5.8798	0.7316	99.93%
5	20:48:28	0.8677	1.8887	1.9725	1.9826	0.8399	4.7640	4.8931	0.6814	99.71%
x		0.9287	1.9663	2.0003	1.9905	0.8771	4.8796	4.9585	1.9023	100.20%
%RSD		6.1819	3.1543	4.7431	1.6306	11.4010	7.3823	12.0590	65.3540	0.43

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	0.0000	0.0000	0.0000	0.0000	0.0000	99.77%	0.9885	0.2339	1.0304
2	20:46:29	0.0000	0.0000	0.0000	0.0000	0.0000	100.34%	1.0120	-0.4031	0.9685
3	20:47:08	0.0000	0.0000	0.0000	0.0000	0.0000	100.27%	1.0319	-0.1731	1.0229
4	20:47:48	0.0000	0.0000	0.0000	0.0000	0.0000	100.64%	1.0146	-0.7642	1.0000
5	20:48:28	0.0000	0.0000	0.0000	0.0000	0.0000	99.80%	0.9850	-0.6173	0.9430
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.16%	1.0064	-0.3447	0.9929
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.37	1.9406	114.0100	3.7135

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	0.9138	0.0000	0.0000	1.8549	9.0988	9.9606	99.81%	0.9159	0.9209
2	20:46:29	0.9818	0.0000	0.0000	1.8941	9.5022	9.3669	100.40%	0.9127	0.9038
3	20:47:08	0.8920	0.0000	0.0000	1.8608	9.0767	9.7378	100.65%	0.9188	0.9042
4	20:47:48	0.9514	0.0000	0.0000	1.9039	9.2754	9.6811	100.15%	0.9221	0.9099
5	20:48:28	0.8260	0.0000	0.0000	1.7685	8.9375	9.4179	99.10%	0.9024	0.8823
x		0.9130	0.0000	0.0000	1.8565	9.1781	9.6328	100.02%	0.9144	0.9042
%RSD		6.5325	0.0000	0.0000	2.8778	2.3681	2.5309	0.60	0.8235	1.5545

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	20:45:49	0.8839	0.9160	0.8909	100.37%	-0.2857
2	20:46:29	0.9114	0.9890	0.9238	100.54%	-0.2857
3	20:47:08	0.9062	0.8932	0.8921	101.45%	1.1100
4	20:47:48	0.9299	0.9639	0.9355	100.28%	-0.2857
5	20:48:28	0.8558	0.8378	0.8912	100.62%	0.4179
x		0.8974	0.9200	0.9067	100.65%	0.1342
%RSD		3.1716	6.4706	2.3538	0.46	465.7000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	99.94%	9.9599	10.6000	9.1890	9.8031	9.8128	10.0130	10.3890	13.2940
2	20:50:48	100.37%	10.1130	10.6270	9.4321	8.4952	8.5946	10.1960	12.7290	10.5450
3	20:51:27	101.67%	10.0970	10.6360	9.3452	10.2700	9.8840	10.1840	10.7970	13.5550
4	20:52:07	100.78%	10.2290	10.7540	9.8332	9.1496	8.8411	10.2270	11.6470	12.3460
5	20:52:47	99.23%	10.1040	11.1240	10.0530	8.5362	8.7138	10.1340	11.2400	10.9090
x		100.40%	10.1000	10.7480	9.5704	9.2509	9.1692	10.1510	11.3600	12.1300
%RSD		0.91	0.9438	2.0300	3.7562	8.4365	6.8336	0.8261	7.9099	11.2390

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	99.77%	0.0089	9.2106	9.3098	15.3880	9.4060	9.8687	10.5190	9.4319
2	20:50:48	99.05%	0.0045	9.2154	9.4679	15.9000	9.5720	11.0680	11.3980	9.6847
3	20:51:27	100.84%	-0.0065	9.5209	9.4913	10.0230	9.6293	9.9292	9.5421	9.6951
4	20:52:07	100.66%	0.0011	8.9968	9.5153	13.3610	9.5905	9.8912	15.2670	9.6366
5	20:52:47	100.31%	0.0058	9.0882	9.1875	13.9760	9.3675	9.6065	10.0790	9.4099
x		100.13%	0.0028	9.2064	9.3943	13.7300	9.5131	10.0730	11.3610	9.5717
%RSD		0.73	211.9000	2.1513	1.4996	16.8440	1.2397	5.6655	20.1280	1.4582

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	9.5267	9.7497	10.1030	10.0490	9.9241	9.5907	10.7070	0.6511	99.54%
2	20:50:48	9.8306	9.9929	10.0240	10.5650	9.7042	9.2318	10.1800	1.0477	99.80%
3	20:51:27	9.9177	9.9911	9.9653	10.6370	9.6848	10.1380	10.1170	0.0988	99.39%
4	20:52:07	9.8361	9.8782	10.2070	10.2420	9.3312	9.9742	10.2140	1.1225	100.11%
5	20:52:47	9.9172	9.9968	9.7375	10.4370	9.6317	10.5170	10.1740	-0.9172	100.04%
x		9.8056	9.9218	10.0070	10.3860	9.6552	9.8904	10.2780	0.4006	99.78%
%RSD		1.6473	1.0926	1.7600	2.3196	2.2041	5.0167	2.3543	209.9900	0.31

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	0.0000	0.0000	0.0000	0.0000	0.0000	100.09%	9.6044	-0.7543	9.6538
2	20:50:48	0.0000	0.0000	0.0000	0.0000	0.0000	100.69%	9.7390	0.4693	9.6409
3	20:51:27	0.0000	0.0000	0.0000	0.0000	0.0000	99.56%	10.0360	-0.8807	9.9442
4	20:52:07	0.0000	0.0000	0.0000	0.0000	0.0000	100.22%	10.2910	-1.3126	10.0770
5	20:52:47	0.0000	0.0000	0.0000	0.0000	0.0000	100.59%	9.5988	-0.6020	9.7756
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.23%	9.8539	-0.6161	9.8182
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.45	3.0645	107.4400	1.9256

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	9.8783	0.0000	0.0000	8.9270	9.3016	9.4179	99.00%	9.3747	9.1547
2	20:50:48	9.5439	0.0000	0.0000	9.2039	9.5563	9.6617	100.04%	9.6180	9.2824
3	20:51:27	10.0720	0.0000	0.0000	8.9057	9.3861	9.5204	98.74%	9.5823	9.5128
4	20:52:07	10.0050	0.0000	0.0000	9.0727	9.3345	9.5458	99.21%	9.5025	9.5325
5	20:52:47	9.5008	0.0000	0.0000	9.0468	9.4268	9.7830	99.20%	9.3273	9.0996
x		9.8001	0.0000	0.0000	9.0312	9.4010	9.5858	99.24%	9.4809	9.3164
%RSD		2.6872	0.0000	0.0000	1.3378	1.0545	1.4632	0.49	1.3387	2.1441

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	20:50:08	9.5415	9.1028	9.2277	98.75%	-0.2857
2	20:50:48	9.7444	9.2698	9.3755	99.79%	-0.2857
3	20:51:27	9.7662	9.1036	9.3451	99.57%	0.4254
4	20:52:07	9.6755	9.1796	9.3426	100.18%	-0.2857
5	20:52:47	9.5854	9.1055	9.1820	100.29%	-0.2857
x		9.6626	9.1523	9.2946	99.72%	-0.1435
%RSD		1.0114	0.8021	0.9092	0.62	221.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	100.60%	50.2500	47.4140	46.3840	46.8370	47.9110	48.8510	49.2160	54.0990
2	20:55:07	99.45%	51.1610	48.3950	47.1760	49.3890	46.2710	48.9140	52.3880	56.9980
3	20:55:47	98.99%	50.8120	49.2170	48.2210	48.3080	46.6860	50.2470	54.5180	55.6490
4	20:56:27	98.77%	50.7560	49.6370	46.6020	49.3850	48.5310	49.7770	52.8370	57.4150
5	20:57:06	98.34%	50.1890	48.6180	46.6710	46.4880	49.3890	49.1000	52.4920	54.7370
x		99.23%	50.6340	48.6560	47.0110	48.0810	47.7580	49.3780	52.2900	55.7800
%RSD		0.87	0.8081	1.7465	1.5654	2.8568	2.6978	1.2340	3.6741	2.5488

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	99.20%	-0.0002	46.4660	47.5970	68.3100	47.6260	46.8710	49.3490	47.8640
2	20:55:07	99.49%	0.0044	45.9010	46.8910	69.5850	47.8660	49.2000	48.3340	48.1880
3	20:55:47	98.39%	0.0015	47.5170	47.7480	67.5000	48.5020	48.2580	48.4260	48.5070
4	20:56:27	99.13%	0.0152	46.6520	47.6450	67.4900	48.0570	46.7190	53.0190	47.9290
5	20:57:06	99.05%	0.0153	46.3260	47.3190	67.0680	47.3620	47.3970	53.1580	47.3560
x		99.05%	0.0072	46.5720	47.4400	67.9900	47.8820	47.6890	50.4570	47.9690
%RSD		0.41	103.5000	1.2799	0.7276	1.4683	0.9050	2.1750	4.8256	0.8886

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	49.0220	49.4860	49.3120	52.2200	47.0840	49.7100	46.7450	0.3167	99.54%
2	20:55:07	49.9500	49.9660	50.2970	50.4780	48.5540	49.9010	49.8390	0.2243	98.39%
3	20:55:47	49.4820	50.0500	50.1310	51.8780	48.8970	51.0220	50.6330	0.9902	99.18%
4	20:56:27	50.6270	49.7250	49.3040	50.9400	47.7160	49.7210	49.5470	0.9716	99.85%
5	20:57:06	49.4190	49.3320	49.1520	50.7460	47.2580	49.7180	49.8510	-0.3302	99.84%
x		49.7000	49.7120	49.6390	51.2530	47.9020	50.0140	49.3230	0.4345	99.36%
%RSD		1.2353	0.6152	1.0713	1.4733	1.6610	1.1374	3.0342	128.1300	0.61

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	0.0000	0.0000	0.0000	0.0000	0.0000	98.79%	48.5180	-0.3743	48.2790
2	20:55:07	0.0000	0.0000	0.0000	0.0000	0.0000	98.76%	49.4670	-1.5164	49.6900
3	20:55:47	0.0000	0.0000	0.0000	0.0000	0.0000	99.40%	50.1200	-2.8844	50.0470
4	20:56:27	0.0000	0.0000	0.0000	0.0000	0.0000	99.76%	50.1970	-0.0984	49.7560
5	20:57:06	0.0000	0.0000	0.0000	0.0000	0.0000	98.78%	48.8140	-2.8750	49.5390
x		0.0000	0.0000	0.0000	0.0000	0.0000	99.10%	49.4230	-1.5497	49.4620
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.46	1.5260	85.5260	1.3881

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	48.2380	0.0000	0.0000	46.0170	46.5110	47.5380	97.92%	46.2910	46.0060
2	20:55:07	49.3080	0.0000	0.0000	46.2080	46.4660	48.3800	99.71%	47.4040	47.0850
3	20:55:47	49.2260	0.0000	0.0000	46.2450	48.1080	50.0830	98.66%	47.5290	47.3870
4	20:56:27	48.9660	0.0000	0.0000	46.2920	47.9430	48.5170	98.75%	48.0900	47.4850
5	20:57:06	48.3250	0.0000	0.0000	45.8170	47.5810	49.1140	99.17%	45.9870	45.9910
x		48.8130	0.0000	0.0000	46.1160	47.3220	48.7270	98.84%	47.0600	46.7910
%RSD		1.0281	0.0000	0.0000	0.4268	1.6577	1.9379	0.67	1.8835	1.5780

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	20:54:28	48.9660	45.6360	46.7950	99.35%	0.4269
2	20:55:07	49.3170	45.9930	47.1590	99.17%	1.1421
3	20:55:47	49.2710	46.1940	47.2500	100.18%	-0.2857
4	20:56:27	49.2680	46.6110	47.4500	100.01%	0.4223
5	20:57:06	47.4430	44.7390	46.1950	101.20%	1.1135
x		48.8530	45.8340	46.9700	99.98%	0.5638
%RSD		1.6388	1.5416	1.0515	0.80	104.8200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	97.52%	200.4500	176.9700	180.2200	179.9400	184.4300	191.4700	206.1000	178.8600
2	20:59:27	96.21%	202.2300	183.8800	188.9600	189.3000	197.0000	196.2100	207.6800	196.1300
3	21:00:07	95.44%	204.9100	187.5100	187.8200	190.8400	187.5400	195.3400	207.6000	190.9300
4	21:00:47	95.93%	203.1000	186.2200	184.3200	188.7000	191.0200	194.8000	209.6000	186.3100
5	21:01:26	96.93%	196.8600	179.8100	183.2500	187.2600	192.3000	187.7000	201.3100	185.1700
x		96.40%	201.5100	182.8800	184.9200	187.2100	190.4600	193.1000	206.4600	187.4800
%RSD		0.86	1.5175	2.4143	1.9114	2.2762	2.5085	1.8202	1.5185	3.4539

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	97.10%	-0.0015	189.0800	189.4200	266.5000	193.6200	188.7900	186.9400	193.4400
2	20:59:27	96.82%	0.0033	189.2600	193.4600	276.6800	195.1300	190.8000	192.5400	194.3100
3	21:00:07	96.52%	0.0081	187.8800	192.0300	262.8700	197.9400	194.1000	181.2000	196.8400
4	21:00:47	96.94%	0.0001	189.1900	191.3300	265.9200	194.6600	192.4000	192.1700	196.0300
5	21:01:26	97.55%	0.0126	186.3300	185.9600	270.8200	190.5200	183.8800	187.8700	188.0300
x		96.99%	0.0045	188.3500	190.4400	268.5600	194.3700	189.9900	188.1400	193.7300
%RSD		0.39	127.6800	0.6696	1.5210	1.9935	1.3811	2.0750	2.4539	1.7851

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	198.8900	198.5800	197.7900	199.5300	191.2400	197.1500	199.2100	0.5958	97.26%
2	20:59:27	198.3300	199.9900	199.8800	204.7900	193.7000	196.9000	201.3600	0.5177	98.02%
3	21:00:07	203.0900	201.5600	203.5100	205.7400	194.0600	202.8300	202.5700	-0.6443	97.07%
4	21:00:47	201.0100	200.4500	202.5100	203.5700	192.5500	198.6900	203.3100	-0.0449	98.03%
5	21:01:26	194.9600	194.6100	195.7300	197.8000	187.5200	192.7600	195.1900	0.7150	98.02%
x		199.2600	199.0400	199.8800	202.2900	191.8100	197.6700	200.3300	0.2279	97.68%
%RSD		1.5316	1.3546	1.6160	1.7041	1.3767	1.8343	1.6301	249.3900	0.49

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	0.0000	0.0000	0.0000	0.0000	0.0000	98.28%	194.9100	-2.7607	194.7200
2	20:59:27	0.0000	0.0000	0.0000	0.0000	0.0000	98.52%	197.5100	-3.0486	198.6000
3	21:00:07	0.0000	0.0000	0.0000	0.0000	0.0000	97.69%	203.9800	-1.1152	202.9600
4	21:00:47	0.0000	0.0000	0.0000	0.0000	0.0000	98.19%	202.0900	-3.0674	203.4500
5	21:01:26	0.0000	0.0000	0.0000	0.0000	0.0000	98.30%	193.4700	-1.9055	194.8600
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.20%	198.3900	-2.3794	198.9200
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.31	2.2842	35.7180	2.1192

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	194.0100	0.0000	0.0000	180.3800	186.0100	191.6100	98.35%	188.9700	186.3300
2	20:59:27	193.5600	0.0000	0.0000	182.2200	187.1600	193.7400	98.47%	191.9500	191.5800
3	21:00:07	194.7300	0.0000	0.0000	185.9100	192.5600	198.1000	98.60%	192.7300	191.6900
4	21:00:47	194.5300	0.0000	0.0000	184.9200	186.9200	194.1100	98.73%	193.3200	192.0400
5	21:01:26	189.5900	0.0000	0.0000	181.6800	186.8200	190.5800	98.17%	186.4500	187.0600
x		193.2800	0.0000	0.0000	183.0200	187.8900	193.6300	98.46%	190.6800	189.7400
%RSD		1.0949	0.0000	0.0000	1.2613	1.4060	1.4971	0.22	1.5194	1.4745

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	20:58:47	193.7400	183.1800	188.2500	99.25%	0.4276
2	20:59:27	197.5000	186.8900	191.1300	99.52%	-0.2857
3	21:00:07	197.0800	185.9700	190.5500	100.27%	-0.2857
4	21:00:47	196.4400	183.9100	189.3800	100.14%	-0.2857
5	21:01:26	192.7900	181.9700	186.3300	100.24%	-0.2857
x		195.5100	184.3800	189.1300	99.88%	-0.1430
%RSD		1.0796	1.0948	1.0119	0.47	223.0300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	94.74%	513.8800	464.0600	466.1500	478.3300	471.6600	497.8900	520.2700	492.4900
2	21:03:47	94.78%	515.6800	467.5600	477.7800	477.6000	488.0200	499.2600	519.9900	487.1500
3	21:04:27	95.41%	513.2700	474.1400	474.5300	476.6100	477.4400	497.8400	524.3500	505.9100
4	21:05:07	94.19%	510.2900	473.6800	473.4400	473.0400	486.0900	491.3500	522.5300	486.7800
5	21:05:46	94.95%	497.6000	455.6100	458.0300	458.0900	473.1100	479.8600	504.6000	468.7900
x		94.82%	510.1400	467.0100	469.9900	472.7400	479.2600	493.2400	518.3500	488.2200
%RSD		0.46	1.4264	1.6390	1.6853	1.7843	1.5559	1.6394	1.5221	2.7329

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	94.34%	0.0054	500.7200	497.6000	691.5000	T516.7600	491.4000	498.4100	T525.0600
2	21:03:47	95.07%	0.0036	495.7400	505.7300	692.1400	T517.2100	492.2000	485.2200	T523.9700
3	21:04:27	95.14%	0.0004	495.7200	499.7500	696.5600	T512.5700	494.4800	487.8200	T518.3600
4	21:05:07	94.96%	-0.0028	T504.4300	493.2600	671.8000	T507.8900	483.4000	489.3300	T512.3500
5	21:05:46	94.14%	0.0087	478.2700	481.3900	669.0100	T498.4300	478.9300	486.5200	T503.0900
x		94.73%	0.0031	T494.9800	495.5500	684.2000	T510.5700	488.0800	489.4600	T516.5700
%RSD		0.48	144.6900	T2.0270	1.8369	1.8684	T1.5201	1.3536	1.0685	T1.7572

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	507.5100	516.7300	518.7000	516.6100	488.4900	M506.7400	M502.7200	0.9552	95.76%
2	21:03:47	514.1100	518.1500	519.4000	520.2500	492.2500	M500.0300	M512.3800	-0.3001	96.00%
3	21:04:27	505.5900	520.4700	508.6900	517.6600	488.5800	M506.3300	M501.9500	-0.1225	96.34%
4	21:05:07	498.8400	507.3900	499.1300	514.7600	481.3300	M501.5000	493.9400	0.4989	96.55%
5	21:05:46	499.2700	495.8000	491.3100	501.5700	474.0300	490.0800	488.6800	1.3425	95.55%
x		505.0600	511.7100	507.4500	514.1700	484.9400	M500.9400	M499.9300	0.4748	96.04%
%RSD		1.2540	1.9905	2.4145	1.4230	1.4984	M1.3454	M1.8148	146.7400	0.43

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	0.0000	0.0000	0.0000	0.0000	0.0000	96.16%	M502.8200	-10.6830	M502.9300
2	21:03:47	0.0000	0.0000	0.0000	0.0000	0.0000	96.98%	M504.2200	-3.3386	M503.0900
3	21:04:27	0.0000	0.0000	0.0000	0.0000	0.0000	97.15%	M509.3500	-2.6709	M507.0100
4	21:05:07	0.0000	0.0000	0.0000	0.0000	0.0000	96.89%	M507.4700	-1.4937	M507.9700
5	21:05:46	0.0000	0.0000	0.0000	0.0000	0.0000	96.92%	479.6500	-6.2237	481.4500
x		0.0000	0.0000	0.0000	0.0000	0.0000	96.82%	M500.7000	-4.8820	M500.4900
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.39	M2.4061	75.4020	M2.1744

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	492.3500	0.0000	0.0000	473.3000	479.0700	488.5700	97.09%	485.4600	495.3200
2	21:03:47	490.7300	0.0000	0.0000	471.5700	470.9800	487.6100	98.59%	492.8600	500.6300
3	21:04:27	498.0700	0.0000	0.0000	469.9300	475.6300	491.2700	98.75%	487.9500	492.6000
4	21:05:07	489.6100	0.0000	0.0000	469.6600	476.6300	489.1400	97.44%	492.0900	502.4700
5	21:05:46	476.0900	0.0000	0.0000	456.7000	456.8700	472.0300	98.11%	474.8800	477.7900
x		489.3700	0.0000	0.0000	468.2300	471.8400	485.7300	97.99%	486.6500	493.7600
%RSD		1.6561	0.0000	0.0000	1.4117	1.8789	1.6006	0.73	1.4886	1.9787

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:03:08	503.5600	474.1700	489.7000	98.16%	0.4356
2	21:03:47	509.3700	474.2900	491.2600	98.76%	3.2988
3	21:04:27	501.3900	469.1300	485.8800	100.73%	-0.2857
4	21:05:07	509.8200	473.4100	489.4700	99.20%	-0.2857
5	21:05:46	485.7600	457.0500	469.6400	100.20%	0.4209
x		501.9800	469.6100	485.1900	99.41%	0.7168
%RSD		1.9464	1.5621	1.8370	1.05	207.4400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	90.62%	┬2535.5000	┬2364.8000	┬2390.3000	2297.7000	2326.5000	┬2429.8000	┬2507.6000	2356.5000
2	21:08:07	91.95%	┬2538.0000	┬2385.0000	┬2410.0000	2313.4000	2342.7000	┬2427.8000	┬2539.4000	2352.3000
3	21:08:47	91.24%	┬2580.1000	┬2434.8000	┬2448.2000	2365.8000	2395.6000	┬2489.4000	┬2556.8000	2371.1000
4	21:09:27	91.88%	┬2556.1000	┬2392.1000	┬2440.2000	2305.0000	2347.2000	┬2434.1000	┬2523.7000	2369.3000
5	21:10:06	91.57%	┬2533.8000	┬2379.2000	┬2422.3000	2287.4000	2318.0000	┬2428.4000	┬2485.3000	2348.2000
x		91.45%	┬2548.7000	┬2391.2000	┬2422.2000	2313.9000	2346.0000	┬2441.9000	┬2522.6000	2359.5000
%RSD		0.60	┬0.7726	┬1.1036	┬0.9612	1.3218	1.2846	┬1.0921	┬1.0971	0.4338

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	90.67%	0.0146	┬2517.1000	┬2496.9000	3328.2000	┬2484.6000	┬2513.9000	2348.3000	┬2495.4000
2	21:08:07	89.98%	0.0114	┬2501.5000	┬2514.2000	3384.3000	┬2522.0000	┬2510.2000	2377.4000	┬2531.7000
3	21:08:47	89.47%	0.0184	┬2588.9000	┬2561.6000	3434.0000	┬2555.7000	┬2548.0000	2412.5000	┬2569.0000
4	21:09:27	90.97%	0.0061	┬2563.2000	┬2512.9000	3370.7000	┬2528.9000	┬2520.5000	2407.0000	┬2536.2000
5	21:10:06	90.36%	0.0215	┬2545.3000	┬2527.3000	3402.8000	┬2517.7000	┬2528.7000	2423.3000	┬2538.5000
x		90.29%	0.0144	┬2543.2000	┬2522.6000	3384.0000	┬2521.8000	┬2524.3000	2393.7000	┬2534.2000
%RSD		0.65	41.5760	┬1.3770	┬0.9643	1.1587	┬1.0120	┬0.5955	1.2757	┬1.0333

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	┬2523.8000	┬2541.5000	┬2531.9000	2501.6000	2421.5000	-0.1610	0.9810	-0.2624	90.80%
2	21:08:07	┬2551.5000	┬2569.8000	┬2558.9000	2540.6000	2445.3000	-0.0694	0.9557	0.4754	91.70%
3	21:08:47	┬2575.0000	┬2581.1000	┬2590.8000	2593.0000	2473.0000	0.0149	0.4337	1.1778	90.93%
4	21:09:27	┬2518.6000	┬2523.6000	┬2566.7000	2516.4000	2460.5000	0.1397	0.6616	-0.1572	90.48%
5	21:10:06	┬2518.4000	┬2557.2000	┬2542.1000	2505.0000	2429.1000	0.1098	-0.1142	1.4182	90.68%
x		┬2537.5000	┬2554.7000	┬2558.1000	2531.3000	2445.9000	0.0068	0.5836	0.5304	90.92%
%RSD		┬0.9867	┬0.8908	┬0.8933	1.4903	0.8724	1833.7000	77.2020	143.3400	0.52

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	0.0000	0.0000	0.0000	0.0000	0.0000	91.36%	0.6110	-10.1900	0.5754
2	21:08:07	0.0000	0.0000	0.0000	0.0000	0.0000	91.19%	0.6691	-18.5860	0.6839
3	21:08:47	0.0000	0.0000	0.0000	0.0000	0.0000	90.81%	1.0679	-21.8290	1.1268
4	21:09:27	0.0000	0.0000	0.0000	0.0000	0.0000	90.73%	1.6984	-4.7862	1.6907
5	21:10:06	0.0000	0.0000	0.0000	0.0000	0.0000	90.78%	0.6710	-21.2300	0.6955
x		0.0000	0.0000	0.0000	0.0000	0.0000	90.97%	0.9435	-15.3240	0.9545
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.31	48.7310	48.9690	48.4600

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	2433.8000	0.0000	0.0000	┬2455.7000	2307.7000	2420.1000	94.02%	┬2461.6000	┬2467.9000
2	21:08:07	2449.6000	0.0000	0.0000	┬2516.6000	2380.6000	2461.9000	92.89%	┬2518.5000	┬2529.8000
3	21:08:47	2495.5000	0.0000	0.0000	┬2525.7000	2384.7000	2499.3000	93.86%	┬2511.2000	┬2568.5000
4	21:09:27	2496.8000	0.0000	0.0000	┬2537.0000	2410.6000	2470.6000	93.13%	┬2528.2000	┬2531.7000
5	21:10:06	2469.1000	0.0000	0.0000	┬2496.3000	2372.1000	2452.8000	92.75%	┬2482.3000	┬2480.8000
x		2469.0000	0.0000	0.0000	┬2506.3000	2371.1000	2460.9000	93.33%	┬2500.4000	┬2515.7000
%RSD		1.1261	0.0000	0.0000	┬1.2750	1.6137	1.1663	0.62	┬1.1047	┬1.6333

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:07:28	┬2452.5000	┬2477.1000	┬2468.0000	94.72%	1.2092
2	21:08:07	┬2516.9000	┬2544.5000	┬2525.9000	93.98%	1.2210
3	21:08:47	┬2563.6000	┬2545.8000	┬2543.0000	94.34%	1.2152
4	21:09:27	┬2514.6000	┬2521.2000	┬2526.8000	94.93%	1.9518
5	21:10:06	┬2482.7000	┬2492.7000	┬2492.9000	94.29%	0.4652
x		┬2506.1000	┬2516.3000	┬2511.3000	94.45%	1.2125
%RSD		┬1.6588	┬1.2214	┬1.2071	0.40	43.3510

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	91.83%	TM 5011.3000	T 4801.2000	T 4836.6000	4655.2000	4680.0000	T 4885.0000	T 4958.7000	4721.1000
2	21:12:27	92.58%	T 4971.3000	T 4737.1000	T 4831.3000	4562.1000	4737.6000	T 4828.5000	T 4977.2000	4679.1000
3	21:13:07	92.70%	TM 5044.1000	T 4804.4000	T 4821.3000	4614.6000	4640.1000	T 4842.3000	T 5020.9000	4767.3000
4	21:13:47	92.42%	T 4975.0000	T 4837.8000	T 4858.2000	4491.9000	4650.6000	T 4784.9000	T 4950.8000	4607.5000
5	21:14:26	92.88%	T 4871.2000	T 4661.2000	T 4728.6000	4546.7000	4573.7000	T 4781.6000	T 4803.2000	4609.3000
x		92.48%	TM 4974.6000	T 4768.3000	T 4815.2000	4574.1000	4656.4000	T 4824.5000	T 4942.2000	4676.9000
%RSD		0.43	TM 1.3057	T 1.4703	T 1.0440	1.3766	1.2840	T 0.8919	T 1.6654	1.4932

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	89.33%	0.0168	TM 5023.7000	TM 5128.7000	6742.6000	TM 5072.7000	T 5073.3000	4721.7000	TM 5058.3000
2	21:12:27	90.86%	0.0162	TM 5014.3000	T 4989.3000	6691.9000	TM 5059.9000	T 5009.5000	4725.5000	TM 5007.2000
3	21:13:07	90.97%	0.0112	TM 5056.2000	T 4992.6000	6783.5000	TM 5013.4000	T 5070.0000	4764.1000	T 4983.9000
4	21:13:47	92.18%	0.0258	T 4921.6000	T 4931.1000	6630.4000	T 4921.8000	T 4839.7000	4575.0000	T 4956.5000
5	21:14:26	91.61%	0.0127	T 4881.2000	T 4906.2000	6531.1000	T 4873.7000	T 4896.4000	4608.1000	T 4901.7000
x		90.99%	0.0165	TM 4979.4000	TM 4989.6000	6675.9000	TM 4988.3000	T 4977.8000	4678.9000	TM 4981.5000
%RSD		1.17	34.3680	TM 1.4919	TM 1.7282	1.4854	TM 1.7488	T 2.1155	1.7584	TM 1.1685

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	TM 5087.7000	TM 5041.2000	TM 5067.7000	TM 5120.0000	TM 5116.4000	0.4570	0.7887	-0.7057	88.76%
2	21:12:27	T 4999.2000	T 4982.7000	TM 5046.8000	T 4994.0000	TM 5065.6000	0.0151	0.7198	0.4023	90.24%
3	21:13:07	T 4997.6000	TM 5094.9000	TM 5001.6000	TM 5035.0000	TM 5088.8000	0.1627	0.6425	0.9025	90.47%
4	21:13:47	T 4927.3000	T 4902.0000	T 4884.7000	T 4872.5000	T 4957.1000	-0.0590	1.6550	-0.5843	92.17%
5	21:14:26	T 4892.2000	T 4836.9000	T 4850.4000	T 4892.6000	T 4916.7000	0.7434	0.5845	1.7849	90.57%
x		TM 4980.8000	TM 4971.5000	TM 4970.2000	TM 4982.8000	TM 5028.9000	0.2638	0.8781	0.3600	90.44%
%RSD		TM 1.5143	TM 2.0891	TM 1.9617	TM 2.0555	TM 1.7320	126.2200	50.2380	289.8400	1.34

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	0.0000	0.0000	0.0000	0.0000	0.0000	88.05%	0.4807	-39.0740	0.5140
2	21:12:27	0.0000	0.0000	0.0000	0.0000	0.0000	87.95%	0.5757	-51.7070	0.6268
3	21:13:07	0.0000	0.0000	0.0000	0.0000	0.0000	90.83%	1.0440	-41.4170	1.0114
4	21:13:47	0.0000	0.0000	0.0000	0.0000	0.0000	90.69%	1.4003	-57.2500	1.3236
5	21:14:26	0.0000	0.0000	0.0000	0.0000	0.0000	89.71%	0.4578	-41.2770	0.4544
x		0.0000	0.0000	0.0000	0.0000	0.0000	89.45%	0.7917	-46.1450	0.7860
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.55	52.4230	17.1430	47.1370

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	T 5102.8000	0.0000	0.0000	TM 5058.7000	TM 5131.2000	TM 5061.2000	90.41%	TM 5042.5000	T 5025.8000
2	21:12:27	T 5150.9000	0.0000	0.0000	TM 5116.3000	TM 5162.3000	M 5111.6000	90.46%	TM 5032.9000	T 5049.2000
3	21:13:07	T 4992.7000	0.0000	0.0000	TM 5002.8000	TM 5060.8000	M 5019.0000	91.58%	TM 5072.6000	T 5071.9000
4	21:13:47	T 4952.5000	0.0000	0.0000	TM 5002.4000	TM 5050.0000	M 5011.2000	90.99%	TM 5062.0000	T 5053.6000
5	21:14:26	4885.3000	0.0000	0.0000	T 4823.6000	T 4934.5000	T 4903.1000	92.27%	T 4797.8000	T 4765.4000
x		T 5016.9000	0.0000	0.0000	TM 5000.8000	TM 5067.8000	TM 5021.2000	91.14%	TM 5001.6000	T 4993.2000
%RSD		T 2.1696	0.0000	0.0000	TM 2.1930	TM 1.7398	TM 1.5373	0.87	TM 2.2990	T 2.5709

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:11:48	T 5080.4000	T 5011.8000	T 5044.6000	90.72%	3.6166
2	21:12:27	T 5053.4000	T 5051.3000	T 5067.2000	91.49%	3.5837
3	21:13:07	T 5052.8000	T 5067.3000	T 5034.2000	91.24%	3.5940
4	21:13:47	T 4985.0000	T 5036.3000	T 5030.8000	91.42%	1.2632
5	21:14:26	T 4813.2000	T 4811.2000	T 4804.7000	93.07%	2.7573
x		T 4997.0000	T 4995.6000	T 4996.3000	91.59%	2.9629
%RSD		T 2.1737	T 2.1030	T 2.1630	0.96	34.3450

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	85.70%	1.4480	↹47870.0000	↹48727.0000	↹48837.0000	↹48743.0000	↹49635.0000	↹49864.0000	48089.0000
2	21:16:47	86.86%	1.0262	↹48689.0000	↹48125.0000	↹48710.0000	↹48564.0000	↹49087.0000	↹50053.0000	48726.0000
3	21:17:27	88.33%	0.6492	↹49281.0000	↹50274.0000	↹50074.0000	↹49796.0000	↹50285.0000	↹51490.0000	49661.0000
4	21:18:07	87.80%	0.4589	↹49362.0000	↹50024.0000	↹49502.0000	↹49926.0000	↹48824.0000	↹50734.0000	48759.0000
5	21:18:47	88.74%	0.3709	↹48197.0000	↹48012.0000	↹48202.0000	↹48373.0000	↹47928.0000	↹48977.0000	47275.0000
x		87.48%	0.7907	↹48680.0000	↹49032.0000	↹49065.0000	↹49081.0000	↹49152.0000	↹50224.0000	48502.0000
%RSD		1.39	56.3450	↹1.3455	↹2.1591	↹1.4879	↹1.4791	↹1.7991	↹1.8825	1.8256

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	85.75%	0.0109	1.0347	1.1520	↹49523.0000	2.2286	↹50273.0000	48580.0000	1.4398
2	21:16:47	88.27%	0.0224	0.6384	0.8170	↹50437.0000	1.7853	↹50660.0000	49045.0000	1.0485
3	21:17:27	89.24%	0.0322	0.3517	0.5571	↹50853.0000	1.5104	↹51001.0000	49636.0000	0.7498
4	21:18:07	90.90%	0.0146	0.1937	0.3098	↹50062.0000	1.4389	↹50328.0000	48455.0000	0.6431
5	21:18:47	92.39%	0.0174	0.0326	0.2351	↹48463.0000	1.3052	↹48743.0000	47157.0000	0.5300
x		89.31%	0.0195	0.4502	0.6142	↹49868.0000	1.6537	↹50201.0000	48575.0000	0.8822
%RSD		2.84	42.3480	87.9350	61.4630	↹1.8552	22.1350	↹1.7242	1.8903	41.5440

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	2.0961	2.2036	2.0130	2.0705	1.3750	0.4737	-0.7642	1.7665	85.76%
2	21:16:47	1.7302	1.5328	1.4894	1.5702	1.0067	0.2875	-0.2221	0.7068	86.18%
3	21:17:27	1.3450	1.3827	1.1839	1.0635	0.6364	0.4120	-0.1574	1.1209	88.35%
4	21:18:07	1.2668	1.0120	1.0360	0.9554	0.4659	0.2622	-0.2506	1.9690	89.27%
5	21:18:47	1.0332	0.9328	0.8887	0.9269	0.1943	0.8340	-0.6776	1.5115	90.82%
x		1.4943	1.4128	1.3222	1.3173	0.7357	0.4539	-0.4144	1.4149	88.08%
%RSD		28.0860	35.9490	33.7000	37.5570	62.9540	50.6120	68.4180	35.8260	2.41

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	0.0000	0.0000	0.0000	0.0000	0.0000	82.59%	0.2206	-0.5319	0.2487
2	21:16:47	0.0000	0.0000	0.0000	0.0000	0.0000	84.50%	0.3122	-0.3403	0.3123
3	21:17:27	0.0000	0.0000	0.0000	0.0000	0.0000	86.06%	0.5268	-0.0686	0.5685
4	21:18:07	0.0000	0.0000	0.0000	0.0000	0.0000	85.76%	0.9460	-0.7779	0.9361
5	21:18:47	0.0000	0.0000	0.0000	0.0000	0.0000	87.01%	0.3243	-0.4859	0.3405
x		0.0000	0.0000	0.0000	0.0000	0.0000	85.18%	0.4660	-0.4409	0.4812
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	2.00	62.3870	59.2050	58.4980

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	1.1292	0.0000	0.0000	2.7132	1.2001	1.2296	88.36%	1.7904	1.7227
2	21:16:47	0.7842	0.0000	0.0000	1.6840	0.8379	0.8188	88.57%	1.1347	1.0602
3	21:17:27	0.4824	0.0000	0.0000	1.2838	0.5890	0.4818	90.84%	0.7184	0.7112
4	21:18:07	0.3130	0.0000	0.0000	1.0072	0.3325	0.3103	90.41%	0.5129	0.5164
5	21:18:47	0.2382	0.0000	0.0000	0.8887	0.2181	0.2950	91.77%	0.4206	0.4044
x		0.5894	0.0000	0.0000	1.5154	0.6355	0.6271	89.99%	0.9154	0.8830
%RSD		62.3620	0.0000	0.0000	48.5820	62.3470	63.3620	1.64	61.3010	60.1810

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:16:08	1.3584	1.3520	1.3337	84.12%	-0.2857
2	21:16:47	0.8514	0.7942	0.8634	85.18%	1.3767
3	21:17:27	0.6137	0.5473	0.6063	84.82%	-0.2857
4	21:18:07	0.4353	0.3794	0.4142	86.32%	-0.2857
5	21:18:47	0.2809	0.2744	0.2838	87.23%	1.3377
x		0.7079	0.6695	0.7003	85.53%	0.3715
%RSD		59.4790	64.0980	59.3950	1.44	242.2800

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	83.21%	0.1812	T 99053.0000	TM 100200.0000	TM 100740.0000	T 99353.0000	T 99393.0000	TM 100030.0000	TM 101470.0000
2	21:21:08	82.58%	0.1587	TM 102700.0000	TM 100550.0000	TM 102230.0000	TM 102380.0000	TM 102220.0000	TM 100470.0000	TM 101440.0000
3	21:21:48	83.61%	0.1535	TM 101690.0000	TM 100930.0000	TM 100550.0000	TM 100960.0000	TM 101890.0000	TM 100760.0000	TM 100790.0000
4	21:22:27	83.50%	0.1497	TM 100690.0000	TM 101510.0000	TM 100240.0000	TM 100600.0000	T 99548.0000	TM 100330.0000	TM 101360.0000
5	21:23:07	83.40%	0.1339	T 99243.0000	T 99278.0000	T 98703.0000	T 99111.0000	T 99118.0000	T 97860.0000	T 98769.0000
x		83.26%	0.1554	TM 100670.0000	TM 100490.0000	TM 100490.0000	TM 100480.0000	TM 100430.0000	TM 99890.0000	TM 100770.0000
%RSD		0.49	11.0280	TM 1.5553	TM 0.8310	TM 1.2549	TM 1.3172	TM 1.4871	TM 1.1667	TM 1.1430

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	88.35%	0.0189	-0.2024	0.1406	TM 100060.0000	2.2526	TM 100800.0000	TM 101550.0000	0.6930
2	21:21:08	88.21%	0.0311	-0.2260	0.1996	TM 100810.0000	2.3039	TM 100810.0000	TM 101350.0000	0.7288
3	21:21:48	89.51%	0.0339	-0.2500	0.1804	T 99720.0000	2.3124	TM 100440.0000	TM 101240.0000	0.7703
4	21:22:27	90.36%	0.0385	-0.2186	0.1973	TM 100270.0000	2.2574	TM 100140.0000	TM 100340.0000	0.7205
5	21:23:07	90.86%	0.0433	-0.1676	0.2044	T 98933.0000	2.1358	T 97309.0000	T 99183.0000	0.7142
x		89.46%	0.0331	-0.2129	0.1845	TM 99959.0000	2.2524	TM 99900.0000	TM 100730.0000	0.7253
%RSD		1.32	27.8060	14.3680	14.1700	TM 0.6975	3.1298	TM 1.4763	TM 0.9746	3.9135

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	1.8601	1.0205	1.2163	0.9022	0.0551	1.2014	-0.6942	2.7632	84.02%
2	21:21:08	2.0231	1.1048	1.1858	0.8162	0.0804	1.3176	-0.7052	3.6227	85.26%
3	21:21:48	1.8755	1.1115	1.0716	0.7444	0.0677	1.4988	-0.5985	2.6072	86.00%
4	21:22:27	1.8845	1.0819	1.0972	0.8698	0.2078	2.0691	-0.2013	2.1505	86.31%
5	21:23:07	1.8716	1.0375	1.0078	0.8778	0.2601	2.0452	-0.0440	2.4227	85.99%
x		1.9030	1.0712	1.1157	0.8421	0.1342	1.6264	-0.4486	2.7133	85.52%
%RSD		3.5594	3.7845	7.6246	7.4769	69.5550	25.0440	68.1180	20.5370	1.08

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	0.0000	0.0000	0.0000	0.0000	0.0000	81.45%	0.2893	0.0454	0.2683
2	21:21:08	0.0000	0.0000	0.0000	0.0000	0.0000	81.81%	0.3236	-1.2539	0.3202
3	21:21:48	0.0000	0.0000	0.0000	0.0000	0.0000	81.41%	0.5667	-0.7629	0.5336
4	21:22:27	0.0000	0.0000	0.0000	0.0000	0.0000	81.80%	0.7258	-0.9919	0.6819
5	21:23:07	0.0000	0.0000	0.0000	0.0000	0.0000	82.79%	0.2343	-0.1582	0.2176
x		0.0000	0.0000	0.0000	0.0000	0.0000	81.85%	0.4280	-0.6243	0.4043
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.68	48.9560	88.3410	48.5650

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	0.0398	0.0000	0.0000	0.5319	0.1572	0.1345	84.54%	0.1844	0.1863
2	21:21:08	0.0818	0.0000	0.0000	0.5413	0.1366	0.1163	85.25%	0.1521	0.1639
3	21:21:48	0.1095	0.0000	0.0000	0.4866	0.0880	0.1452	85.28%	0.1500	0.1522
4	21:22:27	0.0500	0.0000	0.0000	0.4582	0.1564	0.0993	85.04%	0.1258	0.1401
5	21:23:07	0.0394	0.0000	0.0000	0.4163	0.2035	0.0814	85.48%	0.1209	0.1241
x		0.0641	0.0000	0.0000	0.4869	0.1484	0.1154	85.12%	0.1466	0.1533
%RSD		47.9240	0.0000	0.0000	10.6710	28.1250	22.3910	0.42	17.2620	15.3980

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:20:28	0.1925	0.1965	0.2094	77.92%	-0.2857
2	21:21:08	0.2270	0.2097	0.2069	77.65%	-0.2857
3	21:21:48	0.1979	0.1712	0.1913	77.99%	0.6221
4	21:22:27	0.2065	0.1997	0.1956	78.27%	-0.2857
5	21:23:07	0.2207	0.2010	0.2013	78.52%	0.6160
x		0.2089	0.1956	0.2009	78.07%	0.0762
%RSD		7.0270	7.4101	3.7680	0.43	650.4400

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	96.34%	99.6940	T1962.0000	1163.6000	1127.4000	1149.3000	508.1100	2045.5000	1920.4000
2	21:25:29	96.23%	99.7690	T2002.8000	1157.1000	1140.3000	1160.6000	511.5600	T2056.5000	1933.2000
3	21:26:08	96.01%	101.2000	T1985.6000	1177.2000	1144.1000	1166.1000	507.1100	2037.1000	1945.9000
4	21:26:48	96.91%	98.6020	T1989.1000	1153.0000	1134.3000	1153.6000	508.5900	T2050.6000	1972.9000
5	21:27:28	97.01%	98.1270	T1936.4000	1125.2000	1104.3000	1108.3000	T502.1100	1994.7000	1884.2000
x		96.50%	99.4780	T1975.2000	1155.2000	1130.1000	1147.6000	T507.4900	T2036.9000	1931.3000
%RSD		0.46	1.1984	T1.3257	1.6553	1.3933	1.9914	T0.6774	T1.2088	1.6939

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	99.53%	0.0090	92.3120	92.9270	980.9500	93.2170	994.7300	986.6900	93.6490
2	21:25:29	100.05%	0.0028	92.4730	93.0230	982.1900	93.5620	1001.5000	995.3000	95.1000
3	21:26:08	100.39%	0.0225	91.9250	92.8920	968.1400	93.7810	991.4400	964.0100	95.9380
4	21:26:48	99.21%	0.0168	93.9960	93.0490	990.5500	95.2510	1004.7000	983.1200	95.4090
5	21:27:28	100.23%	0.0149	90.0560	90.2460	975.8700	90.5950	959.1400	940.7400	91.5340
x		99.88%	0.0132	92.1520	92.4270	979.5400	93.2810	990.3100	973.9700	94.3260
%RSD		0.50	57.3670	1.5322	1.3212	0.8444	1.8120	1.8387	2.2402	1.8834

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	99.4960	97.1450	99.1860	199.4100	192.6800	199.0200	200.9400	-0.1193	99.71%
2	21:25:29	98.9550	98.4670	99.3180	203.7000	192.8100	200.1200	197.3400	0.1369	99.81%
3	21:26:08	98.2980	97.1910	99.1940	201.3300	193.3100	198.9700	202.9600	-0.2028	99.73%
4	21:26:48	100.1500	98.9020	99.0600	201.8800	191.8900	202.2900	199.9500	-0.3076	98.89%
5	21:27:28	96.6020	95.2980	94.9490	195.7500	188.3700	194.4600	195.7000	-1.3840	99.92%
x		98.6990	97.4010	98.3410	200.4200	191.8100	198.9700	199.3800	-0.3754	99.61%
%RSD		1.3740	1.4448	1.9305	1.5076	1.0380	1.4371	1.4462	156.4700	0.41

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	0.0000	0.0000	0.0000	0.0000	0.0000	99.20%	96.5740	-0.3350	96.5930
2	21:25:29	0.0000	0.0000	0.0000	0.0000	0.0000	99.73%	98.4780	-1.1908	98.5840
3	21:26:08	0.0000	0.0000	0.0000	0.0000	0.0000	98.72%	99.0330	-0.9583	99.5960
4	21:26:48	0.0000	0.0000	0.0000	0.0000	0.0000	98.66%	100.2200	0.0165	100.3500
5	21:27:28	0.0000	0.0000	0.0000	0.0000	0.0000	98.56%	95.9560	-1.7766	95.6270
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.97%	98.0530	-0.8488	98.1490
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.49	1.7985	83.3560	2.0308

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	96.5460	0.0000	0.0000	178.5500	94.9090	97.7120	97.27%	193.1000	193.0600
2	21:25:29	97.1710	0.0000	0.0000	179.7300	94.9430	98.8730	99.92%	193.6900	194.9900
3	21:26:08	98.2960	0.0000	0.0000	179.1800	94.6300	98.2840	99.29%	193.9200	192.1300
4	21:26:48	98.1850	0.0000	0.0000	180.2400	94.5550	100.0200	98.07%	195.5300	195.0800
5	21:27:28	95.3540	0.0000	0.0000	178.9400	92.4750	94.9030	99.06%	188.7500	190.3000
x		97.1100	0.0000	0.0000	179.3300	94.3030	97.9580	98.72%	193.0000	193.1100
%RSD		1.2578	0.0000	0.0000	0.3698	1.0982	1.9493	1.07	1.3168	1.0443

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:24:49	194.4300	188.9700	190.1800	98.95%	0.4298
2	21:25:29	193.5300	188.3700	189.0000	99.87%	1.8410
3	21:26:08	191.9000	188.0600	188.9600	101.07%	-0.2857
4	21:26:48	196.0000	188.7100	190.2700	99.80%	0.4237
5	21:27:28	189.6800	185.1000	185.8000	100.13%	0.4214
x		193.1100	187.8400	188.8400	99.97%	0.5660
%RSD		1.2554	0.8361	0.9582	0.76	137.1500

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	95.38%	0.0864	4.9755	2.1193	2.3195	2.0196	1.5295	9.2479	0.4294
2	21:29:52	97.29%	0.0805	5.5260	2.4744	2.1956	2.6839	2.1482	6.8549	1.1421
3	21:30:32	98.73%	0.0686	4.8564	2.8411	2.6991	2.6929	2.4975	8.2654	1.1430
4	21:31:11	98.01%	0.0952	4.6359	2.6643	3.2058	3.2216	2.3263	4.0927	1.5941
5	21:31:51	99.30%	0.0578	3.7850	2.1461	2.6748	2.2434	1.8224	4.4191	-0.3919
x		97.74%	0.0777	4.7558	2.4490	2.6190	2.5723	2.0648	6.5760	0.7834
%RSD		1.55	18.9610	13.3340	12.9320	15.0670	18.0490	18.8820	34.7520	99.3310

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	97.94%	-0.0047	0.0613	0.0662	2.8385	0.0331	3.3387	4.4686	0.0348
2	21:29:52	98.56%	-0.0063	0.0677	0.0380	3.4471	0.0297	3.1629	4.4296	0.0420
3	21:30:32	99.40%	0.0013	0.0700	0.0014	4.6781	0.0488	3.8434	4.4926	0.0388
4	21:31:11	101.73%	0.0070	0.0575	0.0400	2.4675	0.0312	2.3569	3.9502	0.0437
5	21:31:51	100.48%	0.0012	0.0742	0.0441	3.3472	0.0404	2.5362	3.8851	0.0367
x		99.62%	-0.0003	0.0662	0.0380	3.3557	0.0366	3.0476	4.2452	0.0392
%RSD		1.52	1862.6000	10.1450	61.4200	24.9930	21.7350	19.8910	7.0842	9.4130

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	0.0400	0.0928	0.0733	0.1644	0.0399	0.6829	0.0576	-0.2394	97.03%
2	21:29:52	0.0369	0.1665	0.2046	0.0712	-0.0220	0.5638	-0.1695	0.3524	97.99%
3	21:30:32	0.0520	0.1173	0.0376	0.1749	0.0867	0.3356	-0.0290	-0.5333	98.34%
4	21:31:11	0.0406	0.1367	0.0919	0.2059	0.0971	0.2395	0.2311	-0.7177	98.45%
5	21:31:51	0.0487	0.0975	0.1048	0.1109	0.1090	0.3464	0.0924	0.0753	99.01%
x		0.0437	0.1222	0.1024	0.1455	0.0621	0.4336	0.0365	-0.2125	98.16%
%RSD		14.6650	24.7900	60.9890	37.0010	86.6740	42.2080	406.4900	205.2000	0.75

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	0.0000	0.0000	0.0000	0.0000	0.0000	97.18%	0.1688	-1.3911	0.1763
2	21:29:52	0.0000	0.0000	0.0000	0.0000	0.0000	98.04%	0.1772	-0.1593	0.1734
3	21:30:32	0.0000	0.0000	0.0000	0.0000	0.0000	98.73%	0.2437	-0.7715	0.2463
4	21:31:11	0.0000	0.0000	0.0000	0.0000	0.0000	98.56%	0.4039	-0.7875	0.3900
5	21:31:51	0.0000	0.0000	0.0000	0.0000	0.0000	98.37%	0.1245	0.2175	0.1165
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.18%	0.2236	-0.5784	0.2205
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.63	48.9270	107.6500	47.7730

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	0.0863	0.0000	0.0000	0.7079	0.0157	0.0253	95.49%	0.0980	0.1009
2	21:29:52	0.0425	0.0000	0.0000	0.5646	0.0404	0.0002	97.36%	0.0805	0.0774
3	21:30:32	0.0589	0.0000	0.0000	0.4747	0.0405	0.0642	96.82%	0.0757	0.0740
4	21:31:11	0.0512	0.0000	0.0000	0.4314	0.0569	0.0198	97.79%	0.0743	0.0628
5	21:31:51	0.0412	0.0000	0.0000	0.3283	0.0564	0.0293	99.13%	0.0546	0.0527
x		0.0560	0.0000	0.0000	0.5014	0.0420	0.0278	97.32%	0.0767	0.0736
%RSD		32.7940	0.0000	0.0000	28.5920	39.9420	83.6750	1.37	20.2470	24.6200

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:29:12	0.0400	0.0560	0.0444	98.13%	-0.2857
2	21:29:52	0.0590	0.0770	0.0545	98.74%	0.4313
3	21:30:32	0.0628	0.0582	0.0499	99.58%	-0.2857
4	21:31:11	0.0390	0.0466	0.0437	99.70%	0.4244
5	21:31:51	0.0388	0.0415	0.0403	99.98%	-0.2857
x		0.0479	0.0558	0.0466	99.23%	-0.0003
%RSD		24.8450	24.4340	12.0490	0.77	147460.0000

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	80.94%	0.3368	T 97697.0000	T 96085.0000	T 97700.0000	T 99522.0000	TM 100360.0000	TM 106080.0000	TM 103100.0000
2	21:34:12	80.15%	0.3195	T 99098.0000	T 98505.0000	T 98129.0000	TM 101070.0000	TM 100420.0000	TM 105920.0000	TM 103700.0000
3	21:34:51	80.84%	0.2921	T 98521.0000	T 96754.0000	T 98478.0000	T 99342.0000	TM 101090.0000	TM 107080.0000	TM 103700.0000
4	21:35:31	80.03%	0.3185	T 98811.0000	T 95830.0000	T 98063.0000	T 98959.0000	T 99546.0000	TM 106590.0000	TM 102970.0000
5	21:36:11	80.04%	0.3197	T 96698.0000	T 97590.0000	T 98757.0000	T 98955.0000	T 99693.0000	TM 106300.0000	TM 102640.0000
x		80.40%	0.3173	T 98165.0000	T 96953.0000	T 98225.0000	TM 99569.0000	TM 100220.0000	TM 106390.0000	TM 103220.0000
%RSD		0.56	5.0525	T 0.9909	T 1.1380	T 0.4128	TM 0.8776	TM 0.6203	TM 0.4296	TM 0.4534

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	85.40%	307.0800	-3.0125	18.9080	TM 100740.0000	8.2022	TM 101250.0000	TM 103380.0000	1.2910
2	21:34:12	85.53%	303.6700	-2.6521	18.8170	TM 100510.0000	8.5148	TM 101140.0000	TM 102590.0000	1.3180
3	21:34:51	85.26%	309.5200	-2.5765	18.7730	TM 100770.0000	8.5811	TM 101470.0000	TM 102890.0000	1.3658
4	21:35:31	86.08%	304.6400	-2.5784	18.5650	T 98441.0000	8.2150	TM 100970.0000	TM 101900.0000	1.3453
5	21:36:11	86.34%	303.9300	-2.8195	18.4360	T 99232.0000	8.1908	TM 100180.0000	TM 102260.0000	1.3281
x		85.72%	305.7700	-2.7278	18.7000	TM 99937.0000	8.3408	TM 101000.0000	TM 102610.0000	1.3296
%RSD		0.54	0.8154	6.8678	1.0362	TM 1.0486	2.2871	TM 0.4877	TM 0.5542	2.1205

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	6.5128	7.3996	7.7769	11.3420	0.2221	-0.0589	0.0750	0.7599	87.48%
2	21:34:12	6.6704	7.4421	8.0174	10.9410	0.3483	0.4736	0.3112	0.4591	87.34%
3	21:34:51	6.6665	7.5730	8.0012	11.7100	0.2475	-0.3139	-0.2406	2.7460	87.34%
4	21:35:31	6.3651	7.4799	8.1135	11.0080	0.1474	-0.3355	-0.0227	1.5121	88.22%
5	21:36:11	6.4946	7.3806	7.9385	10.8670	0.2195	0.4637	-0.5115	2.3997	87.96%
x		6.5419	7.4550	7.9695	11.1740	0.2369	0.0458	-0.0777	1.5754	87.67%
%RSD		1.9692	1.0243	1.5632	3.1391	30.6190	875.6700	402.9500	63.1980	0.46

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	0.0000	0.0000	0.0000	0.0000	T 0.0000	84.02%	0.1017	13.9660	0.1080
2	21:34:12	0.0000	0.0000	0.0000	0.0000	T 0.0000	84.00%	0.0826	13.5870	0.0853
3	21:34:51	0.0000	0.0000	0.0000	0.0000	T 0.0000	84.06%	0.0669	14.3680	0.0684
4	21:35:31	0.0000	0.0000	0.0000	0.0000	T 0.0000	85.03%	0.0472	14.5510	0.0566
5	21:36:11	0.0000	0.0000	0.0000	0.0000	T 0.0000	85.00%	0.0526	13.4120	0.0513
x		0.0000	0.0000	0.0000	0.0000	T 0.0000	84.42%	0.0702	13.9770	0.0739
%RSD		0.0000	0.0000	0.0000	0.0000	T 0.0000	0.64	31.7940	3.4947	31.2140

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	0.4919	0.0000	0.0000	1.4134	1.4913	1.4705	90.61%	0.0995	0.0860
2	21:34:12	0.7284	0.0000	0.0000	1.3052	1.5944	1.5748	90.57%	0.0575	0.0774
3	21:34:51	0.5573	0.0000	0.0000	1.3373	1.4873	1.4706	90.00%	0.0693	0.0662
4	21:35:31	0.3905	0.0000	0.0000	1.2325	1.4659	1.4970	90.49%	0.0522	0.0577
5	21:36:11	0.6252	0.0000	0.0000	1.2023	1.4019	1.4773	92.56%	0.0499	0.0536
x		0.5587	0.0000	0.0000	1.2981	1.4881	1.4981	90.85%	0.0657	0.0682
%RSD		22.9890	0.0000	0.0000	6.4860	4.6607	2.9538	1.09	30.9880	19.7920

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:33:32	4.7726	4.2151	4.3842	82.23%	0.5753
2	21:34:12	4.6886	3.9811	4.2762	82.96%	-0.2857
3	21:34:51	4.6693	4.1124	4.3136	83.02%	-0.2857
4	21:35:31	4.7400	4.1139	4.3379	83.54%	1.4092
5	21:36:11	4.6623	4.0864	4.3326	83.48%	0.5624
x		4.7066	4.1018	4.3289	83.05%	0.3951
%RSD		1.0163	2.0365	0.9062	0.64	179.6700

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	81.71%	18.8840	T 96068.0000	T 93136.0000	T 96617.0000	T 99005.0000	T 98972.0000	TM 104810.0000	TM 101190.0000
2	21:38:32	81.63%	19.2710	T 98337.0000	T 95009.0000	T 98397.0000	TM 100260.0000	TM 100220.0000	TM 108340.0000	TM 102850.0000
3	21:39:11	81.47%	19.4370	T 98025.0000	T 95688.0000	T 96594.0000	TM 100040.0000	TM 100550.0000	TM 109230.0000	TM 101900.0000
4	21:39:51	81.91%	19.0630	T 98704.0000	T 94842.0000	T 96227.0000	T 97651.0000	T 99349.0000	TM 109620.0000	TM 102580.0000
5	21:40:31	81.30%	18.5120	T 95550.0000	T 91991.0000	T 95094.0000	T 96947.0000	T 99415.0000	TM 105680.0000	TM 101570.0000
x		81.61%	19.0330	T 97337.0000	T 94133.0000	T 96586.0000	TM 98781.0000	TM 99702.0000	TM 107540.0000	TM 102020.0000
%RSD		0.29	1.8840	T 1.4660	T 1.6171	T 1.2289	TM 1.4722	TM 0.6603	TM 2.0129	TM 0.6763

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	86.09%	300.8200	16.4990	38.0810	T 98567.0000	27.1670	TM 100110.0000	TM 100890.0000	19.7390
2	21:38:32	85.67%	305.5400	16.8680	38.3160	TM 100590.0000	27.5890	TM 101550.0000	TM 103330.0000	20.2100
3	21:39:11	87.38%	304.9800	16.2810	37.3390	T 99998.0000	27.3940	T 99656.0000	TM 102740.0000	20.0510
4	21:39:51	86.67%	300.1900	16.0860	37.8570	T 99420.0000	27.3160	T 99131.0000	TM 102940.0000	19.8850
5	21:40:31	87.63%	299.2300	15.4960	36.8080	T 97338.0000	26.6820	T 99121.0000	TM 100200.0000	19.5060
x		86.69%	302.1500	16.2460	37.6800	TM 99184.0000	27.2300	TM 99914.0000	TM 102020.0000	19.8780
%RSD		0.96	0.9603	3.1386	1.6111	TM 1.2848	1.2555	TM 1.0051	TM 1.3547	1.3729

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	25.0480	24.8520	25.5780	27.4460	17.7100	17.7930	15.3160	3.7469	88.38%
2	21:38:32	25.3750	25.4490	25.8480	28.0380	18.0020	18.9420	16.9850	0.3400	88.99%
3	21:39:11	25.4260	25.9440	26.1380	27.1290	19.1290	18.2080	17.9470	1.2760	89.25%
4	21:39:51	25.2980	25.4980	26.0100	27.1450	18.4180	18.5490	16.7240	2.9572	89.45%
5	21:40:31	24.4400	24.8160	24.8590	27.6330	18.2450	16.7750	16.8250	2.5588	91.08%
x		25.1170	25.3120	25.6870	27.4780	18.3010	18.0540	16.7590	2.1758	89.43%
%RSD		1.6154	1.8855	1.9766	1.3762	2.9176	4.6022	5.6226	62.5370	1.12

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	0.0000	0.0000	0.0000	0.0000	T 0.0000	84.68%	18.0810	13.5820	18.0760
2	21:38:32	0.0000	0.0000	0.0000	0.0000	T 0.0000	85.93%	18.5690	14.3920	18.3140
3	21:39:11	0.0000	0.0000	0.0000	0.0000	T 0.0000	86.54%	18.5760	15.0010	18.4230
4	21:39:51	0.0000	0.0000	0.0000	0.0000	T 0.0000	86.83%	18.3280	14.2300	18.4420
5	21:40:31	0.0000	0.0000	0.0000	0.0000	T 0.0000	86.80%	18.0540	13.3970	17.9670
x		0.0000	0.0000	0.0000	0.0000	T 0.0000	86.16%	18.3220	14.1200	18.2450
%RSD		0.0000	0.0000	0.0000	0.0000	T 0.0000	1.05	1.3789	4.5827	1.1673

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	18.7750	0.0000	0.0000	19.9890	21.0980	21.8030	91.83%	20.1260	20.0950
2	21:38:32	18.9760	0.0000	0.0000	19.8730	21.3060	21.9430	93.50%	20.5720	20.1840
3	21:39:11	19.3100	0.0000	0.0000	20.7090	22.2930	21.6120	93.39%	21.0370	20.6990
4	21:39:51	18.9190	0.0000	0.0000	19.5790	20.6010	21.1760	94.70%	20.8350	20.3480
5	21:40:31	19.0640	0.0000	0.0000	19.7700	20.9920	21.5000	95.64%	19.9670	20.1810
x		19.0090	0.0000	0.0000	19.9840	21.2580	21.6070	93.81%	20.5080	20.3020
%RSD		1.0438	0.0000	0.0000	2.1639	2.9772	1.3655	1.54	2.2207	1.1827

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:37:52	25.7560	23.3480	24.3250	83.52%	-0.2857
2	21:38:32	25.4610	24.1330	24.3510	84.54%	1.3893
3	21:39:11	25.7650	24.5580	24.7400	83.82%	2.2484
4	21:39:51	25.9500	24.1380	24.7060	84.76%	2.2202
5	21:40:31	24.9800	24.0870	23.9860	85.56%	-0.2857
x		25.5820	24.0530	24.4220	84.44%	1.0573
%RSD		1.4833	1.8199	1.2725	0.95	120.4600

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	86.52%	↹2542.3000	↹49264.0000	↹49148.0000	↹49597.0000	↹49742.0000	↹49974.0000	↹51035.0000	48714.0000
2	21:42:52	87.20%	↹2541.8000	↹48845.0000	↹48445.0000	↹48509.0000	↹49248.0000	↹48838.0000	↹49968.0000	47200.0000
3	21:43:32	87.19%	↹2571.9000	↹49695.0000	↹50077.0000	↹49557.0000	↹49686.0000	↹49148.0000	↹50978.0000	48919.0000
4	21:44:11	87.34%	↹2539.3000	↹49421.0000	↹49231.0000	↹48626.0000	↹49256.0000	↹48910.0000	↹50622.0000	49221.0000
5	21:44:51	87.75%	↹2457.7000	↹47230.0000	↹47361.0000	↹47604.0000	↹47090.0000	↹47179.0000	↹49129.0000	46813.0000
x		87.20%	↹2530.6000	↹48891.0000	↹48852.0000	↹48779.0000	↹49005.0000	↹48810.0000	↹50346.0000	48174.0000
%RSD		0.50	↹1.6944	↹2.0009	↹2.0778	↹1.7002	↹2.2349	↹2.0843	↹1.5931	2.2605

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	90.06%	0.1692	↹2595.9000	↹2526.4000	↹49551.0000	↹2501.1000	↹49335.0000	47321.0000	↹2488.5000
2	21:42:52	92.69%	0.1312	↹2550.6000	↹2445.7000	↹48859.0000	↹2422.2000	↹48048.0000	46887.0000	↹2445.9000
3	21:43:32	92.12%	0.0988	↹2592.0000	↹2498.9000	↹49227.0000	↹2474.2000	↹48785.0000	47432.0000	↹2484.5000
4	21:44:11	91.83%	0.0659	↹2622.2000	↹2490.8000	↹49018.0000	↹2442.0000	↹48530.0000	47237.0000	↹2491.9000
5	21:44:51	92.72%	0.0486	↹2502.3000	↹2424.7000	↹47644.0000	↹2350.1000	↹46863.0000	45483.0000	↹2407.9000
x		91.88%	0.1028	↹2572.6000	↹2477.3000	↹48860.0000	↹2437.9000	↹48312.0000	46872.0000	↹2463.7000
%RSD		1.18	47.5110	↹1.8244	↹1.6680	↹1.4889	↹2.3646	↹1.9324	1.7129	↹1.4736

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	2457.0000	↹2402.6000	↹2383.3000	2345.4000	2439.5000	258.5000	257.1300	1.7187	90.74%
2	21:42:52	↹2396.2000	↹2357.4000	↹2360.8000	2283.3000	2403.1000	253.2300	255.4400	1.4861	91.57%
3	21:43:32	2449.5000	↹2380.0000	↹2371.0000	2328.7000	2439.4000	258.5800	260.0000	0.1100	91.28%
4	21:44:11	2434.0000	↹2382.6000	↹2375.1000	2310.1000	2408.2000	260.1700	255.3900	3.3268	91.36%
5	21:44:51	↹2340.8000	↹2278.0000	↹2302.2000	2209.3000	2340.2000	247.9100	246.3100	1.8801	92.57%
x		↹2415.5000	↹2360.1000	↹2358.5000	2295.3000	2406.1000	255.6800	254.8500	1.7043	91.51%
%RSD		↹1.9826	↹2.0598	↹1.3772	2.3248	1.6850	1.9828	2.0132	67.2370	0.73

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	0.0000	0.0000	0.0000	0.0000	0.0000	88.11%	258.4600	-14.0490	259.8200
2	21:42:52	0.0000	0.0000	0.0000	0.0000	0.0000	89.07%	258.1900	-29.8090	257.2700
3	21:43:32	0.0000	0.0000	0.0000	0.0000	0.0000	87.63%	263.6600	-24.2290	265.0800
4	21:44:11	0.0000	0.0000	0.0000	0.0000	0.0000	88.12%	263.3700	-21.2290	264.1100
5	21:44:51	0.0000	0.0000	0.0000	0.0000	0.0000	88.56%	249.9500	-23.2220	251.6500
x		0.0000	0.0000	0.0000	0.0000	0.0000	88.30%	258.7300	-22.5070	259.5800
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.61	2.1461	25.3260	2.1020

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	2453.4000	0.0000	0.0000	↹2569.7000	2448.3000	2534.0000	91.68%	↹2573.0000	↹2585.1000
2	21:42:52	2397.7000	0.0000	0.0000	↹2506.0000	2403.6000	2476.7000	92.64%	↹2534.9000	↹2550.1000
3	21:43:32	2447.6000	0.0000	0.0000	↹2574.1000	2468.4000	2539.5000	91.06%	↹2616.3000	↹2623.8000
4	21:44:11	2417.3000	0.0000	0.0000	↹2525.6000	2436.2000	2496.9000	91.85%	↹2559.8000	↹2595.5000
5	21:44:51	2379.2000	0.0000	0.0000	↹2456.5000	2348.5000	2440.1000	91.84%	↹2499.2000	↹2502.2000
x		2419.0000	0.0000	0.0000	↹2526.4000	2421.0000	2497.5000	91.81%	↹2556.7000	↹2571.3000
%RSD		1.3143	0.0000	0.0000	↹1.9249	1.9355	1.6549	0.62	↹1.7060	↹1.8189

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:42:13	↹2595.1000	↹2578.6000	↹2584.3000	85.86%	2.1882
2	21:42:52	↹2539.3000	↹2540.4000	↹2545.1000	86.88%	2.1592
3	21:43:32	↹2599.2000	↹2588.1000	↹2603.8000	85.34%	3.8625
4	21:44:11	↹2548.3000	↹2544.9000	↹2551.2000	86.47%	1.3518
5	21:44:51	↹2479.3000	↹2460.2000	↹2474.6000	86.91%	-0.2857
x		↹2552.2000	↹2542.5000	↹2551.8000	86.29%	1.8552
%RSD		↹1.9148	↹1.9817	↹1.9369	0.79	81.1650

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	96.05%	0.5692	24.1650	12.7720	13.3580	13.1250	12.3280	44.1050	14.2520
2	21:47:13	97.85%	0.4248	20.4170	10.4160	11.4160	11.6300	11.0090	35.6980	8.4089
3	21:47:53	98.21%	0.3857	17.2940	8.6054	8.3954	9.0109	8.4555	29.9600	7.3291
4	21:48:32	99.06%	0.2825	13.8120	6.7276	7.0767	7.1793	6.5684	26.4960	3.7728
5	21:49:12	98.74%	0.2967	12.2680	5.0866	4.9754	5.6567	4.7622	21.7130	5.5666
x		97.98%	0.3918	17.5910	8.7214	9.0442	9.3204	8.6246	31.5940	7.8658
%RSD		1.20	29.5430	27.5440	34.6250	37.1190	33.0320	36.0060	27.3950	50.6150

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	96.73%	0.0128	0.4050	0.4346	14.5180	0.3894	13.5990	12.4430	0.4300
2	21:47:13	99.17%	0.0260	0.2892	0.3214	14.3850	0.3319	11.6690	13.6360	0.2830
3	21:47:53	99.51%	0.0182	0.3013	0.2330	11.1310	0.2678	9.7272	12.2900	0.2520
4	21:48:32	99.43%	0.0136	0.2576	0.1881	8.8002	0.2291	7.8191	7.1510	0.2257
5	21:49:12	100.58%	0.0285	0.2243	0.2069	5.4802	0.1816	6.6932	3.9481	0.1859
x		99.09%	0.0198	0.2955	0.2768	10.8630	0.2800	9.9015	9.8936	0.2753
%RSD		1.43	36.0460	23.0650	36.8300	35.3750	29.3910	28.3210	42.0160	33.9680

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	0.4136	0.9788	0.5451	0.6339	0.6229	1.9037	0.2159	0.3710	97.45%
2	21:47:13	0.2771	0.7355	0.4127	0.4128	0.6197	2.0163	0.5072	-0.8868	99.17%
3	21:47:53	0.2446	0.5722	0.3056	0.3889	0.3136	1.5618	-0.2164	0.4690	100.00%
4	21:48:32	0.2175	0.5127	0.3913	0.2359	0.4996	1.9040	0.8353	-2.0836	101.87%
5	21:49:12	0.1346	0.3305	0.2353	0.2379	0.4066	1.3922	0.5996	-1.1873	101.46%
x		0.2574	0.6260	0.3780	0.3819	0.4925	1.7556	0.3883	-0.6635	99.99%
%RSD		39.6240	39.0880	30.9990	42.7390	27.3570	15.1110	104.1300	163.2500	1.79

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	0.0000	0.0000	0.0000	0.0000	0.0000	97.72%	0.1786	-0.4765	0.1767
2	21:47:13	0.0000	0.0000	0.0000	0.0000	0.0000	99.83%	0.1328	0.3488	0.1515
3	21:47:53	0.0000	0.0000	0.0000	0.0000	0.0000	100.56%	0.1403	-0.2214	0.1519
4	21:48:32	0.0000	0.0000	0.0000	0.0000	0.0000	101.26%	0.1801	-0.7315	0.1695
5	21:49:12	0.0000	0.0000	0.0000	0.0000	0.0000	102.02%	0.0777	-0.5207	0.0800
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.28%	0.1419	-0.3203	0.1459
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.64	29.4990	129.8000	26.3620

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	0.3689	0.0000	0.0000	1.8598	0.4065	0.4109	98.50%	0.7796	0.7302
2	21:47:13	0.3134	0.0000	0.0000	1.2219	0.2999	0.3015	100.63%	0.4763	0.4959
3	21:47:53	0.2501	0.0000	0.0000	0.9519	0.2418	0.2525	100.85%	0.4062	0.3504
4	21:48:32	0.1948	0.0000	0.0000	0.7238	0.2303	0.2817	102.77%	0.2932	0.2839
5	21:49:12	0.1748	0.0000	0.0000	0.6830	0.2297	0.1638	102.68%	0.2317	0.2205
x		0.2604	0.0000	0.0000	1.0881	0.2816	0.2821	101.09%	0.4374	0.4162
%RSD		31.1460	0.0000	0.0000	44.2880	26.8400	31.6220	1.74	48.8550	48.8160

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:46:34	0.4431	0.4195	0.4518	99.41%	-0.2857
2	21:47:13	0.3795	0.3309	0.3596	101.21%	-0.2857
3	21:47:53	0.3135	0.3130	0.3041	102.78%	-0.2857
4	21:48:32	0.2268	0.2282	0.2373	103.67%	0.3972
5	21:49:12	0.1789	0.1893	0.1907	104.24%	0.3935
x		0.3083	0.2962	0.3087	102.26%	-0.0133
%RSD		35.0190	30.5460	33.2390	1.92	2809.7000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	101.83%	0.1002	8.3318	2.3245	1.3751	2.3346	1.8428	17.5250	2.3420
2	21:51:34	101.27%	0.1271	8.1133	2.1451	2.5837	2.2867	1.7962	15.8980	3.4852
3	21:52:13	102.43%	0.1057	7.2703	2.0998	1.6976	2.0122	1.7551	14.6630	-0.6550
4	21:52:53	103.30%	0.0970	7.0099	1.7864	1.5193	1.7154	1.5711	13.3550	1.9834
5	21:53:33	102.63%	0.0816	7.0375	1.6855	1.3137	1.6005	1.4606	12.2950	1.9342
x		102.29%	0.1023	7.5526	2.0082	1.6979	1.9899	1.6851	14.7470	1.8180
%RSD		0.76	16.1270	8.2718	13.1870	30.4380	16.5610	9.6378	13.9810	83.4700

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	100.79%	0.0117	0.0038	0.0504	10.8570	0.0864	2.6974	6.8287	0.0918
2	21:51:34	101.78%	0.0325	0.0772	0.0465	8.6708	0.0791	2.8165	4.6069	0.0666
3	21:52:13	102.73%	0.0217	0.0844	-0.0096	8.6948	0.0655	2.9078	4.1435	0.0582
4	21:52:53	102.64%	0.0247	0.0725	0.0514	8.2816	0.0490	3.4481	2.0310	0.0471
5	21:53:33	102.31%	0.0248	0.0509	0.0069	11.0240	0.0531	4.1314	0.4474	0.0533
x		102.05%	0.0231	0.0577	0.0291	9.5056	0.0666	3.2002	3.6115	0.0634
%RSD		0.78	32.5340	56.5330	97.7380	13.9010	24.1740	18.5800	68.0130	27.4270

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	0.0783	0.2497	0.1204	0.4231	0.2001	0.6444	0.1764	-0.5467	101.80%
2	21:51:34	0.0776	0.3027	0.1235	0.4547	0.0784	1.0474	-0.2277	1.7728	101.98%
3	21:52:13	0.0591	0.1773	0.1032	0.3816	0.0316	0.8652	-0.1077	-0.4230	103.01%
4	21:52:53	0.0617	0.1850	0.0903	0.3662	0.2339	0.5862	0.3914	-0.8906	103.05%
5	21:53:33	0.0542	0.2156	0.0923	0.4441	-0.0494	0.5064	-0.5055	0.9970	103.48%
x		0.0662	0.2260	0.1060	0.4139	0.0989	0.7299	-0.0546	0.1819	102.66%
%RSD		16.7220	22.7830	14.5800	9.3422	118.9900	30.4070	639.6200	629.3200	0.71

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	0.0000	0.0000	0.0000	0.0000	0.0000	101.19%	0.0449	-0.2610	0.0414
2	21:51:34	0.0000	0.0000	0.0000	0.0000	0.0000	101.11%	0.0519	-0.3198	0.0477
3	21:52:13	0.0000	0.0000	0.0000	0.0000	0.0000	103.21%	0.0644	-0.0766	0.0843
4	21:52:53	0.0000	0.0000	0.0000	0.0000	0.0000	102.90%	0.1143	-0.8005	0.1262
5	21:53:33	0.0000	0.0000	0.0000	0.0000	0.0000	102.62%	0.0371	0.4036	0.0295
x		0.0000	0.0000	0.0000	0.0000	0.0000	102.21%	0.0625	-0.2109	0.0658
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.97	48.9980	206.3800	59.9490

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	0.0538	0.0000	0.0000	0.3837	0.0869	0.0519	101.62%	0.1254	0.1317
2	21:51:34	0.0744	0.0000	0.0000	0.4186	0.1186	0.0752	102.46%	0.1002	0.1075
3	21:52:13	0.0914	0.0000	0.0000	0.3266	0.0855	0.0790	102.68%	0.0919	0.0932
4	21:52:53	0.0754	0.0000	0.0000	0.2801	0.1174	0.0838	102.78%	0.0727	0.0795
5	21:53:33	0.0536	0.0000	0.0000	0.2646	0.0219	0.0461	103.83%	0.0753	0.0665
x		0.0697	0.0000	0.0000	0.3347	0.0861	0.0672	102.67%	0.0931	0.0957
%RSD		23.0660	0.0000	0.0000	19.7100	45.6050	25.2940	0.77	22.9370	26.4150

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:50:54	0.0978	0.1277	0.1074	102.35%	-0.2857
2	21:51:34	0.0872	0.1080	0.0933	102.78%	-0.2857
3	21:52:13	0.0792	0.0865	0.0830	103.71%	-0.2857
4	21:52:53	0.0755	0.0634	0.0666	103.05%	-0.2857
5	21:53:33	0.0634	0.0517	0.0550	103.84%	-0.2857
x		0.0806	0.0875	0.0811	103.15%	-0.2857
%RSD		15.9330	35.7240	25.7240	0.61	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	101.87%	1.9722	T933.9000	898.2300	874.7300	916.5800	38.1360	983.9900	913.5700
2	21:55:55	101.61%	1.9463	T947.3900	904.8100	891.9400	925.8700	38.6520	1013.0000	925.1000
3	21:56:34	101.99%	2.0200	T959.9300	918.1200	914.0500	922.5600	38.6750	1002.8000	921.5000
4	21:57:14	103.26%	2.0566	T948.7300	910.4400	894.0700	912.8000	37.2420	1012.7000	938.8600
5	21:57:54	103.42%	1.8555	T934.7000	897.2200	873.9600	915.9000	37.3660	981.2000	942.9900
x		102.43%	1.9701	T944.9300	905.7600	889.7500	918.7400	38.0140	998.7400	928.4000
%RSD		0.82	3.9063	T1.1495	0.9642	1.8545	0.5797	1.8009	1.5348	1.3201

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	100.81%	0.0117	9.7237	3.7527	374.6900	1.9395	380.5200	371.9200	1.9180
2	21:55:55	102.22%	0.0144	9.9802	3.6833	372.6800	1.8866	380.8400	381.2500	1.8567
3	21:56:34	102.96%	0.0186	10.0240	3.7808	376.9400	1.9327	384.7500	376.3400	1.9112
4	21:57:14	103.87%	0.0066	10.0640	3.6615	370.0100	1.8370	377.5400	376.5000	1.8706
5	21:57:54	103.32%	0.0081	9.9355	3.7009	376.7300	1.8522	374.6000	376.8000	1.8618
x		102.64%	0.0119	9.9454	3.7158	374.2100	1.8896	379.6500	376.5600	1.8837
%RSD		1.15	40.8050	1.3359	1.3328	0.7792	2.4425	1.0043	0.8766	1.5283

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	1.9920	3.9536	3.9555	3.9797	1.6709	8.9256	9.6378	0.2698	101.72%
2	21:55:55	2.0094	4.0988	4.0461	3.8272	2.0060	9.5712	9.8535	-1.9913	102.75%
3	21:56:34	2.1273	3.9537	4.0962	3.8830	1.9124	9.9374	9.6457	-1.4639	102.70%
4	21:57:14	1.9115	3.9846	4.0418	3.9086	1.5568	9.3658	8.3464	0.1686	104.23%
5	21:57:54	1.9608	3.7895	3.6818	4.0449	1.9239	9.0092	8.6802	-0.8358	103.80%
x		2.0002	3.9560	3.9643	3.9287	1.8140	9.3618	9.2327	-0.7705	103.04%
%RSD		4.0092	2.7959	4.1831	2.1638	10.5060	4.4359	7.2876	128.8000	0.96

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	0.0000	0.0000	0.0000	0.0000	0.0000	101.23%	2.0283	-0.0565	2.0101
2	21:55:55	0.0000	0.0000	0.0000	0.0000	0.0000	102.67%	1.9795	-0.2106	2.0427
3	21:56:34	0.0000	0.0000	0.0000	0.0000	0.0000	102.26%	2.0068	-0.5382	2.0594
4	21:57:14	0.0000	0.0000	0.0000	0.0000	0.0000	103.98%	2.0617	-0.0634	2.0567
5	21:57:54	0.0000	0.0000	0.0000	0.0000	0.0000	103.05%	2.0205	-0.5274	2.0082
x		0.0000	0.0000	0.0000	0.0000	0.0000	102.64%	2.0194	-0.2792	2.0354
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.99	1.4902	85.8000	1.2197

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	2.0244	0.0000	0.0000	3.7621	19.1940	18.7030	101.03%	1.8644	1.8847
2	21:55:55	1.7425	0.0000	0.0000	3.8194	17.9930	18.6740	102.69%	1.9098	1.8531
3	21:56:34	1.8938	0.0000	0.0000	3.9130	18.7820	18.7890	102.38%	1.9166	1.9041
4	21:57:14	1.8725	0.0000	0.0000	3.8991	18.0220	18.7380	103.72%	1.9604	1.8771
5	21:57:54	1.8857	0.0000	0.0000	3.8238	18.4180	19.0390	104.33%	1.8369	1.8310
x		1.8838	0.0000	0.0000	3.8435	18.4820	18.7890	102.83%	1.8976	1.8700
%RSD		5.3063	0.0000	0.0000	1.6207	2.7733	0.7775	1.24	2.5332	1.5221

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:55:15	1.9165	1.8795	1.8997	101.44%	-0.2857
2	21:55:55	1.9615	1.8851	1.9139	102.04%	-0.2857
3	21:56:34	1.8551	1.9833	1.9088	103.63%	-0.2857
4	21:57:14	2.0460	1.8006	1.9132	103.66%	-0.2857
5	21:57:54	1.9428	1.8676	1.8656	105.12%	-0.2857
x		1.9444	1.8832	1.9002	103.18%	-0.2857
%RSD		3.5788	3.4721	1.0625	1.41	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	93.93%	0.7234	τ72.6740	τ1600.5000	1506.5000	1554.0000	τ14133.0000	τ3076.7000	2133.9000
2	22:00:16	93.44%	0.7100	54.6290	τ1579.2000	1517.5000	1541.9000	τ13955.0000	τ3111.2000	2097.8000
3	22:00:55	93.42%	0.6808	54.6330	τ1611.3000	1503.4000	1515.6000	τ13943.0000	τ3041.7000	2111.9000
4	22:01:35	92.86%	0.6948	56.0930	τ1602.6000	1507.3000	1551.5000	τ14069.0000	τ3060.3000	2093.6000
5	22:02:15	92.66%	0.7582	55.5110	τ1590.9000	1508.1000	1508.1000	τ13939.0000	τ3061.2000	2063.5000
x		93.26%	0.7135	τ58.7080	τ1596.9000	1508.6000	1534.2000	τ14008.0000	τ3070.2000	2100.1000
%RSD		0.54	4.1627	τ13.3400	τ0.7675	0.3517	1.3739	τ0.6308	τ0.8478	1.2300

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	99.20%	15.1890	26.6410	21.6700	13002.0000	243.4500	τ13851.0000	13020.0000	4.0665
2	22:00:16	100.29%	15.3830	26.0120	21.7590	12857.0000	τ255.8400	τ13725.0000	12735.0000	4.0959
3	22:00:55	102.11%	14.6100	26.4760	21.4070	12791.0000	239.2500	τ13605.0000	12770.0000	4.1282
4	22:01:35	101.30%	14.7410	26.6140	21.6960	12802.0000	240.1800	τ13655.0000	12762.0000	4.0772
5	22:02:15	101.33%	14.8630	25.8280	21.2920	12664.0000	238.4200	τ13706.0000	12580.0000	4.1022
x		100.85%	14.9570	26.3140	21.5650	12823.0000	τ243.4300	τ13708.0000	12774.0000	4.0940
%RSD		1.11	2.1432	1.4104	0.9420	0.9560	τ2.9556	τ0.6746	1.2351	0.5832

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	11.5860	8.9813	8.8752	24.6560	3.8570	0.1709	0.1081	0.7221	104.10%
2	22:00:16	11.7540	8.7269	8.9362	25.0100	3.9449	0.2796	0.1731	1.4932	105.34%
3	22:00:55	11.1230	8.7745	9.0435	24.6580	4.0130	-0.1265	1.0348	-0.3606	105.96%
4	22:01:35	11.6320	9.0497	9.0151	24.9530	3.8800	-0.1938	0.4031	-0.2031	105.11%
5	22:02:15	11.1310	8.9143	8.9187	24.5060	3.9610	0.2532	0.5530	-0.6085	104.52%
x		11.4450	8.8894	8.9577	24.7570	3.9312	0.0767	0.4544	0.2086	105.01%
%RSD		2.5919	1.5340	0.7784	0.8696	1.6034	288.3900	81.4660	420.2600	0.69

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	0.0000	0.0000	0.0000	0.0000	0.0000	98.39%	0.0551	-1.4031	0.0472
2	22:00:16	0.0000	0.0000	0.0000	0.0000	0.0000	100.29%	0.0529	-1.3844	0.0418
3	22:00:55	0.0000	0.0000	0.0000	0.0000	0.0000	100.84%	0.0657	-0.3246	0.0571
4	22:01:35	0.0000	0.0000	0.0000	0.0000	0.0000	100.78%	0.0925	-0.9129	0.0850
5	22:02:15	0.0000	0.0000	0.0000	0.0000	0.0000	100.72%	0.0545	-1.5473	0.0421
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.20%	0.0641	-1.1145	0.0546
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.03	25.9420	45.0450	33.0780

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	0.1633	0.0000	0.0000	0.1704	71.8040	76.2100	102.10%	0.1471	0.1399
2	22:00:16	0.1709	0.0000	0.0000	0.1438	74.1300	76.6820	102.21%	0.1274	0.1190
3	22:00:55	0.1392	0.0000	0.0000	0.1806	75.2330	75.4440	102.32%	0.1201	0.1289
4	22:01:35	0.0948	0.0000	0.0000	0.1281	71.5660	75.9970	101.66%	0.1340	0.1390
5	22:02:15	0.1630	0.0000	0.0000	0.1659	72.5300	75.7830	101.60%	0.1183	0.1369
x		0.1463	0.0000	0.0000	0.1577	73.0520	76.0230	101.98%	0.1294	0.1328
%RSD		21.2920	0.0000	0.0000	13.5370	2.1598	0.6109	0.32	9.0497	6.6447

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	21:59:36	21.3600	19.9360	20.2170	100.32%	0.4200
2	22:00:16	21.3840	20.1020	20.3330	101.59%	-0.2857
3	22:00:55	21.9100	20.1270	20.6050	100.51%	0.4187
4	22:01:35	21.4370	19.5560	20.2440	101.02%	-0.2857
5	22:02:15	20.9870	19.3460	19.9370	101.14%	-0.2857
x		21.4160	19.8130	20.2670	100.92%	-0.0037
%RSD		1.5367	1.7501	1.1844	0.50	10515.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	92.57%	10.5670	59.2810	┬1658.3000	1522.3000	1574.0000	┬15207.0000	┬3194.7000	2147.3000
2	22:04:36	92.70%	10.3670	60.7290	┬1685.9000	1593.7000	1628.3000	┬15547.0000	┬3288.4000	2174.6000
3	22:05:16	92.50%	10.5190	61.0240	┬1688.2000	1593.4000	1615.1000	┬15640.0000	┬3341.1000	2196.6000
4	22:05:55	93.01%	10.4090	┬65.6010	┬1658.6000	1593.6000	1628.9000	┬15428.0000	┬3279.6000	2180.3000
5	22:06:35	93.29%	10.0580	59.5970	┬1626.5000	1545.3000	1593.2000	┬15159.0000	┬3199.1000	2150.4000
x		92.81%	10.3840	┬61.2460	┬1663.5000	1569.7000	1607.9000	┬15396.0000	┬3260.6000	2169.8000
%RSD		0.35	1.9187	┬4.1518	┬1.5103	2.1496	1.4842	┬1.3610	┬1.9231	0.9598

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	101.09%	16.4790	122.9900	58.1900	13087.0000	340.0700	┬13957.0000	13037.0000	95.1790
2	22:04:36	100.80%	16.5610	124.6800	59.1160	13159.0000	347.9100	┬14263.0000	13177.0000	97.3070
3	22:05:16	100.94%	18.1690	125.2800	59.0310	13382.0000	351.4000	┬14209.0000	13301.0000	95.9920
4	22:05:55	102.30%	16.5580	123.1200	57.7640	13073.0000	346.2500	┬13791.0000	12994.0000	93.2630
5	22:06:35	101.36%	15.5780	121.9900	56.8640	12841.0000	335.9600	┬13509.0000	12832.0000	92.2090
x		101.30%	16.6690	123.6100	58.1930	13109.0000	344.3200	┬13946.0000	13068.0000	94.7900
%RSD		0.59	5.6131	1.0840	1.6082	1.4818	1.8058	┬2.2241	1.3722	2.1701

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	103.6700	54.4760	55.9660	113.9400	11.1110	17.9440	16.8370	-0.8441	104.99%
2	22:04:36	105.3700	54.9140	56.0370	115.5700	11.3380	17.6690	18.9060	-0.0001	105.81%
3	22:05:16	106.3600	56.5130	55.5120	115.5600	11.0400	17.7490	18.0390	0.1510	105.57%
4	22:05:55	105.2300	55.2650	55.8380	113.9500	10.8370	17.4320	18.0220	0.1742	106.45%
5	22:06:35	101.9800	54.4240	55.4580	113.3900	10.8090	16.4560	18.1880	-2.5915	106.39%
x		104.5200	55.1180	55.7620	114.4800	11.0270	17.4500	17.9980	-0.6221	105.84%
%RSD		1.6432	1.5456	0.4731	0.8871	1.9637	3.3523	4.1308	189.2800	0.57

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	0.0000	0.0000	0.0000	0.0000	0.0000	99.98%	9.3587	-0.9235	9.5308
2	22:04:36	0.0000	0.0000	0.0000	0.0000	0.0000	99.45%	9.8021	-2.1033	9.7178
3	22:05:16	0.0000	0.0000	0.0000	0.0000	0.0000	100.37%	9.7675	-0.4239	9.7774
4	22:05:55	0.0000	0.0000	0.0000	0.0000	0.0000	100.81%	9.7929	-0.5655	9.7730
5	22:06:35	0.0000	0.0000	0.0000	0.0000	0.0000	101.65%	9.4250	-1.0916	9.3092
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.45%	9.6292	-1.0216	9.6216
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.83	2.2674	64.7480	2.0936

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	9.6309	0.0000	0.0000	4.4422	451.7200	463.7000	99.75%	9.4095	9.2118
2	22:04:36	9.6516	0.0000	0.0000	4.4870	464.5900	469.5000	100.52%	9.6349	9.3813
3	22:05:16	9.6005	0.0000	0.0000	4.4729	457.6300	475.7200	101.85%	9.5184	9.3577
4	22:05:55	9.4819	0.0000	0.0000	4.5310	447.6800	465.1300	102.84%	9.4750	9.4291
5	22:06:35	9.1226	0.0000	0.0000	4.2683	441.5500	456.6500	102.42%	9.2190	9.0005
x		9.4975	0.0000	0.0000	4.4403	452.6300	466.1400	101.48%	9.4514	9.2761
%RSD		2.3124	0.0000	0.0000	2.2813	1.9640	1.5169	1.28	1.6260	1.8766

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:03:56	24.8520	22.9920	23.7690	99.18%	-0.2857
2	22:04:36	25.4070	23.4140	24.2040	99.39%	-0.2857
3	22:05:16	25.3260	23.7830	24.2670	100.14%	-0.2857
4	22:05:55	25.2830	23.2040	23.9960	100.70%	0.4174
5	22:06:35	24.9180	22.9780	23.4530	101.11%	0.4145
x		25.1570	23.2740	23.9380	100.10%	-0.0050
%RSD		1.0089	1.4425	1.3956	0.83	7631.8000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	92.05%	0.7093	62.2860	T1610.7000	1528.1000	1555.7000	T15488.0000	T3136.2000	2122.6000
2	22:08:58	92.19%	0.6983	62.4240	T1637.1000	1542.5000	1580.4000	T15485.0000	T3196.6000	2145.3000
3	22:09:37	92.76%	0.6994	63.2380	T1670.4000	1541.5000	1589.1000	T15711.0000	T3204.4000	2178.8000
4	22:10:17	92.45%	0.6583	62.4340	T1621.7000	1532.5000	1592.6000	T15471.0000	T3239.1000	2148.8000
5	22:10:57	93.27%	0.7164	62.1530	T1605.2000	1526.0000	1550.6000	T15292.0000	T3191.6000	2164.3000
x		92.54%	0.6963	62.5070	T1629.0000	1534.2000	1573.7000	T15489.0000	T3193.6000	2152.0000
%RSD		0.53	3.2339	0.6794	T1.6045	0.4931	1.2281	T0.9604	T1.1605	0.9834

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	101.28%	15.7160	26.9650	21.4240	12885.0000	248.7400	T13552.0000	12734.0000	4.1120
2	22:08:58	101.87%	15.3350	27.1330	21.8560	12742.0000	252.4400	T13702.0000	12703.0000	4.1110
3	22:09:37	100.72%	16.0370	27.2910	21.9130	13025.0000	257.4000	T13919.0000	12909.0000	4.1562
4	22:10:17	101.54%	15.4880	26.9310	21.3920	12886.0000	253.8900	T13657.0000	12682.0000	4.0727
5	22:10:57	99.66%	16.9030	27.0040	21.9000	12765.0000	253.2800	T13607.0000	12646.0000	4.0717
x		101.01%	15.8960	27.0650	21.6970	12861.0000	253.1500	T13687.0000	12735.0000	4.1047
%RSD		0.86	3.9135	0.5459	1.2215	0.8809	1.2270	T1.0289	0.8041	0.8490

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	11.6940	9.1688	9.0371	27.4910	3.7937	0.2682	0.6155	-0.0889	105.29%
2	22:08:58	11.3460	9.0150	8.9214	27.2780	3.9244	-0.0032	0.6377	-0.8232	107.57%
3	22:09:37	11.7170	9.1175	9.3704	26.9770	4.0147	0.4081	0.9545	-0.8078	106.12%
4	22:10:17	11.2630	8.9782	9.1161	27.2080	3.8264	-0.1650	0.4664	-0.4672	105.80%
5	22:10:57	11.6330	9.0640	9.1318	26.5790	3.6687	0.2991	0.1733	0.3681	105.58%
x		11.5310	9.0687	9.1154	27.1070	3.8456	0.1614	0.5695	-0.3638	106.07%
%RSD		1.8263	0.8450	1.8113	1.2824	3.4189	146.8700	49.8650	139.4900	0.84

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	0.0000	0.0000	0.0000	0.0000	0.0000	100.33%	0.0458	-0.7829	0.0369
2	22:08:58	0.0000	0.0000	0.0000	0.0000	0.0000	100.96%	0.0473	-0.4116	0.0346
3	22:09:37	0.0000	0.0000	0.0000	0.0000	0.0000	100.46%	0.0655	-0.9404	0.0491
4	22:10:17	0.0000	0.0000	0.0000	0.0000	0.0000	100.43%	0.0768	0.3982	0.0623
5	22:10:57	0.0000	0.0000	0.0000	0.0000	0.0000	99.40%	0.0640	-0.7187	0.0344
x		0.0000	0.0000	0.0000	0.0000	0.0000	100.32%	0.0599	-0.4911	0.0435
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.56	21.9370	108.5200	27.9400

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	0.1747	0.0000	0.0000	0.1442	75.9040	78.2970	101.26%	0.1188	0.1333
2	22:08:58	0.1082	0.0000	0.0000	0.1483	78.3250	79.4780	101.81%	0.1246	0.1256
3	22:09:37	0.1349	0.0000	0.0000	0.1526	77.5190	80.1230	101.44%	0.1277	0.1223
4	22:10:17	0.0739	0.0000	0.0000	0.1268	77.6490	78.6330	101.58%	0.1319	0.1335
5	22:10:57	0.0957	0.0000	0.0000	0.1005	76.2200	78.3430	100.83%	0.1265	0.1238
x		0.1175	0.0000	0.0000	0.1345	77.1230	78.9750	101.38%	0.1259	0.1277
%RSD		33.0730	0.0000	0.0000	15.9000	1.3258	1.0104	0.36	3.8095	4.1951

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:08:18	22.2250	19.9900	21.0610	99.35%	-0.2857
2	22:08:58	22.6410	21.1380	21.6340	100.23%	0.4207
3	22:09:37	23.0720	20.7770	21.5850	100.57%	0.4183
4	22:10:17	22.4320	20.7270	21.4490	100.00%	0.4223
5	22:10:57	22.1350	20.4940	21.0050	100.22%	-0.2857
x		22.5010	20.6250	21.3470	100.07%	0.1380
%RSD		1.6638	2.0543	1.3816	0.45	280.3300

MF9M48L-5x 06/22/2015 22:11:59

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	91.87%	0.1573	12.4160	301.8500	306.3600	319.1400	τ2921.6000	612.0400	437.9800
2	22:13:18	91.11%	0.1575	12.1190	308.7500	304.6900	315.0300	τ2919.0000	623.3900	441.2000
3	22:13:58	92.79%	0.1898	12.1150	303.5800	306.1800	311.4300	τ2930.6000	631.2400	426.7700
4	22:14:38	93.12%	0.1557	12.6020	312.6400	313.0000	322.6600	τ2897.5000	619.6000	440.5900
5	22:15:17	91.88%	0.1739	12.9880	310.2600	310.7500	312.2800	τ2898.7000	622.6600	431.1500
x		92.15%	0.1669	12.4480	307.4100	308.2000	316.1100	τ2913.5000	621.7900	435.5400
%RSD		0.87	8.8924	2.9373	1.4812	1.1389	1.4991	τ0.5034	1.1161	1.4502

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	98.15%	3.2089	5.2982	4.3418	2544.1000	48.8450	τ2827.7000	2585.2000	0.8505
2	22:13:18	98.72%	3.2652	5.3723	4.4810	2599.4000	49.7230	τ2851.4000	2674.0000	0.8851
3	22:13:58	98.96%	3.0376	5.4652	4.4148	2586.1000	49.5650	τ2893.0000	2636.0000	0.8559
4	22:14:38	99.50%	3.8701	5.3961	4.4139	2647.9000	50.2390	τ2881.0000	2653.7000	0.8400
5	22:15:17	99.19%	3.0657	5.5756	4.5097	2584.3000	48.7290	τ2845.3000	2644.1000	0.8421
x		98.90%	3.2895	5.4215	4.4323	2592.4000	49.4200	τ2859.7000	2638.6000	0.8547
%RSD		0.52	10.2840	1.9330	1.4793	1.4389	1.2764	τ0.9353	1.2530	2.1225

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	2.4855	1.9107	1.8937	5.7082	0.9108	0.3927	0.5783	-0.9523	103.00%
2	22:13:18	2.3632	1.9487	2.1484	5.5573	0.8571	0.7468	0.0580	1.0883	101.97%
3	22:13:58	2.2728	1.8331	1.9181	5.8461	0.9136	0.4358	0.4111	0.1494	102.55%
4	22:14:38	2.3028	1.9318	1.9731	6.1968	0.8685	0.2427	0.0917	0.8426	102.89%
5	22:15:17	2.3384	1.8202	1.8027	5.8410	0.9993	0.5319	0.7507	-0.5310	101.90%
x		2.3525	1.8889	1.9472	5.8299	0.9098	0.4700	0.3779	0.1194	102.46%
%RSD		3.4801	3.1018	6.5846	4.0603	6.1458	39.6960	79.8660	729.4900	0.50

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	0.0000	0.0000	0.0000	0.0000	0.0000	101.04%	0.0094	-0.2419	0.0147
2	22:13:18	0.0000	0.0000	0.0000	0.0000	0.0000	100.72%	0.0160	0.1017	0.0113
3	22:13:58	0.0000	0.0000	0.0000	0.0000	0.0000	101.40%	0.0111	-0.1451	0.0199
4	22:14:38	0.0000	0.0000	0.0000	0.0000	0.0000	101.80%	0.0255	0.2537	0.0270
5	22:15:17	0.0000	0.0000	0.0000	0.0000	0.0000	102.31%	0.0156	0.1064	0.0124
x		0.0000	0.0000	0.0000	0.0000	0.0000	101.45%	0.0155	0.0150	0.0171
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.62	40.2740	1355.5000	37.9640

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	0.0513	0.0000	0.0000	0.0321	14.7290	15.1830	101.76%	0.0356	0.0287
2	22:13:18	0.0138	0.0000	0.0000	0.0273	15.4440	15.8230	100.91%	0.0240	0.0267
3	22:13:58	0.0535	0.0000	0.0000	0.0437	15.2630	15.5740	102.88%	0.0284	0.0234
4	22:14:38	0.0275	0.0000	0.0000	0.0302	15.4330	16.4930	101.53%	0.0215	0.0262
5	22:15:17	0.0248	0.0000	0.0000	0.0401	14.6190	14.9300	101.65%	0.0220	0.0228
x		0.0342	0.0000	0.0000	0.0347	15.0970	15.6010	101.75%	0.0263	0.0256
%RSD		51.0400	0.0000	0.0000	20.0150	2.6180	3.8861	0.70	22.3860	9.4388

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:12:39	4.1359	3.8801	4.0026	102.54%	-0.2857
2	22:13:18	4.2467	3.9394	4.0702	101.71%	-0.2857
3	22:13:58	4.2474	3.8547	4.0516	103.33%	-0.2857
4	22:14:38	4.2337	4.0304	4.1324	102.37%	-0.2857
5	22:15:17	4.2421	3.9720	4.0095	102.47%	-0.2857
x		4.2211	3.9353	4.0533	102.48%	-0.2857
%RSD		1.1368	1.7943	1.2954	0.56	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	91.62%	10.2490	┬4717.5000	┬6313.5000	5983.1000	6108.0000	┬14068.0000	┬7846.8000	6393.3000
2	22:17:39	90.78%	10.3100	┬4874.5000	┬6315.3000	6070.6000	6136.2000	┬14321.0000	┬8013.0000	6590.6000
3	22:18:19	91.42%	10.2710	┬4879.9000	┬6378.7000	6074.3000	6209.9000	┬14276.0000	┬7966.5000	6584.2000
4	22:18:58	91.84%	10.3790	┬4853.8000	┬6286.5000	6063.5000	6115.8000	┬13885.0000	┬7919.2000	6682.5000
5	22:19:38	90.74%	10.1510	┬4782.7000	┬6262.9000	5997.8000	6026.2000	┬13969.0000	┬7870.0000	6560.9000
x		91.28%	10.2720	┬4821.7000	┬6311.4000	6037.8000	6119.2000	┬14104.0000	┬7923.1000	6562.3000
%RSD		0.54	0.8124	┬1.4507	┬0.6874	0.7253	1.0747	┬1.3471	┬0.8612	1.6033

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	98.80%	14.4800	74.6300	38.6080	14307.0000	247.2700	┬15453.0000	14172.0000	12.9790
2	22:17:39	98.20%	14.8590	73.7310	39.1350	14577.0000	244.9600	┬15468.0000	14415.0000	12.9630
3	22:18:19	99.57%	14.8080	73.7740	38.6240	14344.0000	248.4400	┬15316.0000	14412.0000	12.8180
4	22:18:58	99.16%	14.7720	73.4220	39.0800	14215.0000	249.8300	┬15473.0000	14370.0000	13.0600
5	22:19:38	98.87%	14.9930	71.9440	38.5230	14378.0000	248.6400	┬15374.0000	14278.0000	12.8780
x		98.92%	14.7820	73.5000	38.7940	14364.0000	247.8300	┬15417.0000	14329.0000	12.9400
%RSD		0.51	1.2752	1.3320	0.7455	0.9304	0.7441	┬0.4480	0.7265	0.7240

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	20.3300	26.7630	27.6860	41.1920	12.3550	42.9740	44.1800	0.3411	103.34%
2	22:17:39	20.5330	27.0480	26.6790	42.1790	12.4100	42.5030	44.4710	0.5272	104.24%
3	22:18:19	20.1360	26.4820	27.0230	41.4280	12.2060	44.5550	43.5950	0.6803	103.80%
4	22:18:58	20.6590	26.7040	27.5300	42.4430	12.3590	44.9040	44.0820	0.1269	102.74%
5	22:19:38	20.6250	26.5730	26.9600	41.3800	12.0760	43.6190	44.9840	-1.4115	102.77%
x		20.4570	26.7140	27.1760	41.7240	12.2810	43.7110	44.2620	0.0528	103.38%
%RSD		1.0755	0.8112	1.5426	1.3198	1.1215	2.3292	1.1567	1598.7000	0.63

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	0.0000	0.0000	0.0000	0.0000	0.0000	97.55%	9.6899	-0.8684	9.4593
2	22:17:39	0.0000	0.0000	0.0000	0.0000	0.0000	97.80%	9.5926	-0.6643	9.6555
3	22:18:19	0.0000	0.0000	0.0000	0.0000	0.0000	96.94%	9.9938	-1.1409	9.9910
4	22:18:58	0.0000	0.0000	0.0000	0.0000	0.0000	96.54%	10.0110	-0.8807	10.0230
5	22:19:38	0.0000	0.0000	0.0000	0.0000	0.0000	97.85%	9.6650	-1.8065	9.5813
x		0.0000	0.0000	0.0000	0.0000	0.0000	97.34%	9.7905	-1.0722	9.7420
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.59	2.0118	41.4110	2.5868

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	9.4376	0.0000	0.0000	17.7100	163.0200	169.6200	98.54%	9.2602	9.0271
2	22:17:39	9.5641	0.0000	0.0000	18.5850	162.6300	168.8000	100.50%	9.3029	9.3222
3	22:18:19	9.6657	0.0000	0.0000	18.2850	168.9700	172.9200	98.37%	9.3636	9.3146
4	22:18:58	9.4625	0.0000	0.0000	18.1360	167.4100	174.8000	98.37%	9.4863	9.4333
5	22:19:38	9.4457	0.0000	0.0000	17.7520	162.5400	169.4800	98.95%	9.2493	9.1185
x		9.5151	0.0000	0.0000	18.0940	164.9200	171.1200	98.95%	9.3325	9.2431
%RSD		1.0335	0.0000	0.0000	2.0374	1.8459	1.5206	0.91	1.0397	1.7917

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:16:59	30.3400	28.8180	29.3700	96.94%	-0.2857
2	22:17:39	30.2730	29.1100	29.3610	97.97%	0.4369
3	22:18:19	30.9230	29.0000	29.6870	98.12%	0.4359
4	22:18:58	31.0200	28.9080	29.6630	96.71%	1.1784
5	22:19:38	30.4390	29.2600	29.2870	98.01%	-0.2857
x		30.5990	29.0190	29.4740	97.55%	0.2960
%RSD		1.1335	0.5965	0.6339	0.68	206.5500

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	91.64%	0.7224	98.8190	┬1890.2000	1793.8000	1790.4000	┬14178.0000	┬3052.5000	2913.2000
2	22:22:00	91.63%	0.7773	101.1800	┬1893.0000	1812.8000	1856.2000	┬14303.0000	┬3106.5000	2904.7000
3	22:22:39	92.95%	0.7289	┬106.2500	┬1901.4000	1807.6000	1823.2000	┬14358.0000	┬3160.8000	2933.6000
4	22:23:19	92.43%	0.7346	100.6600	┬1911.5000	1781.8000	1804.0000	┬14046.0000	┬3104.8000	2882.3000
5	22:23:59	93.12%	0.7060	96.6100	┬1844.9000	1743.5000	1764.0000	┬13774.0000	┬3022.4000	2781.7000
x		92.35%	0.7338	┬100.7000	┬1888.2000	1787.9000	1807.6000	┬14132.0000	┬3089.4000	2883.1000
%RSD		0.76	3.6190	┬3.5557	┬1.3548	1.5454	1.9175	┬1.6505	┬1.7339	2.0674

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	98.49%	15.4590	24.9650	22.3640	12574.0000	197.2600	┬13440.0000	12516.0000	4.0566
2	22:22:00	99.60%	16.1670	24.7590	22.1570	12477.0000	199.0600	┬13601.0000	12467.0000	3.9436
3	22:22:39	98.66%	16.0170	25.0630	21.9900	┬13453.0000	199.5500	┬13541.0000	12759.0000	4.0801
4	22:23:19	99.94%	15.7980	25.2110	22.0540	┬13175.0000	192.9200	┬13306.0000	12419.0000	3.9076
5	22:23:59	99.07%	15.7190	24.4710	21.4990	12200.0000	192.4100	┬13246.0000	12113.0000	3.9369
x		99.15%	15.8320	24.8940	22.0130	┬12776.0000	196.2400	┬13427.0000	12455.0000	3.9850
%RSD		0.62	1.7285	1.1551	1.4539	┬4.0659	1.7208	┬1.1220	1.8615	1.9512

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	13.0990	10.0940	10.4090	31.0820	3.5511	-0.2861	0.4601	-0.3681	103.13%
2	22:22:00	12.8150	10.2560	10.4300	30.7740	3.8560	-0.0114	0.9936	-0.7253	103.19%
3	22:22:39	12.9000	10.4310	10.5850	31.2410	3.6782	-0.3302	0.5246	0.1032	103.75%
4	22:23:19	12.5840	10.3340	10.1340	30.7760	3.4278	-0.1668	0.2570	0.2274	104.29%
5	22:23:59	12.5080	9.9232	10.0150	29.7650	3.7188	-0.1678	0.8380	-0.4725	104.15%
x		12.7810	10.2080	10.3150	30.7280	3.6464	-0.1925	0.6147	-0.2471	103.70%
%RSD		1.8764	1.9691	2.2647	1.8698	4.4868	64.5610	48.3540	162.1600	0.51

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	0.0000	0.0000	0.0000	0.0000	0.0000	98.01%	0.0314	-0.7774	0.0281
2	22:22:00	0.0000	0.0000	0.0000	0.0000	0.0000	97.62%	0.0398	-0.7485	0.0323
3	22:22:39	0.0000	0.0000	0.0000	0.0000	0.0000	98.23%	0.0461	-0.6826	0.0324
4	22:23:19	0.0000	0.0000	0.0000	0.0000	0.0000	100.34%	0.0549	-0.5764	0.0513
5	22:23:59	0.0000	0.0000	0.0000	0.0000	0.0000	98.97%	0.0271	-1.1480	0.0321
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.63%	0.0399	-0.7866	0.0352
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.09	28.0290	27.5010	25.9090

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	0.1088	0.0000	0.0000	0.0711	68.0890	71.2680	97.79%	0.1084	0.1083
2	22:22:00	0.1422	0.0000	0.0000	0.0800	68.0430	69.7850	98.56%	0.1098	0.1187
3	22:22:39	0.1031	0.0000	0.0000	0.0790	69.4800	69.4560	100.05%	0.1086	0.1130
4	22:23:19	0.0434	0.0000	0.0000	0.0847	66.9980	69.0750	99.39%	0.0952	0.1140
5	22:23:59	0.1222	0.0000	0.0000	0.0769	66.5090	67.7340	99.70%	0.1068	0.1124
x		0.1039	0.0000	0.0000	0.0784	67.8240	69.4630	99.10%	0.1058	0.1133
%RSD		35.6480	0.0000	0.0000	6.3069	1.6927	1.8355	0.92	5.6853	3.2808

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:21:20	20.9140	18.6800	19.5150	97.63%	-0.2857
2	22:22:00	21.0020	18.5200	19.6620	97.87%	0.4377
3	22:22:39	20.6080	18.8200	19.5420	98.14%	0.4357
4	22:23:19	19.9320	18.7980	19.3270	99.19%	0.4281
5	22:23:59	19.7320	18.3620	18.7640	99.30%	-0.2857
x		20.4380	18.6360	19.3620	98.43%	0.1460
%RSD		2.8205	1.0410	1.8334	0.78	269.9100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	91.21%	1.2732	127.7900	↹3039.6000	2881.8000	2948.5000	↹20339.0000	↹5359.5000	3539.4000
2	22:26:19	91.39%	1.2681	↹139.7100	↹3144.3000	2968.0000	3012.1000	↹20627.0000	↹5441.2000	3584.6000
3	22:26:58	91.03%	1.2249	131.3400	↹3131.0000	2986.6000	3010.7000	↹20616.0000	↹5436.6000	3565.3000
4	22:27:38	91.36%	1.2825	132.9500	↹3209.1000	2968.3000	3068.7000	↹20629.0000	↹5495.1000	3540.8000
5	22:28:18	91.55%	1.2348	132.7800	↹3199.4000	2969.6000	3039.8000	↹20893.0000	↹5385.0000	3715.6000
x		91.31%	1.2567	↹132.9100	↹3144.7000	2954.8000	3016.0000	↹20621.0000	↹5423.5000	3589.2000
%RSD		0.22	2.0152	↹3.2577	↹2.1552	1.4075	1.4771	↹0.9498	↹0.9752	2.0378

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	98.83%	20.1150	34.5490	30.2680	22447.0000	246.2000	↹23584.0000	21862.0000	6.9351
2	22:26:19	98.99%	18.2260	34.8130	30.1850	22603.0000	245.9700	↹23544.0000	22516.0000	7.0119
3	22:26:58	99.91%	18.1870	34.8830	30.2770	22633.0000	248.4900	↹23809.0000	22323.0000	6.9267
4	22:27:38	99.54%	19.6640	35.1310	30.3830	22623.0000	248.3900	↹23714.0000	22344.0000	7.1278
5	22:28:18	98.97%	19.5910	35.9220	30.9320	22789.0000	252.1000	↹24284.0000	22592.0000	7.0266
x		99.25%	19.1560	35.0600	30.4090	22619.0000	248.2300	↹23787.0000	22327.0000	7.0056
%RSD		0.46	4.6481	1.4968	0.9885	0.5369	0.9936	↹1.2499	1.2727	1.1642

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	28.6150	10.6060	10.7440	35.8660	6.1931	-0.4187	0.3451	-0.6821	102.13%
2	22:26:19	28.4380	10.5720	10.6620	35.9860	6.4195	-0.7694	0.3392	-0.0672	104.77%
3	22:26:58	28.9280	10.6860	10.8280	36.1580	6.5241	-0.2516	0.8757	-1.6072	103.32%
4	22:27:38	28.2020	10.7700	10.9500	36.1840	6.5040	-0.0371	0.4993	-0.1387	106.12%
5	22:28:18	28.6810	10.6790	11.1800	37.1140	6.4324	0.0917	0.3754	0.4681	103.37%
x		28.5730	10.6630	10.8730	36.2620	6.4146	-0.2770	0.4870	-0.4054	103.94%
%RSD		0.9516	0.7241	1.8566	1.3626	2.0531	121.9600	46.5650	193.8100	1.48

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	0.0000	0.0000	0.0000	0.0000	0.0000	95.87%	0.0383	-1.7750	0.0269
2	22:26:19	0.0000	0.0000	0.0000	0.0000	0.0000	97.26%	0.0419	-1.2925	0.0314
3	22:26:58	0.0000	0.0000	0.0000	0.0000	0.0000	97.35%	0.0428	-0.9863	0.0324
4	22:27:38	0.0000	0.0000	0.0000	0.0000	0.0000	97.58%	0.0612	-0.1625	0.0399
5	22:28:18	0.0000	0.0000	0.0000	0.0000	0.0000	97.45%	0.0544	-1.4640	0.0494
x		0.0000	0.0000	0.0000	0.0000	0.0000	97.10%	0.0477	-1.1361	0.0360
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.72	20.2330	54.0910	24.5890

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	0.1235	0.0000	0.0000	0.0778	83.0260	86.9790	98.14%	0.1471	0.1381
2	22:26:19	0.0723	0.0000	0.0000	0.0872	84.4760	84.9630	98.80%	0.1320	0.1446
3	22:26:58	0.0375	0.0000	0.0000	0.1138	84.8190	87.5670	98.57%	0.1435	0.1273
4	22:27:38	0.0773	0.0000	0.0000	0.0751	85.4300	86.3910	97.26%	0.1461	0.1356
5	22:28:18	0.0577	0.0000	0.0000	0.0922	84.7750	87.5860	99.41%	0.1434	0.1362
x		0.0737	0.0000	0.0000	0.0892	84.5050	86.6970	98.44%	0.1424	0.1363
%RSD		43.2580	0.0000	0.0000	17.2180	1.0608	1.2540	0.82	4.2498	4.5440

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:25:39	21.3600	19.1710	20.0090	96.53%	-0.2857
2	22:26:19	21.8660	20.1700	20.7030	96.46%	-0.2857
3	22:26:58	22.3620	20.1150	20.7550	96.45%	-0.2857
4	22:27:38	21.9550	19.9490	20.7020	97.30%	1.1696
5	22:28:18	21.8740	19.6800	20.6470	98.01%	0.4367
x		21.8830	19.8170	20.5630	96.95%	0.1498
%RSD		1.6295	2.0594	1.5177	0.71	433.9600

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	91.03%	0.6980	48.4310	⊤1901.7000	1786.1000	1813.5000	⊤15884.0000	⊤2822.6000	3825.1000
2	22:30:38	91.55%	0.7543	48.1070	⊤1893.0000	1791.9000	1870.6000	⊤15541.0000	⊤2830.8000	3875.2000
3	22:31:18	92.29%	0.7510	50.1080	⊤1900.0000	1800.8000	1801.8000	⊤15647.0000	⊤2822.0000	3780.0000
4	22:31:57	92.58%	0.6528	49.6040	⊤1884.5000	1791.4000	1771.4000	⊤15493.0000	⊤2846.5000	3847.4000
5	22:32:37	91.15%	0.7343	48.2320	⊤1882.4000	1743.7000	1823.8000	⊤15517.0000	⊤2827.8000	3691.3000
x		91.72%	0.7181	48.8970	⊤1892.3000	1782.8000	1816.2000	⊤15616.0000	⊤2829.9000	3803.8000
%RSD		0.75	5.9589	1.8434	⊤0.4623	1.2598	1.9918	⊤1.0306	⊤0.3512	1.8900

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	98.62%	22.3110	28.3660	21.9730	12543.0000	⊤466.9300	⊤13535.0000	12551.0000	4.5722
2	22:30:38	98.69%	22.4370	28.6820	22.1310	12599.0000	455.7000	⊤13468.0000	12629.0000	4.5397
3	22:31:18	100.50%	21.8500	27.8180	21.5460	12414.0000	⊤460.9400	⊤13239.0000	12474.0000	4.3904
4	22:31:57	98.83%	22.4090	27.9660	21.6270	12638.0000	⊤466.4200	⊤13470.0000	12612.0000	4.5857
5	22:32:37	99.25%	21.5200	27.9200	21.2230	12289.0000	⊤460.2200	⊤13229.0000	12395.0000	4.4683
x		99.18%	22.1050	28.1500	21.7000	12497.0000	⊤462.0400	⊤13388.0000	12532.0000	4.5113
%RSD		0.78	1.8270	1.2888	1.6568	1.1489	⊤1.0141	⊤1.0725	0.7814	1.8050

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	10.7460	17.6410	17.6330	85.9410	3.4308	-0.0384	0.2595	0.5936	102.86%
2	22:30:38	11.2910	17.1940	17.1870	86.7540	3.3803	0.0352	0.8154	-0.7661	105.27%
3	22:31:18	10.3440	17.1780	17.3710	83.3240	3.1964	-0.7841	0.5161	-0.3841	105.79%
4	22:31:57	10.8940	17.3210	17.2940	84.9540	3.5665	-0.0139	0.8801	-0.1232	105.39%
5	22:32:37	10.3860	16.6500	16.9580	82.7710	3.2676	-0.0450	0.4029	0.3127	105.55%
x		10.7320	17.1970	17.2890	84.7490	3.3683	-0.1693	0.5748	-0.0734	104.97%
%RSD		3.6354	2.0802	1.4324	1.9943	4.2780	203.9000	46.3150	737.4700	1.14

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	0.0000	0.0000	0.0000	0.0000	0.0000	97.09%	0.0556	-0.5674	0.0420
2	22:30:38	0.0000	0.0000	0.0000	0.0000	0.0000	97.77%	0.0619	0.3653	0.0518
3	22:31:18	0.0000	0.0000	0.0000	0.0000	0.0000	99.20%	0.0603	-1.4108	0.0523
4	22:31:57	0.0000	0.0000	0.0000	0.0000	0.0000	98.25%	0.0701	-0.8706	0.0579
5	22:32:37	0.0000	0.0000	0.0000	0.0000	0.0000	99.41%	0.0617	-0.5454	0.0503
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.34%	0.0619	-0.6058	0.0509
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.99	8.4850	106.5500	11.2430

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	0.3569	0.0000	0.0000	0.2935	125.4100	131.5300	99.96%	0.1416	0.1454
2	22:30:38	0.3015	0.0000	0.0000	0.2591	127.4700	131.5100	99.37%	0.1515	0.1529
3	22:31:18	0.3988	0.0000	0.0000	0.2865	126.3400	130.5000	100.58%	0.1662	0.1656
4	22:31:57	0.4243	0.0000	0.0000	0.2744	124.4600	128.5500	100.74%	0.1542	0.1416
5	22:32:37	0.3946	0.0000	0.0000	0.3095	125.7800	127.7700	99.70%	0.1388	0.1458
x		0.3752	0.0000	0.0000	0.2846	125.8900	129.9700	100.07%	0.1505	0.1502
%RSD		12.7200	0.0000	0.0000	6.7053	0.8872	1.3299	0.58	7.2628	6.3213

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:29:59	125.8500	110.3400	115.7600	98.35%	-0.2857
2	22:30:38	124.9400	109.6200	115.8200	99.29%	-0.2857
3	22:31:18	122.1900	109.7500	113.9200	99.82%	-0.2857
4	22:31:57	122.7700	111.3300	115.5200	99.68%	1.1349
5	22:32:37	122.1600	107.7200	114.0800	99.49%	-0.2857
x		123.5800	109.7500	115.0200	99.32%	-0.0016
%RSD		1.3789	1.2044	0.8165	0.58	40099.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	91.42%	0.5522	35.1470	1357.5000	1335.5000	1349.4000	τ11651.0000	τ2133.8000	3084.4000
2	22:34:57	91.49%	0.5691	37.2970	1378.5000	1354.1000	1378.9000	τ12062.0000	τ2180.1000	3164.1000
3	22:35:37	91.70%	0.5792	36.8440	1362.0000	1339.7000	1350.6000	τ11830.0000	τ2142.7000	3116.0000
4	22:36:17	91.77%	0.5403	35.1000	1340.1000	1329.7000	1380.0000	τ11652.0000	τ2162.2000	3071.9000
5	22:36:58	92.09%	0.5576	35.6900	τ1416.9000	1322.7000	1361.9000	τ11451.0000	τ2147.9000	3071.3000
x		91.69%	0.5597	36.0150	τ1371.0000	1336.3000	1364.2000	τ11729.0000	τ2153.3000	3101.5000
%RSD		0.29	2.6875	2.7859	τ2.1213	0.8829	1.0823	τ1.9573	τ0.8427	1.2702

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	98.91%	16.8240	20.1540	15.8440	9363.7000	329.6400	τ10010.0000	9288.4000	3.1180
2	22:34:57	98.00%	17.3380	20.9720	16.0440	9544.3000	332.5500	τ10181.0000	9587.4000	3.0846
3	22:35:37	99.37%	16.9470	21.0780	16.1730	9406.9000	332.3100	τ10118.0000	9429.1000	3.0657
4	22:36:17	99.22%	16.9690	20.7070	16.0360	9174.1000	333.3500	τ9988.6000	9210.0000	3.2173
5	22:36:58	99.20%	17.0060	21.0700	16.1950	9182.1000	330.1500	τ9975.7000	9338.2000	3.0134
x		98.94%	17.0170	20.7960	16.0590	9334.2000	331.6000	τ10055.0000	9370.6000	3.0998
%RSD		0.56	1.1300	1.8705	0.8739	1.6862	0.4873	τ0.8953	1.5466	2.4455

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	7.9469	13.3760	13.6180	88.1350	2.6910	-0.1446	-0.1910	1.9939	104.03%
2	22:34:57	8.1147	13.7160	13.7800	90.3400	2.9775	0.0681	0.6833	0.2145	102.06%
3	22:35:37	7.9318	13.8590	13.5850	89.3280	3.0322	0.1222	0.5072	-0.3166	103.85%
4	22:36:17	7.6372	13.2690	13.4250	87.1920	3.0284	-0.3105	1.1962	-1.0687	104.88%
5	22:36:58	7.9298	13.5370	13.9540	87.0420	2.8294	-0.5499	0.5556	-0.8185	104.29%
x		7.9121	13.5510	13.6720	88.4070	2.9117	-0.1630	0.5503	0.0009	103.82%
%RSD		2.1756	1.7806	1.4763	1.5996	5.0928	169.8700	90.2390	130120.0000	1.02

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	0.0000	0.0000	0.0000	0.0000	0.0000	98.54%	0.0460	-0.7261	0.0369
2	22:34:57	0.0000	0.0000	0.0000	0.0000	0.0000	97.11%	0.0444	-0.7002	0.0421
3	22:35:37	0.0000	0.0000	0.0000	0.0000	0.0000	98.22%	0.0337	-0.8856	0.0280
4	22:36:17	0.0000	0.0000	0.0000	0.0000	0.0000	98.11%	0.0530	-0.4347	0.0556
5	22:36:58	0.0000	0.0000	0.0000	0.0000	0.0000	99.40%	0.0483	-0.2252	0.0477
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.28%	0.0451	-0.5944	0.0420
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.84	15.8620	44.1300	24.9660

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	0.3993	0.0000	0.0000	0.1494	89.5840	92.9690	98.88%	0.0949	0.1148
2	22:34:57	0.3926	0.0000	0.0000	0.1156	90.9720	93.6560	98.92%	0.0992	0.1110
3	22:35:37	0.3919	0.0000	0.0000	0.1651	91.1820	94.7510	99.58%	0.0894	0.1101
4	22:36:17	0.3441	0.0000	0.0000	0.1637	90.3720	92.6310	99.32%	0.1205	0.1100
5	22:36:58	0.3010	0.0000	0.0000	0.1453	87.1520	90.1970	101.33%	0.0937	0.1101
x		0.3658	0.0000	0.0000	0.1478	89.8520	92.8410	99.61%	0.0995	0.1112
%RSD		11.5890	0.0000	0.0000	13.5080	1.8165	1.8155	1.01	12.2790	1.8456

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:34:18	60.1510	53.9790	56.1510	97.27%	0.4422
2	22:34:57	60.2180	54.1600	56.3810	97.18%	-0.2857
3	22:35:37	59.2770	53.9530	55.6230	98.41%	-0.2857
4	22:36:17	59.3020	52.2310	55.0620	100.12%	0.4215
5	22:36:58	59.2370	53.2960	55.4830	98.69%	0.4317
x		59.6370	53.5240	55.7400	98.33%	0.1448
%RSD		0.8400	1.4831	0.9491	1.22	271.4700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	91.66%	0.6666	47.3880	↹1640.2000	1554.3000	1562.7000	↹13946.0000	↹2699.7000	2557.7000
2	22:39:18	92.00%	0.6655	47.9440	↹1651.6000	1565.1000	1577.9000	↹14198.0000	↹2763.6000	2647.2000
3	22:39:58	91.39%	0.6249	49.1110	↹1692.2000	1571.7000	1605.1000	↹14169.0000	↹2809.0000	2632.8000
4	22:40:38	92.01%	0.6290	47.5650	↹1623.8000	1547.9000	1568.6000	↹14092.0000	↹2781.2000	2653.8000
5	22:41:17	92.69%	0.6217	45.9800	↹1614.8000	1525.8000	1545.3000	↹13860.0000	↹2658.8000	2591.0000
x		91.95%	0.6415	47.5980	↹1644.5000	1553.0000	1571.9000	↹14053.0000	↹2742.4000	2616.5000
%RSD		0.53	3.5115	2.3654	↹1.8375	1.1446	1.4009	↹1.0348	↹2.2483	1.5657

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	98.72%	15.6370	24.8780	20.5950	10979.0000	262.2200	↹11806.0000	10925.0000	3.3027
2	22:39:18	98.57%	15.8940	25.5510	20.7630	11041.0000	259.5300	↹11994.0000	11203.0000	3.3948
3	22:39:58	99.05%	16.0250	25.5470	21.1820	11274.0000	265.5700	↹11992.0000	11115.0000	3.3966
4	22:40:38	99.20%	16.5360	25.5000	20.7920	11125.0000	260.1800	↹11931.0000	11151.0000	3.3326
5	22:41:17	99.88%	15.2880	24.5190	20.0220	10744.0000	256.3500	↹11767.0000	10936.0000	3.1987
x		99.08%	15.8760	25.1990	20.6710	11033.0000	260.7700	↹11898.0000	11066.0000	3.3251
%RSD		0.52	2.9222	1.8842	2.0395	1.7732	1.3092	↹0.8888	1.1509	2.4477

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	9.1762	10.3150	10.3760	50.9240	3.1577	-0.3858	0.4590	-1.1410	103.52%
2	22:39:18	9.8052	10.4180	10.4170	51.8880	3.3621	-0.4914	0.3582	-0.4324	103.81%
3	22:39:58	9.8760	10.1890	10.5840	51.9650	3.3304	-0.4971	0.2915	0.6422	103.61%
4	22:40:38	9.4959	10.3810	10.3420	51.6540	3.4020	-0.0184	0.7134	-0.1213	102.53%
5	22:41:17	9.5926	10.0310	10.3740	50.2040	3.4134	-0.0582	1.1913	-1.5508	103.45%
x		9.5892	10.2670	10.4190	51.3270	3.3331	-0.2902	0.6027	-0.5207	103.38%
%RSD		2.8946	1.5398	0.9259	1.4619	3.1034	80.8520	60.7410	165.3800	0.48

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	0.0000	0.0000	0.0000	0.0000	0.0000	97.06%	0.0323	0.0123	0.0390
2	22:39:18	0.0000	0.0000	0.0000	0.0000	0.0000	98.50%	0.0388	-0.8507	0.0313
3	22:39:58	0.0000	0.0000	0.0000	0.0000	0.0000	98.05%	0.0381	-0.5216	0.0356
4	22:40:38	0.0000	0.0000	0.0000	0.0000	0.0000	98.21%	0.0433	-0.4530	0.0450
5	22:41:17	0.0000	0.0000	0.0000	0.0000	0.0000	96.93%	0.0357	-1.1170	0.0310
x		0.0000	0.0000	0.0000	0.0000	0.0000	97.75%	0.0376	-0.5860	0.0364
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.72	10.8080	72.9960	16.0530

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	0.2231	0.0000	0.0000	0.2499	80.3900	79.8390	99.36%	0.1038	0.1106
2	22:39:18	0.2167	0.0000	0.0000	0.3012	78.7640	81.4750	99.61%	0.1016	0.1176
3	22:39:58	0.2991	0.0000	0.0000	0.2875	82.1220	82.5430	98.52%	0.1254	0.1067
4	22:40:38	0.3263	0.0000	0.0000	0.2549	80.0780	80.1080	99.21%	0.1079	0.1211
5	22:41:17	0.2096	0.0000	0.0000	0.2501	78.3730	81.2720	99.48%	0.1105	0.1094
x		0.2549	0.0000	0.0000	0.2687	79.9450	81.0470	99.24%	0.1098	0.1131
%RSD		21.0910	0.0000	0.0000	8.9248	1.8575	1.3535	0.43	8.5322	5.3033

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:38:39	28.3150	25.7460	26.7110	97.84%	-0.2857
2	22:39:18	28.3450	26.1990	26.9800	98.63%	0.4321
3	22:39:58	28.1510	26.6050	27.2180	98.68%	0.4317
4	22:40:38	28.2590	26.5620	26.7910	98.42%	-0.2857
5	22:41:17	27.9950	26.0430	26.5470	98.15%	1.8782
x		28.2130	26.2310	26.8490	98.34%	0.4341
%RSD		0.5056	1.3758	0.9616	0.36	203.4900

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	91.57%	0.4846	80.1070	1273.2000	1266.9000	1294.4000	┬10822.0000	1862.6000	2271.8000
2	22:43:38	92.62%	0.4308	81.0760	1273.7000	1280.0000	1301.1000	┬10672.0000	1879.3000	2275.0000
3	22:44:18	91.74%	0.4662	81.0810	1261.6000	1285.3000	1291.3000	┬10797.0000	┬1953.1000	2303.1000
4	22:44:57	91.90%	0.4883	80.5950	1246.5000	1260.4000	1287.5000	┬10795.0000	┬1953.2000	2250.7000
5	22:45:37	93.09%	0.4614	79.0130	┬1313.0000	1218.8000	1255.9000	┬10646.0000	1871.4000	2210.5000
x		92.18%	0.4663	80.3740	┬1273.6000	1262.3000	1286.0000	┬10746.0000	┬1903.9000	2262.2000
%RSD		0.70	4.9110	1.0715	┬1.9329	2.0801	1.3668	┬0.7546	┬2.3804	1.5198

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	96.70%	13.5060	19.7650	15.2540	9142.2000	246.8100	┬9865.7000	9088.0000	3.1792
2	22:43:38	97.38%	13.9380	20.1600	15.4360	9115.2000	248.0300	┬9923.3000	9053.1000	3.1839
3	22:44:18	98.09%	14.0020	20.1090	15.3720	9211.7000	244.8200	┬9818.5000	9121.6000	3.2555
4	22:44:57	98.03%	13.6430	19.7080	15.5340	9171.9000	245.4300	┬9920.5000	9153.5000	3.1505
5	22:45:37	98.82%	13.0670	19.5840	14.7680	8995.5000	240.2900	┬9641.5000	9054.8000	3.0760
x		97.81%	13.6310	19.8650	15.2730	9127.3000	245.0800	┬9833.9000	9094.2000	3.1690
%RSD		0.82	2.7594	1.2830	1.9626	0.8980	1.2055	┬1.1789	0.4777	2.0454

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	8.0478	7.1449	6.9729	39.4900	3.0603	-0.6961	0.3655	0.1388	101.02%
2	22:43:38	7.9332	6.8714	6.6573	39.8550	3.1672	-0.3544	0.8330	-0.4328	102.59%
3	22:44:18	7.8395	6.6843	7.0046	39.3510	3.1393	0.2652	0.4943	-0.6187	103.02%
4	22:44:57	7.6353	6.8318	6.7326	39.0490	3.2378	-0.0085	0.8094	-0.7375	103.60%
5	22:45:37	7.6049	6.6908	6.7638	38.5890	3.0633	-0.5207	0.8105	-0.7860	103.26%
x		7.8121	6.8446	6.8262	39.2670	3.1336	-0.2629	0.6625	-0.4872	102.70%
%RSD		2.4386	2.7373	2.2521	1.2147	2.3843	148.0700	32.8170	77.0740	0.98

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	0.0000	0.0000	0.0000	0.0000	0.0000	97.99%	0.0256	-0.4171	0.0290
2	22:43:38	0.0000	0.0000	0.0000	0.0000	0.0000	97.76%	0.0373	-0.3801	0.0317
3	22:44:18	0.0000	0.0000	0.0000	0.0000	0.0000	98.67%	0.0329	-0.7353	0.0297
4	22:44:57	0.0000	0.0000	0.0000	0.0000	0.0000	99.59%	0.0458	-0.7379	0.0393
5	22:45:37	0.0000	0.0000	0.0000	0.0000	0.0000	98.69%	0.0324	-0.6074	0.0312
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.54%	0.0348	-0.5756	0.0322
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.73	21.4170	29.6150	12.7620

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	0.1029	0.0000	0.0000	0.0424	62.5830	64.1440	99.90%	0.0882	0.0974
2	22:43:38	0.1111	0.0000	0.0000	0.0867	65.4050	64.4670	99.25%	0.0889	0.0961
3	22:44:18	0.1403	0.0000	0.0000	0.0908	64.2990	64.9530	100.50%	0.0963	0.0877
4	22:44:57	0.1100	0.0000	0.0000	0.0849	62.3030	64.3780	100.27%	0.1023	0.0926
5	22:45:37	0.1479	0.0000	0.0000	0.0887	61.0580	62.8970	101.54%	0.1037	0.0961
x		0.1224	0.0000	0.0000	0.0787	63.1300	64.1680	100.29%	0.0959	0.0940
%RSD		16.5020	0.0000	0.0000	25.9130	2.7224	1.1984	0.84	7.5795	4.1684

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:42:58	18.5710	17.5800	17.6900	98.47%	-0.2857
2	22:43:38	18.5600	17.2320	17.6650	99.05%	-0.2857
3	22:44:18	18.5390	17.7230	17.8890	99.07%	-0.2857
4	22:44:57	18.7890	17.6170	18.0070	99.03%	0.4292
5	22:45:37	18.5710	17.1030	17.4620	99.70%	-0.2857
x		18.6060	17.4510	17.7430	99.06%	-0.1427
%RSD		0.5535	1.5352	1.1933	0.44	224.0200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	84.26%	↹2540.0000	↹48149.0000	↹48912.0000	↹48434.0000	↹48980.0000	↹48971.0000	↹50331.0000	48253.0000
2	22:47:58	84.95%	↹2536.0000	↹48634.0000	↹48271.0000	↹48787.0000	↹49497.0000	↹48492.0000	↹50161.0000	47146.0000
3	22:48:37	86.05%	↹2540.0000	↹48876.0000	↹49236.0000	↹49657.0000	↹49849.0000	↹48806.0000	↹49657.0000	48580.0000
4	22:49:17	85.46%	↹2549.8000	↹48986.0000	↹49725.0000	↹50011.0000	↹49407.0000	↹48838.0000	↹50606.0000	49101.0000
5	22:49:57	84.50%	↹2572.2000	↹49622.0000	↹49259.0000	↹49507.0000	↹49592.0000	↹49285.0000	↹50369.0000	48870.0000
x		85.04%	↹2547.6000	↹48854.0000	↹49081.0000	↹49279.0000	↹49465.0000	↹48878.0000	↹50225.0000	48390.0000
%RSD		0.86	↹0.5760	↹1.0987	↹1.0951	↹1.3180	↹0.6422	↹0.5876	↹0.7067	1.5803

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	87.61%	0.0313	↹2629.5000	↹2497.6000	↹49283.0000	↹2475.9000	↹48244.0000	46523.0000	↹2443.5000
2	22:47:58	90.39%	0.0400	↹2568.2000	↹2455.8000	↹48944.0000	↹2446.0000	↹48014.0000	47036.0000	↹2424.3000
3	22:48:37	90.22%	0.0198	↹2580.7000	↹2503.7000	↹49000.0000	↹2479.6000	↹49037.0000	46981.0000	↹2475.0000
4	22:49:17	91.73%	0.0226	↹2594.6000	↹2463.4000	↹49330.0000	↹2464.6000	↹48510.0000	46938.0000	↹2459.8000
5	22:49:57	90.71%	0.0247	↹2567.6000	↹2507.9000	↹48727.0000	↹2439.5000	↹48338.0000	46507.0000	↹2456.9000
x		90.13%	0.0277	↹2588.1000	↹2485.7000	↹49057.0000	↹2461.1000	↹48429.0000	46797.0000	↹2451.9000
%RSD		1.69	29.1870	↹0.9914	↹0.9758	↹0.5102	↹0.7228	↹0.7941	0.5552	↹0.7782

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	2374.7000	↹2372.9000	↹2367.8000	2277.2000	2364.4000	249.0300	251.7200	0.2944	90.38%
2	22:47:58	2353.4000	↹2351.6000	↹2329.9000	2251.8000	2370.1000	249.6700	251.8900	2.1828	91:75%
3	22:48:37	2425.5000	↹2394.8000	↹2378.0000	2335.3000	2441.0000	259.3300	256.6900	2.2012	89.92%
4	22:49:17	2377.7000	↹2377.7000	↹2361.9000	2288.5000	2416.3000	257.1500	253.2000	2.9194	91.08%
5	22:49:57	2408.0000	↹2331.0000	↹2327.8000	2288.3000	2414.8000	256.0600	252.0400	-0.7199	91.56%
x		2387.9000	↹2365.6000	↹2353.1000	2288.2000	2401.3000	254.2500	253.1100	1.3756	90.94%
%RSD		1.2000	↹1.0454	↹0.9715	1.3224	1.3674	1.8211	0.8239	110.7100	0.85

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	0.0000	0.0000	0.0000	0.0000	0.0000	86.06%	253.9000	-21.9910	253.7500
2	22:47:58	0.0000	0.0000	0.0000	0.0000	0.0000	87.22%	257.6800	-6.0483	258.1600
3	22:48:37	0.0000	0.0000	0.0000	0.0000	0.0000	86.82%	263.0600	-10.7920	262.9800
4	22:49:17	0.0000	0.0000	0.0000	0.0000	0.0000	87.91%	262.9000	-19.0100	262.8900
5	22:49:57	0.0000	0.0000	0.0000	0.0000	0.0000	86.96%	258.4900	-11.9320	259.1600
x		0.0000	0.0000	0.0000	0.0000	0.0000	86.99%	259.2100	-13.9550	259.3900
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.77	1.4874	46.2680	1.4743

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	2410.7000	0.0000	0.0000	↹2545.9000	2387.6000	2469.3000	90.64%	↹2567.4000	↹2580.8000
2	22:47:58	2412.8000	0.0000	0.0000	↹2553.7000	2362.3000	2485.6000	92.36%	↹2588.5000	↹2614.7000
3	22:48:37	2425.1000	0.0000	0.0000	↹2594.7000	2477.5000	2557.8000	90.48%	↹2587.2000	↹2633.3000
4	22:49:17	2445.7000	0.0000	0.0000	↹2600.8000	2409.5000	2525.2000	91.54%	↹2618.9000	↹2652.9000
5	22:49:57	2435.9000	0.0000	0.0000	↹2561.9000	2443.1000	2567.8000	90.70%	↹2571.5000	↹2586.2000
x		2426.1000	0.0000	0.0000	↹2571.4000	2416.0000	2521.1000	91.15%	↹2586.7000	↹2613.6000
%RSD		0.6164	0.0000	0.0000	↹0.9652	1.8800	1.7160	0.87	↹0.7835	↹1.1724

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:47:18	↹2559.8000	↹2524.4000	↹2544.5000	85.08%	0.5465
2	22:47:58	↹2552.2000	↹2550.2000	↹2566.1000	85.75%	-0.2857
3	22:48:37	↹2588.4000	↹2587.6000	↹2580.7000	85.89%	0.5386
4	22:49:17	↹2598.5000	↹2617.8000	↹2617.0000	85.51%	2.1983
5	22:49:57	↹2592.1000	↹2570.5000	↹2561.9000	85.79%	3.8407
x		↹2578.2000	↹2570.1000	↹2574.0000	85.60%	1.3677
%RSD		↹0.8056	↹1.3841	↹1.0583	0.38	120.7000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	94.28%	0.4753	20.7950	6.9175	5.8156	7.1304	7.5337	27.6920	8.0392
2	22:52:20	95.88%	0.3795	16.9010	4.9832	4.9226	5.0578	5.8934	22.2790	6.0879
3	22:52:59	97.14%	0.2941	14.2680	3.9329	3.9234	3.9603	5.0024	18.9300	4.6621
4	22:53:39	98.43%	0.2828	12.6680	3.4231	3.4654	3.7275	4.1526	15.7100	1.6112
5	22:54:19	97.48%	0.1653	10.9250	3.2218	3.0448	2.8104	3.4997	14.1830	2.2927
x		96.64%	0.3194	15.1110	4.4957	4.2344	4.5373	5.2164	19.7590	4.5386
%RSD		1.66	36.2620	25.5700	33.7210	26.6060	36.4920	30.2400	27.4230	58.5890

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	96.32%	0.0066	0.2802	0.3238	8.9062	0.3632	8.6653	10.6950	0.3125
2	22:52:20	98.75%	0.0123	0.1337	0.2155	9.7629	0.2428	7.0101	9.1180	0.2387
3	22:52:59	99.81%	0.0043	0.1757	0.1873	6.3596	0.1964	5.1220	6.9021	0.1821
4	22:53:39	101.50%	0.0025	0.1915	0.1511	5.4816	0.1820	4.1993	6.6516	0.1592
5	22:54:19	101.35%	0.0010	0.1718	0.1034	6.0275	0.1509	3.3609	3.7307	0.1626
x		99.55%	0.0053	0.1906	0.1962	7.3076	0.2271	5.6715	7.4195	0.2110
%RSD		2.14	82.1300	28.5540	42.1540	26.0140	36.5530	37.9830	35.7100	30.8330

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	0.3057	0.9438	0.5515	0.8752	0.5703	2.4849	0.2689	-1.5446	97.69%
2	22:52:20	0.2686	0.6764	0.4607	0.6052	0.5253	1.9732	0.3367	-0.1559	98.15%
3	22:52:59	0.1900	0.5709	0.2190	0.5000	0.3739	2.2198	0.3662	-0.3038	100.15%
4	22:53:39	0.1945	0.5006	0.2066	0.4899	0.3276	1.3352	0.3458	0.3117	101.20%
5	22:54:19	0.1338	0.3216	0.1801	0.4029	0.1625	1.5608	-0.2123	-0.1019	101.30%
x		0.2185	0.6027	0.3236	0.5746	0.3919	1.9148	0.2211	-0.3589	99.70%
%RSD		31.2690	38.2190	52.6190	31.7900	41.6720	24.5340	110.8200	195.3400	1.70

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	0.0000	0.0000	0.0000	0.0000	0.0000	97.23%	0.1601	-0.1807	0.1418
2	22:52:20	0.0000	0.0000	0.0000	0.0000	0.0000	99.33%	0.1227	-0.1934	0.1352
3	22:52:59	0.0000	0.0000	0.0000	0.0000	0.0000	98.88%	0.1132	-0.3748	0.1158
4	22:53:39	0.0000	0.0000	0.0000	0.0000	0.0000	100.37%	0.1269	0.5520	0.1360
5	22:54:19	0.0000	0.0000	0.0000	0.0000	0.0000	101.89%	0.0566	-0.8676	0.0667
x		0.0000	0.0000	0.0000	0.0000	0.0000	99.54%	0.1159	-0.2129	0.1191
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.74	32.4250	239.6600	25.9330

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	0.3361	0.0000	0.0000	1.7181	0.3750	0.3195	98.05%	0.6472	0.6709
2	22:52:20	0.2137	0.0000	0.0000	1.2039	0.2949	0.2032	99.21%	0.4735	0.4414
3	22:52:59	0.1987	0.0000	0.0000	0.9172	0.1956	0.2123	99.94%	0.3280	0.3103
4	22:53:39	0.1951	0.0000	0.0000	0.7242	0.1770	0.1478	100.87%	0.2380	0.2460
5	22:54:19	0.1510	0.0000	0.0000	0.5763	0.1674	0.1938	101.23%	0.1896	0.1954
x		0.2189	0.0000	0.0000	1.0279	0.2420	0.2153	99.86%	0.3753	0.3728
%RSD		31.7710	0.0000	0.0000	43.9350	37.2230	29.4120	1.29	49.6980	51.0800

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:51:40	0.3778	0.3489	0.3791	99.87%	0.4232
2	22:52:20	0.2626	0.2850	0.2884	100.44%	0.4192
3	22:52:59	0.2439	0.2659	0.2557	101.46%	-0.2857
4	22:53:39	0.1869	0.2043	0.2106	102.37%	0.4059
5	22:54:19	0.1742	0.1572	0.1702	103.82%	0.3963
x		0.2491	0.2522	0.2608	101.59%	0.2718
%RSD		32.5250	29.3560	30.6230	1.55	114.7400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	93.30%	0.8265	59.4080	┬1771.7000	1663.5000	1681.4000	┬15207.0000	┬2923.8000	1675.8000
2	22:56:41	93.16%	0.8325	57.9380	┬1783.7000	1618.7000	1681.6000	┬15202.0000	┬2964.2000	1682.6000
3	22:57:21	93.19%	0.8587	58.3120	┬1743.7000	1645.6000	1700.5000	┬15179.0000	┬2900.2000	1687.8000
4	22:58:01	92.89%	0.7784	58.7170	┬1773.7000	1647.8000	1705.4000	┬15303.0000	┬2939.9000	1717.4000
5	22:58:40	92.79%	0.8180	56.4490	┬1749.3000	1646.5000	1668.9000	┬15210.0000	┬2885.3000	1654.9000
x		93.07%	0.8228	58.1650	┬1764.4000	1644.4000	1687.5000	┬15220.0000	┬2922.7000	1683.7000
%RSD		0.23	3.5371	1.8965	┬0.9678	0.9824	0.8925	┬0.3147	┬1.0723	1.3420

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	99.49%	13.3410	26.9710	22.9030	13351.0000	127.6600	┬14361.0000	13244.0000	3.4102
2	22:56:41	99.49%	13.7000	27.5610	23.1640	13590.0000	130.0300	┬14359.0000	13331.0000	3.4714
3	22:57:21	100.71%	13.5800	27.5820	23.0060	13472.0000	129.7400	┬14544.0000	13446.0000	3.4584
4	22:58:01	100.25%	13.6710	27.4210	23.0790	13587.0000	130.5000	┬14510.0000	13560.0000	3.4184
5	22:58:40	101.14%	13.9740	26.9570	22.5150	13385.0000	127.4700	┬14358.0000	13178.0000	3.4753
x		100.22%	13.6530	27.2990	22.9330	13477.0000	129.0800	┬14426.0000	13352.0000	3.4467
%RSD		0.73	1.6720	1.1409	1.1027	0.8223	1.0940	┬0.6405	1.1504	0.8816

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	12.0230	8.3767	8.3648	14.3230	3.1617	0.3209	0.2924	-0.1857	103.15%
2	22:56:41	12.1910	8.0919	8.3774	13.8860	3.3152	0.3216	0.1738	1.2488	104.70%
3	22:57:21	12.1330	8.1377	8.4062	14.4580	3.5187	0.6806	0.7666	-1.0801	104.75%
4	22:58:01	12.4030	8.2961	8.3682	14.4740	3.3956	0.3839	0.3695	0.4873	105.59%
5	22:58:40	11.6610	7.7888	8.0834	13.4830	3.4989	0.3496	0.2537	0.1975	106.40%
x		12.0820	8.1382	8.3200	14.1250	3.3780	0.4113	0.3712	0.1335	104.92%
%RSD		2.2594	2.7889	1.6016	3.0477	4.3273	37.1330	62.5090	642.8800	1.15

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	0.0000	0.0000	0.0000	0.0000	0.0000	98.48%	0.0609	-0.4761	0.0363
2	22:56:41	0.0000	0.0000	0.0000	0.0000	0.0000	98.97%	0.0453	-1.1219	0.0441
3	22:57:21	0.0000	0.0000	0.0000	0.0000	0.0000	99.98%	0.0480	-0.6269	0.0499
4	22:58:01	0.0000	0.0000	0.0000	0.0000	0.0000	100.07%	0.0834	-1.3266	0.0691
5	22:58:40	0.0000	0.0000	0.0000	0.0000	0.0000	100.06%	0.0492	-1.2740	0.0389
x		0.0000	0.0000	0.0000	0.0000	0.0000	99.51%	0.0574	-0.9651	0.0477
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.75	27.4280	40.2680	27.3620

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	0.0921	0.0000	0.0000	0.4060	66.2200	68.2460	99.77%	0.2194	0.2266
2	22:56:41	0.0852	0.0000	0.0000	0.4085	67.0610	67.4950	99.44%	0.2069	0.2056
3	22:57:21	0.0408	0.0000	0.0000	0.3510	67.0880	69.5600	100.08%	0.1934	0.1858
4	22:58:01	0.0794	0.0000	0.0000	0.3041	66.5570	68.9320	100.12%	0.1816	0.1824
5	22:58:40	0.0976	0.0000	0.0000	0.2589	66.2270	66.0000	102.41%	0.1700	0.1574
x		0.0790	0.0000	0.0000	0.3457	66.6310	68.0470	100.36%	0.1943	0.1916
%RSD		28.4060	0.0000	0.0000	18.7930	0.6418	2.0266	1.17	10.0990	13.5740

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	22:56:02	9.9073	8.8466	9.1956	99.40%	-0.2857
2	22:56:41	10.0130	8.9917	9.3643	98.64%	1.1498
3	22:57:21	9.7310	8.8521	9.2938	100.67%	-0.2857
4	22:58:01	10.0450	8.9026	9.2815	99.81%	-0.2857
5	22:58:40	9.9258	8.9987	9.2595	100.10%	0.4216
x		9.9244	8.9183	9.2789	99.72%	0.1429
%RSD		1.2343	0.8246	0.6561	0.76	448.5400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	92.83%	0.9544	89.3030	┬2237.2000	2059.7000	2134.6000	┬21648.0000	┬3860.0000	1740.3000
2	23:01:02	91.17%	0.9580	92.0830	┬2225.4000	2101.5000	2116.9000	┬22080.0000	┬3900.7000	1739.4000
3	23:01:42	93.51%	0.9292	90.7990	┬2229.6000	2129.4000	2166.8000	┬22079.0000	┬3938.2000	1765.8000
4	23:02:21	91.68%	0.9978	93.3540	┬2303.4000	2160.6000	2182.2000	┬22100.0000	┬3970.5000	1762.1000
5	23:03:01	93.23%	0.9192	┬95.9870	┬2193.4000	2074.9000	2078.2000	┬21465.0000	┬3809.5000	1731.2000
x		92.48%	0.9517	┬92.3050	┬2237.8000	2105.2000	2135.7000	┬21875.0000	┬3895.8000	1747.8000
%RSD		1.10	3.2112	┬2.7612	┬1.8010	1.9387	1.9294	┬1.3595	┬1.6300	0.8730

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	99.61%	20.0130	34.7560	29.5080	15195.0000	119.1500	┬16165.0000	15106.0000	3.6636
2	23:01:02	101.42%	19.7780	34.5400	29.3700	15346.0000	119.5600	┬16336.0000	15171.0000	3.7635
3	23:01:42	100.67%	20.0620	35.2220	30.2140	15676.0000	122.5000	┬16584.0000	15573.0000	3.7468
4	23:02:21	100.71%	19.8640	35.3570	29.5000	15472.0000	120.1300	┬16629.0000	15332.0000	3.7372
5	23:03:01	101.94%	19.5300	34.6760	29.3410	15081.0000	118.1100	┬16130.0000	14923.0000	3.5979
x		100.87%	19.8500	34.9100	29.5870	15354.0000	119.8900	┬16369.0000	15221.0000	3.7018
%RSD		0.87	1.0676	1.0256	1.2125	1.5186	1.3653	┬1.4114	1.6121	1.8782

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	14.3080	9.4997	9.5685	15.1700	3.0413	-0.6007	0.7568	-0.1334	106.75%
2	23:01:02	14.3460	9.7305	9.8683	15.1880	3.0412	-0.0534	0.4999	0.5432	105.48%
3	23:01:42	14.6210	9.9545	9.8618	15.8420	3.0308	0.0616	0.2224	0.7663	105.34%
4	23:02:21	14.5620	9.4952	9.6768	15.3210	3.1177	-0.2328	0.7095	-0.8865	106.27%
5	23:03:01	14.4200	9.3974	9.6695	15.1860	2.9794	0.0164	0.3494	-0.2012	107.07%
x		14.4520	9.6155	9.7290	15.3420	3.0421	-0.1618	0.5076	0.0177	106.18%
%RSD		0.9377	2.3463	1.3506	1.8669	1.6255	166.7400	45.0670	3714.0000	0.72

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	0.0000	0.0000	0.0000	0.0000	0.0000	97.87%	0.0415	-0.7857	0.0240
2	23:01:02	0.0000	0.0000	0.0000	0.0000	0.0000	98.93%	0.0448	-0.5374	0.0331
3	23:01:42	0.0000	0.0000	0.0000	0.0000	0.0000	99.38%	0.0474	-0.9545	0.0344
4	23:02:21	0.0000	0.0000	0.0000	0.0000	0.0000	99.36%	0.0701	-1.0260	0.0388
5	23:03:01	0.0000	0.0000	0.0000	0.0000	0.0000	98.90%	0.0543	-1.0976	0.0406
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.89%	0.0516	-0.8802	0.0342
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.62	22.0350	25.4320	18.8640

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	-0.0141	0.0000	0.0000	0.1826	86.4560	88.8340	100.37%	0.2116	0.2121
2	23:01:02	0.0504	0.0000	0.0000	0.2072	87.5280	89.6910	100.46%	0.1960	0.1928
3	23:01:42	0.0230	0.0000	0.0000	0.2044	87.7700	92.9670	100.89%	0.1991	0.1955
4	23:02:21	0.0176	0.0000	0.0000	0.1519	87.7860	90.9540	101.85%	0.2038	0.1886
5	23:03:01	0.0096	0.0000	0.0000	0.1532	87.7140	91.0880	100.49%	0.1972	0.1905
x		0.0173	0.0000	0.0000	0.1799	87.4510	90.7070	100.81%	0.2015	0.1959
%RSD		134.6600	0.0000	0.0000	14.8230	0.6466	1.7302	0.61	3.1602	4.8025

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:00:22	9.2774	8.0738	8.6516	98.82%	0.4308
2	23:01:02	9.5505	8.4270	8.9211	98.66%	0.4319
3	23:01:42	9.4791	8.3141	8.8572	99.42%	-0.2857
4	23:02:21	9.1746	8.1905	8.6476	100.17%	0.4211
5	23:03:01	9.0016	8.3637	8.7216	99.84%	0.4235
x		9.2966	8.2738	8.7598	99.38%	0.2843
%RSD		2.4056	1.7106	1.4126	0.65	112.0900

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	91.93%	1.1181	131.7400	↹2745.6000	2587.3000	2678.5000	↹28203.0000	↹4938.9000	1735.1000
2	23:05:23	93.22%	1.1462	133.4800	↹2775.1000	2630.3000	2706.1000	↹28408.0000	↹5030.9000	1735.1000
3	23:06:03	91.83%	1.2302	136.6500	↹2868.8000	2644.6000	2719.4000	↹28657.0000	↹5059.5000	1778.8000
4	23:06:42	92.58%	1.1916	136.5400	↹2801.3000	2645.4000	2695.9000	↹28400.0000	↹5053.4000	1742.5000
5	23:07:22	92.28%	1.1372	131.2500	↹2733.0000	2555.6000	2625.1000	↹27777.0000	↹4939.3000	1728.1000
x		92.37%	1.1647	133.9300	↹2784.8000	2612.6000	2685.0000	↹28289.0000	↹5004.4000	1743.9000
%RSD		0.61	3.9079	1.9199	↹1.9370	1.5195	1.3662	↹1.1607	↹1.2098	1.1551

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	100.22%	26.4160	47.1310	37.3060	23768.0000	117.6800	↹25269.0000	23523.0000	4.7297
2	23:05:23	101.24%	27.4780	46.4370	37.4000	↹24977.0000	117.7400	↹25033.0000	23551.0000	4.8082
3	23:06:03	101.24%	27.8710	47.7680	38.3290	24303.0000	119.5400	↹25329.0000	23551.0000	4.8588
4	23:06:42	101.67%	27.0980	47.1070	37.8490	↹24992.0000	118.2400	↹25116.0000	23356.0000	4.8232
5	23:07:22	101.10%	28.4810	46.2860	36.6080	↹24527.0000	116.4900	↹24836.0000	22847.0000	4.7446
x		101.09%	27.4690	46.9460	37.4980	↹24514.0000	117.9400	↹25116.0000	23366.0000	4.7929
%RSD		0.53	2.8391	1.2745	1.7139	↹2.0842	0.9331	↹0.7817	1.2884	1.1338

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	18.4660	11.2510	11.4420	16.5190	5.5479	-0.0263	0.2229	0.2099	105.09%
2	23:05:23	18.8640	11.4560	11.5230	16.5700	5.7392	0.2237	0.5355	0.8861	104.72%
3	23:06:03	18.9780	11.4720	11.5970	15.7370	5.9629	-0.2046	0.9046	-0.6898	106.16%
4	23:06:42	18.2900	11.2130	11.5520	16.1680	5.8506	0.4001	0.6448	0.8221	105.91%
5	23:07:22	18.1720	11.1450	11.3050	15.7770	5.8501	0.3593	1.2901	-1.0589	106.70%
x		18.5540	11.3070	11.4840	16.1540	5.7901	0.1504	0.7196	0.0339	105.72%
%RSD		1.9035	1.3108	1.0017	2.4434	2.7085	172.2700	55.8420	2596.8000	0.76

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	0.0000	0.0000	0.0000	0.0000	0.0000	97.47%	0.0496	-0.6422	0.0323
2	23:05:23	0.0000	0.0000	0.0000	0.0000	0.0000	97.57%	0.0505	-1.0479	0.0358
3	23:06:03	0.0000	0.0000	0.0000	0.0000	0.0000	96.73%	0.0549	-1.4425	0.0361
4	23:06:42	0.0000	0.0000	0.0000	0.0000	0.0000	98.13%	0.0805	-1.6302	0.0421
5	23:07:22	0.0000	0.0000	0.0000	0.0000	0.0000	98.83%	0.0444	-0.8462	0.0322
x		0.0000	0.0000	0.0000	0.0000	0.0000	97.74%	0.0560	-1.1218	0.0357
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.80	25.3960	36.5590	11.2580

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	-0.1075	0.0000	0.0000	0.1718	104.1400	106.8900	98.94%	0.2372	0.2206
2	23:05:23	-0.0437	0.0000	0.0000	0.1474	102.5600	104.9500	98.09%	0.2283	0.2342
3	23:06:03	-0.0556	0.0000	0.0000	0.1459	104.0900	107.0900	99.53%	0.2257	0.2257
4	23:06:42	-0.0441	0.0000	0.0000	0.1411	101.4700	105.8300	98.77%	0.2239	0.2202
5	23:07:22	-0.0716	0.0000	0.0000	0.1588	100.3300	102.8600	100.08%	0.2268	0.2236
x		-0.0645	0.0000	0.0000	0.1530	102.5200	105.5300	99.08%	0.2284	0.2248
%RSD		41.2490	0.0000	0.0000	8.0744	1.6157	1.6292	0.76	2.2670	2.5259

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:04:43	6.8244	5.6594	6.2376	97.63%	0.4395
2	23:05:23	6.7569	6.2289	6.3502	96.94%	0.4447
3	23:06:03	6.7076	6.1560	6.3856	97.61%	0.4397
4	23:06:42	6.7253	6.0071	6.2837	98.79%	-0.2857
5	23:07:22	6.5948	6.0899	6.1647	98.65%	-0.2857
x		6.7218	6.0283	6.2844	97.92%	0.1505
%RSD		1.2467	3.6801	1.4028	0.80	264.6000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	90.94%	0.4521	41.8370	τ3588.9000	3336.9000	3435.2000	τ8787.7000	τ1733.3000	7487.9000
2	23:09:44	91.90%	0.4423	41.7490	τ3623.8000	3377.7000	3500.2000	τ8857.2000	1694.7000	7509.0000
3	23:10:23	92.32%	0.4272	39.7910	τ3634.0000	3363.0000	3428.1000	τ8616.7000	τ1736.7000	7624.5000
4	23:11:03	91.56%	0.4350	39.3920	τ3547.3000	3298.5000	3318.3000	τ8543.9000	τ1729.9000	7438.8000
5	23:11:43	92.21%	0.3927	39.5580	τ3530.9000	3256.7000	3373.3000	τ8462.1000	τ1718.3000	7400.1000
x		91.79%	0.4299	40.4660	τ3585.0000	3326.6000	3411.0000	τ8653.5000	τ1722.6000	7492.1000
%RSD		0.61	5.2830	3.0162	τ1.2687	1.4820	2.0122	τ1.9122	τ0.9899	1.1396

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	98.31%	16.1970	17.2440	12.7980	8279.3000	τ505.4100	τ8915.7000	8277.9000	3.3619
2	23:09:44	98.56%	15.2040	17.1440	13.0120	8296.0000	τ508.3600	τ8965.4000	8301.8000	3.3289
3	23:10:23	98.20%	15.4150	17.4860	13.1000	8355.7000	τ507.1900	τ8993.3000	8296.9000	3.3875
4	23:11:03	100.23%	15.7500	16.8020	12.4930	8151.8000	τ495.8100	τ8788.5000	8132.2000	3.2384
5	23:11:43	98.98%	15.3420	16.9650	12.4580	8161.1000	τ491.6300	τ8699.1000	7959.1000	3.0831
x		98.86%	15.5820	17.1280	12.7720	8248.8000	τ501.6800	τ8872.4000	8193.6000	3.2800
%RSD		0.83	2.5570	1.5300	2.2915	1.0786	τ1.4924	τ1.4057	1.8129	3.7693

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	6.9000	8.9249	8.9989	69.8390	3.3703	-0.2211	-0.0253	0.2264	103.24%
2	23:09:44	7.1597	9.1963	9.1161	70.5940	3.6244	0.0127	0.3269	-0.3382	102.81%
3	23:10:23	7.2355	9.0933	8.9475	70.9500	3.6704	0.1843	0.0752	-0.0494	101.97%
4	23:11:03	7.0375	8.8985	8.9536	69.2510	3.5930	-0.1362	0.1086	1.1379	101.89%
5	23:11:43	6.7030	8.4709	8.5651	68.6400	3.5592	0.1914	0.6991	-1.0889	102.14%
x		7.0072	8.9168	8.9162	69.8550	3.5635	0.0062	0.2369	-0.0224	102.41%
%RSD		3.0300	3.1145	2.3288	1.3557	3.2405	2983.6000	121.8100	3623.4000	0.57

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	0.0000	0.0000	0.0000	0.0000	0.0000	97.89%	0.0454	-0.2716	0.0482
2	23:09:44	0.0000	0.0000	0.0000	0.0000	0.0000	98.58%	0.0551	-0.3654	0.0632
3	23:10:23	0.0000	0.0000	0.0000	0.0000	0.0000	97.80%	0.0677	-1.3217	0.0508
4	23:11:03	0.0000	0.0000	0.0000	0.0000	0.0000	98.13%	0.0766	-0.6758	0.0736
5	23:11:43	0.0000	0.0000	0.0000	0.0000	0.0000	97.84%	0.0575	-0.5095	0.0442
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.05%	0.0605	-0.6288	0.0560
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.33	19.8320	66.2250	21.6510

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	0.3090	0.0000	0.0000	0.2209	76.1280	77.5450	98.42%	0.1036	0.0960
2	23:09:44	0.3797	0.0000	0.0000	0.2135	75.0730	78.4940	99.75%	0.0948	0.1020
3	23:10:23	0.3307	0.0000	0.0000	0.2013	77.3670	78.7570	98.91%	0.0932	0.0827
4	23:11:03	0.3778	0.0000	0.0000	0.2004	77.0730	78.5850	99.53%	0.1014	0.0919
5	23:11:43	0.3422	0.0000	0.0000	0.1765	74.8490	76.4900	99.08%	0.0952	0.0894
x		0.3479	0.0000	0.0000	0.2025	76.0980	77.9740	99.14%	0.0976	0.0924
%RSD		8.7913	0.0000	0.0000	8.3480	1.4940	1.2240	0.53	4.6430	7.8261

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:09:04	41.1300	37.0690	38.6620	99.18%	-0.2857
2	23:09:44	40.5440	37.9410	38.5610	99.48%	0.4260
3	23:10:23	40.9660	37.3260	38.7030	99.42%	1.1386
4	23:11:03	40.6300	38.1060	38.8140	98.34%	-0.2857
5	23:11:43	39.3300	36.8020	37.6000	99.18%	-0.2857
x		40.5200	37.4490	38.4680	99.12%	0.1415
%RSD		1.7457	1.4935	1.2831	0.46	450.1400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	92.78%	0.7419	74.2220	T1775.0000	1678.2000	1706.7000	T13736.0000	T2941.0000	2153.2000
2	23:14:05	91.31%	0.7108	76.8700	T1827.8000	1697.0000	1713.6000	T14132.0000	T3049.7000	2155.1000
3	23:14:45	91.33%	0.7305	76.0450	T1847.0000	1712.0000	1722.8000	T13934.0000	T3039.6000	2185.1000
4	23:15:24	91.74%	0.6743	75.4070	T1790.3000	1669.6000	1730.1000	T13854.0000	T3007.6000	2140.1000
5	23:16:04	91.96%	0.7108	72.9320	T1779.6000	1643.1000	1708.5000	T13499.0000	T2948.2000	2090.3000
x		91.82%	0.7137	75.0950	T1803.9000	1680.0000	1716.3000	T13831.0000	T2997.2000	2144.8000
%RSD		0.65	3.6065	2.0622	T1.7605	1.5697	0.5776	T1.6980	T1.6862	1.6134

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	99.04%	14.8320	24.3250	22.2170	13356.0000	160.9700	T14500.0000	13246.0000	3.8378
2	23:14:05	97.84%	15.1030	24.6090	22.4320	13620.0000	162.0100	T14375.0000	13384.0000	3.9292
3	23:14:45	98.96%	14.7980	25.3410	22.6590	13390.0000	162.4400	T14449.0000	13450.0000	3.8014
4	23:15:24	99.09%	14.6890	24.6990	22.0020	13430.0000	162.4000	T14307.0000	13326.0000	3.7652
5	23:16:04	99.72%	14.2650	24.1350	21.8810	13379.0000	158.3000	T14033.0000	13169.0000	3.7445
x		98.93%	14.7370	24.6220	22.2380	13435.0000	161.2200	T14333.0000	13315.0000	3.8156
%RSD		0.69	2.0697	1.8705	1.4191	0.7943	1.0792	T1.2769	0.8327	1.9081

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	13.4590	8.3376	8.4146	20.4840	4.5799	0.1373	0.3655	0.2160	100.54%
2	23:14:05	13.4980	8.5396	8.5832	20.4430	4.5819	-0.1153	0.7012	0.3689	101.90%
3	23:14:45	13.7270	8.1242	8.1955	20.5480	4.7069	-0.0909	0.5138	0.2034	102.01%
4	23:15:24	12.9630	8.1402	8.2754	20.6220	4.3890	-0.0929	0.1257	0.4045	102.00%
5	23:16:04	13.5200	8.1160	8.1532	19.9810	4.5437	-0.2774	0.6307	-0.5660	102.18%
x		13.4330	8.2515	8.3244	20.4160	4.5603	-0.0878	0.4674	0.1253	101.73%
%RSD		2.1045	2.2459	2.1106	1.2353	2.4988	168.3400	49.1000	316.5400	0.66

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	0.0000	0.0000	0.0000	0.0000	0.0000	98.03%	0.0304	-0.5348	0.0166
2	23:14:05	0.0000	0.0000	0.0000	0.0000	0.0000	97.25%	0.0303	-0.5762	0.0254
3	23:14:45	0.0000	0.0000	0.0000	0.0000	0.0000	97.77%	0.0402	0.0278	0.0181
4	23:15:24	0.0000	0.0000	0.0000	0.0000	0.0000	98.86%	0.0377	-1.4121	0.0427
5	23:16:04	0.0000	0.0000	0.0000	0.0000	0.0000	98.38%	0.0340	-0.1485	0.0229
x		0.0000	0.0000	0.0000	0.0000	0.0000	98.06%	0.0345	-0.5288	0.0251
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.62	12.7320	105.1700	41.5180

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	0.0800	0.0000	0.0000	0.0713	57.9760	60.7800	97.34%	0.1042	0.1087
2	23:14:05	0.1005	0.0000	0.0000	0.1107	60.1170	61.1180	97.81%	0.1136	0.1074
3	23:14:45	0.0612	0.0000	0.0000	0.0996	60.3990	60.6860	97.68%	0.1045	0.1036
4	23:15:24	0.1462	0.0000	0.0000	0.0894	58.4560	60.1430	99.09%	0.1032	0.0978
5	23:16:04	0.0867	0.0000	0.0000	0.0876	58.1580	58.2750	100.41%	0.1072	0.1079
x		0.0949	0.0000	0.0000	0.0917	59.0210	60.2000	98.47%	0.1065	0.1051
%RSD		33.6770	0.0000	0.0000	16.0250	1.9424	1.8799	1.29	3.9651	4.2967

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:13:25	16.5180	14.8060	15.4840	96.14%	0.4507
2	23:14:05	16.3380	14.6500	15.3340	97.78%	-0.2857
3	23:14:45	16.4510	15.2180	15.6060	97.43%	0.4410
4	23:15:24	16.2590	14.6720	15.2100	98.37%	-0.2857
5	23:16:04	16.2300	14.5910	15.1880	98.34%	-0.2857
x		16.3590	14.7880	15.3650	97.61%	0.0069
%RSD		0.7549	1.7135	1.1668	0.94	5792.9000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	90.91%	0.7642	132.5600	┬1664.1000	1526.6000	1556.5000	┬14433.0000	┬2907.8000	1500.0000
2	23:18:25	92.53%	0.7741	132.4100	┬1656.8000	1563.0000	1551.3000	┬14396.0000	┬2841.1000	1504.1000
3	23:19:04	92.61%	0.7533	133.3000	┬1657.9000	1547.9000	1590.3000	┬14411.0000	┬2887.7000	1542.5000
4	23:19:44	92.05%	0.7765	135.9600	┬1711.2000	1573.9000	1594.2000	┬14339.0000	┬2833.1000	1518.7000
5	23:20:24	92.31%	0.7950	131.5400	┬1633.0000	1534.7000	1589.8000	┬14179.0000	┬2812.1000	1494.1000
x		92.08%	0.7726	133.1600	┬1664.6000	1549.2000	1576.4000	┬14352.0000	┬2856.3000	1511.9000
%RSD		0.75	2.0038	1.2695	┬1.7187	1.2603	1.3154	┬0.7154	┬1.3966	1.2810

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	97.07%	16.5740	27.1110	24.3340	13315.0000	112.4500	┬14219.0000	13303.0000	3.5535
2	23:18:25	98.56%	17.2820	25.4300	23.5550	13170.0000	109.3400	┬13983.0000	13116.0000	3.4552
3	23:19:04	98.12%	17.2860	26.6850	24.2970	13320.0000	111.6000	┬14108.0000	13280.0000	3.4991
4	23:19:44	99.10%	16.9180	26.0010	23.9530	13210.0000	110.6700	┬14059.0000	13164.0000	3.4477
5	23:20:24	98.65%	16.1350	25.6020	23.9070	13097.0000	111.5800	┬14152.0000	12933.0000	3.4586
x		98.30%	16.8390	26.1660	24.0090	13222.0000	111.1300	┬14104.0000	13159.0000	3.4828
%RSD		0.78	2.9205	2.7354	1.3299	0.7245	1.0618	┬0.6371	1.1273	1.2710

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	12.3000	8.3588	8.4060	14.2180	3.7397	-0.3172	0.3121	0.1657	102.04%
2	23:18:25	12.3350	8.3271	8.2708	13.7140	3.8870	-0.5479	-0.0770	0.6834	102.00%
3	23:19:04	11.8970	8.5122	8.3548	13.4010	3.8872	-0.2526	0.3100	-0.0059	102.91%
4	23:19:44	12.2260	8.2595	8.7359	13.2540	3.9358	-0.1436	0.7495	-1.4982	102.18%
5	23:20:24	12.2180	8.0696	8.6765	13.9060	4.0022	-0.2039	0.4794	-0.4960	102.33%
x		12.1950	8.3054	8.4888	13.6990	3.8904	-0.2930	0.3548	-0.2302	102.29%
%RSD		1.4266	1.9395	2.4184	2.8246	2.4823	53.2750	84.7420	358.2500	0.36

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	0.0000	0.0000	0.0000	0.0000	0.0000	97.23%	0.0279	-0.2306	0.0137
2	23:18:25	0.0000	0.0000	0.0000	0.0000	0.0000	97.14%	0.0235	-0.7963	0.0127
3	23:19:04	0.0000	0.0000	0.0000	0.0000	0.0000	97.50%	0.0268	-0.2586	0.0303
4	23:19:44	0.0000	0.0000	0.0000	0.0000	0.0000	98.64%	0.0345	-0.7542	0.0319
5	23:20:24	0.0000	0.0000	0.0000	0.0000	0.0000	96.32%	0.0346	-1.6259	0.0303
x		0.0000	0.0000	0.0000	0.0000	0.0000	97.37%	0.0295	-0.7331	0.0238
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.86	16.7410	77.1390	40.6480

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	-0.0197	0.0000	0.0000	0.0929	60.0290	60.5070	97.85%	0.0997	0.1053
2	23:18:25	0.0643	0.0000	0.0000	0.0803	59.6690	60.7190	98.60%	0.1099	0.0976
3	23:19:04	-0.0230	0.0000	0.0000	0.0980	60.0890	61.6600	97.81%	0.1123	0.1081
4	23:19:44	0.0241	0.0000	0.0000	0.0848	60.0420	62.1080	97.69%	0.1100	0.1150
5	23:20:24	0.0496	0.0000	0.0000	0.0901	60.7290	61.6900	97.85%	0.1126	0.1149
x		0.0190	0.0000	0.0000	0.0892	60.1120	61.3370	97.96%	0.1089	0.1082
%RSD		208.0200	0.0000	0.0000	7.7425	0.6385	1.1220	0.37	4.8776	6.7167

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:17:45	9.6108	8.6462	8.9733	95.79%	-0.2857
2	23:18:25	9.8594	8.5765	9.0563	96.81%	-0.2857
3	23:19:04	9.7750	8.6083	9.0751	96.37%	-0.2857
4	23:19:44	9.8718	8.7934	9.2731	96.81%	0.4456
5	23:20:24	9.6132	8.8288	9.0922	97.63%	1.8898
x		9.7460	8.6906	9.0940	96.68%	0.2957
%RSD		1.3124	1.3047	1.2099	0.70	319.8700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	90.15%	1.8148	163.0000	↹3320.0000	3110.9000	3166.2000	↹27151.0000	↹5334.1000	2633.2000
2	23:22:44	91.19%	1.7725	164.2300	↹3366.4000	3154.3000	3204.0000	↹26929.0000	↹5242.7000	2667.1000
3	23:23:24	91.44%	1.8101	162.3500	↹3423.7000	3145.7000	3213.9000	↹26725.0000	↹5415.1000	2714.9000
4	23:24:04	89.76%	1.8314	165.9300	↹3408.1000	3158.6000	3212.7000	↹27089.0000	↹5290.4000	2703.7000
5	23:24:43	90.49%	1.7538	156.3000	↹3213.1000	3042.6000	3145.7000	↹26071.0000	↹5110.6000	2612.6000
x		90.61%	1.7965	162.3600	↹3346.3000	3122.4000	3188.5000	↹26793.0000	↹5278.6000	2666.3000
%RSD		0.78	1.7898	2.2505	↹2.5294	1.5506	0.9662	↹1.6276	↹2.1470	1.6508

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	98.42%	18.7790	68.3330	52.3940	↹48036.0000	↹642.1900	↹47238.0000	44918.0000	13.5880
2	23:22:44	98.14%	18.6390	68.6180	52.4790	↹47148.0000	↹643.5600	↹47607.0000	↹47713.0000	13.8690
3	23:23:24	98.20%	19.1090	70.0340	53.1870	↹47983.0000	↹645.4800	↹47409.0000	45470.0000	13.8380
4	23:24:04	98.16%	18.7270	67.5790	51.7230	↹46536.0000	↹635.1100	↹47220.0000	↹46836.0000	13.4310
5	23:24:43	99.04%	17.7150	65.5300	50.6280	↹45497.0000	↹613.4000	↹46030.0000	43275.0000	13.2670
x		98.39%	18.5940	68.0190	52.0820	↹47040.0000	↹635.9500	↹47101.0000	↹45642.0000	13.5990
%RSD		0.39	2.8089	2.4273	1.8514	↹2.2612	↹2.0754	↹1.3137	↹3.7742	1.9066

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	34.0930	17.5610	18.0390	21.2480	17.7120	-0.4955	0.1756	1.2175	102.70%
2	23:22:44	34.4100	17.7530	17.8230	21.1660	18.1090	-0.5068	0.1423	0.9199	102.39%
3	23:23:24	34.2390	17.4920	17.0790	20.8790	18.0620	-0.6357	0.5615	0.7322	102.89%
4	23:24:04	33.5370	17.6800	18.0020	20.6220	17.8330	-0.7096	0.5164	1.5027	101.38%
5	23:24:43	33.2690	16.8230	17.3230	20.6060	17.6830	-0.5538	0.4616	1.0331	102.43%
x		33.9100	17.4620	17.6530	20.9040	17.8800	-0.5802	0.3715	1.0811	102.36%
%RSD		1.4302	2.1257	2.4325	1.4280	1.0992	15.6760	53.1790	27.2220	0.57

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	0.0000	0.0000	0.0000	0.0000	0.0000	95.37%	0.0461	-1.0628	0.0220
2	23:22:44	0.0000	0.0000	0.0000	0.0000	0.0000	94.18%	0.0508	-0.8362	0.0339
3	23:23:24	0.0000	0.0000	0.0000	0.0000	0.0000	95.18%	0.0576	-0.9830	0.0268
4	23:24:04	0.0000	0.0000	0.0000	0.0000	0.0000	93.92%	0.0540	-1.0168	0.0356
5	23:24:43	0.0000	0.0000	0.0000	0.0000	0.0000	93.50%	0.0351	-1.0224	0.0216
x		0.0000	0.0000	0.0000	0.0000	0.0000	94.43%	0.0487	-0.9842	0.0280
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.86	17.8960	8.8880	23.3210

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	0.0192	0.0000	0.0000	0.1062	143.4500	148.9100	95.72%	0.1913	0.1869
2	23:22:44	-0.0083	0.0000	0.0000	0.0854	145.6500	149.6100	95.55%	0.1828	0.1766
3	23:23:24	0.0257	0.0000	0.0000	0.1066	146.8900	148.5500	95.15%	0.1817	0.1745
4	23:24:04	0.0039	0.0000	0.0000	0.0982	143.8700	145.4800	96.28%	0.1847	0.1759
5	23:24:43	0.0407	0.0000	0.0000	0.1025	142.6200	146.4000	95.55%	0.1686	0.1725
x		0.0162	0.0000	0.0000	0.0998	144.5000	147.7900	95.65%	0.1818	0.1773
%RSD		117.3400	0.0000	0.0000	8.7271	1.2026	1.1920	0.43	4.5513	3.1634

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:22:05	14.1990	13.1040	13.4960	95.21%	0.4579
2	23:22:44	14.6210	13.2510	13.6530	93.93%	0.4681
3	23:23:24	14.5720	13.3050	13.7480	93.88%	0.4685
4	23:24:04	14.2650	12.8100	13.3350	94.75%	-0.2857
5	23:24:43	14.1570	12.5790	13.0720	95.25%	-0.2857
x		14.3630	13.0100	13.4610	94.60%	0.1646
%RSD		1.5139	2.3665	1.9926	0.71	249.7300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	88.80%	1.7843	84.9890	T 2169.1000	2041.0000	2057.5000	T 23341.0000	T 2769.2000	2507.3000
2	23:27:04	89.53%	1.8586	83.7320	T 2178.2000	2027.4000	2061.2000	T 23276.0000	T 2793.1000	2485.4000
3	23:27:43	88.63%	1.8853	86.1620	T 2202.5000	2024.2000	2095.7000	T 23578.0000	T 2773.8000	2527.9000
4	23:28:23	89.19%	1.8609	86.8390	T 2221.6000	2047.5000	2118.5000	T 23145.0000	T 2834.8000	2530.9000
5	23:29:03	89.48%	1.8675	84.5180	T 2223.4000	2037.3000	2090.4000	T 23305.0000	T 2786.3000	2461.8000
x		89.13%	1.8513	85.2480	T 2199.0000	2035.5000	2084.7000	T 23329.0000	T 2791.5000	2502.6000
%RSD		0.45	2.1006	1.4680	T 1.1241	0.4730	1.2202	T 0.6754	T 0.9324	1.1688

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	95.33%	17.7020	61.2690	35.3440	T 71192.0000	TM 14268.0000	T 70973.0000	T 70336.0000	139.2100
2	23:27:04	96.01%	18.4800	62.9770	35.3600	T 71461.0000	TM 14247.0000	T 71263.0000	T 70992.0000	138.3200
3	23:27:43	96.76%	18.0970	62.0750	35.4030	T 70739.0000	TM 14239.0000	T 71877.0000	T 71083.0000	140.7900
4	23:28:23	95.65%	18.5020	63.4660	35.7540	T 71229.0000	TM 14337.0000	T 71828.0000	T 71097.0000	141.4900
5	23:29:03	96.43%	17.5320	61.6640	34.6790	T 71340.0000	TM 14125.0000	T 70241.0000	T 69579.0000	138.2900
x		96.03%	18.0630	62.2900	35.3080	T 71192.0000	TM 14243.0000	T 71236.0000	T 70617.0000	139.6200
%RSD		0.60	2.4457	1.4660	1.1039	T 0.3852	TM 0.5367	T 0.9473	T 0.9354	1.0440

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	73.4730	12.8190	13.0850	22.9510	5.2212	-0.0794	1.0461	0.0348	101.62%
2	23:27:04	73.7390	12.8570	12.9170	23.1040	5.1244	0.1355	0.9310	0.8512	100.85%
3	23:27:43	73.9100	12.9290	13.0750	22.0890	5.1040	-0.1117	1.1807	-0.9320	101.53%
4	23:28:23	74.0480	13.2960	13.2660	22.3350	5.1767	-0.0851	1.0170	0.7173	100.89%
5	23:29:03	73.9960	12.8090	12.9160	22.7590	5.1574	0.2690	1.2173	-0.8397	101.32%
x		73.8330	12.9420	13.0520	22.6480	5.1568	0.0256	1.0784	-0.0337	101.24%
%RSD		0.3159	1.5702	1.1125	1.8762	0.8876	656.9100	11.0000	2489.1000	0.35

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	0.0000	0.0000	0.0000	0.0000	0.0000	91.59%	0.0340	-1.5933	0.0180
2	23:27:04	0.0000	0.0000	0.0000	0.0000	0.0000	92.19%	0.0379	-2.3028	0.0045
3	23:27:43	0.0000	0.0000	0.0000	0.0000	0.0000	91.47%	0.0382	-1.2043	0.0240
4	23:28:23	0.0000	0.0000	0.0000	0.0000	0.0000	92.09%	0.0559	-1.2757	0.0323
5	23:29:03	0.0000	0.0000	0.0000	0.0000	0.0000	92.17%	0.0312	-1.1161	0.0274
x		0.0000	0.0000	0.0000	0.0000	0.0000	91.90%	0.0394	-1.4985	0.0212
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.38	24.4030	32.3220	50.3220

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	0.7751	0.0000	0.0000	0.2072	996.5500	1034.2000	95.02%	0.4563	0.4270
2	23:27:04	0.8863	0.0000	0.0000	0.1979	1008.1000	1043.6000	93.72%	0.4463	0.4182
3	23:27:43	0.8151	0.0000	0.0000	0.2247	1015.8000	1051.5000	94.43%	0.4826	0.4644
4	23:28:23	0.6845	0.0000	0.0000	0.1845	1019.6000	1061.3000	94.38%	0.4382	0.4318
5	23:29:03	0.7010	0.0000	0.0000	0.1861	1012.1000	1044.4000	94.57%	0.4392	0.4304
x		0.7724	0.0000	0.0000	0.2001	1010.4000	1047.0000	94.42%	0.4525	0.4344
%RSD		10.7600	0.0000	0.0000	8.2989	0.8783	0.9635	0.49	4.0460	4.0564

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:26:24	21.4190	19.8750	20.2030	91.66%	-0.2857
2	23:27:04	21.7780	19.2130	20.3190	92.51%	-0.2857
3	23:27:43	21.8020	19.9970	20.5930	92.46%	2.0115
4	23:28:23	21.6160	19.7780	20.6100	92.25%	-0.2857
5	23:29:03	21.2610	19.5630	20.2210	93.00%	0.4756
x		21.5750	19.6850	20.3890	92.38%	0.3260
%RSD		1.0807	1.5654	0.9765	0.53	306.2100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	88.30%	5.2884	87.6760	┬2237.9000	2109.8000	2193.7000	┬27260.0000	┬3132.7000	1930.1000
2	23:31:23	88.51%	5.4083	85.7190	┬2222.1000	2106.7000	2176.5000	┬26846.0000	┬3100.1000	1906.9000
3	23:32:03	88.64%	5.3775	87.8260	┬2258.7000	2134.1000	2169.2000	┬27071.0000	┬3142.6000	1931.5000
4	23:32:43	89.23%	5.4081	88.9090	┬2233.2000	2114.1000	2119.4000	┬26504.0000	┬3129.9000	1931.5000
5	23:33:22	87.42%	5.4156	87.2090	┬2204.7000	2063.7000	2109.9000	┬26567.0000	┬3089.7000	1889.0000
x		88.42%	5.3796	87.4680	┬2231.3000	2105.7000	2153.7000	┬26849.0000	┬3119.0000	1917.8000
%RSD		0.74	0.9858	1.3248	┬0.8931	1.2241	1.7134	┬1.2026	┬0.7310	1.0015

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	94.13%	26.4240	131.4800	241.6300	┬89218.0000	┬2685.1000	┬89783.0000	┬89188.0000	27.4760
2	23:31:23	95.36%	26.2260	131.9100	238.7800	┬89540.0000	┬2661.8000	┬90208.0000	┬88029.0000	27.7250
3	23:32:03	95.20%	26.5650	131.4000	238.9300	┬89740.0000	┬2637.6000	┬89743.0000	┬88975.0000	27.0880
4	23:32:43	95.13%	26.3590	132.5600	237.1300	┬89469.0000	┬2606.1000	┬89007.0000	┬88794.0000	27.3210
5	23:33:22	95.98%	25.7390	127.3100	234.7900	┬89243.0000	┬2599.9000	┬88422.0000	┬88089.0000	26.8580
x		95.16%	26.2630	130.9300	238.2500	┬89442.0000	┬2638.1000	┬89433.0000	┬88615.0000	27.2940
%RSD		0.70	1.2080	1.5850	1.0579	┬0.2431	┬1.3729	┬0.7954	┬0.5948	1.2319

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	38.0680	29.4910	29.9820	21.4650	48.8590	-0.4287	1.2960	0.2826	100.73%
2	23:31:23	38.0830	29.3950	29.5080	21.6380	48.2300	0.1297	1.4149	-0.6885	100.62%
3	23:32:03	37.6500	29.4210	30.1940	22.3180	48.3870	-0.4889	0.9631	1.8434	101.29%
4	23:32:43	37.5250	29.8290	29.0510	21.3950	47.8170	-0.2404	0.8873	3.1414	102.37%
5	23:33:22	36.8870	29.1930	29.5150	21.3180	48.1700	-0.1949	1.1719	-0.4390	100.77%
x		37.6430	29.4660	29.6500	21.6270	48.2930	-0.2446	1.1466	0.8280	101.16%
%RSD		1.3006	0.7855	1.5117	1.8674	0.7851	99.3210	19.2980	196.4800	0.72

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	0.0000	0.0000	0.0000	0.0000	0.0000	88.92%	0.0536	-1.8123	0.0444
2	23:31:23	0.0000	0.0000	0.0000	0.0000	0.0000	89.30%	0.0650	-0.9934	0.0392
3	23:32:03	0.0000	0.0000	0.0000	0.0000	0.0000	89.83%	0.0613	-1.7544	0.0334
4	23:32:43	0.0000	0.0000	0.0000	0.0000	0.0000	90.10%	0.0533	-1.7172	0.0491
5	23:33:22	0.0000	0.0000	0.0000	0.0000	0.0000	90.38%	0.0567	-1.8414	0.0364
x		0.0000	0.0000	0.0000	0.0000	0.0000	89.71%	0.0580	-1.6237	0.0405
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.66	8.7587	21.9070	15.5040

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	0.1700	0.0000	0.0000	0.4341	386.9000	396.7800	91.75%	0.2352	0.2390
2	23:31:23	0.0085	0.0000	0.0000	0.3832	386.5300	396.0700	91.48%	0.2371	0.2215
3	23:32:03	0.0975	0.0000	0.0000	0.3580	379.5800	391.3000	91.98%	0.2494	0.2309
4	23:32:43	0.0463	0.0000	0.0000	0.3671	377.8700	393.0000	91.66%	0.2332	0.2363
5	23:33:22	0.1354	0.0000	0.0000	0.4018	373.1000	387.1700	92.16%	0.2385	0.2436
x		0.0916	0.0000	0.0000	0.3888	380.8000	392.8600	91.81%	0.2387	0.2343
%RSD		71.3140	0.0000	0.0000	7.7927	1.5512	0.9897	0.29	2.6469	3.6156

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:30:44	33.1630	30.0420	31.1430	90.72%	0.4947
2	23:31:23	33.5940	30.4750	31.4430	90.24%	-0.2857
3	23:32:03	33.7060	30.5700	31.6460	90.17%	0.4995
4	23:32:43	33.5540	30.7770	31.5290	90.76%	-0.2857
5	23:33:22	33.2520	30.2080	31.0550	91.63%	-0.2857
x		33.4540	30.4150	31.3630	90.70%	0.0274
%RSD		0.6987	0.9593	0.8090	0.65	1563.7000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	90.70%	1.0387	138.4600	↹2128.9000	1961.9000	2010.7000	↹22223.0000	↹3232.5000	1735.2000
2	23:35:43	89.60%	1.0420	139.1800	↹2162.9000	2060.9000	2076.0000	↹23033.0000	↹3235.3000	1770.2000
3	23:36:23	89.78%	1.0541	142.7900	↹2192.1000	2037.2000	2096.5000	↹22772.0000	↹3312.9000	1769.5000
4	23:37:03	91.61%	1.0571	139.5500	↹2169.4000	2034.4000	2073.1000	↹22494.0000	↹3318.6000	1782.6000
5	23:37:43	90.53%	1.0181	136.8500	↹2137.5000	2006.5000	2064.4000	↹22525.0000	↹3282.7000	1754.6000
x		90.44%	1.0420	139.3600	↹2158.2000	2020.2000	2064.1000	↹22609.0000	↹3276.4000	1762.4000
%RSD		0.89	1.4841	1.5610	↹1.1771	1.8743	1.5546	↹1.3556	↹1.2559	1.0311

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	94.70%	24.5040	46.9140	34.4850	21820.0000	↹1643.2000	↹22834.0000	21037.0000	18.0090
2	23:35:43	94.99%	25.4480	46.1510	34.0170	21994.0000	↹1665.3000	↹23331.0000	21506.0000	18.1270
3	23:36:23	95.85%	25.6740	46.8820	34.8670	21961.0000	↹1689.1000	↹23544.0000	21672.0000	18.4230
4	23:37:03	95.44%	25.1950	47.1940	34.3810	21967.0000	↹1674.2000	↹23410.0000	21635.0000	18.3960
5	23:37:43	96.72%	25.5220	46.4640	33.7380	↹22737.0000	↹1626.9000	↹22789.0000	21244.0000	18.3040
x		95.54%	25.2690	46.7210	34.2980	↹22096.0000	↹1659.8000	↹23182.0000	21419.0000	18.2520
%RSD		0.83	1.8252	0.8810	1.2702	↹1.6501	↹1.4922	↹1.4946	1.2679	0.9766

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	18.1710	8.9942	9.0020	14.4720	5.8801	-0.9978	0.6706	-0.7495	98.45%
2	23:35:43	18.4250	8.9915	9.2927	15.2900	5.8527	-0.5300	-0.0122	1.7396	99.24%
3	23:36:23	18.7440	9.1567	9.3432	15.8140	5.8691	-1.1201	1.0743	-0.5245	98.11%
4	23:37:03	18.4280	9.1026	9.3262	15.5340	5.9679	-0.8568	0.4729	0.7767	99.73%
5	23:37:43	18.1070	9.1735	9.0484	14.7420	5.7928	-0.4888	0.6806	-0.2584	99.49%
x		18.3750	9.0837	9.2025	15.1700	5.8725	-0.7987	0.5772	0.1968	99.01%
%RSD		1.3728	0.9574	1.7786	3.6567	1.0741	35.1110	68.4670	529.3200	0.70

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	0.0000	0.0000	0.0000	0.0000	0.0000	91.75%	0.0407	-0.9864	0.0298
2	23:35:43	0.0000	0.0000	0.0000	0.0000	0.0000	92.91%	0.0421	-0.1803	0.0272
3	23:36:23	0.0000	0.0000	0.0000	0.0000	0.0000	91.99%	0.0575	-1.6842	0.0280
4	23:37:03	0.0000	0.0000	0.0000	0.0000	0.0000	92.23%	0.0425	-1.6588	0.0392
5	23:37:43	0.0000	0.0000	0.0000	0.0000	0.0000	93.00%	0.0460	-1.4594	0.0297
x		0.0000	0.0000	0.0000	0.0000	0.0000	92.38%	0.0457	-1.1938	0.0308
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.60	14.9500	52.9340	15.6730

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	0.0022	0.0000	0.0000	0.1090	253.7600	260.3500	93.16%	0.2258	0.2330
2	23:35:43	-0.0126	0.0000	0.0000	0.1389	252.2700	263.7700	94.07%	0.2365	0.2208
3	23:36:23	-0.0061	0.0000	0.0000	0.0988	258.0000	264.3700	94.45%	0.2163	0.2248
4	23:37:03	0.0273	0.0000	0.0000	0.1119	260.0100	265.2500	93.79%	0.2296	0.2320
5	23:37:43	0.0685	0.0000	0.0000	0.1030	252.7800	256.2100	95.59%	0.2367	0.2104
x		0.0159	0.0000	0.0000	0.1123	255.3600	261.9900	94.21%	0.2290	0.2242
%RSD		208.5300	0.0000	0.0000	14.0000	1.3475	1.4227	0.96	3.7068	4.1071

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:35:04	9.3274	8.6063	8.7647	92.03%	-0.2857
2	23:35:43	9.4363	8.4453	8.8848	93.95%	-0.2857
3	23:36:23	9.6523	8.3135	8.8858	93.77%	0.4693
4	23:37:03	9.2037	8.2214	8.6546	94.83%	-0.2857
5	23:37:43	9.4431	8.4567	8.8215	94.94%	-0.2857
x		9.4125	8.4086	8.8023	93.91%	-0.1347
%RSD		1.7604	1.7523	1.0981	1.25	250.6800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	91.20%	0.4514	32.4780	T1703.8000	1570.6000	1614.0000	T9867.8000	1639.1000	2632.9000
2	23:40:03	91.42%	0.4691	32.7640	T1704.9000	1607.4000	1639.6000	T10060.0000	1676.1000	2606.2000
3	23:40:43	91.10%	0.4791	34.3180	T1703.1000	1622.2000	1642.8000	T10116.0000	1667.7000	2664.9000
4	23:41:23	91.59%	0.4785	35.1300	T1718.1000	1599.1000	1648.0000	T10085.0000	T1733.6000	2620.4000
5	23:42:02	90.74%	0.4441	33.9840	T1701.5000	1605.1000	1609.6000	T10121.0000	1646.0000	2647.5000
x		91.21%	0.4645	33.7350	T1706.3000	1600.9000	1630.8000	T10050.0000	T1672.5000	2634.4000
%RSD		0.36	3.4352	3.2700	T0.3925	1.1826	1.0835	T1.0427	T2.2344	0.8685

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	93.48%	17.1300	18.5790	14.2620	7315.0000	264.8900	T7903.5000	7252.1000	2.4763
2	23:40:03	94.80%	16.7030	18.2970	14.2940	7361.5000	266.7800	T7953.0000	7301.5000	2.5834
3	23:40:43	95.33%	16.9710	18.2450	14.0910	7375.1000	263.8800	T8033.9000	7382.0000	2.5126
4	23:41:23	96.38%	17.3010	18.4180	14.1720	7269.0000	262.9700	T7896.4000	7257.3000	2.4755
5	23:42:02	96.18%	17.0920	18.4970	14.0360	7289.2000	260.9500	T7955.9000	7302.7000	2.5250
x		95.23%	17.0390	18.4080	14.1710	7322.0000	263.8900	T7948.5000	7299.1000	2.5146
%RSD		1.23	1.3042	0.7492	0.7729	0.6229	0.8228	T0.6918	0.7135	1.7613

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	6.7180	7.2531	7.4271	30.2630	1.8755	-1.0970	-0.1889	1.6768	98.25%
2	23:40:03	6.9134	7.4915	7.5281	30.2780	1.9359	-0.4729	0.2853	0.5938	98.30%
3	23:40:43	6.6044	7.1599	7.4234	31.3480	1.9668	-0.4764	-0.0466	0.7574	99.28%
4	23:41:23	6.5840	7.3884	7.3430	30.3420	2.1058	-0.2785	0.6953	0.0373	100.04%
5	23:42:02	6.9355	6.9438	7.3023	30.3760	2.2871	-0.5297	1.1029	-1.7814	98.81%
x		6.7511	7.2473	7.4048	30.5210	2.0342	-0.5709	0.3696	0.2568	98.94%
%RSD		2.4661	2.9215	1.1766	1.5215	8.0949	54.1690	144.1900	499.5900	0.75

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	0.0000	0.0000	0.0000	0.0000	0.0000	94.02%	0.0314	-0.8384	0.0272
2	23:40:03	0.0000	0.0000	0.0000	0.0000	0.0000	94.23%	0.0352	0.2001	0.0235
3	23:40:43	0.0000	0.0000	0.0000	0.0000	0.0000	95.03%	0.0333	-0.1613	0.0356
4	23:41:23	0.0000	0.0000	0.0000	0.0000	0.0000	95.88%	0.0403	0.2746	0.0491
5	23:42:02	0.0000	0.0000	0.0000	0.0000	0.0000	94.06%	0.0338	-0.4335	0.0355
x		0.0000	0.0000	0.0000	0.0000	0.0000	94.64%	0.0348	-0.1917	0.0342
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.85	9.7344	240.2300	28.8390

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	0.2383	0.0000	0.0000	0.0860	67.3550	69.9080	94.46%	0.1017	0.0975
2	23:40:03	0.1830	0.0000	0.0000	0.1129	69.3310	71.4750	95.31%	0.0905	0.0994
3	23:40:43	0.2531	0.0000	0.0000	0.1082	68.3400	69.8930	96.05%	0.0940	0.0978
4	23:41:23	0.2072	0.0000	0.0000	0.0840	67.7960	69.5780	95.81%	0.1039	0.0982
5	23:42:02	0.2736	0.0000	0.0000	0.0868	68.3560	70.5880	97.02%	0.0904	0.1017
x		0.2310	0.0000	0.0000	0.0956	68.2350	70.2890	95.73%	0.0961	0.0989
%RSD		15.6500	0.0000	0.0000	14.4380	1.0856	1.0796	0.99	6.5958	1.7141

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:39:24	20.2510	18.1110	18.9010	94.43%	-0.2857
2	23:40:03	20.6600	18.4760	19.3580	95.56%	0.4552
3	23:40:43	21.0180	18.4840	19.5690	96.23%	-0.2857
4	23:41:23	20.2620	18.6890	19.2030	97.15%	-0.2857
5	23:42:02	20.1320	18.5790	19.2920	96.66%	0.4468
x		20.4640	18.4680	19.2650	96.01%	0.0090
%RSD		1.7991	1.1779	1.2667	1.10	4496.1000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	90.84%	0.5843	41.7680	┬1779.1000	1650.3000	1715.4000	┬12871.0000	┬2098.3000	2402.5000
2	23:44:24	91.71%	0.6220	42.3180	┬1797.8000	1704.0000	1699.8000	┬12813.0000	┬2077.7000	2459.0000
3	23:45:03	91.25%	0.5786	42.0170	┬1821.8000	1699.5000	1742.2000	┬12884.0000	┬2156.3000	2427.0000
4	23:45:43	92.06%	0.5784	41.5580	┬1810.4000	1715.0000	1760.0000	┬12765.0000	┬2120.9000	2441.9000
5	23:46:23	90.43%	0.5959	41.5950	┬1796.4000	1684.4000	1697.5000	┬12772.0000	2059.8000	2434.6000
x		91.26%	0.5918	41.8510	┬1801.1000	1690.7000	1723.0000	┬12821.0000	┬2102.6000	2433.0000
%RSD		0.71	3.0901	0.7595	┬0.8919	1.4838	1.5864	┬0.4274	┬1.7925	0.8540

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	95.09%	21.4850	25.8820	17.6700	10972.0000	356.4800	┬11733.0000	11019.0000	4.1432
2	23:44:24	95.59%	22.2820	25.7950	17.7820	11037.0000	358.1700	┬11834.0000	10953.0000	4.1790
3	23:45:03	96.38%	22.2240	25.5150	17.4860	11076.0000	361.9600	┬11777.0000	10917.0000	4.2751
4	23:45:43	96.24%	21.5600	25.9730	17.7800	11046.0000	358.3400	┬11762.0000	10840.0000	4.2990
5	23:46:23	96.86%	21.3470	25.0930	17.4120	10769.0000	354.3200	┬11657.0000	10871.0000	4.1349
x		96.03%	21.7800	25.6520	17.6260	10980.0000	357.8500	┬11753.0000	10920.0000	4.2062
%RSD		0.72	2.0177	1.3897	0.9641	1.1310	0.7849	┬0.5528	0.6423	1.8092

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	8.7857	7.9578	8.1783	23.4390	2.9678	-0.7457	0.5449	0.5750	99.08%
2	23:44:24	8.5427	7.9797	8.1933	24.2840	2.8693	-0.4603	0.4190	0.8416	100.38%
3	23:45:03	8.7571	7.7481	8.0646	23.7650	2.9632	-0.6989	0.8997	-1.2357	100.42%
4	23:45:43	9.2427	7.9073	7.9186	24.1940	2.9573	0.0800	0.7116	-1.4988	100.32%
5	23:46:23	8.8336	7.7949	7.9038	23.8090	2.5146	-0.5611	-0.0794	0.8742	100.49%
x		8.8324	7.8776	8.0517	23.8980	2.8544	-0.4772	0.4992	-0.0887	100.14%
%RSD		2.8875	1.2903	1.7102	1.4380	6.8064	69.4230	74.2060	1325.9000	0.59

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	0.0000	0.0000	0.0000	0.0000	0.0000	94.52%	0.0426	-0.4500	0.0380
2	23:44:24	0.0000	0.0000	0.0000	0.0000	0.0000	95.22%	0.0432	0.5982	0.0505
3	23:45:03	0.0000	0.0000	0.0000	0.0000	0.0000	95.35%	0.0416	-0.2516	0.0401
4	23:45:43	0.0000	0.0000	0.0000	0.0000	0.0000	95.02%	0.0601	-1.1246	0.0526
5	23:46:23	0.0000	0.0000	0.0000	0.0000	0.0000	94.46%	0.0445	-0.2444	0.0358
x		0.0000	0.0000	0.0000	0.0000	0.0000	94.91%	0.0464	-0.2945	0.0434
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.43	16.6880	208.9500	17.6020

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	0.0704	0.0000	0.0000	0.0945	89.9240	93.7740	95.09%	0.1214	0.1236
2	23:44:24	0.1285	0.0000	0.0000	0.1097	89.7310	92.5260	96.28%	0.1428	0.1117
3	23:45:03	0.1219	0.0000	0.0000	0.0917	91.7280	94.0570	95.64%	0.1080	0.1172
4	23:45:43	0.1591	0.0000	0.0000	0.1006	92.4580	93.1690	96.96%	0.1245	0.1214
5	23:46:23	0.1333	0.0000	0.0000	0.0809	89.4140	91.9880	97.41%	0.1258	0.1222
x		0.1226	0.0000	0.0000	0.0955	90.6510	93.1030	96.28%	0.1245	0.1192
%RSD		26.4670	0.0000	0.0000	11.1660	1.4932	0.9213	0.98	9.9959	4.0599

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:43:44	18.7420	17.0920	17.6220	95.80%	-0.2857
2	23:44:24	18.8650	17.1140	17.7880	96.83%	1.1767
3	23:45:03	19.0870	17.0820	18.0370	96.26%	0.4498
4	23:45:43	18.9020	17.3300	17.9550	96.90%	1.1755
5	23:46:23	18.8100	16.9310	17.7320	97.20%	-0.2857
x		18.8810	17.1100	17.8270	96.60%	0.4461
%RSD		0.6879	0.8355	0.9427	0.58	163.8400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	90.36%	0.6780	55.2890	┬1443.8000	1367.6000	1429.0000	┬15248.0000	┬2374.3000	1362.9000
2	23:48:44	91.30%	0.7028	57.0100	1404.2000	1375.0000	1401.1000	┬15356.0000	┬2407.9000	1382.0000
3	23:49:23	91.88%	0.7148	57.5650	┬1484.9000	1373.8000	1394.6000	┬15318.0000	┬2411.3000	1410.7000
4	23:50:03	91.34%	0.6722	57.0940	┬1491.5000	1365.6000	1397.7000	┬15157.0000	┬2373.8000	1354.4000
5	23:50:43	90.68%	0.6630	55.9950	┬1468.8000	1376.0000	1380.2000	┬15107.0000	┬2333.5000	1327.6000
x		91.11%	0.6862	56.5910	┬1458.7000	1371.6000	1400.5000	┬15237.0000	┬2380.2000	1367.5000
%RSD		0.66	3.1694	1.6358	┬2.4382	0.3420	1.2690	┬0.6896	┬1.3267	2.2713

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	95.11%	23.3460	31.9290	24.9770	13826.0000	162.6700	┬14861.0000	13663.0000	3.1935
2	23:48:44	94.94%	23.0350	31.6930	25.2760	13975.0000	163.0400	┬14912.0000	13681.0000	3.1678
3	23:49:23	95.91%	24.1280	32.7160	25.2060	14012.0000	163.7400	┬15080.0000	13922.0000	3.2785
4	23:50:03	97.14%	23.1890	32.0890	25.0330	13629.0000	161.9000	┬14731.0000	13569.0000	3.2792
5	23:50:43	96.04%	22.3560	31.0870	24.8710	13537.0000	159.4900	┬14536.0000	13460.0000	3.1535
x		95.83%	23.2110	31.9030	25.0730	13796.0000	162.1700	┬14824.0000	13659.0000	3.2145
%RSD		0.91	2.7432	1.8595	0.6631	1.5145	1.0099	┬1.3760	1.2527	1.8812

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	9.5127	8.0624	8.0770	14.6820	3.2749	-0.2514	0.1625	-0.0839	98.72%
2	23:48:44	9.1532	8.1181	7.9581	14.5950	3.3178	-0.8431	0.5890	-0.7255	101.09%
3	23:49:23	9.4827	8.0994	8.2975	14.6420	3.2077	-0.6017	0.3491	0.5822	100.83%
4	23:50:03	9.1442	8.1328	8.4702	14.0070	3.2883	-0.4936	0.2470	0.9175	100.05%
5	23:50:43	8.8008	7.7950	8.0519	14.1340	3.1977	-0.0771	0.7628	-0.2648	100.37%
x		9.2187	8.0416	8.1710	14.4120	3.2573	-0.4534	0.4220	0.0851	100.21%
%RSD		3.1654	1.7449	2.5516	2.1949	1.6058	65.9760	58.9170	776.7700	0.93

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	0.0000	0.0000	0.0000	0.0000	0.0000	94.34%	0.0411	-0.6253	0.0280
2	23:48:44	0.0000	0.0000	0.0000	0.0000	0.0000	94.53%	0.0331	-0.4101	0.0275
3	23:49:23	0.0000	0.0000	0.0000	0.0000	0.0000	94.76%	0.0464	-1.0644	0.0290
4	23:50:03	0.0000	0.0000	0.0000	0.0000	0.0000	95.25%	0.0407	-0.8393	0.0427
5	23:50:43	0.0000	0.0000	0.0000	0.0000	0.0000	95.31%	0.0441	-0.7939	0.0297
x		0.0000	0.0000	0.0000	0.0000	0.0000	94.84%	0.0411	-0.7466	0.0314
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.46	12.2860	32.7970	20.3820

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	0.0346	0.0000	0.0000	0.0629	88.2810	91.6640	97.48%	0.1297	0.1251
2	23:48:44	-0.0210	0.0000	0.0000	0.0559	89.7560	92.1180	95.78%	0.1313	0.1332
3	23:49:23	0.0223	0.0000	0.0000	0.0867	90.4510	95.7260	95.91%	0.1268	0.1285
4	23:50:03	0.0534	0.0000	0.0000	0.0882	91.3080	92.3170	95.60%	0.1201	0.1227
5	23:50:43	-0.0196	0.0000	0.0000	0.0589	90.0530	90.2690	96.50%	0.1204	0.1202
x		0.0139	0.0000	0.0000	0.0705	89.9700	92.4190	96.25%	0.1256	0.1259
%RSD		238.1100	0.0000	0.0000	22.1990	1.2336	2.1796	0.79	4.1420	4.0055

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:48:04	8.9894	8.1754	8.5134	96.12%	-0.2857
2	23:48:44	9.1541	7.9268	8.5397	96.05%	-0.2857
3	23:49:23	9.1755	8.2650	8.6335	95.31%	0.4572
4	23:50:03	8.8958	8.1371	8.4128	96.75%	0.4461
5	23:50:43	8.5825	8.0181	8.2429	96.87%	-0.2857
x		8.9595	8.1045	8.4685	96.22%	0.0092
%RSD		2.6857	1.6425	1.7545	0.65	4380.4000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	83.60%	↹2584.2000	↹49298.0000	↹50184.0000	↹50359.0000	↹50408.0000	↹49112.0000	↹50846.0000	49243.0000
2	23:53:04	84.13%	↹2548.7000	↹49895.0000	↹50715.0000	↹50581.0000	↹50350.0000	↹48527.0000	↹50854.0000	49525.0000
3	23:53:44	83.88%	↹2576.9000	↹50164.0000	↹50734.0000	↹49950.0000	↹50422.0000	↹49451.0000	↹51749.0000	49222.0000
4	23:54:24	84.01%	↹2553.2000	↹49289.0000	↹49711.0000	↹49942.0000	↹50307.0000	↹49042.0000	↹51500.0000	49435.0000
5	23:55:03	83.83%	↹2563.3000	↹49464.0000	↹50219.0000	↹50008.0000	↹49882.0000	↹48788.0000	↹50587.0000	48986.0000
x		83.89%	↹2565.2000	↹49622.0000	↹50312.0000	↹50168.0000	↹50274.0000	↹48984.0000	↹51107.0000	49282.0000
%RSD		0.24	↹0.5905	↹0.7867	↹0.8473	↹0.5741	↹0.4452	↹0.7109	↹0.9634	0.4242

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	86.42%	0.0355	↹2677.0000	↹2553.3000	↹50563.0000	↹2514.9000	↹49619.0000	47959.0000	↹2506.7000
2	23:53:04	87.58%	0.0244	↹2596.0000	↹2512.3000	↹50950.0000	↹2503.5000	↹50060.0000	47698.0000	↹2467.6000
3	23:53:44	87.32%	0.0192	↹2615.1000	↹2533.5000	↹50680.0000	↹2496.0000	↹49977.0000	47952.0000	↹2484.6000
4	23:54:24	87.94%	0.0277	↹2591.3000	↹2518.3000	↹49953.0000	↹2484.2000	↹49229.0000	47310.0000	↹2473.9000
5	23:55:03	88.64%	0.0342	↹2580.0000	↹2469.1000	↹49224.0000	↹2444.5000	↹48762.0000	46895.0000	↹2453.7000
x		87.58%	0.0282	↹2611.9000	↹2517.3000	↹50274.0000	↹2488.6000	↹49529.0000	47563.0000	↹2477.3000
%RSD		0.93	24.1280	↹1.4751	↹1.2415	↹1.3749	↹1.0874	↹1.0915	0.9615	↹0.8015

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	2421.6000	↹2395.1000	↹2385.4000	2331.6000	2437.5000	257.6500	258.1300	2.8038	85.66%
2	23:53:04	↹2422.5000	↹2387.5000	↹2354.5000	2312.3000	2429.7000	256.1300	257.6000	3.2788	86.04%
3	23:53:44	2393.9000	↹2417.2000	↹2374.7000	2300.6000	2435.0000	259.5100	257.3500	2.0639	86.82%
4	23:54:24	2409.1000	↹2380.6000	↹2356.0000	2295.4000	2425.0000	256.2400	257.6300	1.7494	87.31%
5	23:55:03	2362.2000	↹2351.7000	↹2324.0000	2263.0000	2394.7000	251.9000	248.3500	3.1405	88.39%
x		↹2401.8000	↹2386.4000	↹2358.9000	2300.6000	2424.4000	256.2900	255.8100	2.6073	86.84%
%RSD		↹1.0425	↹0.9968	↹0.9937	1.0946	0.7130	1.0944	1.6335	25.7660	1.24

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	0.0000	0.0000	0.0000	0.0000	0.0000	82.32%	261.6100	-13.1860	261.1000
2	23:53:04	0.0000	0.0000	0.0000	0.0000	0.0000	84.06%	257.8600	-20.1080	260.3000
3	23:53:44	0.0000	0.0000	0.0000	0.0000	0.0000	84.19%	263.1300	-10.8580	261.6800
4	23:54:24	0.0000	0.0000	0.0000	0.0000	0.0000	84.09%	266.5200	-19.7480	264.3600
5	23:55:03	0.0000	0.0000	0.0000	0.0000	0.0000	85.09%	258.7800	-10.8540	256.4100
x		0.0000	0.0000	0.0000	0.0000	0.0000	83.95%	261.5800	-14.9510	260.7700
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.20	1.3309	31.0580	1.1022

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	2482.0000	0.0000	0.0000	↹2655.6000	2454.2000	2535.5000	86.46%	↹2604.9000	↹2636.5000
2	23:53:04	2440.3000	0.0000	0.0000	↹2604.5000	2446.0000	2489.9000	87.09%	↹2600.9000	↹2645.2000
3	23:53:44	2467.0000	0.0000	0.0000	↹2610.4000	2419.5000	2555.4000	88.74%	↹2628.1000	↹2651.4000
4	23:54:24	2468.1000	0.0000	0.0000	↹2620.1000	2446.1000	2529.4000	88.96%	↹2617.8000	↹2655.0000
5	23:55:03	2437.0000	0.0000	0.0000	↹2606.7000	2406.8000	2490.5000	89.35%	↹2578.5000	↹2602.6000
x		2458.9000	0.0000	0.0000	↹2619.4000	2434.5000	2520.1000	88.12%	↹2606.0000	↹2638.1000
%RSD		0.7896	0.0000	0.0000	↹0.8049	0.8339	1.1494	1.44	↹0.7211	↹0.7991

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:52:25	↹2632.0000	↹2589.1000	↹2606.2000	82.40%	1.4327
2	23:53:04	↹2627.4000	↹2603.9000	↹2613.0000	83.31%	2.2637
3	23:53:44	↹2629.6000	↹2639.2000	↹2632.2000	83.81%	3.0934
4	23:54:24	↹2615.3000	↹2606.2000	↹2610.7000	84.32%	0.5539
5	23:55:03	↹2574.6000	↹2587.4000	↹2583.9000	84.92%	1.3818
x		↹2615.8000	↹2605.2000	↹2609.2000	83.75%	1.7451
%RSD		↹0.9135	↹0.7999	↹0.6633	1.15	55.3760

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	92.97%	0.4989	18.7700	6.9764	7.5099	6.8454	7.8237	23.6440	4.6735
2	23:57:27	93.77%	0.3481	15.6020	5.3037	4.6147	4.5919	6.1647	20.8830	3.7254
3	23:58:07	94.20%	0.2694	13.2830	4.2640	4.4736	4.8535	5.3051	17.4130	3.6160
4	23:58:46	95.45%	0.2541	11.8280	3.7252	2.7980	3.6766	4.3171	15.8070	3.3850
5	23:59:26	96.56%	0.1930	9.2514	2.9828	3.4338	3.5784	3.5088	12.0500	2.1559
x		94.59%	0.3127	13.7470	4.6504	4.5660	4.7091	5.4239	17.9600	3.5112
%RSD		1.50	37.6900	26.4230	33.3530	39.6120	27.9770	30.8710	25.0120	25.7130

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	93.34%	0.0007	0.3688	0.3150	11.0100	0.4185	10.2000	10.3660	0.3477
2	23:57:27	95.05%	0.0133	0.2901	0.2591	9.6923	0.3210	7.5420	8.8875	0.2484
3	23:58:07	96.58%	0.0192	0.2117	0.1991	7.7573	0.2918	7.0524	9.2251	0.2280
4	23:58:46	96.31%	0.0034	0.2022	0.1861	4.3757	0.2346	6.3470	6.2874	0.1825
5	23:59:26	97.88%	-0.0031	0.1684	0.1661	3.5812	0.1676	4.0126	1.0030	0.1374
x		95.83%	0.0067	0.2482	0.2251	7.2832	0.2867	7.0307	7.1539	0.2288
%RSD		1.79	138.4500	32.5560	27.1270	44.5300	32.8550	31.7100	52.3950	34.5700

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	0.3227	1.1071	0.6327	0.5117	0.6332	1.3216	0.4771	-0.9255	93.89%
2	23:57:27	0.2357	0.9223	0.3445	0.4814	0.5399	1.1900	0.3801	-0.0435	95.60%
3	23:58:07	0.2189	0.7397	0.3463	0.3310	0.4695	0.4801	0.5549	-0.4366	96.40%
4	23:58:46	0.2124	0.5881	0.1179	0.2850	0.3678	0.9777	0.4247	-0.7694	98.39%
5	23:59:26	0.1755	0.4928	0.2184	0.2060	0.3028	0.8991	0.2835	0.2077	98.81%
x		0.2330	0.7700	0.3319	0.3630	0.4627	0.9737	0.4241	-0.3935	96.62%
%RSD		23.4940	32.3150	58.2400	35.8920	28.5220	33.1640	24.0610	121.2300	2.10

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	0.0000	0.0000	0.0000	0.0000	0.0000	94.30%	0.1500	0.1250	0.1470
2	23:57:27	0.0000	0.0000	0.0000	0.0000	0.0000	95.72%	0.1139	-0.2958	0.1260
3	23:58:07	0.0000	0.0000	0.0000	0.0000	0.0000	97.96%	0.0879	-0.6021	0.0929
4	23:58:46	0.0000	0.0000	0.0000	0.0000	0.0000	97.92%	0.0879	-0.6636	0.1055
5	23:59:26	0.0000	0.0000	0.0000	0.0000	0.0000	98.21%	0.0482	0.3764	0.0410
x		0.0000	0.0000	0.0000	0.0000	0.0000	96.82%	0.0976	-0.2120	0.1025
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	1.79	38.4880	213.9300	39.0540

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	0.3286	0.0000	0.0000	1.8223	0.3772	0.3994	95.59%	0.7178	0.7187
2	23:57:27	0.2589	0.0000	0.0000	1.2624	0.3107	0.1933	97.84%	0.4713	0.4667
3	23:58:07	0.2190	0.0000	0.0000	0.9780	0.2402	0.1910	98.18%	0.3300	0.3442
4	23:58:46	0.1703	0.0000	0.0000	0.7481	0.0818	0.2396	98.45%	0.2788	0.2663
5	23:59:26	0.1616	0.0000	0.0000	0.7397	0.1482	0.1564	98.36%	0.2241	0.2048
x		0.2277	0.0000	0.0000	1.1101	0.2316	0.2360	97.68%	0.4044	0.4001
%RSD		30.1820	0.0000	0.0000	40.6880	51.5150	40.6920	1.22	48.9100	50.7730

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
		ug/L	ug/L	ug/L	ug/L	ug/L
1	23:56:47	0.3987	0.3840	0.4042	98.11%	-0.2857
2	23:57:27	0.3476	0.3153	0.3243	99.66%	-0.2857
3	23:58:07	0.2588	0.2693	0.2585	100.86%	-0.2857
4	23:58:46	0.2378	0.2138	0.2104	101.07%	-0.2857
5	23:59:26	0.1900	0.1671	0.1876	100.95%	1.1170
x		0.2866	0.2699	0.2770	100.13%	-0.0052
%RSD		29.5980	31.4340	31.8710	1.26	12164.0000

Mass Uncorrected ICPS

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	20:41:30	258805.7100	30.0001	18916.4460	200.0024	35.0001	40.0001	1670.1674	34453.5760	260.0041
2	20:42:10	262306.8300	42.5001	18956.5370	180.0019	20.0000	30.0001	1552.6446	33861.1550	250.0038
3	20:42:49	261847.7200	31.6667	19192.0750	170.0017	35.0001	35.0001	1565.1470	34400.8590	250.0038
4	20:43:29	263913.0300	31.6667	19420.1020	160.0015	60.0002	40.0001	1502.6355	34182.4630	270.0044
5	20:44:09	264777.3100	37.5001	19405.0670	145.0013	5.0000	10.0000	1572.6484	35078.6760	247.5037
x		262330.1200	34.6667	19178.0450	171.0018	31.0001	31.0001	1572.6486	34395.3460	255.5039
%RSD		0.877	15.070	1.244	12.127	65.912	40.161	3.877	1.301	3.687

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	20:41:30	482828.6000	17.5000	732.5322	1117.5749	2507.8773	102.5006	100952.8100	705.0298	10.0000
2	20:42:10	482923.9000	25.0000	487.5143	1122.5756	2417.8507	92.5005	101385.5100	657.5259	12.5000
3	20:42:49	488468.4600	17.5000	352.5075	1092.5716	2452.8609	147.5013	100737.7300	780.0365	25.0000
4	20:43:29	496175.6300	35.0001	277.5046	1065.0681	2580.3994	140.0012	104131.5600	690.0286	20.0000
5	20:44:09	500283.1100	20.0000	357.5077	1242.5926	2485.3706	92.5005	103622.7800	647.5252	37.5001
x		490135.9400	23.0000	441.5132	1128.0766	2488.8718	115.0008	102166.0800	696.0292	21.0000
%RSD		1.605	32.061	40.625	6.026	2.468	23.211	1.556	7.537	52.300

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	20:41:30	45.0001	2100.2646	892.5478	140.0012	25.0000	970.8899	154.1681	150.8347	702312.9500
2	20:42:10	15.0000	2165.2813	815.0399	172.5018	15.8333	949.2207	146.6680	140.0012	701009.7900
3	20:42:49	22.5000	2005.2412	942.5533	132.5011	13.3333	994.2260	132.5011	152.5014	701055.9400
4	20:43:29	27.5000	1902.7172	1027.5633	125.0009	14.1667	1008.3943	140.8345	137.5011	711193.2600
5	20:44:09	15.0000	1967.7323	945.0536	175.0018	6.6667	977.5573	120.8342	132.5011	711938.0000
x		25.0000	2028.2473	924.5516	149.0014	15.0000	980.0577	139.0012	142.6679	705501.9900
%RSD		49.498	5.166	8.443	15.587	43.921	2.307	9.272	6.076	0.789

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	20:41:30	7.5000	10.0000	12.5000	12.5000	15.0000	815627.7000	36.2501	7.5000	28.7500
2	20:42:10	20.0000	12.5000	5.0000	2.5000	15.0000	822416.2500	37.5001	5.0000	37.5001
3	20:42:49	32.5001	12.5000	2.5000	12.5000	12.5000	825827.6500	46.2501	2.5000	30.0001
4	20:43:29	10.0000	15.0000	12.5000	7.5000	20.0000	826177.4000	48.7501	5.0000	51.2502
5	20:44:09	12.5000	20.0000	2.5000	7.5000	5.0000	833382.0700	35.0001	7.5000	25.0000
x		16.5000	14.0000	7.0000	8.5000	13.5000	824686.2200	40.7501	5.5000	34.5001
%RSD		61.172	27.082	73.193	49.215	40.572	0.782	15.429	38.030	30.162

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	20:41:30	3.7500	719631.0300	30.0001	30.0001	0.0000	10.0000	1116307.5000	28.7500	91.2505
2	20:42:10	0.0000	714691.9200	57.5002	40.0001	0.0000	5.0000	1117215.5000	47.5001	93.7505
3	20:42:49	3.7500	722213.2200	25.0000	30.0001	10.0000	2.5000	1114102.1000	53.7502	97.5006
4	20:43:29	5.0000	718191.9800	25.0000	50.0001	0.0000	2.5000	1105601.2000	65.0003	137.5011
5	20:44:09	2.5000	729479.5600	22.5000	25.0000	5.0000	5.0000	1126314.4000	40.0001	118.7509
x		3.0000	720841.5400	32.0001	35.0001	3.0000	5.0000	1115908.1000	47.0001	107.7507
%RSD		63.191	0.769	45.353	28.571	149.071	61.237	0.664	29.171	18.442

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	20:41:30	40.0001	37.5001	60.0002	781115.8500	2.5000
2	20:42:10	30.0001	30.0001	80.0004	795105.6500	0.0000
3	20:42:49	40.0001	37.5001	72.5003	798796.0400	0.0000
4	20:43:29	42.5001	20.0000	52.5002	794466.2700	2.5000
5	20:44:09	30.0001	32.5001	87.5005	803968.4900	0.0000
x		36.5001	31.5001	70.5003	794690.4600	1.0000
%RSD		16.495	22.865	20.278	1.067	136.931

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	20:45:49	261891.5700	770.8690	T852454.0000	417476.6700	51614.3490	54910.3140	49627.3340	350441.8200	13909.0980
2	20:46:29	265323.4400	703.3630	829703.2300	423699.2200	51528.8220	55312.9640	50175.6020	355835.8400	13906.5940
3	20:47:08	263430.6200	794.2045	837181.0300	421359.9800	51770.3120	55212.3000	48913.1300	361215.0100	14434.9910
4	20:47:48	262392.8000	780.8699	836116.7100	422868.5900	52087.2780	54714.0300	48825.1160	357027.7300	14199.5870
5	20:48:28	265456.7500	792.5377	798170.1100	407348.4400	49788.2890	53330.1020	47839.4240	343051.1400	13753.8410
x		263699.0400	768.3688	T830725.0200	418550.5800	51357.8100	54695.9420	49076.1210	353514.3100	14040.8220
%RSD		0.622	4.887	T2.410	1.601	1.758	1.462	1.803	1.980	1.945

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	20:45:49	490864.5300	30.0001	16103.0430	7155.5708	16804.4260	4471.1992	343913.1000	7098.0216	4163.5398
2	20:46:29	492234.3900	17.5000	16195.7230	7235.6399	17082.4910	4010.9650	355290.8100	7047.9792	4198.5574
3	20:47:08	494043.1100	15.0000	15902.6590	7303.1988	17110.0470	4028.4735	350944.8400	6820.2898	4176.0461
4	20:47:48	493151.2900	30.0001	16022.8890	7263.1638	16922.1640	3998.4590	348117.3800	7020.4560	4283.6007
5	20:48:28	494828.9900	40.0001	16005.3560	7170.5837	16526.3710	3890.9081	341447.2400	6787.7633	4151.0336
x		493024.4600	26.5000	16045.9340	7225.6314	16889.1000	4080.0010	347942.6700	6954.9020	4194.5555
%RSD		0.314	38.668	0.686	0.861	1.408	5.520	1.584	2.027	1.258

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	20:45:49	892.5478	6642.6464	3100.5767	1390.1159	497.5149	1555.1451	403.3431	188.3355	711443.3100
2	20:46:29	932.5522	6515.0458	3273.1427	1427.6223	485.8475	1611.8225	420.8440	173.3351	708013.8900
3	20:47:08	952.5544	6720.2086	3010.5437	1387.6155	464.1796	1640.9949	379.1753	167.5017	706663.6900
4	20:47:48	1017.5621	6792.7674	3215.6203	1372.6130	475.8469	1531.8074	434.1780	151.6681	705033.9400
5	20:48:28	875.0459	6442.4894	3110.5804	1387.6155	468.3465	1561.8130	385.0089	150.8347	703461.5300
x		934.0525	6622.6315	3142.0928	1393.1165	478.3471	1580.3166	404.5098	166.3350	706923.2700
%RSD		5.990	2.174	3.284	1.471	2.825	2.831	5.759	9.457	0.432

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	20:45:49	17.5000	10.0000	5.0000	5.0000	15.0000	822801.6600	2646.6702	45.0001	2644.1694
2	20:46:29	17.5000	10.0000	10.0000	5.0000	12.5000	827513.1900	2724.1952	35.0001	2501.6254
3	20:47:08	22.5000	10.0000	15.0000	7.5000	12.5000	826940.2900	2775.4621	37.5001	2639.1678
4	20:47:48	25.0000	10.0000	12.5000	7.5000	10.0000	829962.2100	2737.9497	47.5001	2587.9018
5	20:48:28	17.5000	7.5000	0.0000	12.5000	7.5000	823043.9200	2636.6671	45.0001	2421.6018
x		20.0000	9.5000	8.5000	7.5000	11.5000	826052.2600	2704.1889	42.0001	2558.8933
%RSD		17.678	11.769	70.833	40.825	24.786	0.372	2.226	12.904	3.743

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	20:45:49	503.7652	715572.9200	32.5001	2710.4407	2780.4638	5181.6104	1113774.9000	2013.9933	4933.9602
2	20:46:29	522.5164	723111.3100	37.5001	2782.9646	2920.5117	4901.4410	1120349.9000	2011.4927	4853.9132
3	20:47:08	482.5140	719943.9000	27.5000	2735.4489	2792.9680	5101.5611	1123115.2000	2041.5000	4897.6888
4	20:47:48	515.0159	718545.6000	22.5000	2800.4705	2850.4874	5064.0382	1117611.1000	2026.4964	4873.9249
5	20:48:28	447.5120	714822.4300	30.0001	2580.3994	2720.4440	4878.9278	1105868.5000	1987.7370	4740.0977
x		494.2647	718399.2300	30.0001	2721.9448	2812.9750	5025.5157	1116143.9000	2016.2439	4859.9170
%RSD		6.106	0.469	18.634	3.194	2.695	2.604	0.600	0.987	1.508

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	20:45:49	1545.1432	1440.1244	3400.6937	797610.1100	0.0000
2	20:46:29	1595.1527	1555.1451	3478.2257	798960.7600	0.0000
3	20:47:08	1600.1536	1420.1210	3443.2112	806228.2000	5.0000
4	20:47:48	1622.6580	1512.6373	3558.2595	796923.8900	0.0000
5	20:48:28	1500.1350	1322.6049	3580.7691	799629.3000	2.5000
x		1572.6485	1450.1265	3492.2319	799870.4500	1.5000
%RSD		3.144	6.187	2.180	0.464	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	20:50:08	262186.4600	7495.8698	37963.7780	8669.5073	1145.0787	1185.0843	26840.6560	41023.2260	647.5252
2	20:50:48	263284.4400	7635.9969	37981.3580	8884.7338	995.0594	1040.0649	27246.9710	42297.0710	562.5190
3	20:51:27	266697.9500	7726.0799	38576.5830	8939.7926	1215.0886	1210.0879	27645.7810	41771.9320	662.5263
4	20:52:07	264386.8700	7761.9465	38566.5370	9345.2371	1080.0700	1080.0700	27618.1900	42204.1010	625.0234
5	20:52:47	260314.1100	7556.7581	38827.7450	9455.3612	1000.0600	1055.0668	27134.1040	41716.6560	580.0202
x		263373.9700	7635.3302	38383.2000	9058.9264	1087.0713	1114.0748	27297.1400	41802.5970	615.5228
%RSD		0.908	1.463	1.014	3.642	8.707	7.007	1.245	1.209	6.985

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	20:50:08	489016.7500	37.5001	32051.5200	31220.8750	3670.8083	40043.4780	114660.9400	1032.5640	41462.8940
2	20:50:48	485468.0200	30.0001	32616.2040	31547.1000	3690.8171	40543.3870	115654.5300	1055.0668	42397.5800
3	20:51:27	494272.3700	12.5000	32804.4410	32089.1640	3283.1466	41317.1730	115616.5100	1007.5609	42910.1930
4	20:52:07	493383.1800	25.0000	32104.2220	32161.9440	3543.2531	41161.4050	115619.0400	1192.5853	42696.6000
5	20:52:47	491676.6200	32.5001	32357.7000	30992.5250	3580.7691	40093.7190	114929.6000	1022.5627	41586.0050
x		490763.3900	27.5000	32386.8170	31602.3220	3553.7589	40631.8320	115296.1200	1062.0679	42210.6550
%RSD		0.728	34.617	1.001	1.637	4.593	1.453	0.405	7.059	1.549

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	20:50:08	9277.6616	24583.7080	12021.1640	6379.9413	4677.9793	2141.9419	665.0265	150.0014	702245.0800
2	20:50:48	9535.4524	25065.1390	11900.9920	6682.6784	4657.1343	2098.5975	645.0250	155.0014	704083.4000
3	20:51:27	9720.6662	25285.8040	11931.0350	6777.7552	4687.1511	2211.9602	630.0238	143.3346	701216.1100
4	20:52:07	9653.0877	25070.1540	12226.4630	6547.5712	4593.7658	2202.7911	650.8588	156.6681	706248.0700
5	20:52:47	9708.1516	25288.3120	11680.6810	6655.1564	4660.4695	2266.1414	623.3567	131.6677	705789.0200
x		9579.0039	25058.6230	11952.0670	6608.6205	4655.3000	2184.2864	642.8581	147.3346	703916.3400
%RSD		1.917	1.146	1.656	2.298	0.785	2.980	2.586	6.909	0.310

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	20:50:08	27.5000	5.0000	17.5000	12.5000	10.0000	825450.3800	25421.2150	292.5051	24533.5610
2	20:50:48	30.0001	10.0000	12.5000	0.0000	12.5000	830372.7500	25939.0570	402.5097	24658.9300
3	20:51:27	15.0000	22.5000	15.0000	7.5000	40.0001	821083.9900	26426.8360	340.0069	25144.1260
4	20:52:07	15.0000	10.0000	12.5000	5.0000	20.0000	826513.4000	27272.0530	337.5068	25641.8900
5	20:52:47	32.5001	5.0000	5.0000	7.5000	27.5000	829573.7400	25527.7900	317.5061	24958.5700
x		24.0000	10.5000	12.5000	6.5000	22.0000	826598.8500	26117.3900	338.0069	24987.4150
%RSD		35.016	68.180	37.417	69.869	55.321	0.448	2.899	12.068	1.753

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	20:50:08	5245.4003	716750.4500	50.0001	12904.9850	2832.9815	4881.4293	1104717.2000	19872.4170	47336.5640
2	20:50:48	5230.3909	715551.1600	50.0001	13403.2700	2935.5169	5051.5306	1116395.8000	20601.6840	48500.7300
3	20:51:27	5361.7243	715219.4200	47.5001	12817.3490	2847.9866	4916.4499	1101846.8000	20453.8210	49550.6290
4	20:52:07	5351.7179	718956.3600	32.5001	13135.3440	2847.9866	4956.4736	1107036.9000	20403.6980	49949.2480
5	20:52:47	5102.8118	718284.4600	25.0000	13130.3360	2880.4978	5086.5519	1106943.1000	20049.0890	47737.5920
x		5258.4091	716952.3700	41.0001	13078.2570	2868.9939	4978.4870	1107388.0000	20276.1420	48614.9530
%RSD		2.007	0.229	28.141	1.751	1.430	1.762	0.493	1.497	2.316

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	20:50:08	16065.4710	13806.4280	33938.9710	784740.0200	0.0000
2	20:50:48	16578.9750	14207.1000	34727.2080	792995.6000	0.0000
3	20:51:27	16568.9550	13916.6110	34659.4270	791276.9300	2.5000
4	20:52:07	16513.8460	14116.9470	34890.3880	796081.2800	0.0000
5	20:52:47	16378.5800	14019.2830	34074.5220	797029.5600	0.0000
x		16421.1660	14013.2740	34458.1030	792424.6800	0.5000
%RSD		1.305	1.131	1.228	0.616	223.607

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	20:54:28	263886.3700	37889.2740	103415.2300	43106.2010	5356.7211	5666.9262	124840.6600	65788.6680	1842.7037
2	20:55:07	260889.1800	38178.0870	104615.0600	43628.9110	5621.8957	5451.7827	124536.1500	67872.7820	1932.7241
3	20:55:47	259660.8700	37722.6870	105278.3400	44252.1840	5456.7860	5456.7860	126853.2100	68545.7570	1872.7104
4	20:56:27	259110.8000	37627.2570	106230.3000	42869.9870	5591.8755	5686.9398	126061.3300	67880.3430	1937.7253
5	20:57:06	257955.7900	37053.0260	104141.6900	42814.7040	5251.6543	5771.9983	124059.1200	67567.8190	1857.7070
x		260300.6000	37694.0660	104736.1200	43334.3970	5455.7865	5606.8866	125270.0900	67531.0740	1888.7141
%RSD		0.870	1.101	1.028	1.397	2.863	2.582	0.921	1.536	2.319

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	20:54:28	486220.0100	22.5000	159540.2000	154119.6100	7723.5776	201394.5300	161897.5200	2267.8085	209503.3100
2	20:55:07	487635.4800	30.0001	158994.9300	151950.3200	7821.1685	202329.2700	164783.2600	2232.7991	210561.9900
3	20:55:47	482263.5000	25.0000	161178.7900	153472.8400	7605.9695	203635.5100	162537.2900	2222.7964	210895.2600
4	20:56:27	485862.5400	47.5001	159626.8400	154272.4000	7661.0199	203246.1800	161739.4900	2385.3413	209895.4900
5	20:57:06	485478.6100	47.5001	158261.1600	153098.5500	7623.4855	200178.2500	162511.8000	2387.8421	207260.7600
x		485492.0300	34.5001	159520.3800	153382.7400	7687.0442	202156.7500	162693.8700	2299.3175	209623.3600
%RSD		0.408	35.277	0.674	0.608	1.138	0.695	0.751	3.541	0.682

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	20:54:28	47457.2480	116138.6900	54927.9300	32432.9910	23142.9240	7008.7795	2404.5135	145.8346	702239.6500
2	20:55:07	48256.8200	116891.6100	55801.2030	31230.9130	23079.4150	6976.2522	2529.5505	143.3346	694171.3700
3	20:55:47	47585.4760	116698.9400	55484.0960	32028.9330	23279.1360	7133.8856	2589.5690	153.3347	699693.2500
4	20:56:27	49038.8650	116790.2000	54975.7440	31677.5940	23316.7410	7025.4602	2554.5582	154.1681	704469.0400
5	20:57:06	47841.9380	115821.8300	54781.9740	31542.0810	22782.7670	7022.9581	2552.8910	138.3345	704365.8400
x		48036.0690	116468.2500	55194.1890	31782.5030	23120.1970	7033.4671	2526.2164	147.0013	700987.8300
%RSD		1.329	0.399	0.780	1.456	0.917	0.845	2.824	4.581	0.610

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	20:54:28	25.0000	17.5000	15.0000	17.5000	30.0001	814714.5300	126605.7400	1670.1674	120988.2100
2	20:55:07	57.5002	5.0000	20.0000	12.5000	22.5000	814417.4900	129203.9100	1597.6531	124723.9300
3	20:55:47	45.0001	27.5000	35.0001	15.0000	32.5001	819746.4300	131603.5300	1547.6437	126209.8000
4	20:56:27	40.0001	17.5000	35.0001	10.0000	32.5001	822664.0100	132251.1600	1692.6719	125888.7500
5	20:57:06	27.5000	37.5001	50.0001	7.5000	50.0001	814656.7700	127485.2500	1602.6541	124306.5100
x		39.0001	21.0000	31.0001	12.5000	33.5001	817239.8500	129429.9200	1622.1580	124423.4400
%RSD		34.101	58.078	44.756	31.623	30.129	0.461	1.912	3.622	1.669

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	20:54:28	25590.4820	713011.7300	45.0001	65559.3710	13986.7280	24330.4670	1092659.4000	98340.5990	238579.5100
2	20:55:07	26094.5420	718638.0900	30.0001	66199.4010	14116.9470	25032.5410	1112690.9000	100764.3000	244121.6000
3	20:55:47	26087.0180	715621.8700	60.0002	66320.3570	14567.7220	25812.4150	1100895.0000	101806.8500	247786.1600
4	20:56:27	26211.1570	710380.6400	55.0002	66567.3150	14547.6870	25055.1090	1101954.8000	102857.1300	247908.4700
5	20:57:06	25577.9440	720058.1700	52.5002	65539.2140	14412.4520	25330.9410	1106624.7000	99446.1020	242834.8100
x		25912.2280	715542.1000	48.5001	66037.1320	14326.3070	25112.2950	1102965.0000	100643.0000	244246.1100
%RSD		1.171	0.555	24.067	0.704	1.826	2.143	0.672	1.792	1.587

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	20:54:28	82713.4640	69465.8280	172719.0500	789529.8000	2.5000
2	20:55:07	83256.3300	69939.7680	173765.4700	788099.7200	5.0000
3	20:55:47	83922.9670	70902.8550	175976.1400	796159.4900	0.0000
4	20:56:27	83781.5540	71422.2620	176422.9400	794731.0700	2.5000
5	20:57:06	81607.6410	69354.9100	175713.1800	804254.1900	5.0000
x		83056.3910	70217.1250	174919.3600	794554.8600	3.0000
%RSD		1.132	1.295	0.912	0.805	69.722

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	20:58:47	255824.9200	146526.1300	324770.0700	162616.3100	19958.8730	21166.8480	472361.0300	162733.5700	5389.2421
2	20:59:27	252391.7500	145959.6600	333731.4100	169027.0000	20820.9780	22425.1330	480242.9300	162980.8300	5867.0646
3	21:00:07	250368.7400	146764.4400	337956.6900	167037.4800	20871.1030	21232.0130	475542.0100	162297.6900	5699.4484
4	21:00:47	251646.3700	146206.4300	337360.7500	164711.8700	20735.7660	21728.2900	476488.8700	164278.4400	5591.8755
5	21:01:26	254272.6500	143143.9400	329191.0700	165145.3200	20750.8040	22054.1450	462912.3100	160189.9900	5594.3772
x		252900.8900	145720.1200	332602.0000	165707.6000	20627.5050	21721.2860	473509.4300	162496.1000	5628.4016
%RSD		0.854	1.010	1.685	1.467	1.831	2.472	1.385	0.914	3.099

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	20:58:47	475940.0500	20.0000	632161.4600	596710.3500	22470.2540	800778.4300	337519.4900	6520.0497	828259.6700
2	20:59:27	474564.8500	27.5000	629401.3200	608684.0300	23219.8050	806621.1300	339965.9900	6687.6824	832422.9400
3	21:00:07	473064.2900	35.0001	625210.2900	601663.1500	22081.7170	814466.9900	342493.9100	6307.3861	838852.2100
4	21:00:47	475151.9300	22.5000	630537.5800	602629.3500	22432.6530	805502.8300	342316.8500	6687.6824	840490.6100
5	21:01:26	478106.4300	42.5001	622597.6500	588790.7200	22913.9600	792121.8200	333099.3700	6582.5988	809630.5400
x		475365.5100	29.5001	627981.6600	599695.5200	22623.6780	803898.2400	339079.1200	6557.0799	829931.1900
%RSD		0.391	31.367	0.630	1.240	1.969	1.022	1.153	2.393	1.491

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	20:58:47	188285.8300	449910.9500	212777.2100	120796.7100	89888.0240	24347.1820	9565.4868	145.8346	686172.9200
2	20:59:27	187894.6500	453777.3700	215444.4400	124246.8800	91054.7550	24441.6240	9725.6720	145.8346	691562.2600
3	21:00:07	191364.7900	454645.3100	217989.3500	124041.3600	91069.9190	24946.4500	9684.7911	130.8344	684847.7900
4	21:00:47	190594.9400	455157.1500	218422.9900	123592.2600	90827.2930	24664.7800	9814.1089	139.1678	691616.4900
5	21:01:26	185606.7300	443566.5400	211841.3100	120482.2100	88551.3270	23993.6590	9445.3498	148.3347	691559.5400
x		188749.3900	451411.4600	215295.0600	122631.8800	90278.2640	24478.7390	9647.0817	142.0012	689151.8000
%RSD		1.216	1.073	1.380	1.498	1.196	1.455	1.492	5.007	0.487

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	20:58:47	47.5001	32.5001	72.5003	12.5000	35.0001	810485.4500	506183.9400	6800.2735	485838.7100
2	20:59:27	47.5001	30.0001	52.5002	10.0000	42.5001	812487.0000	514162.0700	6625.1325	496667.4100
3	21:00:07	57.5002	15.0000	50.0001	20.0000	45.0001	805664.9400	526924.6900	6885.3433	503832.6700
4	21:00:47	57.5002	32.5001	65.0003	15.0000	15.0000	809784.4700	524562.4200	6850.3145	507435.4700
5	21:01:26	30.0001	30.0001	47.5001	17.5000	22.5000	810631.1500	502464.9400	6745.2288	486164.4100
x		48.0001	28.0000	57.5002	15.0000	32.0001	809810.6000	514859.6100	6781.2585	495987.7300
%RSD		23.409	26.336	18.701	26.352	40.369	0.312	2.103	1.505	1.997

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	20:58:47	102624.2900	706424.6400	72.5003	256345.5600	55947.1770	98116.7330	1097543.0000	401160.0700	965432.8200
2	20:59:27	102450.9200	701446.8700	62.5002	259493.2700	56387.6310	99376.5300	1098809.8000	408518.6900	995171.2700
3	21:00:07	102625.5500	709728.4300	77.5004	263336.0300	57847.5860	101355.1500	1100238.7000	412963.6900	1002789.8000
4	21:00:47	102905.2200	705139.8700	80.0004	262954.2600	56322.1900	99594.1040	1101710.5000	413823.5600	1003524.6000
5	21:01:26	100379.7000	705574.4400	62.5002	258072.6600	56133.4230	97489.4350	1095481.4000	399209.6700	977943.2400
x		102197.1400	705662.8500	71.0003	260040.3500	56527.6010	99186.3900	1098756.7000	407135.1300	988972.3500
%RSD		1.007	0.420	11.572	1.172	1.340	1.506	0.219	1.644	1.690

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	20:58:47	326942.6000	278517.8300	699989.1100	788745.4900	2.5000
2	20:59:27	334160.6100	284905.9300	709848.0000	790866.8600	0.0000
3	21:00:07	335851.5900	285591.3000	713359.7100	796867.6200	0.0000
4	21:00:47	334363.5100	282090.0200	708470.3400	795820.5500	0.0000
5	21:01:26	328366.9900	279316.4000	697101.4600	796635.6900	0.0000
x		331937.0600	282084.3000	705753.7200	793787.2400	0.5000
%RSD		1.204	1.130	0.977	0.470	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:03:08	248553.9400	364896.1200	797958.7300	408382.2400	51498.6360	52545.1390	1190974.3000	349605.2600	13994.2400
2	21:03:47	248652.6600	366533.1700	806744.7900	420145.9300	51624.4110	54593.2410	1199436.4000	351739.8300	13949.1650
3	21:04:27	250279.4500	367063.2500	821147.3000	418916.2800	51709.9390	53601.8370	1200151.7000	354998.7500	14490.0870
4	21:05:07	247097.4100	360580.9100	813787.6900	414713.7100	50940.2200	54180.5610	1176354.7000	352628.7400	13921.6190
5	21:05:46	249080.1400	354000.0800	784021.9200	401352.7700	49325.5500	52706.1510	1147767.0000	339559.9300	13305.6140
x		248732.7200	362614.7100	804732.0900	412702.1900	51019.7510	53525.3860	1182936.8000	349706.5000	13932.1450
%RSD		0.460	1.502	1.790	1.898	1.947	1.673	1.849	1.714	3.020

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:03:08	462400.0100	30.0001	1613200.1000	1524318.1000	53043.2800	T2082492.2000	701292.1200	15845.0500	T2193420.2000
2	21:03:47	465964.3000	27.5000	1605964.2000	1559896.7000	53443.3240	T2097928.8000	706766.9100	15534.4660	T2202173.2000
3	21:04:27	466319.6200	22.5000	1614788.1000	1543327.0000	53840.8700	T2082015.1000	710638.8300	15644.6720	T2182134.6000
4	21:05:07	465454.4600	17.5000	T1628576.1000	1521388.0000	51956.4650	T2061021.3000	696284.7400	15672.2230	T2155564.6000
5	21:05:46	461423.0300	35.0001	1537709.1000	1471537.1000	51284.8240	T2004327.0000	684476.5700	15449.3080	T2097122.4000
x		464312.2900	26.5000	T1600047.5000	1524093.4000	52713.7530	T2065556.9000	699891.8300	15629.1440	T2166083.0000
%RSD		0.482	25.489	T2.237	2.181	2.018	T1.775	1.456	0.960	T1.955

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:03:08	468845.6100	1140538.1000	543981.2500	305556.0200	225684.3400	M59938.9550	M23507.2750	147.5013	675582.9400
2	21:03:47	477774.4300	1150069.4000	547636.9200	309323.7700	227159.4500	M59385.0100	M24022.0740	133.3344	677293.8000
3	21:04:27	470656.0000	1157389.0000	537449.7100	308429.0000	227825.6100	M60292.3240	M23610.9010	135.8344	679692.8100
4	21:05:07	464135.0900	1128101.1000	527330.4300	306709.7600	224067.4100	M59792.9110	23278.3010	143.3346	681149.8700
5	21:05:46	460240.2400	1092057.7000	514191.2900	296023.5400	218298.9700	57871.9210	22808.6710	151.6681	674072.6900
x		468330.2700	1133631.1000	534117.9200	305208.4200	224607.1600	M59456.2240	M23445.4450	142.3346	677558.4200
%RSD		1.424	2.267	2.537	1.749	1.697	M1.587	M1.904	5.420	0.428

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:03:08	90.0005	30.0001	95.0005	15.0000	47.5001	793010.6900	M1278443.8000	16799.4160	M1228909.3000
2	21:03:47	82.5004	35.0001	70.0003	32.5001	67.5003	799748.7400	M1293527.3000	17034.8930	M1240643.5000
3	21:04:27	87.5005	35.0001	90.0005	32.5001	50.0001	801143.6500	M1308948.8000	16914.6490	M1252462.5000
4	21:05:07	72.5003	45.0001	70.0003	37.5001	62.5002	799059.6000	M1299747.9000	16972.2660	M1250153.8000
5	21:05:46	55.0002	42.5001	110.0007	42.5001	67.5003	799260.0200	1229377.7000	16315.9570	1186010.5000
x		77.5004	37.5001	87.0005	32.0001	59.0002	798444.5400	M1282009.1000	16807.4360	M1231635.9000
%RSD		18.390	16.330	19.742	32.401	16.301	0.394	M2.453	1.714	M2.204

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:03:08	254993.7700	697703.8800	50.0001	659943.7300	141697.0300	246108.7900	1083478.6000	1018962.9000	2537557.3000
2	21:03:47	256785.0300	702812.5500	90.0005	664554.4100	141030.8700	248729.9100	1100127.9000	1041946.5000	2582284.9000
3	21:04:27	260700.0700	704368.5500	72.5003	663383.9400	142663.3000	251019.5500	1101940.6000	1049827.2000	2587757.0000
4	21:05:07	255622.6000	699519.5300	60.0002	659003.5200	141719.9100	247661.2800	1087290.5000	1042961.2000	2600073.6000
5	21:05:46	248602.4400	692983.3400	70.0003	642334.4300	136392.1100	240014.8600	1094782.9000	1016176.4000	2496518.4000
x		255340.7800	699477.5700	68.5003	657844.0100	140700.6400	246706.8800	1093524.1000	1033974.8000	2560838.2000
%RSD		1.712	0.641	21.837	1.364	1.761	1.680	0.731	1.481	1.680

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:03:08	840283.7200	712943.7700	1804956.5000	780065.1900	2.5000
2	21:03:47	855623.0400	717735.0200	1816676.0000	784818.1400	12.5000
3	21:04:27	858068.8800	723557.6700	1836963.6000	800473.6300	0.0000
4	21:05:07	859390.2000	719146.7900	1813245.3000	788356.1000	0.0000
5	21:05:46	826896.2300	701167.2400	1758740.1000	796258.3000	2.5000
x		848052.4200	714910.1000	1806116.3000	789994.2700	3.5000
%RSD		1.661	1.198	1.605	1.054	148.117

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:07:28	237726.4800	┬1722503.1000	┬3826211.6000	┬2006643.8000	237049.2600	248402.8700	┬5567919.3000	┬1499117.4000	63465.7570
2	21:08:07	241211.1700	┬1746541.8000	┬3877422.5000	┬2031854.8000	239559.5300	250911.3700	┬5577756.4000	┬1511250.3000	62904.0220
3	21:08:47	239358.0300	┬1762123.2000	┬3931279.8000	┬2050159.4000	243346.9300	254873.9400	┬5681528.8000	┬1512345.2000	63045.0820
4	21:09:27	241019.0600	┬1759234.8000	┬3905944.7000	┬2066966.7000	239873.3700	252724.9500	┬5623285.6000	┬1515922.7000	64035.0880
5	21:10:06	240219.8100	┬1737650.9000	┬3866365.7000	┬2041755.7000	236858.9600	248315.3200	┬5581299.2000	┬1484120.0000	63047.6010
x		239906.9100	┬1745610.7000	┬3881444.9000	┬2039476.1000	239337.6100	251045.6900	┬5606357.9000	┬1504551.1000	63299.5100
%RSD		0.593	┬0.931	┬1.029	┬1.099	1.101	1.125	┬0.840	┬0.868	0.730

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:07:28	444389.9700	42.5001	┬7706563.8000	┬7330517.7000	236074.6700	┬9592989.4000	┬3054970.4000	69140.6410	┬9975790.0000
2	21:08:07	441000.5900	37.5001	┬7616363.0000	┬7345394.3000	239039.9300	┬9701452.4000	┬3040584.5000	69791.0290	┬10099769.0000
3	21:08:47	438520.9900	47.5001	┬7833958.1000	┬7438424.8000	241018.2000	┬9769962.7000	┬3065538.7000	70345.6630	┬10181760.0000
4	21:09:27	445851.2500	30.0001	┬7842958.0000	┬7393864.1000	239515.8000	┬9781217.3000	┬3067615.9000	70950.7600	┬10150361.0000
5	21:10:06	442867.0200	52.5002	┬7733952.6000	┬7396930.6000	240593.7000	┬9692176.4000	┬3063419.4000	71104.5630	┬10120015.0000
x		442525.9600	42.0001	┬7746759.1000	┬7381026.3000	239248.4600	┬9707559.6000	┬3058425.8000	70266.5310	┬10105539.0000
%RSD		0.649	20.791	┬1.218	┬0.588	0.813	┬0.776	┬0.362	1.163	┬0.781

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:07:28	┬2230446.2000	┬5354509.7000	┬2533098.8000	1412404.9000	1047735.1000	871.7123	166.6683	126.6676	640581.9400
2	21:08:07	┬2251090.3000	┬5411424.4000	┬2560886.2000	1435414.5000	1062531.2000	886.7138	175.0018	135.8344	646973.5100
3	21:08:47	┬2256862.4000	┬5398386.2000	┬2574969.0000	1454867.4000	1066553.9000	889.2141	158.3348	142.5012	641541.7300
4	21:09:27	┬2228001.9000	┬5319487.7000	┬2568449.4000	1420807.3000	1063135.7000	903.3823	153.3347	127.5010	638341.9700
5	21:10:06	┬2219653.0000	┬5373816.0000	┬2537031.7000	1410910.6000	1049006.1000	900.0486	136.6678	145.0013	639743.5700
x		┬2237210.8000	┬5371524.8000	┬2554887.0000	1426880.9000	1057792.4000	890.2142	158.0015	135.5011	641436.5400
%RSD		┬0.713	┬0.679	┬0.737	1.291	0.827	1.405	9.178	6.190	0.516

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:07:28	115.0008	85.0004	95.0005	45.0001	210.0027	753442.3600	1515.1377	78157.3030	1370.1126
2	21:08:07	95.0005	105.0007	82.5004	65.0003	152.5014	752014.0900	1651.4136	79121.3360	1617.6570
3	21:08:47	90.0005	125.0009	97.5006	57.5002	212.5027	748893.4700	2605.4072	78704.9210	2637.9175
4	21:09:27	82.5004	112.5008	90.0005	52.5002	222.5030	748200.1500	4116.0162	79648.8260	3935.9293
5	21:10:06	85.0004	112.5008	82.5004	62.5002	227.5031	748625.9600	1648.9131	77677.8510	1637.6609
x		93.5005	108.0007	89.5005	56.5002	205.0026	750235.2100	2307.3776	78662.0480	2239.8554
%RSD		13.842	13.636	7.751	14.201	14.736	0.312	47.730	0.987	47.571

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:07:28	1200431.8000	662724.4400	52.5002	┬3272776.4000	655494.8400	1171550.8000	1049118.1000	┬4987850.2000	┬12203700.0000
2	21:08:07	1204814.4000	655762.2000	37.5001	┬3336833.2000	671039.4400	1182276.5000	1036537.7000	┬5060220.3000	┬12407050.0000
3	21:08:47	1223099.1000	661040.7800	25.0000	┬3350328.2000	674963.1100	1205747.2000	1047412.2000	┬5069355.0000	┬12652673.0000
4	21:09:27	1222659.9000	661927.1600	37.5001	┬3355026.3000	679032.0700	1185933.0000	1039293.8000	┬5126665.6000	┬12534428.0000
5	21:10:06	1207744.0000	659827.5500	22.5000	┬3298049.2000	666760.6100	1174687.2000	1034975.2000	┬5001096.8000	┬12202105.0000
x		1211749.8000	660256.4200	35.0001	┬3322602.7000	669458.0200	1184039.0000	1041467.4000	┬5049037.6000	┬12399991.0000
%RSD		0.866	0.414	34.256	┬1.076	1.350	1.134	0.617	┬1.112	┬1.611

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:07:28	┬3949872.8000	┬3594510.4000	┬8788347.3000	752765.0600	5.0000
2	21:08:07	┬4020648.5000	┬3662562.0000	┬8899949.9000	746825.9500	5.0000
3	21:08:47	┬4112699.3000	┬3679557.4000	┬8969735.1000	749730.1700	5.0000
4	21:09:27	┬4055789.4000	┬3664620.5000	┬9033880.1000	754387.3900	7.5000
5	21:10:06	┬3977957.3000	┬3599207.9000	┬8841463.1000	749304.3000	2.5000
x		┬4023393.5000	┬3640091.6000	┬8906675.1000	750602.5700	5.0000
%RSD		┬1.596	┬1.100	┬1.101	0.398	35.355

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:11:48	240903.2800	TM 3442486.9000	T 7757606.4000	T 4061077.4000	480002.1300	499037.9300	T 11171028.0000	T 2903106.9000	125135.0200
2	21:12:27	242860.5500	T 3445074.3000	T 7746584.1000	T 4106452.4000	476293.1400	511622.7100	T 11185036.0000	T 2959582.8000	126114.6300
3	21:13:07	243163.3600	TM 3500075.1000	T 7866517.4000	T 4103240.7000	482389.2200	501738.0400	T 11231370.0000	T 2989170.2000	128650.4500
4	21:13:47	242438.5200	T 3446113.5000	T 7953625.6000	T 4153373.0000	471887.8200	505558.9100	T 11162234.0000	T 2979596.3000	125944.5800
5	21:14:26	243636.8900	T 3388045.1000	T 7664308.3000	T 4041589.6000	477388.2100	496799.9700	T 11142485.0000	T 2878624.7000	125244.1500
x		242600.5200	TM 3444359.0000	T 7797728.4000	T 4093146.6000	477592.1000	502951.5100	T 11178431.0000	T 2942016.2000	126217.7700
%RSD		0.431	TM 1.151	T 1.449	T 1.064	0.832	1.162	T 0.299	T 1.654	1.129

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:11:48	437842.9500	45.0001	TM 15212070.0000	TM 14815838.0000	468184.9800	TM 19262684.0000	T 5969731.1000	136036.3600	TM 19873780.0000
2	21:12:27	445314.9400	45.0001	TM 15429746.0000	T 14657996.0000	472569.8900	TM 19540248.0000	T 5995738.0000	138453.1800	TM 20005772.0000
3	21:13:07	445888.1500	37.5001	TM 15588365.0000	T 14689683.0000	479756.0500	TM 19391355.0000	T 6076860.3000	139800.3900	T 19946900.0000
4	21:13:47	451800.4300	60.0002	T 15376095.0000	T 14713981.0000	475727.1400	T 19313246.0000	T 5889928.1000	136259.9700	T 20134949.0000
5	21:14:26	448992.0800	40.0001	T 15231117.0000	T 14522339.0000	464639.5700	T 18956732.0000	T 5904089.4000	135983.0000	T 19717544.0000
x		445967.7100	45.5001	TM 15367479.0000	TM 14679967.0000	472175.5200	TM 19292853.0000	T 5967269.4000	137306.5800	TM 19935789.0000
%RSD		1.174	19.192	TM 1.005	TM 0.723	1.266	TM 1.115	T 1.265	1.261	TM 0.778

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:11:48	TM 4418176.0000	TM 10429102.0000	TM 4976890.8000	TM 2837350.1000	TM 2169526.5000	920.8842	150.0014	119.1675	626216.8100
2	21:12:27	T 4414745.1000	T 10482046.0000	TM 5039892.6000	T 2814181.1000	TM 2183997.3000	887.5473	161.6682	133.3344	636630.7000
3	21:13:07	T 4421003.1000	TM 10737728.0000	TM 5004179.0000	TM 2842699.1000	TM 2198774.2000	905.8826	164.1683	139.1678	638285.3700
4	21:13:47	T 4424846.3000	T 10491554.0000	T 4964350.9000	T 2794725.8000	T 2178215.0000	896.7149	195.8356	125.0009	650276.3200
5	21:14:26	T 4349161.1000	T 10240421.0000	T 4873667.5000	T 2773757.5000	T 2130626.7000	972.5568	171.6684	149.1680	638972.6600
x		TM 4405586.3000	TM 10476170.0000	TM 4971796.2000	TM 2812542.7000	TM 2172227.9000	916.7171	168.6684	133.1677	638076.3700
%RSD		TM 0.721	TM 1.697	TM 1.248	TM 1.029	TM 1.178	3.660	10.117	8.843	1.340

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:11:48	167.5017	197.5023	210.0027	97.5006	342.5070	726132.8600	1156.3302	153045.0800	1182.5839
2	21:12:27	150.0014	167.5017	180.0019	120.0009	397.5095	725321.5600	1376.3637	152026.6900	1433.8733
3	21:13:07	122.5009	200.0024	180.0019	97.5006	412.5102	749084.5500	2544.1383	152973.7900	2365.3356
4	21:13:47	122.5009	187.5021	192.5022	117.5008	375.0084	747883.5300	3393.1907	150206.6300	3079.3188
5	21:14:26	160.0015	182.5020	172.5018	105.0007	430.0111	739819.1600	1123.8258	148865.3800	1068.8185
x		144.5013	187.0021	187.0021	107.5007	391.5093	737648.3300	1918.7697	151423.5100	1825.9861
%RSD		14.547	6.972	7.875	10.003	8.693	1.553	52.587	1.210	47.450

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:11:48	T 2420094.9000	655983.6500	50.0001	TM 6492982.2000	TM 1402953.7000	TM 2358177.4000	1008907.6000	TM 9789814.3000	T 23808897.0000
2	21:12:27	T 2438393.4000	653240.2100	67.5003	TM 6563017.0000	TM 1411201.6000	M 2381392.1000	1009456.0000	TM 9844949.6000	T 24107585.0000
3	21:13:07	T 2435323.6000	648654.4400	47.5001	TM 6585730.1000	TM 1412693.8000	M 2385955.1000	1021913.5000	TM 9913941.7000	T 24180161.0000
4	21:13:47	T 2408905.7000	651855.3100	95.0005	TM 6564653.2000	TM 1403593.2000	M 2371529.0000	1015411.0000	TM 9902304.5000	T 24123592.0000
5	21:14:26	2360701.8000	666682.2000	50.0001	T 6311277.4000	T 1375914.2000	T 2329953.7000	1029677.7000	T 9550039.7000	T 23150440.0000
x		T 2412683.9000	655283.1600	62.0002	TM 6503532.0000	TM 1401271.3000	TM 2365401.5000	1017073.2000	TM 9800210.0000	T 23874135.0000
%RSD		T 1.302	1.053	32.434	TM 1.738	TM 1.059	TM 0.951	0.865	TM 1.514	T 1.800

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:11:48	T 7837931.6000	T 6965829.6000	T 17170736.0000	720911.1500	12.5000
2	21:12:27	T 7858853.8000	T 7078216.9000	T 17448818.0000	727039.5300	12.5000
3	21:13:07	T 7844017.7000	T 7085922.9000	T 17168527.0000	725102.4200	12.5000
4	21:13:47	T 7749708.9000	T 7053849.9000	T 17330084.0000	726501.7800	5.0000
5	21:14:26	T 7615655.0000	T 6858931.5000	T 16764778.0000	739587.3800	10.0000
x		T 7781233.4000	T 7008550.2000	T 17176589.0000	727828.4500	10.5000
%RSD		T 1.310	T 1.374	T 1.505	0.962	31.044

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:16:08	224842.8800	960.0553	τ72937115.0000	τ38685486.0000	τ4764753.7000	τ4921533.4000	τ107545260.0000	τ27636526.0000	1220622.3000
2	21:16:47	227883.8300	699.1960	τ75694109.0000	τ39001107.0000	τ4852910.8000	τ5009264.7000	τ108696450.0000	τ28487356.0000	1272623.1000
3	21:17:27	231709.6900	460.8461	τ77710747.0000	τ41318687.0000	τ5058651.0000	τ5207436.3000	τ112875690.0000	τ29651922.0000	1311440.0000
4	21:18:07	230337.4300	333.3400	τ78194807.0000	τ41328033.0000	τ5030123.2000	τ5254858.6000	τ110372720.0000	τ29648764.0000	1310837.8000
5	21:18:47	232813.1500	278.3380	τ77348658.0000	τ40190083.0000	τ4963525.9000	τ5160233.9000	τ109829650.0000	τ29065304.0000	1291524.4000
x		229517.4000	546.3551	τ76377087.0000	τ40104679.0000	τ4933992.9000	τ5110665.4000	τ109863960.0000	τ28897974.0000	1281409.5000
%RSD		1.393	51.690	τ2.803	τ3.107	τ2.500	τ2.744	τ1.824	τ2.957	2.931

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:16:08	420294.3900	35.0001	4256.0866	4266.0917	τ3291735.0000	8234.0660	τ56096927.0000	1340290.2000	5459.2876
2	21:16:47	432648.1500	52.5002	2890.5012	3410.6978	τ3433873.1000	6772.7511	τ57836846.0000	1383692.7000	4065.9917
3	21:17:27	437380.8500	67.5003	1722.6780	2702.9383	τ3510239.7000	5827.0365	τ59071294.0000	1421116.4000	2958.0249
4	21:18:07	445550.8100	42.5001	1170.0821	2030.2473	τ3514288.7000	5649.4143	τ59260121.0000	1410181.2000	2580.3994
5	21:18:47	452834.3400	47.5001	1300.1014	1832.7015	τ3458491.6000	5219.1338	τ58350274.0000	1395188.9000	2165.2813
x		437741.7100	49.0002	2267.8899	2848.5353	τ3441725.6000	6340.4804	τ58123092.0000	1390093.9000	3445.7970
%RSD		2.842	24.891	57.405	35.317	τ2.631	18.944	τ2.181	2.250	38.570

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:16:08	1772.6885	6127.2518	2695.4359	1232.5912	674.1939	890.0475	105.8340	140.8345	605037.2900
2	21:16:47	1497.6346	4883.9307	2240.3011	982.5579	471.6800	880.0465	118.3342	130.8344	607993.7700
3	21:17:27	1187.5846	4656.3005	1980.2353	720.0311	310.0058	912.5500	128.3343	138.3345	623299.8300
4	21:18:07	1137.5776	3950.9364	1862.7082	670.0269	252.5038	907.5494	135.0011	149.1680	629810.5700
5	21:18:47	947.5539	3848.3884	1745.1827	665.0265	189.1688	986.7251	113.3341	146.6680	640741.0000
x		1308.6078	4693.3616	2104.7726	854.0467	379.5105	915.3837	120.1675	141.1679	621376.4900
%RSD		24.919	19.525	17.945	29.118	51.454	4.586	9.689	5.123	2.408

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:16:08	62.5002	67.5003	140.0012	40.0001	62.5002	681128.2000	517.5161	45.0001	553.7684
2	21:16:47	107.5007	50.0001	155.0014	45.0001	50.0001	696870.8200	733.7823	42.5001	702.5296
3	21:17:27	135.0011	45.0001	182.5020	27.5000	85.0004	709703.9700	1237.5919	20.0000	1278.8481
4	21:18:07	77.5004	65.0003	107.5007	32.5001	55.0002	707272.2000	2186.5368	10.0000	2079.0093
5	21:18:47	90.0005	60.0002	145.0013	22.5000	70.0003	717514.7000	783.7869	5.0000	786.2871
x		94.5006	57.5002	146.0013	33.5001	64.5003	702497.9800	1091.8428	24.5001	1080.0885
%RSD		29.660	16.839	18.546	27.216	21.300	1.999	60.969	75.123	57.508

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:16:08	510.0156	609097.6700	60.0002	3338.1685	317.5061	555.0185	986020.8700	3283.1466	7689.7963
2	21:16:47	371.2583	626058.0200	60.0002	2117.7691	225.0030	375.0084	988365.7900	2119.0194	4823.8958
3	21:17:27	227.5031	627449.5600	52.5002	1655.1644	162.5016	227.5031	1013728.4000	1355.1102	3259.3873
4	21:18:07	135.0011	639883.7400	52.5002	1300.1014	92.5005	147.5013	1008924.5000	993.8093	2430.3543
5	21:18:47	102.5006	645131.0700	65.0003	1167.5818	62.5002	142.5012	1024039.8000	831.2915	1943.9767
x		269.2557	629524.0100	58.0002	1915.7570	172.0023	289.5065	1004215.9000	1716.4754	4029.4821
%RSD		63.231	2.225	9.345	45.735	59.845	60.676	1.642	58.643	57.574

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:16:08	1980.2353	1772.6885	4211.0637	668518.4100	0.0000
2	21:16:47	1267.5964	1065.0681	2928.0143	676914.7800	5.0000
3	21:17:27	920.0508	740.0329	2055.2534	674029.3900	0.0000
4	21:18:07	672.5271	530.0169	1417.6206	685980.5100	0.0000
5	21:18:47	450.0122	395.0094	1007.5609	693170.4900	5.0000
x		1058.0843	900.5631	2323.9026	679722.7200	2.0000
%RSD		56.543	60.980	55.076	1.445	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:20:28	218324.6300	142.5012	T 150285800.0000	TM 79345620.0000	TM 9818184.8000	T 10036081.0000	T 215784170.0000	TM 56554708.0000	TM 2649242.1000
2	21:21:08	216647.5300	127.5010	TM 155030010.0000	TM 79230794.0000	TM 9916199.1000	TM 10294483.0000	TM 220939170.0000	TM 56661765.0000	TM 2643884.4000
3	21:21:48	219355.3400	125.8343	TM 155556130.0000	TM 80600110.0000	TM 9884903.5000	TM 10289154.0000	TM 223227110.0000	TM 57640263.0000	TM 2665444.6000
4	21:22:27	219056.8000	123.3343	TM 154527230.0000	TM 81346951.0000	TM 9891264.6000	TM 10293750.0000	T 219032370.0000	TM 57834593.0000	TM 2705264.8000
5	21:23:07	218825.8500	113.3341	T 152548380.0000	T 79698043.0000	T 9758507.0000	T 10162874.0000	T 218582360.0000	T 56662389.0000	T 2650057.4000
x		218442.0300	126.5010	TM 153589510.0000	TM 80044304.0000	TM 9853811.8000	TM 10215269.0000	TM 219513040.0000	TM 57070744.0000	TM 2662778.7000
%RSD		0.491	8.299	TM 1.412	TM 1.131	TM 0.654	TM 1.124	TM 1.265	TM 1.076	TM 0.942

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:20:28	433013.9300	47.5001	560.0188	1500.1350	TM 6778583.6000	8474.3066	TM 114321670.0000	TM 2845368.1000	2672.9286
2	21:21:08	432344.2200	65.0003	420.0106	1662.6659	TM 6842111.9000	8684.5229	TM 114623930.0000	TM 2848463.7000	2820.4772
3	21:21:48	438709.2700	70.0003	365.0080	1635.1604	T 6859112.1000	8832.1780	TM 115714550.0000	TM 2882601.1000	3018.0464
4	21:22:27	442885.4600	77.5004	360.0078	1687.6709	TM 6954073.0000	8694.5333	TM 116287500.0000	TM 2879205.9000	2845.4857
5	21:23:07	445328.1100	85.0004	555.0185	1702.6739	T 6885550.5000	8259.0907	T 113355630.0000	T 2854269.8000	2827.9798
x		438456.2000	69.0003	452.0127	1637.6612	TM 6863886.2000	8588.9263	TM 114860650.0000	TM 2861981.7000	2836.9835
%RSD		1.319	20.592	21.938	4.949	TM 0.932	2.612	TM 1.009	TM 0.615	4.322

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:20:28	1595.1527	3805.8689	1955.2293	612.5225	121.6676	958.3884	117.5008	149.1680	592773.7600
2	21:21:08	1740.1817	3995.9578	1937.7253	570.0195	115.8341	980.8911	127.5010	160.0015	601504.8100
3	21:21:48	1635.1604	4058.4880	1850.2054	537.5173	114.1675	1010.0612	122.5009	150.8347	606734.2500
4	21:22:27	1655.1644	4025.9723	1887.7138	610.0223	126.6676	1075.9028	135.0011	146.6680	608915.0200
5	21:23:07	1647.6629	3940.9316	1802.6950	615.0227	138.3345	1071.7356	144.1679	149.1680	606651.0100
x		1654.6644	3965.4437	1886.7137	589.0209	123.3343	1019.3958	129.3343	151.1680	603315.7700
%RSD		3.210	2.500	3.319	5.809	7.894	5.196	8.130	3.412	1.076

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:20:28	165.0016	85.0004	272.5045	47.5001	100.0006	671702.2800	657.5259	5.0000	585.0205
2	21:21:08	162.5016	80.0004	292.5051	40.0001	110.0007	674678.9200	735.0324	12.5000	696.2791
3	21:21:48	147.5013	102.5006	272.5045	87.5005	90.0005	671388.4400	1256.3447	0.0000	1136.3275
4	21:22:27	172.5018	120.0009	267.5043	47.5001	105.0007	674603.1400	1606.4048	7.5000	1450.1262
5	21:23:07	187.5021	82.5004	292.5051	47.5001	107.5007	682788.6800	547.5180	10.0000	487.5143
x		167.0017	94.0005	279.5047	54.0002	102.5006	675032.2900	960.5652	7.0000	871.0535
%RSD		8.755	18.097	4.308	35.198	7.713	0.682	47.075	68.698	46.815

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:20:28	20.0000	607319.6800	30.0001	662.5263	42.5001	62.5002	943438.4900	347.5073	847.5431
2	21:21:08	30.0001	605477.6100	50.0001	677.5275	37.5001	55.0002	951256.8800	292.5051	753.7841
3	21:21:48	35.0001	615086.9900	47.5001	610.0223	25.0000	67.5003	951645.1900	290.0051	708.7801
4	21:22:27	15.0000	613587.2600	70.0003	577.5200	42.5001	47.5001	948932.9800	250.0038	661.2762
5	21:23:07	22.5000	622551.9100	37.5001	532.5170	55.0002	40.0001	953827.2900	242.5035	597.5214
x		24.5000	612804.6900	47.0001	612.0227	40.5001	54.5002	949820.1600	284.5049	713.7810
%RSD		32.589	1.109	32.224	9.789	26.694	20.360	0.418	14.723	13.252

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:20:28	285.0049	260.0041	705.0298	619234.1200	0.0000
2	21:21:08	330.0065	275.0045	627.5236	617092.4200	0.0000
3	21:21:48	292.5051	230.0032	630.0238	619809.6300	2.5000
4	21:22:27	305.0056	265.0042	610.0223	622028.6700	0.0000
5	21:23:07	325.0063	267.5043	622.5233	624004.7700	2.5000
x		307.5057	259.5041	639.0246	620433.9200	1.0000
%RSD		6.402	6.689	5.899	0.429	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:24:49	252745.5600	72215.7230	T3425279.4000	1053989.2000	125604.5100	132621.9800	1260484.0000	1342003.4000	56820.5560
2	21:25:29	252451.8600	72221.6070	T3501480.3000	1049892.1000	127284.7200	134196.9000	1271841.1000	T1354668.7000	57485.0910
3	21:26:08	251854.1800	73111.8200	T3471899.7000	1068323.9000	127751.7800	134898.0800	1261606.3000	1345500.8000	58046.4620
4	21:26:48	254233.1400	71797.1300	T3479274.7000	1046248.8000	126563.8600	133282.4000	1263003.6000	T1342879.5000	58192.4750
5	21:27:28	254492.5400	71575.2330	T3404350.9000	1026290.6000	123889.1200	128787.5400	T1254302.3000	1318677.3000	56143.4910
x		253155.4600	72184.3030	T3456457.0000	1048948.9000	126218.8000	132757.3800	T1262247.5000	T1340745.9000	57337.6150
%RSD		0.455	0.815	T1.164	1.448	1.215	1.795	T0.500	T0.993	1.497

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:24:49	487836.7700	37.5001	314855.2500	300701.6400	78137.1150	395243.4100	1388770.0000	32382.7970	411048.6500
2	21:25:29	490366.4500	27.5000	319162.0200	302375.6100	78571.1680	398385.3500	1403375.5000	32789.3820	419026.6300
3	21:26:08	492025.0600	60.0002	317033.0200	302761.7500	77677.8510	400283.1200	1393471.5000	31855.7710	423573.0500
4	21:26:48	486272.9700	50.0001	318580.3900	299862.1900	78543.4080	402107.9000	1395447.3000	32131.8280	416754.3300
5	21:27:28	491247.3800	47.5001	312509.3800	293856.3300	78210.2970	386384.6300	1350477.8000	31097.9170	403940.9300
x		489549.7300	44.5001	316428.0100	299911.5000	78227.9680	396480.8800	1386308.4000	32051.5390	414868.7200
%RSD		0.494	27.921	0.870	1.196	0.465	1.561	1.494	1.978	1.830

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:24:49	96563.7510	226656.0200	109839.1400	123754.6400	92619.3560	25187.1730	9881.6887	140.8345	703480.5400
2	21:25:29	96399.3640	230509.5900	110345.7700	126815.1400	92931.9740	25372.7340	9726.5063	144.1679	704186.6000
3	21:26:08	95944.1560	227922.3700	110368.5700	125513.1500	93499.9410	25237.3240	9993.4886	140.0012	703578.3000
4	21:26:48	96715.4950	229502.3500	109096.9800	124581.8300	92068.3000	25406.1690	9758.2100	137.5011	697674.0300
5	21:27:28	94252.5150	223489.7000	105685.9500	122049.7700	90874.4700	24713.2570	9639.7389	125.8343	704925.3000
x		95975.0560	227616.0100	109067.2800	124542.9100	92398.8080	25183.3320	9799.9265	137.6678	702768.9500
%RSD		1.048	1.203	1.797	1.444	1.079	1.104	1.415	5.108	0.414

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:24:49	125.0009	37.5001	62.5002	2.5000	37.5001	818065.1400	252803.5300	3555.7584	242740.8900
2	21:25:29	137.5011	45.0001	65.0003	12.5000	17.5000	822432.7700	259566.7500	3413.1989	249649.3000
3	21:26:08	115.0008	25.0000	75.0003	5.0000	15.0000	814090.2100	258451.6300	3343.1705	249754.8900
4	21:26:48	80.0004	12.5000	55.0002	15.0000	22.5000	813644.6900	261196.5100	3355.6755	251180.5500
5	21:27:28	142.5012	17.5000	57.5002	7.5000	22.5000	812819.7100	250020.1700	3433.2071	239412.9100
x		120.0009	27.5001	63.0002	8.5000	23.0000	816210.5100	256407.7200	3420.2021	246547.7100
%RSD		20.677	49.376	12.359	60.990	37.966	0.493	1.859	2.476	2.095

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:24:49	51551.4620	711538.4400	35.0001	254435.8500	28478.5790	49881.3430	1085387.2000	408282.5300	996583.5400
2	21:25:29	52126.2710	716356.1100	52.5002	259279.2600	28997.8650	51415.6260	1115015.5000	414242.3600	1017392.2000
3	21:26:08	52153.9430	715610.9900	50.0001	256183.1800	28671.7390	50708.8150	1107946.8000	418765.2200	1012978.7000
4	21:26:48	52014.3240	718189.2600	47.5001	256577.5400	28440.9510	51206.8470	1094345.7000	416973.6500	1015695.2000
5	21:27:28	50683.6630	714874.0900	60.0002	255381.6300	27964.3420	48867.8650	1105473.3000	404161.2400	994599.9700
x		51705.9320	715313.7800	49.0001	256371.4900	28510.6950	50416.0990	1101633.7000	412485.0000	1007449.9000
%RSD		1.201	0.342	18.607	0.710	1.321	2.079	1.065	1.483	1.088

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:24:49	326942.6000	286359.5000	701281.2600	786340.8900	2.5000
2	21:25:29	328821.9100	288315.2300	701965.4200	793688.3700	7.5000
3	21:26:08	329591.4400	291073.6800	713438.5500	803173.2700	0.0000
4	21:26:48	332433.5500	288429.0700	705704.8200	793131.4100	2.5000
5	21:27:28	322896.8500	283918.0600	693034.8700	795728.6100	2.5000
x		328137.2700	287619.1100	703084.9900	794412.5100	3.0000
%RSD		1.077	0.926	1.054	0.760	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:29:12	250216.7800	95.0005	27033.7790	2060.2546	285.0049	260.0041	5261.6606	39375.3060	262.5041
2	21:29:52	255219.2700	92.5005	28370.7120	2410.3485	275.0045	340.0069	6860.3227	38187.2960	285.0049
3	21:30:32	258989.6200	85.0004	27535.4170	2775.4621	335.0067	345.0071	7813.6615	39455.6840	287.5050
4	21:31:11	257108.5300	104.1673	27304.6600	2630.4151	395.0094	410.0101	7450.8294	37461.5130	307.5057
5	21:31:51	260498.0600	77.5004	25855.0470	2155.2787	335.0067	295.0052	6174.7868	37361.0640	245.0036
x		256406.4500	90.8338	27219.9230	2406.3518	325.0065	330.0067	6712.2522	38368.1730	277.5047
%RSD		1.555	11.142	3.351	12.627	14.757	17.176	15.218	2.628	8.711

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:29:12	480032.5600	15.0000	882.5467	1337.6073	2647.9206	250.0038	104065.7500	820.0404	170.0017
2	21:29:52	483056.2500	12.5000	660.0261	1242.5926	2712.9415	237.5034	104589.7500	825.0408	202.5025
3	21:30:32	487197.1800	25.0000	425.0108	1140.0780	2827.9798	320.0061	106230.3000	832.5416	190.0022
4	21:31:11	498595.0700	35.0001	362.5079	1300.1014	2707.9399	250.0038	106164.4700	830.0413	215.0028
5	21:31:51	492467.5800	25.0000	840.0423	1300.1014	2752.9547	287.5050	105574.5500	822.5406	182.5020
x		488269.7300	22.5000	634.0268	1264.0962	2729.9473	269.0044	105324.9600	826.0409	192.0022
%RSD		1.520	40.062	37.181	6.107	2.433	12.685	0.915	0.628	9.087

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:29:12	62.5002	2190.2878	980.0576	245.0036	70.8336	1034.2308	135.0011	135.8344	684560.5700
2	21:29:52	60.0002	2375.3385	1130.0766	190.0022	64.1669	1029.2302	132.5011	144.1679	691301.9300
3	21:30:32	75.0003	2277.8113	955.0547	255.0039	63.3336	1006.7275	129.1677	134.1678	693775.3400
4	21:31:11	65.0003	2355.3328	1027.5633	277.5046	65.8336	1001.7269	140.0012	132.5011	694591.8300
5	21:31:51	72.5003	2252.8045	1037.5646	217.5028	63.3336	1015.8953	143.3346	142.5012	698501.7400
x		67.0003	2290.3150	1026.0634	237.0034	65.5003	1017.5621	136.0011	137.8345	692546.2800
%RSD		9.658	3.313	6.558	14.336	4.811	1.377	4.187	3.766	0.745

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:29:12	17.5000	12.5000	5.0000	5.0000	0.0000	801393.5500	472.5134	2.5000	467.5131
2	21:29:52	27.5000	15.0000	10.0000	7.5000	5.0000	808484.3700	498.7649	7.5000	465.0130
3	21:30:32	22.5000	7.5000	17.5000	2.5000	17.5000	814255.2200	675.0273	5.0000	650.0254
4	21:31:11	15.0000	2.5000	10.0000	2.5000	7.5000	812827.9600	1091.3215	0.0000	1008.8111
5	21:31:51	12.5000	5.0000	0.0000	0.0000	7.5000	811216.7300	363.7579	0.0000	325.0063
x		19.0000	8.5000	8.5000	3.5000	7.5000	809635.5700	620.2770	3.0000	583.2738
%RSD		31.688	60.990	76.697	81.441	84.984	0.628	46.115	108.653	45.330

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:29:12	23.7500	708035.6200	22.5000	1022.5627	7.5000	17.5000	1065555.8000	251.2538	621.2732
2	21:29:52	23.7500	703423.5100	35.0001	832.5416	15.0000	5.0000	1086453.7000	216.2528	505.0153
3	21:30:32	21.2500	712302.2400	35.0001	707.5300	15.0000	37.5001	1080394.0000	207.5026	491.2645
4	21:31:11	12.5000	711440.6000	17.5000	647.5252	20.0000	15.0000	1091234.6000	205.0025	433.7613
5	21:31:51	21.2500	707177.1200	42.5001	502.5152	20.0000	20.0000	1106249.4000	163.7516	382.5088
x		20.5000	708475.8200	30.5001	742.5349	15.5000	19.0000	1085977.5000	208.7527	486.7646
%RSD		22.651	0.503	33.496	26.457	33.055	62.135	1.371	14.964	18.411

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:29:12	102.5006	115.0008	222.5030	779840.5500	0.0000
2	21:29:52	135.0011	147.5013	230.0032	784670.1300	2.5000
3	21:30:32	142.5012	120.0009	222.5030	791327.6700	0.0000
4	21:31:11	102.5006	102.5006	237.5034	792298.7600	2.5000
5	21:31:51	102.5006	95.0005	222.5030	794517.0300	0.0000
x		117.0008	116.0008	227.0031	788530.8300	1.0000
%RSD		17.121	17.416	2.955	0.772	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:33:32	212392.5800	233.3366	T 143807360.0000	T 73805930.0000	T 9234833.3000	T 9748539.9000	TM 211253810.0000	TM 58032004.0000	TM 2602847.7000
2	21:34:12	210326.1500	220.8363	T 145133490.0000	T 75304538.0000	T 9233959.2000	TM 9858735.7000	TM 210560740.0000	TM 57925787.0000	TM 2621224.3000
3	21:34:51	212138.7300	205.8359	T 144815680.0000	T 74213750.0000	T 9295045.2000	T 9716908.8000	TM 212471440.0000	TM 58485504.0000	TM 2613990.1000
4	21:35:31	210004.0100	220.0029	T 144972530.0000	T 73405137.0000	T 9248016.8000	T 9676062.0000	T 209264840.0000	TM 58589544.0000	TM 2619024.3000
5	21:36:11	210032.2100	220.8363	T 142071980.0000	T 74864069.0000	T 9327846.1000	T 9691339.8000	T 209928050.0000	TM 58582096.0000	TM 2618441.9000
x		210978.7300	220.1696	T 144160210.0000	T 74318685.0000	T 9267940.1000	TM 9738317.2000	TM 210695780.0000	TM 58322987.0000	TM 2615105.7000
%RSD		0.562	4.425	T 0.886	T 1.037	T 0.450	TM 0.747	TM 0.587	TM 0.547	TM 0.281

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:33:32	418568.1800	429337.0700	7105.5280	56297.0210	TM 6698647.7000	30079.1880	TM 113093640.0000	TM 2857821.9000	4913.9484
2	21:34:12	419211.8500	425166.1800	7480.8563	56105.7380	TM 6689392.8000	31248.4780	TM 113061220.0000	TM 2838335.2000	5019.0110
3	21:34:51	417896.9700	432060.0300	7478.3540	55854.0550	TM 6690055.9000	31414.0990	TM 113161100.0000	TM 2840075.6000	5189.1151
4	21:35:31	421913.1900	429342.3300	7520.8923	55781.0690	T 6598974.7000	30370.2400	TM 113703330.0000	TM 2840118.4000	5161.5980
5	21:36:11	423207.6700	429536.9900	7518.3900	55529.3960	T 6664196.0000	30332.6040	TM 112989790.0000	TM 2854198.4000	5101.5611
x		420159.5700	429088.5200	7420.8041	55913.4560	TM 6668253.4000	30688.9220	TM 113201820.0000	TM 2846109.9000	5077.0467
%RSD		0.544	0.577	2.390	0.531	TM 0.612	1.955	TM 0.254	TM 0.322	2.208

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:33:32	5484.3041	16563.9460	8199.0315	6224.8240	389.1758	845.8763	132.5011	132.5011	617148.8800
2	21:34:12	5619.3940	16654.1250	8429.2610	6009.6662	376.6752	901.7155	139.1678	129.1677	616207.9300
3	21:34:51	5604.3839	16884.5880	8399.2307	6412.4662	404.1765	817.5401	140.0012	153.3347	616199.8700
4	21:35:31	5404.2518	16862.0420	8589.4244	6094.7279	391.6759	823.3740	137.5011	141.6679	622406.6400
5	21:36:11	5519.3272	16671.6600	8424.2559	6019.6734	399.1762	907.5494	125.8343	150.8347	620521.0100
x		5526.3322	16727.2720	8408.2407	6152.2716	392.1759	859.2111	135.0011	141.5012	618496.8700
%RSD		1.605	0.835	1.654	2.746	2.682	4.986	4.365	7.581	0.455

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:33:32	866517.1200	1544261.2000	1662264.5000	957365.6300	T 2740290.5000	692893.8400	261.2541	1335.1069	261.2541
2	21:34:12	877574.3400	1541524.6000	1662833.0000	968677.7200	T 2733594.8000	692722.9700	218.7529	1292.6002	212.5027
3	21:34:51	874992.8900	1546264.2000	1676165.2000	976835.1200	T 2744166.1000	693192.1800	183.7520	1415.1201	176.2519
4	21:35:31	870056.4600	1539182.6000	1660583.6000	969184.3700	T 2743157.8000	701221.5400	141.2512	1402.6180	152.5014
5	21:36:11	867922.7200	1543407.6000	1658664.2000	954794.1900	T 2726710.1000	700988.0700	153.7514	1305.1022	141.2512
x		871412.7100	1542928.0000	1664102.1000	965371.4100	T 2737583.8000	696203.7200	191.7523	1350.1095	188.7523
%RSD		0.541	0.175	0.417	0.945	T 0.268	0.643	25.572	4.147	25.883

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:33:32	1643.9121	627153.4700	202.5025	1787.6917	402.5097	677.5275	1011070.2000	216.2528	461.2628
2	21:34:12	1700.1734	627495.3200	202.5025	1652.6639	430.0111	725.0315	1010704.6000	142.5012	427.5110
3	21:34:51	1752.6843	633017.9500	252.5038	1690.1714	400.0096	675.0273	1004308.7000	163.7516	378.7586
4	21:35:31	1675.1684	630968.4300	240.0035	1575.1489	397.5095	692.5288	1009793.4000	133.7511	343.7571
5	21:36:11	1671.4176	634507.5900	190.0022	1547.6437	385.0089	692.5288	1032925.2000	130.0010	326.2564
x		1688.6712	630628.5500	217.5029	1650.6639	403.0098	692.5288	1013760.4000	157.2515	387.5092
%RSD		2.426	0.518	12.460	5.800	4.101	2.877	1.091	22.564	14.588

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:33:32	6742.7268	5356.7211	13250.5260	653435.9400	2.5000
2	21:34:12	6680.1764	5104.0626	13160.3840	659252.0700	0.0000
3	21:34:51	6655.1564	5274.1685	13248.0220	659753.2500	0.0000
4	21:35:31	6797.7715	5309.1907	13370.7180	663915.0900	5.0000
5	21:36:11	6690.1844	5274.1685	13473.3830	663387.9900	2.5000
x		6713.2031	5263.6623	13300.6070	659948.8700	2.0000
%RSD		0.850	1.813	0.919	0.636	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:37:52	214423.6100	11641.4590	T 142671310.0000	T 72176123.0000	T 9213297.8000	T 9783373.3000	T 210155380.0000	TM 57815152.0000	TM 2575438.2000
2	21:38:32	214221.0000	11864.2730	T 145652490.0000	T 73424190.0000	T 9356155.4000	TM 9877680.2000	TM 212157020.0000	TM 59504946.0000	TM 2605047.7000
3	21:39:11	213792.7100	11961.0780	T 146237230.0000	T 74524203.0000	T 9261297.4000	TM 9944511.5000	TM 214872880.0000	TM 60980510.0000	TM 2631137.3000
4	21:39:51	214945.9800	11784.1590	T 147211390.0000	T 73819839.0000	T 9217303.8000	T 9694028.7000	T 211950340.0000	TM 60837195.0000	TM 2628238.5000
5	21:40:31	213343.0700	11374.4240	T 142546540.0000	T 71653936.0000	T 9119726.5000	T 9640275.2000	T 212546290.0000	TM 59120157.0000	TM 2629726.7000
x		214145.2700	11725.0790	T 144863790.0000	T 73119659.0000	T 9233556.2000	TM 9787973.8000	TM 212336390.0000	TM 59651592.0000	TM 2613917.7000
%RSD		0.285	1.947	T 1.472	T 1.617	T 0.929	TM 1.284	TM 0.796	TM 2.193	TM 0.920

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:37:52	421964.4400	424048.8500	63989.7420	110409.1000	T 6610430.4000	100254.4500	TM 112788280.0000	TM 2813570.3000	75533.2720
2	21:38:32	419891.0500	428803.1000	64528.8750	110713.0900	TM 6728951.7000	101575.3000	TM 114179340.0000	TM 2876138.8000	77238.7990
3	21:39:11	428298.1000	436263.2500	65828.9840	109864.4700	T 6800140.6000	102493.9500	T 113822950.0000	TM 2904013.6000	77753.5530
4	21:39:51	424824.3900	426117.9900	63697.5160	110637.0900	T 6719922.6000	101608.2000	T 112590860.0000	TM 2893756.7000	76734.1690
5	21:40:31	429498.8500	429560.6600	63566.5210	108874.1000	T 6660951.1000	100499.8800	T 114012750.0000	TM 2853428.1000	76267.4130
x		424895.3700	428958.7700	64322.3270	110099.5700	TM 6704079.3000	101286.3600	TM 113478840.0000	TM 2868181.5000	76705.4410
%RSD		0.959	1.080	1.430	0.691	TM 1.074	0.901	TM 0.647	TM 1.257	1.120

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:37:52	21216.9750	51966.5280	25368.5550	15016.0170	8064.7338	2767.1260	818.3735	165.8350	623515.0800
2	21:38:32	21472.6290	53161.5300	25636.8740	15346.6180	8053.0559	2901.3383	857.5441	130.0010	627799.5000
3	21:39:11	21823.5390	54875.0840	26236.2350	15031.0440	8336.6679	2842.9849	914.2168	140.8345	629681.3300
4	21:39:51	21612.9910	53747.7720	26020.5610	14990.9720	8194.8607	2878.8305	880.0465	159.1682	631097.6900
5	21:40:31	21159.3290	53083.5350	25258.2210	15476.8590	8150.6507	2730.4472	895.0481	157.5015	642536.6700
x		21457.0930	53366.8900	25704.0890	15172.3020	8159.9938	2824.1454	873.0458	150.6680	630926.0500
%RSD		1.287	1.988	1.627	1.475	1.411	2.586	4.231	9.804	1.124

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:37:52	872392.8200	1539427.2000	1649520.1000	962975.1100	T 2710750.8000	698336.1900	40714.2160	1912.7195	39210.7830
2	21:38:32	874749.1900	1554761.6000	1670701.1000	970942.4400	T 2773989.3000	708636.0800	42439.0400	2007.7418	40326.0860
3	21:39:11	881220.6800	1587361.1000	1718414.0000	982958.8300	T 2803198.2000	713715.8500	42735.5490	2047.7516	40823.4990
4	21:39:51	875851.4400	1575229.7000	1681596.3000	974815.3700	T 2782433.8000	716073.2800	42336.0180	1992.7382	41043.3250
5	21:40:31	880392.0900	1562471.4000	1665349.1000	958358.0800	T 2762268.0000	715863.8900	41719.1690	1900.2166	40014.5900
x		876921.2400	1563850.2000	1677116.1000	970009.9700	T 2766528.0000	710525.0600	41988.7980	1972.2335	40283.6570
%RSD		0.430	1.180	1.540	1.001	T 1.250	1.048	1.912	3.218	1.796

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:37:52	10089.8550	637242.4100	210.0027	25125.3200	5721.9638	10096.1120	1024710.2000	36424.4310	88398.8880
2	21:38:32	10403.9910	643580.2700	267.5043	25373.5700	5874.5699	10331.4000	1043369.0000	37708.8750	89911.1890
3	21:39:11	10648.0490	645619.2900	225.0030	26562.2660	6162.2776	10198.7370	1042132.7000	38261.3850	91461.6750
4	21:39:51	10454.0530	643933.5600	170.0017	25278.2810	5746.9810	10088.6030	1056714.0000	38332.9630	90947.3420
5	21:40:31	10429.0220	653145.7100	205.0025	25596.7510	5887.0787	10301.3630	1067245.5000	37084.8340	91053.4910
x		10404.9940	644704.2500	215.5029	25587.2380	5878.5742	10203.2430	1046834.3000	37562.4970	90354.5170
%RSD		1.930	0.883	16.415	2.233	2.976	1.103	1.539	2.157	1.365

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:37:52	36821.1690	30016.4620	75495.4320	663724.5200	0.0000
2	21:38:32	36856.3230	31409.0800	75974.7580	671814.5700	5.0000
3	21:39:11	36991.9220	31697.6700	76615.5850	666076.5200	7.5000
4	21:39:51	37682.5060	31509.4580	77559.2540	673581.5100	7.5000
5	21:40:31	36617.7750	31740.3320	75460.1140	679921.6500	0.0000
x		36993.9390	31274.6010	76221.0290	671023.7500	4.0000
%RSD		1.102	2.290	1.157	0.955	94.786

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:42:13	227001.9100	┬1654010.1000	┬77079452.0000	┬40109475.0000	┬4979088.8000	┬5173165.1000	┬111644670.0000	┬29522317.0000	1297261.5000
2	21:42:52	228781.2600	┬1669236.7000	┬77708297.0000	┬40221935.0000	┬4956994.9000	┬5216187.4000	┬111177060.0000	┬29648739.0000	1292894.4000
3	21:43:32	228730.7300	┬1687939.4000	┬78847157.0000	┬41458773.0000	┬5048939.4000	┬5246058.6000	┬111513730.0000	┬30091493.0000	1331982.9000
4	21:44:11	229141.8000	┬1668967.9000	┬78389940.0000	┬40741441.0000	┬4951410.7000	┬5197194.0000	┬110887030.0000	┬29811762.0000	1336208.5000
5	21:44:51	230191.8200	┬1623388.3000	┬75421026.0000	┬39463358.0000	┬4881341.5000	┬5004082.5000	┬107740110.0000	┬29189866.0000	1282948.8000
x		228769.5100	┬1660708.5000	┬77489174.0000	┬40398996.0000	┬4963555.1000	┬5167337.5000	┬110592520.0000	┬29652836.0000	1308259.2000
%RSD		0.503	┬1.450	┬1.725	┬1.849	┬1.212	┬1.840	┬1.466	┬1.130	1.849

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:42:13	441410.2000	270.0044	┬7883491.4000	┬7374539.7000	┬3464346.4000	┬9605464.9000	┬57924424.0000	1374076.8000	┬9900389.7000
2	21:42:52	454281.2400	220.0029	┬7955705.6000	┬7324315.6000	┬3501478.6000	┬9530794.0000	┬57777562.0000	1393615.3000	┬9952641.2000
3	21:43:32	451499.7700	170.0017	┬8001027.3000	┬7441477.5000	┬3508363.3000	┬9682549.6000	┬58346049.0000	1402408.7000	┬10056996.0000
4	21:44:11	450094.2100	120.0009	┬8061827.3000	┬7399030.1000	┬3485522.5000	┬9535425.0000	┬57919161.0000	1393809.1000	┬10068519.0000
5	21:44:51	454442.1700	95.0005	┬7776497.8000	┬7276094.4000	┬3423038.1000	┬9272666.4000	┬56522987.0000	1356357.9000	┬9834038.7000
x		450345.5200	175.0021	┬7935709.9000	┬7363091.5000	┬3476549.8000	┬9525380.0000	┬57698037.0000	1384053.6000	┬9962516.8000
%RSD		1.183	40.908	┬1.390	┬0.876	┬0.989	┬1.619	┬1.197	1.347	┬1.012

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:42:13	2161335.0000	┬5040467.5000	┬2375102.5000	1319128.6000	1054267.1000	29462.8250	11482.0710	148.3347	640177.5700
2	21:42:52	┬2154849.4000	┬5049321.9000	┬2399773.8000	1309342.9000	1054133.3000	29288.8800	11545.4920	147.5013	646056.2900
3	21:43:32	2191513.9000	┬5072568.5000	┬2398594.0000	1329099.8000	1065470.0000	29770.5820	11690.6950	131.6677	643995.5800
4	21:44:11	2173824.3000	┬5070727.7000	┬2399652.8000	1316904.5000	1052590.3000	29945.3740	11524.6300	167.5017	644572.7500
5	21:44:51	┬2113340.3000	┬4902052.8000	┬2352291.8000	1273726.7000	1034883.0000	28929.2940	11245.0820	153.3347	653094.4200
x		┬2158972.6000	┬5027027.7000	┬2385083.0000	1309640.5000	1052268.8000	29479.3910	11497.5940	149.6680	645579.3200
%RSD		┬1.347	┬1.416	┬0.886	1.625	1.045	1.358	1.405	8.595	0.732

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:42:13	762.5349	1057.5671	1067.5684	615.0227	1582.6503	726595.7100	603398.3700	75059.0160	583538.6500
2	21:42:52	400.0096	792.5377	812.5396	387.5090	1087.5710	734533.3700	609324.6500	74105.5390	584115.8100
3	21:43:32	380.0087	705.0298	670.0269	332.5066	880.0465	722673.1400	612164.3600	75210.3710	592066.0000
4	21:44:11	317.5061	567.5193	662.5263	220.0029	670.0269	726740.0100	615041.3000	75265.8690	593401.1300
5	21:44:51	330.0065	555.0185	505.0153	242.5035	602.5218	730345.7200	586399.3600	72796.5780	567908.5500
x		438.0132	735.5345	743.5353	359.5090	964.5633	728177.5900	605265.6100	74487.4750	584206.0300
%RSD		42.145	27.921	28.420	43.970	40.887	0.614	1.882	1.418	1.738

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:42:13	1167734.1000	655980.9500	47.5001	┬3314184.9000	674862.9700	1190853.7000	1023025.9000	┬4766053.2000	┬11652579.0000
2	21:42:52	1153378.4000	651269.5700	50.0001	┬3266976.6000	669640.8800	1176394.8000	1033824.6000	┬4750480.9000	┬11630383.0000
3	21:43:32	1159084.7000	652975.6300	42.5001	┬3300560.3000	676227.1800	1186067.8000	1016153.9000	┬4816661.0000	┬11754970.0000
4	21:44:11	1152178.1000	652543.6800	52.5002	┬3259605.4000	672281.3000	1174844.8000	1024963.7000	┬4772596.9000	┬11778678.0000
5	21:44:51	1137308.1000	660454.4100	60.0002	┬3181097.8000	649453.2000	1150283.7000	1024828.5000	┬4680613.3000	┬11408378.0000
x		1153936.7000	654644.8500	50.5002	┬3264485.0000	668493.1000	1175689.0000	1024559.3000	┬4757281.0000	┬11644998.0000
%RSD		0.966	0.562	12.814	┬1.588	1.636	1.334	0.616	┬1.038	┬1.261

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:42:13	┬3804422.8000	┬3401017.1000	┬8318208.2000	682284.8200	7.5000
2	21:42:52	┬3766512.3000	┬3390373.0000	┬8312424.2000	690385.4300	7.5000
3	21:43:32	┬3787346.3000	┬3392906.5000	┬8365989.1000	678168.3000	12.5000
4	21:44:11	┬3761466.9000	┬3380045.6000	┬8291192.3000	687171.6500	5.0000
5	21:44:51	┬3677037.1000	┬3283492.5000	┬8083381.2000	690656.5700	0.0000
x		┬3759357.1000	┬3369566.9000	┬8274239.0000	685733.3500	6.5000
%RSD		┬1.306	┬1.445	┬1.331	0.789	69.869

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:46:34	251966.6700	443.3451	59849.1460	11563.0170	1495.1341	1520.1386	31557.1380	60755.6710	655.0257
2	21:47:13	256684.0800	345.8405	54583.1760	9665.6022	1310.1030	1380.1143	28972.7780	56853.2780	500.0150
3	21:47:53	257652.4500	318.3394	49297.8870	8043.8804	975.0570	1080.0700	22693.3570	53372.8740	470.0133
4	21:48:32	259857.6900	244.1702	43380.1170	6352.4203	830.0413	870.0454	18039.5040	51184.2080	365.0080
5	21:49:12	259020.5600	254.1705	40787.0710	4861.4176	595.0212	695.0290	13571.0410	48558.5650	422.5107
x		257036.2900	321.1732	49579.4790	8097.2674	1041.0713	1109.0795	22966.7640	54144.9190	482.5145
%RSD		1.201	25.084	15.828	32.668	34.846	30.968	32.474	8.838	22.615

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:46:34	474121.9300	42.5001	2012.7430	2477.8683	3500.7352	1717.6770	116131.0900	1062.5677	1857.7070
2	21:47:13	486062.4600	65.0003	1617.6570	2177.7845	3573.2659	1515.1377	116351.6300	1125.0759	1257.5949
3	21:47:53	487744.0700	52.5002	1185.0843	1902.7172	3338.1685	1250.0938	114384.6800	1087.5710	1127.5763
4	21:48:32	487348.1300	45.0001	1020.0624	1765.1869	3168.1021	1090.0713	112359.9100	927.5516	1017.5621
5	21:49:12	492964.4600	70.0003	1382.6147	1835.2021	2935.5169	895.0481	111746.7500	830.0413	847.5431
x		485648.2100	55.0002	1443.6323	2031.7518	3303.1577	1293.6056	114194.8100	1006.5615	1221.5967
%RSD		1.433	22.035	26.921	14.490	7.816	25.377	1.847	12.283	31.607

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:46:34	415.0103	4173.5448	1480.1314	527.5167	310.8391	1179.2501	150.0014	143.3346	687476.5800
2	21:47:13	292.5051	3705.8238	1367.6122	402.5097	269.1710	1215.9220	151.6681	130.8344	699614.5300
3	21:47:53	262.5041	3348.1725	1257.5949	390.0091	208.3359	1169.2487	134.1678	148.3347	705506.5400
4	21:48:32	237.5034	3233.1271	1362.6114	297.5053	178.3352	1227.5904	156.6681	119.1675	718697.9300
5	21:49:12	157.5015	2822.9781	1195.0857	300.0054	168.3350	1164.2480	155.8348	130.0010	715836.6900
x		273.0049	3456.7293	1332.6071	383.5093	227.0033	1191.2518	149.6680	134.3344	705426.4500
%RSD		34.389	14.746	8.257	24.568	26.945	2.406	6.082	8.634	1.794

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:46:34	130.0010	250.0038	170.0017	145.0013	240.0035	805851.7700	501.2651	20.0000	472.5134
2	21:47:13	112.5008	237.5034	212.5027	115.0008	250.0038	823258.6600	391.2592	12.5000	418.7605
3	21:47:53	85.0004	160.0015	147.5013	90.0005	245.0036	829270.6900	413.7603	7.5000	422.5107
4	21:48:32	120.0009	140.0012	97.5006	97.5006	165.0016	835110.4200	523.7665	22.5000	471.2633
5	21:49:12	85.0004	135.0011	115.0008	62.5002	185.0021	841367.8600	251.2538	10.0000	242.5035
x		106.5007	184.5022	148.5014	102.0007	217.0029	826971.8800	416.2610	14.5000	405.5103
%RSD		19.329	29.848	30.643	29.988	18.040	1.643	25.941	44.628	23.346

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:46:34	192.5022	708606.2000	17.5000	2667.9270	125.0009	215.0028	1099125.1000	1703.9242	3895.9105
2	21:47:13	172.5018	716589.9900	35.0001	1802.6950	95.0005	162.5016	1122918.7000	1078.8198	2729.1968
3	21:47:53	128.7510	732290.8000	47.5001	1420.1210	77.5004	137.5011	1125397.0000	940.0530	1988.9873
4	21:48:32	108.7507	737231.7500	10.0000	1100.0726	75.0003	155.0014	1146776.0000	698.7793	1647.6629
5	21:49:12	90.0005	733764.8900	30.0001	1045.0655	75.0003	92.5005	1145853.6000	565.0192	1311.3532
x		138.5012	725696.7200	28.0001	1607.1762	89.5005	152.5015	1128014.1000	997.3191	2314.6221
%RSD		31.065	1.711	52.595	41.408	24.061	29.026	1.738	44.425	44.427

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:46:34	785.0370	670.0269	1820.1988	789982.3200	0.0000
2	21:47:13	690.0286	545.0178	1447.6257	804325.6100	0.0000
3	21:47:53	585.0205	525.0165	1215.0886	816787.1900	0.0000
4	21:48:32	437.5115	395.0094	1030.0637	823879.5000	2.5000
5	21:49:12	355.0076	335.0067	842.5426	828382.2600	2.5000
x		570.5210	494.0155	1271.1039	812671.3700	1.0000
%RSD		30.941	26.707	29.894	1.920	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:50:54	267137.5300	111.6674	34451.0660	2355.3328	190.0022	310.0058	6309.8880	46149.9360	327.5064
2	21:51:34	265677.8000	131.6677	34097.1140	2190.2878	330.0065	305.0056	6207.3110	45423.4610	365.0080
3	21:52:13	268720.5600	116.6675	32919.8950	2170.2826	230.0032	275.0045	6164.7794	45043.9090	242.5035
4	21:52:53	270976.8900	110.8341	32586.0870	1880.2121	210.0027	240.0035	5706.9535	44199.4050	322.5062
5	21:53:33	269229.0900	98.3339	32473.1470	1775.1891	185.0021	225.0030	5394.2453	43337.3960	320.0061
x		268348.3700	113.8341	33305.4620	2074.2609	229.0033	271.0045	5956.6354	44830.8210	315.5061
%RSD		0.755	10.578	2.726	11.530	25.853	14.015	6.554	2.435	14.168

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:50:54	494032.5000	42.5001	827.5411	1482.6319	3363.1785	487.5143	106774.7000	925.0513	430.0111
2	21:51:34	498857.6000	77.5004	770.0356	1475.1305	3218.1213	460.0127	107762.2900	860.0444	320.0061
3	21:52:13	503522.2300	60.0002	585.0205	1310.1030	3250.6339	405.0098	108912.0900	852.5436	285.0049
4	21:52:53	503059.2300	65.0003	525.0165	1502.6355	3215.6203	332.5066	109568.1100	782.5367	235.0033
5	21:53:33	501482.0500	65.0003	840.0423	1352.6098	3428.2050	350.0074	110335.6300	730.0320	262.5041
x		500190.7200	62.0002	709.5312	1424.6221	3295.1518	407.0102	108670.5600	830.0416	306.5059
%RSD		0.779	20.442	20.444	6.110	2.902	16.525	1.306	9.074	24.711

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:50:54	102.5006	2640.4182	1070.0687	417.5105	93.3339	1075.0693	143.3346	138.3345	718197.4200
2	21:51:34	102.5006	2782.9646	1080.0700	440.0116	88.3338	1129.2432	152.5014	167.5017	719448.7600
3	21:52:13	85.0004	2510.3781	1067.5684	397.5095	62.5002	1117.5749	132.5011	141.6679	726740.0100
4	21:52:53	87.5005	2527.8834	1052.5665	387.5090	78.3337	1082.5703	151.6681	135.8344	727006.8500
5	21:53:33	80.0004	2600.4057	1055.0668	437.5115	81.6671	1075.0693	130.8344	160.0015	730070.6100
x		91.5005	2612.4100	1065.0681	416.0104	80.8337	1095.9054	142.1679	148.6680	724292.7300
%RSD		11.364	4.175	1.063	5.631	14.580	2.338	7.210	9.534	0.715

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:50:54	55.0002	82.5004	72.5003	32.5001	75.0003	834490.1600	161.2516	7.5000	141.2512
2	21:51:34	40.0001	92.5005	72.5003	57.5002	95.0005	833878.2100	180.0019	2.5000	157.5015
3	21:52:13	72.5003	57.5002	70.0003	27.5000	97.5006	851191.8700	217.5028	7.5000	256.2539
4	21:52:53	60.0002	60.0002	50.0001	32.5001	100.0006	848571.2400	352.5075	10.0000	365.0080
5	21:53:33	77.5004	77.5004	62.5002	32.5001	80.0004	846288.1500	142.5012	0.0000	112.5008
x		61.0002	74.0003	65.5003	36.5001	89.5005	842883.9300	210.7530	5.5000	206.5031
%RSD		24.350	20.214	14.634	32.705	12.554	0.965	39.836	74.689	50.264

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:50:54	28.7500	726405.1200	170.0017	597.5214	30.0001	32.5001	1133985.2000	322.5062	813.7897
2	21:51:34	33.7501	740075.4900	107.5007	650.0254	40.0001	45.0001	1143335.3000	268.7543	687.5284
3	21:52:13	51.2502	742707.4000	152.5014	522.5164	30.0001	47.5001	1145773.6000	252.5038	616.2728
4	21:52:53	35.0001	739208.3700	170.0017	452.5123	40.0001	50.0001	1146984.5000	208.7526	538.7674
5	21:53:33	31.2501	737586.1400	107.5007	430.0111	10.0000	30.0001	1158672.9000	216.2528	472.5134
x		36.0001	737196.5000	141.5013	530.5173	30.0001	41.0001	1145750.3000	253.7540	625.7743
%RSD		24.601	0.856	22.508	17.638	40.825	22.237	0.772	18.043	21.187

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:50:54	207.5026	232.5032	470.0133	813387.5600	0.0000
2	21:51:34	190.0022	202.5025	420.0106	816813.3200	0.0000
3	21:52:13	177.5019	170.0017	397.5095	824147.9400	0.0000
4	21:52:53	170.0017	132.5011	320.0061	818955.2800	0.0000
5	21:53:33	150.0014	115.0008	277.5046	825192.9100	0.0000
x		179.0019	170.5019	377.0088	819699.4000	0.0000
%RSD		12.039	28.421	20.576	0.606	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:55:15	267226.1400	1540.1423	T 1702273.2000	843508.9300	100927.5000	109413.6000	99229.7970	676286.7300	27522.8760
2	21:55:55	266554.3000	1518.4717	T 1734546.2000	853956.9500	103473.4400	111171.6300	101183.0700	703103.0900	28242.7780
3	21:56:34	267565.9600	1580.9833	T 1766543.0000	871174.7300	106617.7000	111389.5100	101813.1800	701055.9400	28335.5930
4	21:57:14	270865.8700	1628.4924	T 1765127.8000	873206.8200	105402.3900	111379.3800	99131.1330	714289.5100	29123.3010
5	21:57:54	271280.7100	1474.2971	T 1736881.8000	859169.0400	102850.8000	111541.5300	99247.5060	690252.5700	29100.7230
x		268698.5900	1548.4774	T 1741074.4000	860203.2900	103854.3700	110979.1300	100120.9400	696997.5700	28465.0540
%RSD		0.820	3.811	T 1.518	1.434	2.140	0.797	1.276	2.063	2.351

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:55:15	494129.2400	42.5001	32249.7820	13535.9840	31828.1660	8456.7889	602825.2900	12847.3960	8566.9012
2	21:55:55	500996.6200	47.5001	33233.6370	13488.4070	32086.6550	8336.6679	611082.9000	13320.6380	8399.2307
3	21:56:34	504636.7000	55.0002	33311.4460	13881.5520	32608.6750	8584.4193	619571.6200	13227.9900	8687.0255
4	21:57:14	509119.9400	35.0001	33208.5370	13606.0980	32380.2870	8249.0808	616259.0100	13373.2220	8594.4296
5	21:57:54	506422.8200	37.5001	33509.7390	13688.7340	32754.2440	8274.1056	609199.7400	13305.6140	8511.8449
x		503061.0700	43.5001	33102.6280	13640.1550	32331.6050	8380.2125	611787.7100	13214.9720	8551.8864
%RSD		1.153	18.445	1.484	1.134	1.169	1.665	1.060	1.604	1.243

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:55:15	1987.7370	11340.2110	5349.2163	2657.9238	948.3873	2100.2646	620.8565	148.3347	717612.6200
2	21:55:55	2030.2473	11825.8850	5516.8255	2592.9033	946.7204	2204.4582	610.0223	121.6676	724910.5000
3	21:56:34	2157.7793	11527.9680	5594.3772	2637.9175	990.8922	2253.6380	606.6888	128.3343	724583.8400
4	21:57:14	1962.7311	11733.2540	5596.8789	2685.4326	951.7210	2211.1266	570.0195	150.8347	735367.3200
5	21:57:54	2002.7406	11207.5310	5159.0965	2760.4571	967.5562	2156.1122	571.6863	137.5011	732279.9000
x		2028.2471	11526.9700	5443.2789	2666.9269	961.0554	2185.1199	595.8547	137.3345	726950.8400
%RSD		3.768	2.249	3.455	2.334	1.937	2.687	3.931	9.136	0.963

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:55:15	62.5002	77.5004	60.0002	57.5002	67.5003	834823.7200	5465.5417	57.5002	5199.1213
2	21:55:55	37.5001	70.0003	62.5002	50.0001	105.0007	846696.6900	5411.7567	70.0003	5359.2227
3	21:56:34	30.0001	72.5003	50.0001	17.5000	50.0001	843313.0100	5464.2909	70.0003	5381.7372
4	21:57:14	47.5001	30.0001	40.0001	27.5000	70.0003	857516.0900	5705.7026	72.5003	5463.0401
5	21:57:54	37.5001	47.5001	37.5001	40.0001	67.5003	849822.0900	5548.0963	70.0003	5295.4320
x		43.0001	59.5002	50.0002	38.5001	72.0003	846434.3200	5519.0776	68.0003	5339.7107
%RSD		29.186	33.797	22.639	42.233	27.929	0.987	2.087	8.777	1.851

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:55:15	1085.0706	727913.6100	85.0004	5536.8388	5939.6160	9853.3218	1127402.9000	4094.7558	10092.3580
2	21:55:55	963.8057	742104.5800	92.5005	5704.4518	5654.4177	9990.9856	1145882.2000	4223.5700	9992.2371
3	21:56:34	1033.8141	740408.1900	115.0008	5822.0331	5882.0752	10018.5190	1142516.1000	4294.8565	10408.9970
4	21:57:14	1047.5658	754433.8200	87.5005	5892.0823	5726.9672	10136.1610	1157380.4000	4399.9112	10276.3320
5	21:57:54	1038.8147	753163.7900	92.5005	5754.4862	5849.5523	10298.8600	1164193.8000	4179.7980	10161.1910
x		1033.8142	743604.8000	94.5005	5741.9784	5810.5257	10059.5690	1147475.1000	4238.5783	10186.2230
%RSD		4.256	1.454	12.604	2.346	2.012	1.664	1.238	2.730	1.589

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:55:15	3343.1705	2953.0231	7308.2032	806127.9100	0.0000
2	21:55:55	3443.2112	2980.5329	7365.7538	810925.3100	0.0000
3	21:56:34	3305.6555	3180.6069	7475.8518	823553.2400	0.0000
4	21:57:14	3645.7973	2893.0021	7463.3406	823803.7800	0.0000
5	21:57:54	3510.7394	3040.5546	7295.6922	835408.1600	0.0000
x		3449.7148	3009.5439	7381.7683	819963.6800	0.0000
%RSD		3.951	3.634	1.145	1.416	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	21:59:36	247480.1900	544.1844	┬142622.1800	┬1427490.3000	165354.4100	176770.1900	┬34542191.0000	┬1987691.9000	63125.6890
2	22:00:16	246152.5500	532.5170	111962.1100	┬1411262.5000	166960.9700	175876.5700	┬34215346.0000	┬2026382.1000	62722.6630
3	22:00:55	246081.3300	512.5158	112793.2100	┬1451180.0000	166782.4500	174401.0400	┬34502428.0000	┬2011804.9000	64241.6690
4	22:01:35	244628.6500	519.1828	114524.0800	┬1433430.8000	166058.2000	177285.9700	┬34570509.0000	┬2008405.6000	63191.1830
5	22:02:15	244124.1800	562.5190	113403.9100	┬1421525.6000	165986.8000	172170.3700	┬34222582.0000	┬2008825.7000	62307.0630
x		245693.3800	534.1838	┬119061.1000	┬1428977.8000	166228.5600	175300.8300	┬34410611.0000	┬2008622.0000	63117.6530
%RSD		0.544	3.744	┬11.090	┬1.041	0.392	1.177	┬0.513	┬0.688	1.143

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	21:59:36	486220.0100	24716.6000	89091.2020	71591.2030	1011326.1000	1039313.6000	┬18164630.0000	420332.4900	18069.5690
2	22:00:16	491565.3300	25308.3730	89773.4660	72665.4410	1011267.1000	┬1104430.8000	┬18201472.0000	415803.5500	18405.3030
3	22:00:55	500476.7400	24460.8470	91967.1930	72683.0940	1021871.3000	1048759.4000	┬18317345.0000	423105.1500	18816.2190
4	22:01:35	496487.1300	24483.4130	90551.8190	73063.9020	1014583.7000	1044433.3000	┬18236967.0000	419496.9300	18435.3690
5	22:02:15	496654.1600	24686.5110	88702.0840	71659.2840	1002780.0000	1035770.5000	┬18284573.0000	413004.3800	18520.5580
x		494280.6700	24731.1490	90017.1530	72332.5850	1012365.6000	┬1054541.5000	┬18240998.0000	418348.5000	18449.4040
%RSD		1.114	1.386	1.441	0.920	0.680	┬2.686	┬0.337	0.948	1.449

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	21:59:36	11405.3000	23142.0890	10854.5650	15719.8130	2031.9144	1029.2302	158.3348	156.6681	734418.9100
2	22:00:16	11700.7090	22801.1510	11047.3180	16125.5870	2110.2672	1055.0668	173.3351	168.3350	743190.2300
3	22:00:55	11230.0620	23217.2980	11310.1700	16098.0340	2082.7602	1012.5615	195.0023	145.8346	747556.0100
4	22:01:35	11648.1350	23688.6210	11187.5050	16158.1500	2046.9180	995.8928	163.3349	146.6680	741550.9000
5	22:02:15	11129.9280	23317.5770	11052.3240	15832.5260	2023.5790	1048.3993	165.0016	140.8345	737395.3100
x		11422.8270	23233.3470	11090.3760	15986.8220	2059.0878	1028.2301	171.0018	151.6681	740822.2700
%RSD		2.194	1.378	1.540	1.236	1.772	2.392	8.458	7.217	0.689

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	21:59:36	4896.4381	200.0024	1060.0674	97.5006	312.5059	811436.6800	183.7520	35.0001	152.5014
2	22:00:16	4878.9278	195.0023	1057.5671	157.5015	292.5051	827111.0600	181.2520	35.0001	141.2512
3	22:00:55	4971.4825	230.0032	1087.5710	162.5016	270.0044	831640.2800	216.2528	37.5001	181.2520
4	22:01:35	5009.0050	222.5030	1087.5710	107.5007	337.5068	831133.2500	287.5050	45.0001	252.5038
5	22:02:15	4966.4795	197.5023	1147.5790	92.5005	317.5061	830651.0400	186.2521	37.5001	142.5012
x		4944.4666	209.0026	1088.0711	123.5010	306.0057	826394.4600	211.0028	38.0001	174.0019
%RSD		1.107	7.687	3.332	27.369	8.404	1.034	21.354	10.810	26.868

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	21:59:36	93.7505	718978.1200	132.5011	280.0047	22071.6910	39935.4620	1139328.2000	363.7579	842.5426
2	22:00:16	98.7506	727398.9500	160.0015	245.0036	22991.6730	40518.2650	1140595.2000	325.0063	741.2830
3	22:00:55	100.0006	724507.6300	145.0013	300.0054	23402.8150	39975.6540	1141773.9000	306.2556	786.2871
4	22:01:35	76.2503	725830.6600	147.5013	222.5030	22174.4630	40101.2550	1134390.1000	337.5068	842.5426
5	22:02:15	95.0005	730329.3700	120.0009	277.5046	22460.2270	39965.6060	1133754.2000	303.7555	832.5416
x		92.7505	725408.9500	141.0012	265.0043	22620.1740	40099.2480	1137968.3000	327.2565	809.0394
%RSD		10.326	0.579	10.829	11.650	2.497	0.605	0.322	7.541	5.495

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	21:59:36	36524.8690	30698.9420	74680.6390	797231.3100	2.5000
2	22:00:16	37001.9670	31331.2880	76153.8820	807302.6200	0.0000
3	22:00:55	37536.8510	31052.7490	76315.3490	798756.2300	2.5000
4	22:01:35	36886.4560	30310.0220	75851.1400	802765.3900	0.0000
5	22:02:15	36150.7430	30018.9710	74874.8700	803710.2800	0.0000
x		36820.1770	30682.3940	75575.1760	801953.1600	1.0000
%RSD		1.415	1.738	0.992	0.502	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:03:56	243942.3000	7413.2960	119665.5700	┬1479409.6000	167277.2200	179390.2900	┬37271984.0000	┬2090496.7000	64695.1570
2	22:04:36	244249.4300	7281.5132	122087.8200	┬1503195.8000	175008.5800	185445.7000	┬38073796.0000	┬2146081.3000	65322.5220
3	22:05:16	243756.9900	7373.2605	122508.9400	┬1504379.1000	174896.2600	183871.3900	┬38289922.0000	┬2181728.8000	66060.8080
4	22:05:55	245101.4100	7340.7318	┬131461.8400	┬1491290.6000	176525.0700	187183.9200	┬38132579.0000	┬2168195.5000	66436.2750
5	22:06:35	245810.1700	7109.6982	120880.4100	┬1459028.2000	170710.8000	182532.4300	┬37342992.0000	┬2100630.8000	64962.2220
x		244572.0600	7303.6999	┬123320.9200	┬1487460.7000	172883.5900	183684.7500	┬37822255.0000	┬2137426.6000	65495.3970
%RSD		0.353	1.625	┬3.798	┬1.267	2.202	1.614	┬1.262	┬1.892	1.122

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:03:56	495485.0500	27312.1840	406314.7600	193001.9000	1035178.2000	1476056.6000	┬18604024.0000	427724.7500	429131.9000
2	22:04:36	494053.7100	27382.4140	411025.0300	195821.5500	1040078.3000	1509269.8000	┬19003923.0000	432296.8500	438904.1400
3	22:05:16	494760.0700	30076.6790	412825.8500	195714.0700	1058410.4000	1525333.7000	┬18943348.0000	436568.6300	433099.4600
4	22:05:55	501413.0800	27773.7060	410206.1200	193963.8500	1046887.0000	1521489.3000	┬18613091.0000	431652.1900	425773.5400
5	22:06:35	496794.6700	25900.1870	404478.5900	189451.8200	1020590.1000	1465495.8000	┬18104617.0000	423297.0400	418209.5800
x		496501.3200	27689.0340	408970.0700	193590.6400	1040228.8000	1499529.0000	┬18653801.0000	430307.8900	429023.7200
%RSD		0.590	5.460	0.846	1.345	1.348	1.812	┬1.918	1.167	1.812

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:03:56	103435.4700	131900.6700	64390.3090	73116.8630	5677.7669	3296.4852	989.2254	138.3345	740694.5300
2	22:04:36	105194.7900	133127.4500	64589.3410	74317.4140	5721.1299	3278.1446	1111.7408	150.0014	746497.1100
3	22:05:16	106212.5800	136935.9200	63979.6650	74289.6680	5742.8114	3283.9803	1067.5684	151.6681	744799.8600
4	22:05:55	106318.9200	135484.9900	65068.0430	74065.1830	5519.3272	3274.8100	1076.7362	153.3347	750979.2200
5	22:06:35	102377.5300	132685.4800	64284.4970	73318.6250	5589.3738	3140.5917	1047.5658	117.5008	750586.0600
x		104707.8600	134026.9000	64462.3710	73821.5500	5650.0818	3254.8024	1058.5673	142.1679	746711.3500
%RSD		1.664	1.570	0.627	0.764	1.660	1.978	4.269	10.548	0.573

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:03:56	4651.2977	200.0024	1067.5684	110.0007	282.5048	824511.4000	24759.2270	342.5070	24216.3850
2	22:04:36	4553.7439	157.5015	1072.5690	120.0009	332.5066	820167.5000	25817.4310	347.5073	24594.9910
3	22:05:16	4643.7935	152.5014	967.5562	125.0009	337.5068	827708.7600	25970.4050	412.5102	24983.6450
4	22:05:55	4598.7686	207.5026	1067.5684	117.5008	327.5064	831353.6900	26162.2530	362.5079	25096.4830
5	22:06:35	4976.4855	205.0025	1022.5627	125.0009	342.5070	838289.6000	25368.5550	415.0103	24074.7250
x		4684.8178	184.5021	1039.5649	119.5009	324.5064	828406.1900	25615.5740	376.0085	24593.2460
%RSD		3.579	14.701	4.337	5.209	7.438	0.832	2.191	9.375	1.837

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:03:56	5166.6011	725027.5600	170.0017	6449.9952	137970.2700	241100.5300	1113114.8000	20041.5710	47853.2530
2	22:04:36	5149.0903	722629.6000	177.5019	6507.5399	142203.0400	244754.7700	1121759.5000	20576.6230	48854.0340
3	22:05:16	5255.4066	719184.8700	142.5012	6555.0771	141681.7700	250877.8800	1136572.1000	20495.1720	49120.5950
4	22:05:55	5170.3535	739527.3900	170.0017	6680.1764	139627.5300	247161.7800	1147632.8000	20526.4990	49788.2890
5	22:06:35	5060.2859	722262.2000	162.5016	6322.3975	137886.4000	242847.6800	1142872.9000	20035.3060	47693.5910
x		5160.3475	725726.3200	164.5016	6503.0372	139873.8000	245348.5300	1132390.4000	20335.0340	48661.9520
%RSD		1.347	1.101	8.142	2.028	1.444	1.559	1.283	1.339	1.811

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:03:56	41977.9630	34983.2760	87926.4290	788198.4300	0.0000
2	22:04:36	43018.2480	35706.3330	89540.9850	789815.0200	0.0000
3	22:05:16	43219.2850	36549.9790	90223.2850	795772.5200	0.0000
4	22:05:55	43397.7080	35867.0210	89786.1010	800236.1100	2.5000
5	22:06:35	42925.2710	35651.0970	87299.8940	803507.0100	2.5000
x		42907.6950	35751.5410	88955.3390	795505.8200	1.0000
%RSD		1.284	1.566	1.426	0.825	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:08:18	242556.8900	525.0165	124477.7900	τ1433551.6000	167552.6700	176959.1300	τ37894041.0000	τ2054098.1000	64040.1260
2	22:08:58	242901.7200	518.3495	125124.8700	τ1462022.6000	169725.9900	180412.0000	τ38027601.0000	τ2103584.4000	65090.7190
3	22:09:37	244448.4800	521.6830	126383.6600	τ1489503.6000	169282.1000	180979.1000	τ38472214.0000	τ2091031.4000	65398.1120
4	22:10:17	243612.8700	491.6812	125183.2400	τ1448451.2000	168629.0600	181781.2700	τ37980464.0000	τ2126360.6000	64992.4570
5	22:10:57	245763.8300	535.8506	124376.2900	τ1429059.9000	167241.5100	176162.5200	τ37338243.0000	τ2066345.5000	64302.1320
x		243856.7600	518.5161	125109.1700	τ1452517.8000	168486.2600	179258.8000	τ37942513.0000	τ2088284.0000	64764.7090
%RSD		0.529	3.159	0.640	τ1.681	0.637	1.409	τ1.068	τ1.384	0.880

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:08:18	496415.5500	26098.3030	92606.7170	72214.0420	1021389.7000	1081933.4000	τ18106118.0000	418700.8500	18600.7360
2	22:08:58	499280.5900	25631.8590	93987.0420	74239.2210	1019052.9000	1108131.6000	τ18481007.0000	421819.8900	18793.6680
3	22:09:37	493670.7300	26499.5670	93794.8950	73565.7890	1029401.5000	1116680.4000	τ18549849.0000	423575.6700	18773.6230
4	22:10:17	497663.0000	25787.3380	92664.8580	72312.3900	1024501.8000	1107679.5000	τ18301359.0000	418317.2900	18482.9750
5	22:10:57	488490.9700	27643.2730	91638.6030	72816.7530	999386.2800	1088581.4000	τ17970484.0000	411200.9000	18229.9180
x		495104.1700	26332.0680	92938.4230	73029.6390	1018746.4000	1100601.2000	τ18281764.0000	418722.9200	18576.1840
%RSD		0.854	3.055	1.036	1.181	1.128	1.331	τ1.339	1.132	1.249

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:08:18	11715.7300	23986.9730	11220.0480	17798.9880	1994.4053	1055.9002	175.8352	148.3347	742811.0600
2	22:08:58	11492.9200	23904.2360	11230.0620	17894.1920	2045.2510	1039.2315	170.8351	141.6679	758876.3000
3	22:09:37	11725.7440	23859.1070	11603.0720	17480.8160	2062.7553	1078.4031	185.0021	140.0012	748647.8000
4	22:10:17	11322.6870	23613.4080	11350.2240	17681.2380	2027.7467	1005.0606	164.1683	144.1679	746450.7100
5	22:10:57	11540.4850	23533.1820	11240.0750	17087.5010	1993.5718	1057.5671	159.1682	154.1681	744851.7000
x		11559.5130	23779.3810	11328.6960	17588.5470	2024.7460	1047.2325	171.0018	145.6679	748327.5100
%RSD		1.454	0.823	1.431	1.818	1.516	2.613	5.893	3.909	0.838

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:08:18	5091.5550	160.0015	1135.0773	132.5011	282.5048	827372.7200	162.5016	37.5001	128.7510
2	22:08:58	4983.9900	152.5014	1072.5690	100.0006	282.5048	832602.0800	167.5017	47.5001	123.7509
3	22:09:37	5239.1464	177.5019	1072.5690	125.0009	297.5053	828496.5800	215.0028	42.5001	160.0015
4	22:10:17	4941.4647	180.0019	1027.5633	137.5011	275.0045	828204.5800	245.0036	70.0003	193.7523
5	22:10:57	4913.9484	197.5023	955.0547	135.0011	277.5046	819751.9400	208.7526	50.0001	121.2509
x		5034.0209	173.5018	1052.5667	126.0010	283.0048	827285.5800	199.7525	49.5002	145.5013
%RSD		2.644	10.219	6.327	12.118	3.086	0.565	17.322	25.101	21.406

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:08:18	111.2507	725109.2300	160.0015	245.0036	23420.3650	41143.8190	1129979.4000	300.0054	800.0384
2	22:08:58	92.5005	729253.5000	187.5021	252.5038	24307.9010	42005.6020	1136107.2000	315.0060	766.2852
3	22:09:37	93.7505	721410.4500	172.5018	257.5040	23956.8870	42171.4360	1131997.7000	322.5062	751.2839
4	22:10:17	107.5007	735015.7400	165.0016	220.0029	24012.0450	41415.1580	1133526.1000	330.0065	806.2890
5	22:10:57	83.7504	733481.5000	167.5017	180.0019	23367.7170	40912.6850	1125200.4000	318.7561	756.2843
x		97.7506	728854.0800	170.5018	231.0033	23812.9830	41529.7400	1131362.1000	317.2560	776.0362
%RSD		11.629	0.779	6.169	13.830	1.703	1.308	0.363	3.507	3.278

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:08:18	37637.3020	30485.6610	78275.9090	789507.8600	0.0000
2	22:08:58	38674.5350	32518.3230	80512.0620	796534.1300	2.5000
3	22:09:37	39526.0170	32061.5580	80259.6440	799202.3600	2.5000
4	22:10:17	38229.9910	31813.1090	80019.8550	794718.7200	2.5000
5	22:10:57	37785.4710	31511.9680	77955.4250	796436.7000	0.0000
x		38370.6630	31678.1240	79404.5790	795279.9600	1.5000
%RSD		1.988	2.405	1.505	0.453	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:12:39	241198.3000	140.8345	38973.4230	264785.9100	33090.5690	35731.4400	↹7026927.2000	417242.8900	13012.6520
2	22:13:18	239187.4000	140.0012	38383.1930	270278.0700	32854.6380	35224.2880	↹7014012.2000	425847.1600	13187.9270
3	22:13:58	243630.0300	165.0016	38827.7450	268775.6300	33376.7070	35189.1400	↹7113035.8000	432965.2400	12794.8150
4	22:14:38	244474.2200	141.6679	39824.9350	278011.3300	34270.3230	36620.2860	↹7064755.2000	427801.0200	13270.5580
5	22:15:17	241230.8900	152.5014	40113.8150	273459.3700	33733.1380	35148.9710	↹7010833.7000	427659.0000	12947.5510
x		241944.1700	148.0013	39224.6220	271062.0600	33465.0750	35582.8250	↹7045912.8000	426303.0600	13042.7000
%RSD		0.875	7.283	1.838	1.838	1.664	1.761	↹0.613	1.341	1.457

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:12:39	481061.9500	5184.1120	18352.6870	15143.7470	197771.8000	206404.9100	↹3749716.9000	83127.5540	3755.8462
2	22:13:18	483857.0100	5301.6859	18412.8190	15634.6530	202554.6400	210600.4500	↹3787695.6000	86105.0580	3910.9175
3	22:13:58	485036.4400	4946.4676	18272.5110	15466.8400	202152.5600	210592.7600	↹3853884.7000	85168.0030	3795.8643
4	22:14:38	487701.6900	6329.9031	18432.8640	15539.4750	207968.0600	214523.6300	↹3857281.2000	86158.1030	3743.3406
5	22:15:17	486139.2500	5001.5005	18966.5590	15784.9360	202121.8200	207117.2600	↹3792621.9000	85423.0940	3733.3361
x		484759.2700	5352.7338	18487.4880	15513.9300	202513.7800	209847.8000	↹3808240.1000	85196.3620	3787.8609
%RSD		0.517	10.545	1.487	1.539	1.789	1.550	↹1.216	1.447	1.921

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:12:39	2440.3573	6470.0107	3020.5473	3715.8283	430.0111	1045.8990	159.1682	134.1678	726669.2200
2	22:13:18	2322.8237	6555.0771	3298.1525	3615.7843	466.6797	1083.4038	157.5015	158.3348	719424.2700
3	22:13:58	2242.8018	6309.8880	3055.5601	3810.8712	440.0116	1050.0662	164.1683	147.5013	723497.7900
4	22:14:38	2282.8126	6570.0889	3130.5879	4048.4832	448.3454	1030.0637	157.5015	156.6681	725866.0500
5	22:15:17	2305.3188	6272.3597	2923.0126	3800.8666	446.6786	1057.5671	171.6684	138.3345	718891.0700
x		2318.8228	6435.4849	3085.5721	3798.3667	446.3453	1053.3999	162.0016	147.0013	722869.6800
%RSD		3.202	2.142	4.548	4.222	3.015	1.856	3.738	7.311	0.496

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:12:39	1077.5697	65.0003	242.5035	25.0000	70.0003	833258.0400	66.2503	12.5000	72.5003
2	22:13:18	1005.0606	47.5001	210.0027	25.0000	50.0001	830642.7700	83.7504	25.0000	63.7502
3	22:13:58	985.0582	30.0001	220.0029	22.5000	62.5002	836260.0900	71.2503	15.0000	86.2504
4	22:14:38	1122.5756	40.0001	190.0022	40.0001	70.0003	839516.9100	110.0007	7.5000	105.0007
5	22:15:17	970.0565	52.5002	217.5028	32.5001	75.0003	843729.6900	83.7504	15.0000	67.5003
x		1032.0641	47.0001	216.0028	29.0001	65.5003	836681.5000	83.0004	15.0000	79.0004
%RSD		6.325	27.995	8.761	24.836	14.881	0.615	20.418	42.492	21.329

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:12:39	32.5001	735083.8800	55.0002	82.5004	4573.7548	8028.8659	1135539.5000	126.2510	263.7542
2	22:13:18	30.0001	730135.9800	45.0001	75.0003	4766.3627	8314.1454	1126057.9000	100.0006	251.2538
3	22:13:58	37.5001	734713.2300	72.5003	100.0006	4776.3684	8301.6330	1147998.4000	111.2507	237.5034
4	22:14:38	22.5000	736378.5300	57.5002	80.0004	4801.3828	8734.5752	1132964.3000	95.0005	250.0038
5	22:15:17	26.2500	729449.6000	40.0001	95.0005	4561.2480	7928.7701	1134355.9000	96.2506	232.5032
x		29.7501	733152.2400	54.0002	86.5005	4695.8233	8261.5979	1135383.2000	105.7507	247.0037
%RSD		19.346	0.428	23.287	12.194	2.511	3.794	0.701	12.414	4.992

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:12:39	7248.1508	6127.2518	15441.7940	814901.5500	0.0000
2	22:13:18	7380.7671	6169.7831	15511.9240	808269.9900	0.0000
3	22:13:58	7500.8743	6134.7573	15757.3840	821123.9000	0.0000
4	22:14:38	7405.7893	6352.4203	15937.7260	813518.1900	0.0000
5	22:15:17	7428.3093	6267.3559	15151.2610	814358.3600	0.0000
x		7392.7781	6210.3137	15560.0180	814434.4000	0.0000
%RSD		1.250	1.563	1.941	0.562	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:16:59	241357.8200	7111.3663	↹7949955.3000	↹5543143.3000	646787.3600	684644.5700	↹33905171.0000	↹4979739.3000	187127.6800
2	22:17:39	239157.3900	7088.8472	↹8148977.5000	↹5501487.1000	651180.4900	682536.7500	↹34252583.0000	↹5050983.4000	191692.1800
3	22:18:19	240823.5300	7115.5366	↹8238823.9000	↹5612666.8000	658249.8100	697948.1200	↹34507944.0000	↹5086350.8000	194155.7400
4	22:18:58	241962.4800	7218.1247	↹8202524.1000	↹5535512.4000	657412.4200	687560.6000	↹33563363.0000	↹5042555.3000	196271.9600
5	22:19:38	239031.3500	6981.2564	↹8016641.2000	↹5470891.0000	645265.9300	672416.5800	↹33521314.0000	↹4989351.4000	192091.2200
x		240466.5200	7103.0262	↹8111384.4000	↹5532740.1000	651779.2000	685021.3200	↹33950075.0000	↹5029796.0000	192267.7600
%RSD		0.548	1.188	↹1.522	↹0.961	0.912	1.343	↹1.265	↹0.886	1.771

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:16:59	484247.4900	23465.4910	242137.4600	125825.3000	1107363.9000	1050587.1000	↹20155593.0000	455639.9900	57336.5730
2	22:17:39	481300.1300	23946.8580	239423.2000	127013.1200	1124570.8000	1037756.3000	↹20123594.0000	462413.2100	57175.4720
3	22:18:19	488036.7300	24180.0300	241319.2300	126794.8300	1118160.5000	1063012.1000	↹20117980.0000	466549.4700	57009.3390
4	22:18:58	486001.5600	24014.5520	239201.9800	127617.2400	1102142.4000	1063114.0000	↹20209193.0000	462524.1200	57734.3050
5	22:19:38	484581.0600	24305.3940	235254.4600	125513.1500	1112201.5000	1055682.2000	↹20036871.0000	458603.6100	56820.5560
x		484833.3900	23982.4650	239467.2700	126552.7300	1112887.8000	1054030.3000	↹20128646.0000	461146.0800	57215.2490
%RSD		0.511	1.340	1.112	0.686	0.792	0.998	↹0.312	0.904	0.608

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:16:59	19891.2110	64549.0300	31700.1800	26015.5450	6359.9260	6359.9260	2351.9985	150.8347	729054.6800
2	22:17:39	20064.1250	65199.0610	30593.5550	26655.0610	6310.7219	6331.5711	2383.6742	154.1681	735397.3000
3	22:18:19	19833.5740	64307.1710	31158.1410	26326.5200	6346.5825	6591.7727	2338.6614	155.8348	732282.6300
4	22:18:58	20222.0060	64402.9060	31509.4580	26780.4630	6362.4279	6578.4289	2334.4936	147.5013	724858.7800
5	22:19:38	20151.8360	63989.7420	30829.4220	26075.7330	6166.4473	6414.9682	2359.5007	128.3343	725024.8400
x		20032.5510	64489.5820	31158.1510	26370.6640	6309.2211	6455.3334	2353.6657	147.3346	729323.6500
%RSD		0.830	0.692	1.474	1.291	1.307	1.894	0.831	7.529	0.629

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:16:59	4781.3713	162.5016	985.0582	105.0007	232.5032	804458.8500	25032.5410	397.5095	23481.7870
2	22:17:39	4726.3399	220.0029	1027.5633	120.0009	290.0051	806546.9400	24875.8230	342.5070	24073.4720
3	22:18:19	4848.9103	152.5014	1022.5627	117.5008	225.0030	799468.6800	25664.4590	340.0069	24657.6760
4	22:18:58	4956.4736	175.0018	1065.0681	110.0007	247.5037	796152.6300	25610.5440	392.5092	24643.8850
5	22:19:38	4711.3314	157.5015	1197.5860	85.0004	315.0060	806948.1300	25047.5860	347.5073	23860.3600
x		4804.8853	173.5018	1059.5677	107.5007	262.0042	802715.0500	25246.1910	364.0080	24143.4360
%RSD		2.091	15.739	7.757	12.948	14.835	0.588	1.442	7.825	2.110

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:16:59	5015.2587	702804.4100	122.5009	25087.7070	48928.2180	86706.2440	1099636.4000	19302.3290	45873.4160
2	22:17:39	5051.5306	711122.6000	150.0014	26537.1860	49416.0840	87403.4710	1121526.0000	19619.3180	47909.8260
3	22:18:19	5042.7753	707101.0500	340.0069	25777.3070	50527.7200	88083.0700	1097756.1000	19722.0600	47853.2530
4	22:18:58	4980.2377	721445.8300	137.5011	25493.9370	49971.8830	88889.0610	1097727.7000	19728.3250	47824.3370
5	22:19:38	4973.9840	713142.2200	145.0013	25233.1450	48965.9380	86956.3290	1104219.8000	19476.4830	46822.4220
x		5012.7573	711123.2200	179.0023	25625.8560	49561.9690	87607.6350	1104173.2000	19569.7030	47256.6510
%RSD		0.703	0.984	50.615	2.237	1.383	1.012	0.911	0.925	1.895

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:16:59	50112.7250	42864.9610	106159.4100	770356.3400	0.0000
2	22:17:39	50562.9330	43777.1850	106901.3000	778584.6200	2.5000
3	22:18:19	51652.0820	43636.4500	108387.8200	779710.4300	2.5000
4	22:18:58	51118.8090	42900.1420	106640.4900	768577.8300	5.0000
5	22:19:38	50809.4250	43990.8060	105936.6000	778844.8300	0.0000
x		50851.1950	43433.9090	106805.1300	775214.8100	2.0000
%RSD		1.140	1.195	0.902	0.684	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:21:20	241447.0200	530.8502	184065.6000	↹1657456.4000	193664.5100	200411.2500	↹34115405.0000	↹1952515.4000	85357.4260
2	22:22:00	241410.1400	569.1861	188904.6000	↹1668154.2000	196745.4300	208916.3400	↹34617395.0000	↹2005311.9000	86039.3850
3	22:22:39	244943.5300	542.5177	↹198320.3000	↹1681870.6000	196791.5000	205728.4900	↹34815052.0000	↹2028291.8000	86125.2660
4	22:23:19	243528.8000	544.1844	189254.9200	↹1695200.6000	194590.7100	204283.5900	↹34199126.0000	↹2012772.4000	85680.7180
5	22:23:59	245306.4800	527.5167	182494.1000	↹1636519.7000	190364.7700	199643.1400	↹33501929.0000	↹1948326.8000	82036.8250
x		243327.1900	542.8510	↹188607.9100	↹1667840.3000	194431.3800	203796.5600	↹34249781.0000	↹1989443.7000	85047.9240
%RSD		0.763	3.019	↹3.277	↹1.352	1.363	1.883	↹1.485	↹1.840	2.012

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:21:20	482708.1700	24972.3610	84536.6230	73459.8600	970631.6800	835708.6700	↹17492059.0000	401040.7800	17884.1700
2	22:22:00	488189.0200	26399.2490	84604.8090	73492.6470	972068.0200	850860.4500	↹17854822.0000	402876.2000	17525.9100
3	22:22:39	483552.5800	25922.7570	85496.3390	72418.3030	↹1041001.1000	847632.5300	↹17671876.0000	409988.2900	18042.0100
4	22:23:19	489844.5600	25892.6630	86112.6360	73480.0370	↹1031238.4000	828719.7100	↹17560297.0000	403432.1600	17463.2790
5	22:23:59	485575.2500	25546.5980	83864.8860	71122.2130	948178.9600	820690.4100	↹17359414.0000	390832.5100	17480.8160
x		485973.9200	25746.7260	84923.0590	72794.6120	↹992623.6300	836722.3600	↹17587694.0000	401633.9900	17679.2370
%RSD		0.622	2.053	1.039	1.431	↹4.127	1.513	↹1.065	1.723	1.505

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:21:20	12789.8070	25549.1050	12466.8180	19615.5590	1853.5394	963.3890	160.8349	141.6679	727616.7900
2	22:22:00	12609.5330	26108.3350	12571.9760	19545.3940	1950.2282	1000.8934	183.3354	137.5011	728041.6000
3	22:22:39	12634.5710	26421.8200	12707.1810	19788.4670	1949.3946	962.5556	170.8351	148.3347	731944.8000
4	22:23:19	12454.3000	26454.4240	12321.6030	19678.2070	1831.8680	990.0588	160.0015	150.8347	735737.9900
5	22:23:59	12301.5730	25338.4640	12121.3090	18936.4910	1906.0513	986.7251	180.0019	141.6679	734767.7400
x		12557.9570	25974.4300	12437.7770	19512.8240	1898.2163	980.7244	171.0018	144.0013	731621.7800
%RSD		1.483	1.957	1.820	1.713	2.859	1.737	6.254	3.782	0.511

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:21:20	5089.0534	177.5019	992.5591	90.0005	262.5041	808256.2500	121.2509	50.0001	103.7507
2	22:22:00	5106.5641	150.0014	1057.5671	107.5007	255.0039	805024.7800	142.5012	35.0001	113.7508
3	22:22:39	4918.9513	185.0021	1052.5665	105.0007	230.0032	810117.0900	160.0015	50.0001	115.0008
4	22:23:19	4728.8413	167.5017	997.5597	147.5013	235.0033	827452.6000	186.2521	62.5002	165.0016
5	22:23:59	4758.8584	135.0011	907.5494	110.0007	250.0038	816188.8600	111.2507	42.5001	115.0008
x		4920.4537	163.0016	1001.5604	112.0008	246.5037	813407.9200	144.2513	48.0001	122.5009
%RSD		3.606	12.526	6.047	19.032	5.537	1.087	20.893	21.284	19.773

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:21:20	88.7505	708182.3400	140.0012	135.0011	20389.9140	36331.5270	1091254.4000	272.5045	657.5259
2	22:22:00	91.2505	710752.9700	170.0017	147.5013	20432.5190	35688.7580	1099858.0000	276.2546	712.5305
3	22:22:39	87.5005	705482.0900	150.0014	147.5013	21099.1770	35932.3010	1116432.8000	275.0045	686.2783
4	22:23:19	71.2503	716502.9600	157.5015	157.5015	20455.0740	35892.1290	1109143.9000	248.7537	697.5292
5	22:23:59	83.7504	717014.2600	132.5011	145.0013	20222.0060	35071.1440	1112525.9000	273.7545	690.0286
x		84.5004	711586.9200	150.0014	146.5013	20519.7380	35783.1720	1105843.0000	269.2544	688.7785
%RSD		9.332	0.714	9.790	5.477	1.640	1.289	0.923	4.288	2.927

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:21:20	34769.8860	27976.8840	70517.1030	775824.1100	0.0000
2	22:22:00	35015.9130	27813.8390	71792.9270	777797.1800	2.5000
3	22:22:39	34478.6800	28355.6610	71366.7900	779944.6500	2.5000
4	22:23:19	33667.8740	28604.0070	71818.1430	788212.1400	2.5000
5	22:23:59	33371.6870	27974.3750	68994.4360	789088.2700	0.0000
x		34260.8080	28144.9530	70897.8800	782173.2700	1.5000
%RSD		2.074	1.154	1.674	0.780	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:25:39	240696.6100	907.5494	232419.0400	↹2662420.4000	310836.0000	329804.6300	↹48918607.0000	↹3410269.0000	103999.9300
2	22:26:19	241244.6100	905.8826	↹252890.8900	↹2759328.4000	320730.5500	337540.3100	↹49701574.0000	↹3467674.2000	105513.7900
3	22:26:58	240278.9800	873.3791	239168.5400	↹2752663.4000	323437.2100	338232.5500	↹49817495.0000	↹3489291.9000	105865.7100
4	22:27:38	241215.4500	915.8837	242024.2400	↹2822452.5000	321530.5100	344751.7000	↹49839644.0000	↹3517568.0000	104784.6700
5	22:28:18	241664.8600	884.2136	241447.8800	↹2810016.1000	321161.6900	340903.1300	↹50377841.0000	↹3432574.2000	109317.3400
x		241020.1000	897.3817	↹241590.1200	↹2761376.1000	319539.1900	338246.4600	↹49731032.0000	↹3463475.5000	105896.2900
%RSD		0.223	1.984	↹3.055	↹2.288	1.557	1.627	↹1.054	↹1.242	1.929

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:25:39	484402.3600	32581.0670	117657.2700	99047.6490	1732354.3000	1043592.0000	↹30626096.0000	699828.9600	30540.8620
2	22:26:19	485199.2700	29602.4850	118559.9300	99293.0430	1755468.3000	1049815.9000	↹30802193.0000	726459.5700	31158.1410
3	22:26:58	489705.4800	29783.1270	119761.9400	100186.1400	1766054.7000	1064987.1000	↹31261643.0000	722515.2900	30844.4770
4	22:27:38	487868.5500	32121.7890	120827.1500	100596.0300	1769259.9000	1067655.9000	↹31249587.0000	726298.9400	31918.5110
5	22:28:18	485105.2800	31793.0320	121212.6900	101471.5500	1764978.4000	1072678.7000	↹31660406.0000	726271.7100	31090.3890
x		486456.1900	31176.3000	119603.7900	100118.8800	1757623.1000	1059745.9000	↹31119985.0000	720274.9000	31110.4760
%RSD		0.462	4.440	1.253	0.985	0.855	1.172	↹1.319	1.603	1.648

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:25:39	27884.0730	26692.6820	12807.3340	22550.4700	3130.5879	940.8865	150.0014	136.6678	720537.0200
2	22:26:19	27976.8840	26910.8820	12872.4340	22916.4670	3323.1625	915.0502	160.8349	147.5013	739142.9300
3	22:26:58	28503.6640	27179.2510	13045.2030	22989.1660	3230.6261	972.5568	166.6683	126.6676	728921.2300
4	22:27:38	27964.3420	27608.1570	13310.6220	23247.3810	3347.3388	1018.3956	170.0017	148.3347	748694.2000
5	22:28:18	28087.2540	27016.2220	13370.7180	23480.5340	3255.6358	1013.3949	167.5017	152.5014	729280.7400
x		28083.2430	27081.4390	13081.2620	23036.8040	3257.4702	972.0568	163.0016	142.3346	733315.2200
%RSD		0.876	1.268	1.935	1.526	2.624	4.623	4.912	7.399	1.477

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:25:39	8384.2156	210.0027	1605.1546	142.5012	297.5053	790610.4000	136.2511	67.5003	98.7506
2	22:26:19	8116.4507	157.5015	1770.1880	102.5006	375.0084	802102.1000	147.5013	77.5004	111.2507
3	22:26:58	8143.9775	270.0044	1640.1614	137.5011	362.5079	802851.9100	150.0014	92.5005	113.7508
4	22:27:38	8284.1155	232.5032	1647.6629	115.0008	390.0091	804684.1200	197.5023	77.5004	132.5011
5	22:28:18	8076.4118	240.0035	1620.1575	130.0010	327.5064	803637.4900	180.0019	90.0005	156.2515
x		8201.0342	222.0030	1656.6649	125.5010	350.5074	800777.2000	162.2516	81.0004	122.5009
%RSD		1.571	18.901	3.961	13.169	10.716	0.720	15.717	12.651	18.282

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:25:39	98.7506	706258.9400	172.5018	142.5012	24676.4820	44048.6100	1095135.0000	350.0074	801.2885
2	22:26:19	90.0005	701786.2300	170.0017	157.5015	25361.0320	43450.4820	1102500.4000	318.7561	833.7917
3	22:26:58	91.2505	713574.4800	112.5008	195.0023	25441.2760	44737.2640	1099994.4000	342.5070	746.2834
4	22:27:38	107.5007	705471.2300	155.0014	140.0012	25453.8150	43817.3960	1085299.3000	350.0074	793.7878
5	22:28:18	92.5005	716413.2200	147.5013	165.0016	25561.6440	44993.6390	1109360.1000	347.5073	803.7888
x		96.0006	708700.8200	151.5014	160.0016	25298.8500	44209.4780	1098457.8000	341.7570	795.7880
%RSD		7.559	0.857	15.939	13.844	1.404	1.452	0.816	3.868	3.970

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:25:39	35141.4390	28405.8310	71588.6810	767091.0000	0.0000
2	22:26:19	35962.4310	29870.9410	73906.2810	766541.2000	0.0000
3	22:26:58	36768.4370	29783.1270	73510.3020	766435.8900	0.0000
4	22:27:38	36371.7010	29773.0910	74736.1330	773230.0900	5.0000
5	22:28:18	36532.4020	29602.4850	75434.8870	778835.2400	2.5000
x		36155.2820	29487.0950	73835.2570	770426.6900	1.5000
%RSD		1.766	2.076	1.978	0.713	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:29:59	239957.4100	510.8490	99123.5430	┬1662406.9000	192272.8300	202449.6400	┬38125871.0000	┬1808117.6000	112162.2800
2	22:30:38	241373.2600	552.5183	98943.9270	┬1660644.0000	193551.9400	209505.8700	┬37420218.0000	┬1816100.1000	113728.2900
3	22:31:18	243288.6000	555.0185	103562.0300	┬1687738.7000	197006.4900	204442.4100	┬38176362.0000	┬1840595.0000	112947.7800
4	22:31:57	244024.6600	487.5143	102175.0700	┬1664507.8000	194769.8300	199653.3800	┬37529229.0000	┬1831364.8000	113107.4200
5	22:32:37	240278.9800	536.6840	99128.6030	┬1651419.3000	188400.8900	204370.6900	┬37390418.0000	┬1821434.5000	108942.4800
x		241784.5800	528.5168	100586.6300	┬1665343.3000	193200.3900	204084.4000	┬37728420.0000	┬1823522.4000	112177.6500
%RSD		0.747	5.466	2.129	┬0.809	1.656	1.765	┬1.033	┬0.699	1.687

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:29:59	483376.5400	36072.9070	94421.9160	72274.5630	968851.2700	┬1978940.8000	┬17622879.0000	402351.7600	20156.8480
2	22:30:38	483733.9100	36339.0590	95665.9850	73084.0780	978121.1700	1942248.8000	┬17643286.0000	407555.7100	20166.8730
3	22:31:18	492576.2300	36015.1580	94778.4290	72337.6070	978908.5800	┬1994770.4000	┬17606009.0000	408484.5700	19780.9490
4	22:31:57	484386.4700	36341.5700	94543.2810	71553.3800	982440.1800	┬1990532.3000	┬17669293.0000	407518.9800	20397.4330
5	22:32:37	486458.3400	35046.0390	93784.7820	70501.9750	958970.3700	┬1971320.8000	┬17417505.0000	401942.7100	19943.8370
x		486106.3000	35962.9470	94638.8790	71950.3210	973458.3100	┬1975562.6000	┬17591795.0000	405570.7500	20089.1880
%RSD		0.783	1.485	0.721	1.354	0.979	┬1.053	┬0.570	0.777	1.172

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:29:59	10496.6070	43116.2530	20465.0980	53944.0340	1816.0312	992.5591	162.5016	153.3347	725653.7000
2	22:30:38	11117.4110	42483.0130	20184.4150	55063.8220	1762.6864	1019.2290	176.6685	139.1678	742674.6700
3	22:31:18	10328.8970	42995.6320	20643.0360	53531.3860	1778.5231	923.3845	167.5017	145.0013	746336.1000
4	22:31:57	10741.9190	42834.8070	20329.7680	53991.8420	1825.1999	1014.2284	188.3355	147.5013	743517.5900
5	22:32:37	10276.3320	41387.5210	20014.0050	52766.5310	1784.3577	1012.5615	170.0017	153.3347	744647.0700
x		10592.2330	42563.4450	20327.2640	53859.5230	1793.3596	992.3925	173.0018	147.6680	740565.8200
%RSD		3.258	1.643	1.198	1.547	1.467	4.020	5.766	4.058	1.141

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:29:59	5196.6198	390.0091	1290.0999	202.5025	537.5173	800704.2800	182.5020	45.0001	137.5011
2	22:30:38	4846.4089	335.0067	1235.0915	225.0030	525.0165	806310.6300	200.0024	65.0003	162.5016
3	22:31:18	4656.3005	302.5055	1047.5658	200.0024	535.0172	818087.1500	198.7524	47.5001	166.2517
4	22:31:57	4546.2398	285.0049	1322.6049	195.0023	505.0153	810246.2900	222.5030	45.0001	178.7519
5	22:32:37	4616.2782	310.0058	1230.0908	222.5030	525.0165	819798.7200	202.5025	42.5001	161.2516
x		4772.3694	324.5064	1225.0906	209.0026	525.5166	811029.4200	201.2524	49.0001	161.2516
%RSD		5.489	12.570	8.694	6.584	2.435	0.987	7.082	18.607	9.286

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:29:59	208.7526	713019.8900	272.5045	450.0122	37868.3460	67688.7940	1115465.1000	345.0071	853.7937
2	22:30:38	213.7527	719530.3700	325.0063	402.5097	38481.1430	67630.8270	1108925.0000	368.7582	900.0486
3	22:31:18	223.7530	717172.0000	332.5066	447.5120	38644.3960	67988.7210	1122411.7000	402.5097	971.3066
4	22:31:57	240.0035	710562.7300	345.0071	427.5110	37943.6870	66778.9980	1124123.5000	376.2585	845.0428
5	22:32:37	228.7531	712949.2100	292.5051	480.0138	38315.3820	66269.9590	1112597.0000	342.5070	865.0449
x		223.0030	714646.8400	313.5059	441.5117	38250.5910	67271.4600	1116704.5000	367.0081	887.0473
%RSD		5.543	0.507	9.580	6.513	0.880	1.068	0.578	6.720	5.810

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:29:59	210777.3300	166425.4100	418679.8300	781570.6700	0.0000
2	22:30:38	211061.9000	166823.2500	425781.4300	789027.9400	0.0000
3	22:31:18	207591.3400	167948.0100	419255.2100	793235.6600	0.0000
4	22:31:57	208324.2900	170149.5000	426396.7200	792127.3100	5.0000
5	22:32:37	206799.5100	164260.5900	422148.4200	790614.5200	0.0000
x		208910.8800	167121.3500	422452.3200	789315.2200	1.0000
%RSD		0.916	1.291	0.847	0.584	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:34:18	240696.6100	412.5102	77175.7180	1191146.5000	144303.6900	151194.2500	↹28064542.0000	↹1379405.5000	90743.8920
2	22:34:57	240868.1200	424.1775	80512.0620	1205134.9000	145733.2400	153847.1500	↹28926858.0000	↹1397853.1000	92252.8240
3	22:35:37	241392.9900	432.5112	80325.2720	1199542.7000	145300.7900	151912.1300	↹28608468.0000	↹1391105.5000	92096.1050
4	22:36:17	241589.3900	405.8432	77367.4840	1179971.5000	144171.4300	155150.9900	↹28163527.0000	↹1401787.0000	90665.5460
5	22:36:58	242443.6700	419.1772	78518.1720	↹1249974.7000	143672.9300	153383.7200	↹27722809.0000	↹1393371.7000	90640.2730
x		241398.1500	418.8439	78779.7420	↹1205154.0000	144636.4200	153097.6500	↹28297241.0000	↹1392704.5000	91279.7280
%RSD		0.286	2.460	2.010	↹2.223	0.589	1.027	↹1.672	↹0.610	0.898

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:34:18	484796.8400	27297.1350	68510.4680	52693.5720	727213.7900	1403789.9000	↹13124648.0000	299504.6700	13828.9650
2	22:34:57	480307.7600	27858.9900	69647.3340	52769.0470	732914.7400	1400096.5000	↹13191539.0000	305467.8700	13513.4480
3	22:35:37	487060.7900	27618.1900	70733.9290	53959.1320	733040.0800	1419803.3000	↹13306106.0000	304936.4300	13633.6430
4	22:36:17	486300.7800	27623.2070	69508.6830	53513.7740	715450.5500	1425587.3000	↹13153167.0000	298310.4600	14334.8190
5	22:36:58	486222.6600	27673.3730	70875.1210	53971.7130	715192.2300	1409990.1000	↹13116971.0000	301968.7500	13403.2700
x		484937.7700	27614.1790	69855.1070	53381.4470	724762.2800	1411853.4000	↹13178486.0000	302037.6400	13742.8290
%RSD		0.560	0.733	1.392	1.165	1.233	0.758	↹0.585	1.053	2.668

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:34:18	7813.6615	33394.2770	16123.0820	55698.0160	1481.7984	988.3919	159.1682	172.5018	733933.8400
2	22:34:57	7878.7227	33743.1780	16083.0050	56302.0550	1515.1377	998.3931	177.5019	147.5013	720066.3300
3	22:35:37	7818.6662	34599.1770	16115.5680	56543.6830	1550.1442	1021.7293	165.0016	143.3346	732636.8200
4	22:36:17	7545.9149	33311.4460	15992.8320	55403.5630	1474.2971	974.2236	191.6689	135.0011	739928.2400
5	22:36:58	7818.6662	33863.6650	16543.9060	55159.4520	1487.6328	940.0530	161.6682	137.5011	735773.4300
x		7775.1263	33782.3490	16171.6780	55821.3540	1501.8020	984.5582	171.0018	147.1680	732467.7300
%RSD		1.684	1.515	1.326	1.052	2.072	3.079	7.914	10.182	1.018

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:34:18	3520.7436	222.5030	895.0481	170.0017	332.5066	812610.7300	160.0015	32.5001	126.2510
2	22:34:57	3145.5936	250.0038	860.0444	135.0011	377.5086	800871.7900	153.7514	55.0002	137.5011
3	22:35:37	3398.1927	280.0047	877.5462	142.5012	395.0094	809987.8900	127.5010	35.0001	103.7507
4	22:36:17	3443.2112	275.0045	830.0413	140.0012	407.5100	809130.2700	177.5019	55.0002	172.5018
5	22:36:58	3218.1213	232.5032	800.0384	122.5009	375.0084	819749.1900	167.5017	50.0001	155.0014
x		3345.1725	252.0038	852.5437	142.0012	377.5086	810469.9700	157.2515	45.5001	139.0012
%RSD		4.708	10.054	4.448	12.286	7.536	0.839	11.982	24.076	18.985

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:34:18	217.5028	702557.3200	235.0033	247.5037	27058.8600	47814.2800	1103438.2000	243.7536	688.7785
2	22:34:57	233.7533	706669.1200	202.5025	197.5023	27312.1840	47902.2830	1103870.2000	252.5038	668.7768
3	22:35:37	213.7527	703654.3300	235.0033	270.0044	27613.1740	48875.4090	1111223.0000	235.0033	672.5271
4	22:36:17	215.0028	723233.7900	270.0044	267.5043	27314.6920	47686.0480	1108299.3000	305.0056	682.5280
5	22:36:58	193.7523	704534.2200	285.0049	245.0036	26793.0030	47241.0240	1130706.3000	245.0036	675.0273
x		214.7528	708129.7600	245.5037	245.5037	27218.3820	47903.8090	1111507.4000	256.2540	677.5275
%RSD		6.629	1.211	13.246	11.863	1.133	1.252	1.008	10.908	1.189

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:34:18	99657.3530	80539.8280	201704.3900	772991.9400	2.5000
2	22:34:57	99680.1230	80736.7200	202692.9500	772257.0100	0.0000
3	22:35:37	99330.9910	81428.4010	201947.6800	782039.2200	0.0000
4	22:36:17	100980.6400	80135.9630	204158.0700	795631.1800	2.5000
5	22:36:58	99637.1130	80716.5250	202605.8700	784308.3300	2.5000
x		99857.2440	80711.4870	202621.7900	781445.5400	1.5000
%RSD		0.645	0.580	0.472	1.224	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:38:39	241495.9000	492.5146	97810.6670	τ1440023.4000	168021.9800	175151.5400	τ33601379.0000	τ1734250.9000	75180.1000
2	22:39:18	242380.2000	493.3479	98893.3320	τ1451952.7000	169394.3400	177045.9500	τ34241502.0000	τ1773297.6000	77705.6080
3	22:39:58	240788.3700	462.5128	100674.4700	τ1485398.4000	169899.4700	179931.7800	τ34149476.0000	τ1807302.8000	77624.8610
4	22:40:38	242429.9500	468.3465	98526.5260	τ1431740.4000	168052.5800	176571.0300	τ34101837.0000	τ1793998.6000	78364.2330
5	22:41:17	244193.6700	466.6797	96535.9310	τ1433937.9000	166828.3500	175192.3900	τ33778270.0000	τ1728369.0000	77054.6050
x		242257.6200	476.6803	98488.1850	τ1448610.6000	168439.3500	176778.5400	τ33974493.0000	τ1767443.8000	77185.8820
%RSD		0.527	3.145	1.541	τ1.520	0.725	1.103	τ0.800	τ1.992	1.572

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:38:39	483866.2700	25320.9110	85450.8760	67923.1900	850109.2800	1113848.8000	τ15420353.0000	351114.2600	14605.2880
2	22:39:18	483110.5100	25702.0750	85352.3750	68407.1240	854263.6200	1101750.2000	τ15655116.0000	359852.9400	15008.5030
3	22:39:58	485493.1700	26033.1000	86360.1780	70048.1730	875377.8400	1131262.2000	τ15704646.0000	358162.4000	15058.5930
4	22:40:38	486217.3700	26888.3090	85910.5670	68754.9690	863100.8900	1107031.2000	τ15603481.0000	358720.6500	14743.0300
5	22:41:17	489531.9700	25032.5410	83895.1890	66738.6770	839641.0300	1098656.4000	τ15502598.0000	354427.6900	14257.1860
x		485643.8600	25795.3870	85393.8370	68374.4270	856498.5300	1110509.8000	τ15577239.0000	356455.5900	14734.5200
%RSD		0.515	2.787	1.088	1.765	1.577	1.166	τ0.740	1.014	2.211

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:38:39	8992.3491	26138.4290	12466.8180	32139.3570	1660.1654	954.2213	151.6681	132.5011	730351.1600
2	22:39:18	9605.5328	26384.2020	12516.8930	32759.2640	1762.6864	942.5533	155.8348	141.6679	732348.0200
3	22:39:58	9700.6429	25905.2020	12727.2110	32864.6780	1768.5210	941.7199	165.8350	155.0014	730961.3400
4	22:40:38	9305.1923	26268.8380	12409.2320	32535.8910	1731.8466	994.2260	175.8352	144.1679	723372.5900
5	22:41:17	9470.3782	25646.9050	12541.9310	31873.3380	1692.6719	997.5597	183.3354	127.5010	729811.8500
x		9414.8191	26068.7150	12532.4170	32434.5060	1723.1782	966.0560	166.5017	140.1679	729368.9900
%RSD		2.965	1.133	0.959	1.292	2.690	2.868	7.972	7.630	0.478

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:38:39	3090.5730	205.0025	740.0329	122.5009	380.0087	800413.2200	122.5009	30.0001	130.0010
2	22:39:18	3060.5619	245.0036	770.0356	115.0008	335.0067	812278.0200	141.2512	35.0001	112.5008
3	22:39:58	3148.0945	265.0042	820.0404	157.5015	322.5062	808632.7800	138.7512	27.5000	122.5009
4	22:40:38	2998.0392	202.5025	797.5382	165.0016	327.5064	809886.1800	152.5014	22.5000	146.2513
5	22:41:17	3068.0647	210.0027	662.5263	117.5008	357.5077	799356.1100	131.2510	45.0001	110.0007
x		3073.0667	225.5031	758.0347	135.5011	344.5072	806113.2600	137.2511	32.0001	124.2509
%RSD		1.763	12.405	8.077	17.571	6.949	0.725	8.182	26.723	11.810

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:38:39	136.2511	701674.9200	187.5021	387.5090	24190.0590	40935.2960	1108762.9000	263.7542	671.2770
2	22:39:18	127.5010	703483.2600	190.0022	465.0130	23886.6850	42083.4940	1111584.2000	261.2541	712.5305
3	22:39:58	165.0016	717327.0300	182.5020	442.5118	24701.5560	42276.9690	1099429.1000	311.2558	656.2758
4	22:40:38	175.0018	706718.0200	165.0016	397.5095	24197.5800	41226.7270	1107036.9000	273.7545	728.7819
5	22:41:17	128.7510	710595.3400	190.0022	387.5090	23585.8300	41678.9680	1110122.2000	278.7547	667.5267
x		146.5013	707959.7100	183.0020	416.0104	24112.3420	41640.2910	1107387.1000	277.7547	687.2784
%RSD		15.016	0.881	5.748	8.558	1.721	1.354	0.429	7.218	4.582

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:38:39	47200.7970	38651.9310	96940.5880	777484.9700	0.0000
2	22:39:18	47620.6760	39644.0750	98855.3860	783838.2900	2.5000
3	22:39:58	47286.2800	40259.5150	100264.5700	784227.4800	2.5000
4	22:40:38	47366.7350	40101.2550	96933.0010	782107.7200	0.0000
5	22:41:17	46813.6230	39222.0860	96222.3350	780015.8800	7.5000
x		47257.6220	39575.7720	97843.1760	781534.8700	2.5000
%RSD		0.621	1.660	1.707	0.360	122.475

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:42:58	241038.7900	365.8414	151408.0800	1107002.8000	135558.6700	143530.5100	↹25784576.0000	1186070.7000	65405.6710
2	22:43:38	243830.7700	332.5066	154493.9500	1117944.2000	138247.3100	145606.0500	↹25657775.0000	1205623.6000	65954.9750
3	22:44:18	241498.4800	354.1742	154122.1600	1105103.8000	138592.9800	144344.3800	↹25939857.0000	↹1257414.6000	67227.5830
4	22:44:57	241923.0300	370.0082	153424.4600	1092639.5000	135995.7100	144008.6500	↹25948237.0000	↹1257198.2000	65677.7980
5	22:45:37	245061.0800	355.8409	152408.5700	↹1163233.2000	132911.5400	141943.6700	↹25856827.0000	1216603.3000	65037.8080
x		242670.4300	355.6743	153171.4500	↹1117184.7000	136261.2400	143886.6500	↹25837454.0000	↹1224582.1000	65860.7670
%RSD		0.703	4.093	0.826	↹2.440	1.688	0.925	↹0.467	↹2.598	1.269

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:42:58	473977.8100	21422.5000	65695.4370	49539.3120	693292.5400	1026121.6000	↹12627065.0000	285943.0600	13756.3450
2	22:43:38	477274.4600	22269.7170	66219.5610	50547.8420	697229.0000	1040306.8000	↹12814980.0000	287477.0000	13909.0980
3	22:44:18	480789.3700	22532.9230	66796.6390	50683.6630	709334.4100	1033658.3000	↹12764327.0000	291534.3700	14312.2800
4	22:44:57	480502.2500	21948.8670	65826.4650	51199.3000	706718.0200	1037031.3000	↹12907344.0000	292862.2300	13869.0310
5	22:45:37	484371.9100	21181.8860	65377.9550	49056.4680	697201.8600	1020950.5000	↹12613928.0000	291166.8500	13603.5940
x		479383.1600	21871.1790	65983.2110	50205.3170	700755.1700	1031613.7000	↹12745529.0000	289796.7000	13890.0700
%RSD		0.820	2.586	0.827	1.753	0.983	0.771	↹0.982	1.014	1.901

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:42:58	7718.5729	18322.6210	8491.8245	24403.1790	1559.3125	894.2146	159.1682	145.0013	712671.9300
2	22:43:38	7683.5406	17881.6650	8236.5685	24897.1370	1567.6474	948.3873	177.5019	140.0012	723799.9100
3	22:44:18	7641.0015	17555.9730	8669.5073	24729.1370	1597.6531	1030.0637	159.1682	138.3345	726816.2500
4	22:44:57	7453.3316	17931.7720	8386.7181	24596.2450	1590.9852	1000.0600	174.1685	137.5011	730893.2400
5	22:45:37	7455.8339	17666.2060	8446.7787	24375.5980	1522.6391	935.8859	173.3351	136.6678	728512.7200
x		7590.4561	17871.6470	8446.2794	24600.2590	1567.6475	961.7223	168.6684	139.5012	724538.8100
%RSD		1.674	1.653	1.867	0.895	1.898	5.586	5.224	2.375	0.983

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:42:58	3343.1705	250.0038	772.5358	117.5008	430.0111	808132.5800	106.2507	42.5001	106.2507
2	22:43:38	3335.6675	225.0030	822.5406	140.0012	377.5086	806228.2000	136.2511	30.0001	112.5008
3	22:44:18	3458.2174	222.5030	742.5331	142.5012	337.5068	813677.6900	126.2510	35.0001	108.7507
4	22:44:57	3538.2510	240.0035	827.5411	140.0012	342.5070	821298.6800	161.2516	37.5001	133.7511
5	22:45:37	3250.6339	220.0029	942.5533	157.5015	325.0063	813856.4500	125.0009	22.5000	112.5008
x		3385.1880	231.5032	821.5408	139.5012	362.5080	812638.7200	131.0011	33.5001	114.7508
%RSD		3.338	5.591	9.295	10.248	11.714	0.725	15.333	22.758	9.540

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:42:58	83.7504	704265.3500	160.0015	95.0005	18969.0650	33123.1980	1114790.7000	232.5032	607.5221
2	22:43:38	76.2503	715023.6400	187.5021	157.5015	19730.8310	33128.2180	1107543.0000	235.0033	603.7719
3	22:44:18	91.2505	712057.6000	212.5027	165.0016	19613.0530	33753.2190	1121457.6000	251.2538	561.2689
4	22:44:57	78.7504	714186.2000	180.0019	157.5015	19056.7650	33532.3300	1118937.7000	263.7542	586.2706
5	22:45:37	85.0004	707454.2200	1410.1193	162.5016	18736.0390	32892.2860	1133146.8000	268.7543	608.7722
x		83.0004	710597.4000	430.0255	147.5014	19221.1500	33285.8500	1119175.2000	250.2538	593.5212
%RSD		7.032	0.647	127.483	20.019	2.237	1.047	0.842	6.545	3.397

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:42:58	31168.1790	26572.2980	64143.4160	782514.6400	0.0000
2	22:43:38	31311.2130	26188.5860	64904.2730	787145.5500	0.0000
3	22:44:18	31303.6850	26951.0110	65753.3910	787284.0100	0.0000
4	22:44:57	31710.2180	26777.9550	66290.1180	787005.7200	2.5000
5	22:45:37	31564.6670	26178.5550	64085.4730	792291.9000	0.0000
x		31411.5920	26533.6810	65035.3340	787248.3700	0.5000
%RSD		0.700	1.306	1.500	0.440	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:47:18	221049.2200	τ1609104.2000	τ73327428.0000	τ38852304.0000	τ4732462.7000	τ4957686.8000	τ106476280.0000	τ28327082.0000	1250019.4000
2	22:47:58	222864.1100	τ1622535.4000	τ75408692.0000	τ39060802.0000	τ4859126.2000	τ5109878.3000	τ107598820.0000	τ29020235.0000	1259329.9000
3	22:48:37	225767.3800	τ1644456.2000	τ76292257.0000	τ40094165.0000	τ4975252.7000	τ5174974.0000	τ108858480.0000	τ28745215.0000	1295812.3000
4	22:49:17	224214.6300	τ1642298.9000	τ76692085.0000	τ40637869.0000	τ5031677.1000	τ5153633.9000	τ109518080.0000	τ29669542.0000	1330682.6000
5	22:49:57	221688.3700	τ1637984.3000	τ76815734.0000	τ39805204.0000	τ4925140.8000	τ5114889.4000	τ109281580.0000	τ29202165.0000	1309738.4000
x		223116.7400	τ1631275.8000	τ75707239.0000	τ39690069.0000	τ4904731.9000	τ5102212.5000	τ108346650.0000	τ28992848.0000	1289116.5000
%RSD		0.857	τ0.924	τ1.902	τ1.857	τ2.353	τ1.670	τ1.182	τ1.731	2.635

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:47:18	429384.4200	65.0003	τ7724939.2000	τ7118225.7000	τ3367734.8000	τ9298375.3000	τ55424552.0000	1322436.5000	τ9527046.7000
2	22:47:58	443013.2400	80.0004	τ7824260.6000	τ7203023.7000	τ3439558.6000	τ9443759.8000	τ56684530.0000	1373356.3000	τ9702832.5000
3	22:48:37	442218.9300	50.0001	τ7811089.3000	τ7309287.1000	τ3424477.2000	τ9516550.3000	τ57524777.0000	1362595.8000	τ9831002.6000
4	22:49:17	449584.0000	55.0002	τ7961271.9000	τ7306745.5000	τ3502282.8000	τ9608397.9000	τ57800818.0000	1382590.2000	τ9921361.4000
5	22:49:57	444600.7800	57.5002	τ7827949.2000	τ7375603.3000	τ3432631.6000	τ9440055.0000	τ57190927.0000	1360867.0000	τ9850996.7000
x		441760.2700	61.5002	τ7829902.1000	τ7262577.0000	τ3433337.0000	τ9461427.6000	τ56925121.0000	1360369.2000	τ9766648.0000
%RSD		1.695	18.980	τ1.081	τ1.399	τ1.395	τ1.205	τ1.645	1.687	τ1.592

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:47:18	2048240.9000	τ4889121.1000	τ2319905.9000	1259882.3000	1009921.8000	28134.0780	11140.7750	131.6677	637646.6400
2	22:47:58	2082957.6000	τ4966361.3000	τ2338148.5000	1275621.3000	1033207.1000	28749.5070	11367.7480	155.0014	647294.5600
3	22:48:37	2129611.8000	τ5011165.8000	τ2362456.8000	1309081.1000	1049627.5000	29368.3260	11384.4380	152.5014	634418.6900
4	22:49:17	2119636.0000	τ5050250.0000	τ2381410.3000	1301871.8000	1052910.6000	29530.5640	11390.2790	162.5016	642547.4500
5	22:49:57	2134805.7000	τ4929315.9000	τ2338451.0000	1297424.1000	1052650.6000	29443.5900	11328.5280	122.5009	645948.3800
x		2103050.4000	τ4969242.8000	τ2348074.5000	1288776.1000	1039663.5000	29045.2130	11322.3540	144.8346	641571.1500
%RSD		1.747	τ1.286	τ1.022	1.584	1.780	2.049	0.921	11.689	0.852

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:47:18	165.0016	222.5030	300.0054	112.5008	282.5048	709695.8200	579447.4500	71757.6250	557364.9300
2	22:47:58	162.5016	232.5032	305.0056	100.0006	297.5053	719261.0500	596223.5400	73729.7280	575011.7000
3	22:48:37	217.5028	190.0022	317.5061	90.0005	267.5043	715999.8600	605241.3400	75586.2490	582134.0900
4	22:49:17	157.5015	197.5023	242.5035	72.5003	287.5050	725016.6700	612450.5300	74302.2800	589202.0700
5	22:49:57	162.5016	207.5026	275.0045	92.5005	232.5032	717177.4400	595744.8100	74816.8530	574666.5700
x		173.0018	210.0027	288.0050	93.5005	273.5045	717430.1700	597821.5300	74038.5470	575675.8700
%RSD		14.465	8.333	10.333	15.659	9.268	0.772	2.072	1.954	2.058

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:47:18	1122122.6000	637414.8800	205.0025	τ3219314.8000	647205.5300	1141699.7000	1011478.0000	τ4711351.2000	τ11525948.0000
2	22:47:58	1140141.4000	644348.8900	220.0029	τ3278155.0000	650945.6700	1168501.4000	1030675.5000	τ4793439.6000	τ11779209.0000
3	22:48:37	1140078.6000	644888.3200	195.0023	τ3299248.0000	673526.0300	1185626.1000	1009678.1000	τ4787090.4000	τ11862891.0000
4	22:49:17	1161249.9000	655637.9700	175.0018	τ3347736.1000	662954.1800	1184607.9000	1021485.5000	τ4832640.0000	τ11911686.0000
5	22:49:57	1145960.7000	660784.0700	160.0015	τ3263687.9000	665592.5500	1192768.3000	1012181.2000	τ4754159.5000	τ11639887.0000
x		1141910.6000	648614.8200	191.0022	τ3281628.4000	660044.7900	1174640.7000	1017099.7000	τ4775736.1000	τ11743924.0000
%RSD		1.229	1.452	12.473	τ1.437	1.640	1.740	0.872	τ0.953	τ1.359

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:47:18	τ3718140.6000	τ3299115.5000	τ8127857.0000	676091.8300	2.5000
2	22:47:58	τ3738727.7000	τ3360569.6000	τ8298072.0000	681442.4000	0.0000
3	22:48:37	τ3793344.2000	τ3412681.6000	τ8298952.2000	682588.2200	2.5000
4	22:49:17	τ3794490.9000	τ3439001.4000	τ8422715.5000	679500.5400	7.5000
5	22:49:57	τ3794949.6000	τ3386467.3000	τ8193061.8000	681760.6700	12.5000
x		τ3767930.6000	τ3379567.1000	τ8268131.7000	680276.7300	5.0000
%RSD		τ0.976	τ1.587	τ1.366	0.382	100.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:51:40	247308.5300	369.1748	53410.6150	6262.3521	660.0261	830.0413	19658.1590	50185.6620	475.0135
2	22:52:20	251502.9700	306.6723	47786.6220	4651.2977	575.0198	610.0223	16040.4230	47952.5710	430.0111
3	22:52:59	254812.0900	248.3370	43769.6460	3750.8439	470.0133	490.0144	14011.7700	46338.4780	392.5092
4	22:53:39	258217.0300	243.3369	41583.4930	3335.6675	425.0108	470.0133	12076.2440	44996.1520	307.5057
5	22:54:19	255718.3900	155.0014	38255.1060	3130.5879	375.0084	360.0078	10368.9470	43877.7120	327.5064
x		253511.8000	264.5045	44961.0960	4226.1498	501.0157	552.0198	14431.1090	46670.1150	386.5092
%RSD		1.664	30.147	13.025	30.270	23.057	32.418	25.017	5.326	18.057

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:51:40	472078.1600	32.5001	1685.1704	2215.2944	3070.5656	1605.1546	109631.4300	1005.0606	1352.6098
2	22:52:20	484009.2200	42.5001	1147.5790	1907.7183	3200.6145	1132.5770	109715.0200	975.0570	1057.5671
3	22:52:59	489222.0400	30.0001	825.0408	1855.2065	2978.0320	950.0542	108709.4700	917.5505	822.5406
4	22:53:39	497501.2600	27.5000	785.0370	1752.6843	2955.5240	902.5489	109157.7700	922.5511	732.5322
5	22:54:19	496772.1400	25.0000	1022.5627	1577.6493	2995.5383	767.5354	107962.3500	827.5411	747.5335
x		487916.5600	31.5001	1093.0780	1861.7106	3040.0549	1071.5740	109035.2100	929.5521	942.5566
%RSD		2.145	21.443	33.151	12.590	3.276	30.390	0.663	7.291	27.965

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:51:40	312.5059	4088.5027	1485.1323	672.5271	283.3382	1249.2603	130.0010	120.8342	689219.6000
2	22:52:20	282.5048	3545.7542	1410.1193	517.5161	239.1701	1200.0864	150.8347	138.3345	692427.3500
3	22:52:59	210.0027	3353.1745	1165.0814	460.0127	177.5019	1251.7607	153.3347	139.1678	706525.1500
4	22:53:39	217.5028	3235.6280	1167.5818	460.0127	140.8345	1157.5804	161.6682	148.3347	713955.1000
5	22:54:19	157.5015	2812.9747	1137.5776	405.0098	142.5012	1185.9177	129.1677	143.3346	714667.4500
x		236.0035	3407.2068	1273.0985	503.0157	196.6692	1208.9211	145.0013	138.0012	703358.9300
%RSD		26.116	13.679	12.720	20.431	31.893	3.387	10.094	7.525	1.697

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:51:40	22.5000	40.0001	10.0000	5.0000	2.5000	801852.1800	451.2622	10.0000	383.7588
2	22:52:20	22.5000	45.0001	15.0000	17.5000	10.0000	819130.0100	362.5079	20.0000	375.0084
3	22:52:59	17.5000	10.0000	10.0000	15.0000	15.0000	815435.1600	336.2568	15.0000	325.0063
4	22:53:39	15.0000	22.5000	5.0000	7.5000	10.0000	827769.3600	377.5086	10.0000	381.2587
5	22:54:19	10.0000	22.5000	12.5000	5.0000	15.0000	840269.9300	193.7523	12.5000	207.5026
x		17.5000	28.0001	10.5000	10.0000	10.5000	820891.3300	344.2575	13.5000	334.5070
%RSD		30.305	51.057	35.315	58.630	48.795	1.742	27.406	30.987	22.407

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:51:40	170.0017	704602.1100	30.0001	2455.3617	115.0008	167.5017	1094172.5000	1427.6223	3602.0283
2	22:52:20	121.2509	718050.5400	20.0000	1762.6864	92.5005	110.0007	1107105.1000	1063.8179	2421.6018
3	22:52:59	106.2507	719179.4300	27.5000	1350.1094	62.5002	115.0008	1115263.1000	758.7845	1751.4340
4	22:53:39	113.7508	726900.6600	27.5000	1087.5710	57.5002	82.5004	1125616.3000	568.7694	1423.8716
5	22:54:19	75.0003	736405.7900	17.5000	882.5467	55.0002	107.5007	1129668.7000	468.7632	1168.8320
x		117.2509	721027.7100	24.5000	1507.6550	76.5004	116.5009	1114365.1000	857.5515	2073.5535
%RSD		29.288	1.631	22.122	41.359	34.322	26.743	1.286	45.606	47.016

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:51:40	677.5275	565.0192	1540.1423	793692.4900	2.5000
2	22:52:20	485.0141	470.0133	1207.5875	798161.8800	2.5000
3	22:52:59	457.5126	445.0119	1050.0662	806277.6600	0.0000
4	22:53:39	362.5079	352.5075	932.5522	813526.4400	2.5000
5	22:54:19	345.0071	282.5048	750.0338	825026.3100	2.5000
x		465.5139	423.0113	1096.0764	807336.9500	2.0000
%RSD		28.524	25.781	27.303	1.545	55.902

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	22:56:02	245871.9500	613.3559	119632.6000	τ1576341.6000	182190.0600	190876.2700	τ37103674.0000	τ1893111.4000	49798.3490
2	22:56:41	245501.2600	616.6895	117025.9800	τ1585638.8000	177142.9800	190758.6200	τ37065256.0000	τ1918459.3000	50007.0940
3	22:57:21	245602.5100	635.8576	118286.0800	τ1558834.0000	181152.8100	194104.5700	τ37249710.0000	τ1897019.9000	50759.1200
4	22:58:01	244794.2400	577.5200	118529.5000	τ1579601.7000	180692.9900	193905.0000	τ37407479.0000	τ1914219.8000	51405.5640
5	22:58:40	244576.3100	605.0220	115015.7800	τ1563035.8000	181193.6800	190487.5300	τ37331810.0000	τ1892882.2000	49974.3980
x		245269.2500	609.6890	117697.9900	τ1572690.4000	180474.5000	192026.4000	τ37231586.0000	τ1903138.5000	50388.9050
%RSD		0.226	3.483	1.497	τ0.721	1.075	0.944	τ0.392	τ0.644	1.345

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	22:56:02	487611.6500	21763.3820	91845.8660	75450.0230	1038924.2000	545156.9700	τ18828626.0000	427390.7500	15143.7470
2	22:56:41	487658.0000	22364.9710	93370.1650	76489.4340	1060621.9000	557149.9900	τ18895068.0000	431912.6800	15486.8770
3	22:57:21	493613.7500	22427.6390	93997.1550	76774.5380	1061894.7000	561265.3500	τ19316497.0000	439596.7600	15562.0170
4	22:58:01	491377.2100	22487.8010	93552.1900	76802.2920	1068691.9000	563517.4800	τ19241662.0000	442739.2400	15371.6640
5	22:58:40	495736.8800	23189.7210	93059.2160	75608.9540	1061925.8000	555177.1300	τ19205705.0000	433981.0900	15759.8880
x		491199.5000	22446.7030	93164.9180	76225.0480	1058411.7000	556453.3900	τ19097512.0000	435124.1000	15464.8390
%RSD		0.733	2.258	0.871	0.852	1.072	1.280	τ1.152	1.405	1.477

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	22:56:02	11820.8780	21680.6660	10258.8110	9170.0426	1691.8384	1041.7318	155.0014	144.1679	727733.8800
2	22:56:41	12046.2000	21139.2780	10341.4130	8957.3114	1798.5274	1053.3999	169.1684	164.1683	738633.0600
3	22:57:21	12088.7620	21407.4610	10446.5440	9382.7792	1813.5306	1102.5729	170.0017	135.0011	739028.4100
4	22:58:01	12351.6470	21793.4600	10414.0030	9405.3046	1805.1955	1070.0687	170.8351	155.8348	744944.4600
5	22:58:40	11713.2260	20760.8290	10176.2100	8844.6912	1862.7082	1074.2359	162.5016	153.3347	750678.8800
x		12004.1430	21356.3390	10327.3960	9152.0258	1794.3600	1068.4018	165.5017	150.5014	740203.7400
%RSD		2.074	1.960	1.077	2.732	3.490	2.165	4.069	7.456	1.153

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	22:56:02	5584.3705	177.5019	1145.0787	85.0004	280.0047	812126.7900	198.7524	47.5001	125.0009
2	22:56:41	5994.6554	157.5015	1107.5736	72.5003	270.0044	816183.3600	158.7515	55.0002	145.0013
3	22:57:21	5857.0576	145.0013	1012.5615	97.5006	247.5037	824558.2000	167.5017	47.5001	161.2516
4	22:58:01	5942.1178	142.5012	1182.5839	87.5005	237.5034	825265.8800	261.2541	45.0001	210.0027
5	22:58:40	5812.0261	145.0013	1152.5797	90.0005	260.0041	825219.0700	171.2518	47.5001	133.7511
x		5838.0455	153.5014	1120.0755	86.5005	259.0040	820670.6600	191.5023	48.5001	155.0015
%RSD		2.718	9.539	5.872	10.540	6.568	0.746	21.808	7.817	21.677

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	22:56:02	82.5004	713115.0400	125.0009	615.0227	20099.2090	35282.0320	1113336.7000	513.7658	1283.8489
2	22:56:41	77.5004	709024.6400	120.0009	620.0231	20359.8410	34892.8980	1109650.1000	483.7640	1166.3316
3	22:57:21	55.0002	722126.1300	135.0011	542.5177	20532.7650	36246.1560	1116819.8000	463.7629	1085.0706
4	22:58:01	62.5002	722020.0000	130.0010	475.0135	20382.3960	35939.8340	1117258.2000	435.0114	1058.8173
5	22:58:40	75.0003	726865.2600	130.0010	412.5102	20542.7890	34882.8560	1142767.3000	412.5102	932.5522
x		70.5003	718630.2200	128.0010	533.0174	20383.4000	35448.7550	1119966.4000	461.7629	1105.3241
%RSD		16.134	1.018	4.454	16.851	0.881	1.747	1.171	8.618	11.797

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	22:56:02	16791.9010	13508.4400	33713.0570	789949.4100	0.0000
2	22:56:41	16844.5070	13626.1310	34217.6070	783862.9600	5.0000
3	22:57:21	16694.2050	13683.7250	35128.8870	800012.3200	0.0000
4	22:58:01	17092.5110	13648.6680	34129.7480	793151.9800	0.0000
5	22:58:40	16959.7400	13846.4940	34124.7270	795458.2900	2.5000
x		16876.5730	13662.6920	34262.8050	792486.9900	1.5000
%RSD		0.913	0.893	1.524	0.764	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:00:22	245148.6000	700.0294	170167.3600	T1985972.6000	225094.5400	241854.4100	T52726151.0000	T2489010.3000	51833.2010
2	23:01:02	240838.1100	691.6954	174347.4400	T1971097.2000	229368.7500	239760.1800	T53808199.0000	T2545371.5000	52698.6030
3	23:01:42	246956.6600	687.5284	174212.1600	T1996598.0000	234781.4000	247697.3300	T54261330.0000	T2564302.9000	53141.4020
4	23:02:21	242146.8900	722.5313	176571.0300	T2040330.9000	235763.5500	247022.7400	T53807319.0000	T2577517.9000	53020.6360
5	23:03:01	246192.0300	679.1943	T183742.8300	T1971725.0000	229749.0100	238684.9700	T53019377.0000	T2506592.2000	52748.9200
x		244256.4600	696.1958	T175808.1600	T1993144.7000	230951.4500	243003.9300	T53524475.0000	T2536559.0000	52688.5530
%RSD		1.083	2.374	T2.845	T1.427	1.888	1.705	T1.180	T1.486	0.973

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:00:22	488228.7500	32724.1260	119330.8200	97441.3780	1191232.6000	513149.9600	T21376456.0000	492209.2200	16453.7270
2	23:01:02	497114.1500	32884.7570	120550.6900	98319.0970	1217786.4000	520907.2400	T21837351.0000	499372.0800	17052.4290
3	23:01:42	493408.3600	33118.1780	120697.7900	100446.7500	1236107.8000	530446.6800	T22034445.0000	509593.8900	16882.0830
4	23:02:21	493619.0500	32816.9900	122059.9200	98268.5060	1222586.4000	521340.6200	T22147286.0000	503038.0100	16889.5980
5	23:03:01	499662.4900	32653.8510	119736.5800	98845.2670	1205206.8000	518315.3800	T21724257.0000	495013.2100	16436.1930
x		494406.5600	32839.5810	120475.1600	98664.1990	1214584.0000	520831.9800	T21823959.0000	499845.2800	16742.8060
%RSD		0.874	0.545	0.873	1.131	1.409	1.207	T1.373	1.368	1.674

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:00:22	14234.6470	24663.9450	11785.8280	9865.8366	1638.4944	950.8876	184.1687	149.1680	753117.3600
2	23:01:02	14389.9130	25368.5550	12183.9000	9918.3990	1645.1624	1016.7287	178.3352	156.6681	744177.8000
3	23:01:42	14585.2530	25774.7990	12118.8060	10291.3510	1691.0049	1028.3968	166.6683	159.1682	743201.1400
4	23:02:21	14572.7310	24774.2710	11958.5740	10000.9980	1628.4924	997.5597	171.6684	139.1678	749764.2900
5	23:03:01	14585.2530	24794.3310	12071.2370	10013.5130	1620.1575	1038.3980	163.3349	149.1680	755357.1000
x		14473.5590	25075.1800	12023.6690	10018.0190	1644.6623	1006.3942	172.8351	150.6680	749123.5400
%RSD		1.086	1.906	1.300	1.641	1.678	3.433	4.912	5.194	0.715

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:00:22	7465.8428	157.5015	1367.6122	72.5003	247.5037	807113.0100	147.5013	87.5005	93.7505
2	23:01:02	7470.8473	192.5022	1392.6164	112.5008	262.5041	815886.2700	157.5015	42.5001	117.5008
3	23:01:42	7590.9558	165.0016	1370.1126	127.5010	260.0041	819531.7800	165.0016	55.0002	121.2509
4	23:02:21	7210.6182	135.0011	1460.1279	122.5009	195.0023	819377.6800	225.0030	57.5002	132.5011
5	23:03:01	7833.6803	135.0011	1525.1396	65.0003	227.5031	815644.2100	182.5020	57.5002	136.2511
x		7514.3889	157.0015	1423.1217	100.0006	238.5035	815510.5900	175.5019	60.0002	120.2509
%RSD		3.008	15.249	4.792	29.155	11.734	0.619	17.371	27.639	13.896

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:00:22	63.7502	726753.6300	195.0023	295.0052	26258.8060	45976.4810	1120002.5000	495.0147	1202.5868
2	23:01:02	56.2502	716500.2400	165.0016	332.5066	26722.7780	46645.1820	1121013.4000	461.2628	1101.3228
3	23:01:42	48.7501	716587.2700	205.0025	330.0065	26913.3900	48558.5650	1125784.4000	471.2633	1123.8258
4	23:02:21	47.5001	719718.0900	215.0028	255.0039	27061.3680	47776.5650	1136535.0000	485.0141	1096.3221
5	23:03:01	42.5001	726666.5000	177.5019	255.0039	26780.4630	47374.2780	1121329.5000	468.7632	1101.3228
x		51.7502	721245.1500	191.5022	293.5052	26747.3610	47266.2140	1124933.0000	476.2636	1125.0760
%RSD		16.077	0.715	10.590	12.997	1.132	2.113	0.609	2.845	3.966

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:00:22	15644.6720	12264.0180	31983.7600	785278.6400	2.5000
2	23:01:02	16080.5000	12779.7920	32796.9110	784009.5900	2.5000
3	23:01:42	16080.5000	12704.6770	32899.8160	790067.3400	0.0000
4	23:02:21	15684.7470	12612.0370	32390.3260	796046.9700	2.5000
5	23:03:01	15329.0860	12829.8690	32829.5400	793387.9400	2.5000
x		15763.9010	12638.0780	32580.0710	789758.0900	2.0000
%RSD		2.031	1.778	1.192	0.652	55.902

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:04:43	243334.9200	807.5391	241545.6500	┬2430546.5000	282090.0200	302896.5200	┬68586777.0000	┬3186428.2000	52047.0280
2	23:05:23	246704.3500	838.3755	247527.3900	┬2486788.4000	290268.8200	309710.2300	┬69912388.0000	┬3280028.3000	52577.8440
3	23:06:03	243164.2100	885.0470	250759.3900	┬2549260.6000	289523.5600	308859.5100	┬70013836.0000	┬3290277.0000	53868.5480
4	23:06:42	245105.7000	865.0449	252212.2700	┬2505382.7000	291454.1300	308112.6100	┬69814797.0000	┬3302524.4000	53013.0890
5	23:07:22	244220.2600	824.2074	242116.8700	┬2433806.6000	280332.1700	298688.6500	┬67976819.0000	┬3211852.5000	52273.4380
x		244505.8900	844.0428	246832.3100	┬2481157.0000	286733.7400	305653.5100	┬69260923.0000	┬3254222.1000	52755.9890
%RSD		0.594	3.690	1.975	┬2.021	1.788	1.542	┬1.331	┬1.589	1.364

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:04:43	491232.8100	43410.2730	160541.6600	123201.5300	1865412.2000	507539.0000	┬33386767.0000	766310.0800	21224.4940
2	23:05:23	496199.4800	45584.3360	160426.9900	124490.4800	┬1974682.7000	511404.9300	┬33300634.0000	772206.3800	21703.2250
3	23:06:03	496195.5100	46263.0610	163918.9600	127833.0100	1926635.1000	520766.3300	┬33804855.0000	775009.5500	22024.0650
4	23:06:42	498320.6100	45159.5320	161973.9800	126645.0800	┬1987055.4000	516577.2900	┬33610667.0000	770498.6400	21911.2680
5	23:07:22	495514.2100	47223.4250	159012.7700	122100.5100	┬1944167.0000	507523.0700	┬33154473.0000	752101.4700	21520.2510
x		495492.5200	45528.1250	161174.8700	124854.1200	┬1939590.5000	512762.1200	┬33451479.0000	767225.2200	21676.6610
%RSD		0.526	3.114	1.153	1.901	┬2.469	1.134	┬0.770	1.176	1.469

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:04:43	18345.1710	28757.0330	13859.0150	10686.8480	2941.3523	1014.2284	159.1682	151.6681	741395.4400
2	23:05:23	18843.7810	29379.1970	14006.7610	10759.4410	2986.3683	1045.8990	183.3354	160.0015	738793.9200
3	23:06:03	19044.2360	29577.3960	14177.0490	10291.3510	3035.5528	1001.7269	184.1687	141.6679	748961.7100
4	23:06:42	18392.7750	29002.8820	14144.4940	10581.7140	3053.8928	1078.4031	190.0022	160.8349	747163.0000
5	23:07:22	18249.9620	28827.2750	13864.0230	10333.9030	2988.8692	1077.5697	200.0024	137.5011	752770.5300
x		18575.1850	29108.7570	14010.2680	10530.6520	3001.2071	1043.5654	183.3354	150.3347	745816.9200
%RSD		1.873	1.223	1.071	1.988	1.482	3.383	8.213	7.018	0.761

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:04:43	10408.9970	212.5027	2087.7615	157.5015	350.0074	803780.3300	167.5017	107.5007	113.7508
2	23:05:23	10541.6630	197.5023	2045.2510	115.0008	317.5061	804631.9200	170.0017	75.0003	122.5009
3	23:06:03	10424.0160	215.0028	1982.7358	152.5014	292.5051	797706.1900	180.0019	85.0004	122.5009
4	23:06:42	10351.4250	217.5028	2005.2412	132.5011	332.5066	809251.2100	248.7537	85.0004	138.7512
5	23:07:22	10496.6070	210.0027	1805.1955	140.0012	342.5070	815030.8300	156.2515	92.5005	115.0008
x		10444.5410	210.5027	1985.2370	139.5012	327.0064	806080.0900	184.5021	89.0005	122.5009
%RSD		0.718	3.699	5.456	12.115	6.974	0.803	19.999	13.559	8.131

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:04:43	38.7501	716682.4600	197.5023	277.5046	31316.2320	54756.8090	1104069.2000	542.5177	1231.3410
2	23:05:23	33.7501	709679.5200	250.0038	242.5035	30706.4690	53506.2250	1094589.8000	520.0162	1291.3500
3	23:06:03	32.5001	714123.6600	202.5025	240.0035	31303.6850	54887.6660	1110654.1000	518.7662	1257.5949
4	23:06:42	35.0001	722692.1900	245.0036	235.0033	30573.4820	54303.8600	1102193.5000	520.0162	1242.5926
5	23:07:22	38.7501	728379.2800	212.5027	262.5041	30550.8990	53350.2300	1116745.8000	526.2666	1260.0953
x		35.7501	718311.4200	221.5030	251.5038	30890.1530	54160.9580	1105650.5000	525.5166	1256.5948
%RSD		8.050	1.021	11.018	7.120	1.256	1.302	0.763	1.893	1.804

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:04:43	11377.7620	8501.8347	22818.6990	775844.6500	2.5000
2	23:05:23	11185.0010	9287.6728	22685.8370	770368.6600	2.5000
3	23:06:03	11185.0010	9245.1255	23272.4510	775658.4500	2.5000
4	23:06:42	11337.7070	9124.9932	23051.8390	785107.3200	0.0000
5	23:07:22	11112.4040	9242.6227	22289.7700	783995.8800	0.0000
x		11239.5750	9080.4498	22823.7190	778194.9900	1.5000
%RSD		1.003	3.624	1.636	0.799	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:09:04	239222.5600	341.6737	87921.3760	┬3131094.5000	358478.0400	382668.9300	┬21048808.0000	┬1120082.6000	217994.4800
2	23:09:44	241742.0600	338.3402	88406.4680	┬3183665.8000	365326.0200	392474.5400	┬21350477.0000	1100119.4000	219218.4700
3	23:10:23	242833.9600	329.1732	85208.4130	┬3195571.0000	363989.4000	384584.1400	┬20776965.0000	┬1123965.7000	221826.1300
4	23:11:03	240851.8300	332.5066	84847.2560	┬3133050.5000	358848.4900	374463.5000	┬20737855.0000	┬1137409.9000	220717.2600
5	23:11:43	242556.8900	305.0056	85036.6720	┬3113707.6000	353569.8800	379687.0700	┬20476464.0000	┬1119547.9000	216963.0800
x		241441.4600	329.3399	86284.0370	┬3151417.9000	360042.3700	382775.6400	┬20878114.0000	┬1120225.1000	219343.8900
%RSD		0.605	4.388	2.004	┬1.140	1.312	1.733	┬1.595	┬1.193	0.899

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:09:04	481830.7600	26118.3660	57585.7820	42452.8600	639158.6400	┬2138400.7000	┬11625892.0000	265722.5200	14810.6500
2	23:09:44	483066.8300	24573.6790	57522.8500	43211.7460	641228.9800	┬2153219.8000	┬11701106.0000	266710.8600	14672.9060
3	23:10:23	481317.3300	24819.4050	58016.2530	43329.8560	642906.0900	┬2138316.5000	┬11681723.0000	265291.6200	14855.7300
4	23:11:03	491247.3800	25857.5550	57011.8560	42073.4430	637511.8900	┬2123441.2000	┬11593191.0000	263875.1900	14399.9310
5	23:11:43	485135.7300	24892.1220	56928.7910	41538.2680	632191.0800	┬2086309.2000	┬11375213.0000	256100.7000	13603.5940
x		484519.6100	25252.2250	57413.1060	42521.2350	638599.3400	┬2127937.5000	┬11595425.0000	263540.1800	14468.5620
%RSD		0.834	2.725	0.780	1.784	0.646	┬1.200	┬1.125	1.625	3.561

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:09:04	6742.7268	22808.6710	10897.1200	43865.1460	1787.6917	971.7233	144.1679	149.1680	728330.2600
2	23:09:44	6997.9370	23437.9140	11022.2850	44312.5030	1838.5361	998.3931	154.1681	141.6679	725305.2300
3	23:10:23	7035.4686	23071.8950	10774.4610	44279.8300	1836.0356	1012.5615	144.1679	144.1679	719386.1900
4	23:11:03	6935.3848	22891.3980	10899.6230	43676.6600	1818.5317	977.5573	160.8349	159.1682	718814.9100
5	23:11:43	6557.5791	21748.3420	10406.4940	43055.9420	1791.0258	1016.7287	162.5016	131.6677	720569.6700
x		6853.8193	22791.6440	10799.9970	43838.0160	1814.3642	995.3928	153.1681	145.1679	722481.2500
%RSD		2.923	2.771	2.192	1.174	1.329	2.033	5.737	6.953	0.574

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:09:04	3065.5638	287.5050	780.0365	152.5014	472.5134	807272.3900	157.5015	40.0001	153.7514
2	23:09:44	2963.0267	292.5051	880.0465	137.5011	505.0153	813006.7000	183.7520	42.5001	192.5022
3	23:10:23	3025.5491	327.5064	842.5426	202.5025	472.5134	806546.9400	215.0028	47.5001	160.0015
4	23:11:03	2923.0126	297.5053	810.0394	200.0024	487.5143	809253.9600	238.7534	50.0001	217.5028
5	23:11:43	3158.0983	282.5048	742.5331	215.0028	470.0133	806851.9500	188.7521	30.0001	143.7512
x		3027.0501	297.5053	811.0396	181.5020	481.5139	808586.3900	196.7524	42.0001	173.5019
%RSD		3.027	5.942	6.585	18.851	3.085	0.332	15.811	18.539	17.658

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:09:04	185.0021	711068.2400	332.5066	347.5073	22868.8360	39666.6830	1098298.5000	266.2543	603.7719
2	23:09:44	222.5030	716130.3900	267.5043	340.0069	22793.6300	40591.1180	1113074.9000	248.7537	637.5244
3	23:10:23	188.7521	716138.5500	320.0061	320.0061	23297.5210	40392.6570	1103748.0000	245.0036	536.2672
4	23:11:03	223.7530	703906.8800	252.5038	320.0061	23325.0980	40510.7280	1110657.0000	260.0041	578.7701
5	23:11:43	188.7521	714528.7800	270.0044	285.0049	22565.5110	39277.3450	1105672.3000	248.7537	570.0195
x		201.7525	712354.5700	288.5051	322.5063	22970.1190	40087.7060	1106290.1000	253.7539	585.2706
%RSD		9.704	0.724	12.264	7.516	1.441	1.454	0.527	3.535	6.477

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:09:04	69395.2440	56352.3930	142289.4900	788201.1800	0.0000
2	23:09:44	68656.6640	57875.2770	141674.1400	790582.9700	2.5000
3	23:10:23	69294.4100	56883.4830	142795.5400	790075.5700	5.0000
4	23:11:03	68051.7320	57482.5730	141389.3700	781532.3100	0.0000
5	23:11:43	66383.3560	55959.7610	138364.2200	788172.3800	0.0000
x		68356.2810	56910.6980	141302.5500	787712.8800	1.5000
%RSD		1.797	1.382	1.225	0.460	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:13:25	244425.3100	550.8515	144130.7300	┬1571173.9000	182854.3700	192769.1000	┬33345039.0000	┬1895148.4000	63556.4450
2	23:14:05	240609.9900	520.8496	146496.4500	┬1594887.7000	182297.3700	190835.3500	┬33828674.0000	┬1938867.5000	62836.0120
3	23:14:45	240673.4500	535.0172	145835.0000	┬1620050.4000	184924.3000	192978.8700	┬33559016.0000	┬1951242.3000	64410.4640
4	23:15:24	241673.4400	498.3482	145211.7600	┬1575061.8000	180876.9100	194350.2000	┬33458485.0000	┬1934526.2000	63186.1450
5	23:16:04	242278.1200	525.0165	141618.2000	┬1572236.4000	178772.2200	192769.1000	┬32748398.0000	┬1907816.0000	62100.5300
x		241932.0600	526.0166	144658.4300	┬1586682.0000	181945.0400	192740.5300	┬33387922.0000	┬1925520.1000	63217.9190
%RSD		0.645	3.670	1.320	┬1.324	1.260	0.650	┬1.197	┬1.206	1.354

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:13:25	485428.3000	24062.1890	82377.6620	72768.8370	1030247.1000	681082.1600	┬18826942.0000	423162.9800	16852.0220
2	23:14:05	479523.2100	24230.1750	82731.1380	72854.5810	1043115.0000	681025.2800	┬18554312.0000	425260.8300	17180.1910
3	23:14:45	485043.0600	24004.5230	85142.7470	74309.8470	1035234.6000	689138.2700	┬18816374.0000	431086.5100	16759.3360
4	23:15:24	485670.5700	23856.5990	84094.6850	72282.1290	1039361.6000	689628.9800	┬18650466.0000	427532.7700	16614.0450
5	23:16:04	488746.5700	23310.0560	82746.2870	72274.5630	1041051.8000	675788.6600	┬18390229.0000	424642.9900	16604.0250
x		484882.3400	23892.7090	83418.5040	72897.9910	1037802.0000	683332.6700	┬18647665.0000	426337.2100	16801.9240
%RSD		0.689	1.474	1.398	1.144	0.493	0.868	┬0.987	0.724	1.402

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:13:25	13077.7540	21309.7110	10171.2030	12862.4190	2301.1510	998.3931	160.0015	145.8346	709296.3700
2	23:14:05	13067.7380	21735.8100	10348.9220	12834.8760	2261.9736	974.2236	180.0019	149.1680	718915.5600
3	23:14:45	13395.7580	20928.7480	9990.9856	12985.1090	2371.1706	980.8911	169.1684	147.5013	719693.6100
4	23:15:24	12662.1120	20981.3800	10086.1000	13040.1950	2200.2904	980.8911	152.5014	150.0014	719620.1500
5	23:16:04	13268.0540	21018.9740	9993.4886	12692.1580	2266.1414	960.8887	165.8350	138.3345	720888.0200
x		13094.2830	21194.9250	10118.1400	12882.9510	2280.1454	979.0575	165.5017	146.1680	717682.7400
%RSD		2.122	1.588	1.473	1.058	2.741	1.384	6.214	3.190	0.661

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:13:25	4991.4945	177.5019	1070.0687	115.0008	302.5055	808448.6400	118.7509	55.0002	75.0003
2	23:14:05	4996.4975	165.0016	1037.5646	120.0009	270.0044	801970.2700	117.5008	42.5001	96.2506
3	23:14:45	5686.9398	167.5017	1127.5763	120.0009	227.5031	806261.1700	143.7512	45.0001	78.7504
4	23:15:24	5146.5888	132.5011	1065.0681	130.0010	280.0047	815311.3800	138.7512	32.5001	141.2512
5	23:16:04	5019.0110	170.0017	1130.0766	97.5006	265.0042	811318.4600	128.7510	32.5001	91.2505
x		5168.1063	162.5016	1086.0708	116.5008	269.0044	808661.9800	129.5010	41.5001	96.5006
%RSD		5.744	10.714	3.771	10.247	10.151	0.624	9.045	22.780	27.454

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:13:25	82.5004	703206.2800	282.5048	135.0011	17317.9760	30902.1910	1086258.0000	260.0041	650.0254
2	23:14:05	80.0004	700111.2600	145.0013	190.0022	17944.2990	31065.2950	1091433.2000	283.7548	653.7756
3	23:14:45	71.2503	704724.3300	210.0027	175.0018	18057.0420	30887.1350	1090062.5000	263.7542	632.5240
4	23:15:24	82.5004	709663.2100	167.5017	162.5016	17703.7850	31012.6000	1105729.2000	263.7542	608.7722
5	23:16:04	70.0003	707155.3900	137.5011	160.0015	17708.7960	30232.2400	1120452.4000	272.5045	661.2762
x		77.2504	704972.0900	188.5023	164.5016	17746.3800	30819.8920	1098787.1000	268.7543	641.2747
%RSD		7.960	0.519	31.645	12.365	1.600	1.093	1.291	3.558	3.276

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:13:25	27068.8920	21853.6170	55255.0820	764025.1300	2.5000
2	23:14:05	27209.3490	21981.4530	55713.1170	777034.4600	0.0000
3	23:14:45	27304.6600	22753.5210	56329.7410	774270.3400	2.5000
4	23:15:24	27254.4960	22154.4100	55292.8310	781748.7700	0.0000
5	23:16:04	27219.3810	22036.5980	55292.8310	781526.8300	0.0000
x		27211.3550	22155.9200	55576.7200	775721.1100	1.0000
%RSD		0.323	1.585	0.830	0.936	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:17:45	239603.2700	555.0185	238170.5600	T1443500.7000	163013.9700	172287.7600	T34337862.0000	T1836852.0000	43561.0570
2	23:18:25	243851.3600	571.6863	241890.4400	T1461105.0000	169669.8700	174554.2000	T34812276.0000	T1823573.3000	44352.7170
3	23:19:04	244084.7100	557.5187	243084.4400	T1459970.0000	167761.8100	178634.3100	T34785064.0000	T1846349.5000	45277.6710
4	23:19:44	242627.2300	570.8529	247728.2300	T1508411.9000	170828.1700	179405.6200	T34688905.0000	T1825368.4000	45016.2600
5	23:20:24	243296.3200	585.0205	240205.2300	T1438888.4000	166466.2200	178767.1100	T34267558.0000	T1806055.1000	44098.8750
x		242692.5800	568.0194	242215.7800	T1462375.2000	167548.0100	176729.8000	T34578333.0000	T1827639.7000	44461.3160
%RSD		0.748	2.138	1.484	T1.884	1.816	1.776	T0.743	T0.831	1.562

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:17:45	475793.2600	26391.7250	89829.0600	78336.4740	1013697.5000	469992.5900	T18251914.0000	420358.7700	15461.8310
2	23:18:25	483056.2500	27919.1910	87292.3150	76837.6160	1014907.3000	462421.1400	T18156125.0000	419084.4300	15191.3340
3	23:19:04	480923.0100	27818.8560	89533.4040	79030.4800	1024572.2000	471256.0300	T18295984.0000	423925.3000	15379.1780
4	23:19:44	485703.6700	27477.7270	88277.6130	78510.6010	1022794.9000	470180.2400	T18337527.0000	422500.6100	15223.8930
5	23:20:24	483507.5700	26095.7960	87489.3650	78076.5510	1010665.2000	472559.3100	T18402032.0000	413897.0700	15231.4070
x		481796.7500	27140.6590	88484.3510	78158.3440	1017327.4000	469281.8600	T18288717.0000	419953.2400	15297.5290
%RSD		0.781	3.100	1.309	1.045	0.593	0.846	T0.506	0.921	0.765

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:17:45	11853.4240	21229.5070	10116.1360	8939.7926	1904.3842	948.3873	158.3348	146.6680	719870.4400
2	23:18:25	12006.1430	21347.3070	10051.0580	8697.0359	2009.4089	923.3845	145.8346	153.3347	719628.3100
3	23:19:04	11580.5410	21795.9670	10158.6880	8516.8500	1966.0652	965.0559	157.5015	145.8346	726029.4000
4	23:19:44	11951.0640	21274.6220	10604.2430	8441.7736	1981.0688	975.8905	160.0015	126.6676	720855.3700
5	23:20:24	11913.5100	20788.3970	10519.1350	8834.6806	1998.5730	968.3896	159.1682	139.1678	721943.8100
x		11860.9360	21287.1600	10289.8520	8686.0266	1971.9000	956.2216	156.1681	142.3346	721665.4700
%RSD		1.402	1.685	2.458	2.407	2.090	2.189	3.747	7.091	0.361

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:17:45	5624.3974	110.0007	1000.0600	95.0005	185.0021	801838.4500	111.2507	55.0002	67.5003
2	23:18:25	5576.8655	137.5011	1120.0753	80.0004	235.0033	801099.7100	100.0006	27.5000	65.0003
3	23:19:04	5341.7115	137.5011	1055.0668	52.5002	205.0025	804098.9800	108.7507	65.0003	108.7507
4	23:19:44	5787.0087	90.0005	1100.0726	72.5003	187.5021	813460.4400	130.0010	42.5001	113.7508
5	23:20:24	5711.9569	100.0006	1195.0857	100.0006	200.0024	794330.4400	127.5010	37.5001	107.5007
x		5608.3880	115.0008	1094.0721	80.0004	202.5025	802965.6000	115.5008	45.5001	92.5005
%RSD		3.023	18.889	6.666	23.697	9.877	0.860	11.106	32.366	26.047

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:17:45	37.5001	697969.8300	145.0013	165.0016	17921.7510	30761.6720	1091958.3000	250.0038	631.2739
2	23:18:25	45.0001	699226.4000	177.5019	147.5013	17884.1700	31000.0530	1100270.0000	273.7545	598.7715
3	23:19:04	45.0001	702207.0600	175.0018	172.5018	17956.8260	31373.9490	1091461.6000	277.5046	648.7753
4	23:19:44	40.0001	697693.0300	187.5021	155.0014	18019.4610	31722.7650	1090156.2000	273.7545	686.2783
5	23:20:24	36.2501	709190.3900	177.5019	160.0015	18057.0420	31245.9690	1091935.6000	281.2548	691.2787
x		40.7501	701257.3400	172.5018	160.0015	17967.8500	31220.8820	1093156.3000	271.2544	651.2755
%RSD		10.081	0.682	9.336	5.950	0.392	1.172	0.370	4.527	5.941

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:17:45	15714.8030	12732.2190	31772.9560	761241.9000	0.0000
2	23:18:25	16288.4030	12762.2650	32365.2290	769309.7100	0.0000
3	23:19:04	16072.9860	12749.7460	32438.0110	765832.8000	0.0000
4	23:19:44	16300.9280	13080.2580	33494.6790	769361.7000	2.5000
5	23:20:24	16002.8510	13240.5100	32922.4050	775881.6100	7.5000
x		16075.9940	12913.0000	32598.6560	768325.5400	2.0000
%RSD		1.497	1.805	1.982	0.699	162.980

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:22:05	238401.1800	1265.9295	288993.1100	┬2883886.3000	332831.4700	351348.8400	┬64795904.0000	┬3376009.2000	77226.1830
2	23:22:44	241088.5300	1250.0938	292647.3800	┬2939283.0000	339091.4100	357116.4100	┬64526548.0000	┬3317152.6000	78028.6050
3	23:23:24	241796.9500	1279.2649	290035.9200	┬2994534.7000	338737.4500	358801.5300	┬64138821.0000	┬3428220.1000	79454.4840
4	23:24:04	237376.7200	1271.7637	292792.3400	┬2949787.6000	336728.4400	355254.3000	┬64425062.0000	┬3338923.1000	79063.2890
5	23:24:43	239213.9800	1229.2573	279184.5900	┬2804630.9000	327127.1300	350822.3400	┬62534142.0000	┬3255049.6000	77079.8370
x		239575.4700	1259.2618	288730.6700	┬2914424.5000	334903.1800	354668.6800	┬64084096.0000	┬3343070.9000	78170.4800
%RSD		0.769	1.581	1.934	┬2.502	1.495	0.989	┬1.401	┬1.937	1.364

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:22:05	482398.4900	30305.0040	227716.8600	169287.2000	┬3696112.6000	┬2716472.3000	┬61130860.0000	1434479.6000	59748.4270
2	23:22:44	481034.1600	29993.8810	228058.5200	169065.2600	┬3617460.5000	┬2714437.5000	┬61430984.0000	┬1519275.8000	60811.0730
3	23:23:24	481289.5400	30771.7090	230825.6600	171527.3100	┬3686603.8000	┬2726562.2000	┬61273063.0000	1450340.7000	60785.8900
4	23:24:04	481136.0500	30129.3680	223207.2800	166433.0700	┬3564146.4000	┬2673376.2000	┬60795367.0000	┬1487706.2000	58718.6460
5	23:24:43	485449.4800	28759.5410	218482.0000	164416.1200	┬3516884.6000	┬2605988.6000	┬59817984.0000	1387496.8000	58544.9310
x		482261.5400	29991.9010	225658.0700	168145.7900	┬3616241.6000	┬2687367.4000	┬60889652.0000	┬1455859.8000	59721.7930
%RSD		0.387	2.497	2.151	1.640	┬2.138	┬1.854	┬1.057	┬3.468	1.817

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:22:05	33185.9470	42852.3970	20876.1160	13425.8060	8763.7725	934.2190	165.8350	160.8349	724515.7900
2	23:22:44	33396.7870	43171.5380	20577.8760	13335.6620	8883.8996	930.0519	160.0015	156.6681	722332.9600
3	23:23:24	33296.3860	42663.9340	19806.0090	13190.4310	8874.7231	917.5505	179.1686	155.0014	725860.6000
4	23:24:04	32448.0500	42837.3200	20685.6420	12937.5350	8660.3311	898.3818	184.1687	162.5016	715205.8200
5	23:24:43	32493.2250	41249.3380	20131.7880	13052.7140	8683.6887	926.7182	177.5019	158.3348	722654.0900
x		32964.0790	42554.9050	20415.4860	13188.4300	8773.2830	921.3843	173.3351	158.6682	722113.8500
%RSD		1.386	1.768	2.140	1.514	1.187	1.546	5.789	1.915	0.570

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:22:05	9084.9495	527.5167	2027.7467	267.5043	740.0329	786464.2600	155.0014	67.5003	86.2504
2	23:22:44	8714.5542	435.0114	1990.2376	262.5041	775.0360	776696.2600	165.0016	67.5003	113.7508
3	23:23:24	8967.3222	480.0138	2030.2473	292.5051	802.5386	784959.3000	183.7520	50.0001	97.5006
4	23:24:04	8827.1727	432.5112	2065.2559	270.0044	782.5367	774535.9000	172.5018	62.5002	117.5008
5	23:24:43	8882.2311	415.0103	1920.2212	272.5045	742.5331	771051.4300	125.0009	60.0002	83.7504
x		8895.2459	458.0127	2006.7417	273.0045	768.5355	778741.4300	160.2516	61.5002	99.7506
%RSD		1.576	9.972	2.749	4.217	3.493	0.860	13.936	11.711	15.485

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:22:05	57.5002	690962.9700	85.0004	180.0019	41937.7620	74125.7180	1068128.6000	435.0114	1032.5640
2	23:22:44	47.5001	684866.7600	110.0007	150.0014	42309.6340	74029.8710	1066237.9000	412.5102	968.8063
3	23:23:24	45.0001	689702.1800	117.5008	180.0019	42761.9340	73621.2750	1061761.8000	410.0101	957.5550
4	23:24:04	46.2501	679616.9900	97.5006	167.5017	41922.6860	72236.7380	1074378.2000	420.0106	973.8069
5	23:24:43	61.2502	689439.2000	97.5006	172.5018	41297.0740	72226.6510	1066203.9000	388.7591	961.3054
x		51.5002	686917.6200	101.5006	170.0017	42045.8180	73248.0500	1067342.1000	413.2603	978.8075
%RSD		14.298	0.683	12.389	7.279	1.286	1.293	0.429	4.067	3.138

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:22:05	23036.7980	19151.9830	47736.3350	756606.9600	2.5000
2	23:22:44	23417.8580	19114.3960	47235.9960	746441.1600	2.5000
3	23:23:24	23322.5910	19179.5460	47831.8800	746030.4700	2.5000
4	23:24:04	23046.8250	18640.8260	46755.7990	752953.5000	0.0000
5	23:24:43	22976.6320	18392.7750	45767.8380	756948.4900	0.0000
x		23160.1410	18895.9050	47065.5700	751796.1200	1.5000
%RSD		0.849	1.893	1.792	0.707	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:26:24	234520.8800	1225.0900	155795.3400	T1842313.2000	213423.4200	223060.9400	T54394249.0000	T1718005.8000	71273.4970
2	23:27:04	236439.8100	1285.0991	154937.0600	T1864264.2000	213623.4500	225156.1700	T54653881.0000	T1745097.9000	71160.0330
3	23:27:43	234094.1300	1291.7668	158505.7400	T1880999.1000	212925.9300	228639.1000	T55320161.0000	T1741698.7000	72889.8880
4	23:28:23	235553.5700	1281.7652	159422.9900	T1894208.3000	214926.3100	230545.5600	T54142457.0000	T1763940.1000	72173.6950
5	23:29:03	236297.5200	1290.9333	156462.6700	T1906041.1000	215049.4300	228782.9700	T54832355.0000	T1747122.2000	70779.3120
x		235381.1800	1274.9309	157024.7600	T1877565.2000	213989.7100	227236.9500	T54668621.0000	T1743172.9000	71655.2850
%RSD		0.445	2.209	1.197	T1.337	0.443	1.340	T0.820	T0.945	1.199

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:26:24	467268.1000	27698.4560	196008.3600	111338.8400	T5327082.0000	TM58730709.0000	T89372634.0000	T2187400.4000	596632.5700
2	23:27:04	470567.4600	29100.7230	200088.6300	111926.6400	T5369702.3000	TM58869498.0000	T90055872.0000	T2214932.9000	594379.8200
3	23:27:43	474244.8800	28719.4030	199079.9000	112924.9700	T5355820.0000	TM59285008.0000	T91515653.0000	T2234462.3000	609476.4100
4	23:28:23	468791.4300	29030.4780	200431.7300	112821.0800	T5336379.2000	TM59071156.0000	T90516950.0000	T2212250.9000	606476.4600
5	23:29:03	472613.5100	27728.5560	198442.4600	110279.9000	T5384177.1000	TM58623846.0000	T89157590.0000	T2180467.4000	596857.8800
x		470697.0800	28455.5230	198810.2200	111858.2900	T5354632.1000	TM58916043.0000	T90123740.0000	T2205902.8000	600764.6300
%RSD		0.598	2.434	0.883	0.982	T0.437	TM0.451	T1.052	T0.995	1.122

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:26:24	69733.0460	31092.8980	15056.0890	14174.5450	2629.5815	970.0565	191.6689	144.1679	716905.4700
2	23:27:04	70143.9730	31218.3660	14883.2790	14272.2110	2608.7416	992.5591	195.0023	153.3347	711519.4200
3	23:27:43	70829.7370	31612.3470	15163.7840	13751.3370	2644.5862	969.2230	186.6688	132.5011	716274.5200
4	23:28:23	70267.5080	32146.8860	15231.4070	13776.3780	2595.4041	965.0559	197.5023	151.6681	711777.6300
5	23:29:03	70701.1520	31248.4780	14948.3950	14124.4600	2626.2471	1013.3949	189.1688	133.3344	714816.9900
x		70335.0830	31463.7950	15056.5910	14019.7860	2620.9121	982.0579	192.0022	143.0012	714258.8100
%RSD		0.629	1.360	0.961	1.710	0.730	2.093	2.268	6.878	0.350

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:26:24	9262.6449	340.0069	2002.7406	170.0017	437.5115	755310.6600	120.0009	87.5005	73.7503
2	23:27:04	9410.3102	372.5083	1977.7347	155.0014	465.0130	760261.9600	130.0010	92.5005	42.5001
3	23:27:43	9437.8413	327.5064	2080.2596	172.5018	412.5102	754310.9100	130.0010	92.5005	87.5005
4	23:28:23	9572.9954	345.0071	1940.2258	207.5026	447.5120	759420.1500	173.7518	125.0009	107.5007
5	23:29:03	9195.0702	372.5083	2002.7406	167.5017	475.0135	760130.7600	113.7508	100.0006	96.2506
x		9375.7724	351.5074	2000.7403	174.5019	447.5120	757886.8900	133.5011	99.5006	81.5004
%RSD		1.594	5.748	2.564	11.254	5.460	0.376	17.635	15.013	30.740

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:26:24	421.2607	669935.7300	172.5018	310.0058	285076.6200	504348.7800	1060333.4000	942.5533	2149.0271
2	23:27:04	470.0133	667558.3400	185.0021	297.5053	286951.8600	506049.9100	1045847.8000	928.8018	2122.7703
3	23:27:43	448.7621	665392.4800	177.5019	332.5066	289399.3500	510581.6800	1053715.0000	1001.3102	2346.5803
4	23:28:23	420.0106	674021.2700	167.5017	280.0047	291267.7900	516609.1700	1053240.3000	911.2998	2184.0362
5	23:29:03	406.2599	675450.3100	200.0024	282.5048	289564.9600	509163.7500	1055314.8000	920.0508	2194.0388
x		433.2613	670471.6300	180.5020	300.5054	288452.1200	509350.6600	1053690.3000	940.8032	2199.2905
%RSD		5.929	0.633	7.022	7.191	0.844	0.932	0.494	3.799	3.960

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:26:24	33499.6990	27984.4090	68127.3460	728414.6800	0.0000
2	23:27:04	34330.5700	27279.5780	69899.4310	735171.0900	0.0000
3	23:27:43	34365.7140	28385.7630	70479.2850	734782.7300	7.5000
4	23:28:23	33999.2160	28012.0010	71031.4430	733109.5600	0.0000
5	23:29:03	33700.5060	27926.7160	69947.3310	739061.1300	2.5000
x		33979.1410	27917.6930	69896.9670	734107.8400	2.0000
%RSD		1.121	1.432	1.561	0.526	162.980

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:30:44	233536.3000	3548.2552	158793.6500	┬1884090.1000	218646.2300	235650.4100	┬62937737.0000	┬1916995.2000	54271.1480
2	23:31:23	234013.5800	3639.1278	156694.4700	┬1883969.4000	219924.2000	235583.5600	┬62468813.0000	┬1918764.9000	54308.8930
3	23:32:03	234343.4900	3623.2875	160146.6700	┬1915265.8000	222793.9400	234786.5400	┬62984371.0000	┬1942419.5000	54915.3470
4	23:32:43	235926.3900	3665.8061	162473.5700	┬1899955.7000	221397.4500	230077.9000	┬61836530.0000	┬1935557.4000	54890.1830
5	23:33:22	231133.1800	3604.1125	158393.6400	┬1861728.6000	214669.8300	227673.1900	┬61658559.0000	┬1918879.5000	54122.6870
x		233790.5900	3616.1178	159300.4000	┬1889001.9000	219486.3300	232754.3200	┬62377202.0000	┬1926523.3000	54501.6510
%RSD		0.742	1.221	1.356	┬1.060	1.417	1.571	┬0.982	┬0.605	0.684

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:30:44	461370.2200	40819.7310	466126.7700	745179.1200	┬6596068.4000	┬10922149.0000	┬111709670.0000	┬2741215.7000	116430.2200
2	23:31:23	467385.6800	41018.2020	468000.0100	744412.4300	┬6687869.2000	┬10935186.0000	┬113320510.0000	┬2730830.4000	118506.6800
3	23:32:03	466612.8800	41493.0440	465358.0400	744578.8600	┬6702569.7000	┬10837584.0000	┬112774000.0000	┬2761586.8000	115885.2000
4	23:32:43	466264.1500	41161.4050	468406.9400	739663.7300	┬6692073.4000	┬10726469.0000	┬112067680.0000	┬2762057.6000	117198.3700
5	23:33:22	470420.7600	40508.2160	458973.1400	736182.2800	┬6702442.7000	┬10738678.0000	┬111666180.0000	┬2746850.6000	115370.6300
x		466410.7400	41000.1200	465372.9800	742003.2800	┬6676204.7000	┬10832013.0000	┬112307610.0000	┬2748508.2000	116678.2200
%RSD		0.699	0.899	0.816	0.530	┬0.678	┬0.907	┬0.641	┬0.489	1.051

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:30:44	35731.4400	68182.7970	32962.5630	13122.8240	23128.7180	918.3839	205.0025	145.8346	710633.3900
2	23:31:23	36045.2880	68472.6590	32676.4400	13313.1260	22931.5080	988.3919	199.1691	134.1678	709853.4400
3	23:32:03	35673.6940	68641.5400	33482.1280	13756.3450	23136.2390	917.5505	209.1693	165.8350	714569.5600
4	23:32:43	35661.1400	69826.3220	32385.3060	13253.0300	22995.8520	955.0547	223.3363	183.3354	722207.7700
5	23:33:22	35083.6970	68321.4260	32824.5200	13172.9030	22990.8380	951.7210	190.8355	137.5011	710910.6000
x		35639.0520	68688.9490	32866.1910	13323.6460	23036.6310	946.2204	205.5025	153.3348	713634.9500
%RSD		0.976	0.959	1.234	1.896	0.396	3.119	5.895	13.565	0.718

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:30:44	11507.9400	597.5214	2687.9334	410.0101	927.5516	733339.8000	162.5016	80.0004	131.2510
2	23:31:23	11482.9060	565.0192	2745.4522	397.5095	957.5550	736427.6000	190.0022	127.5010	120.0009
3	23:32:03	11542.9890	652.5256	2872.9952	370.0082	915.0502	740806.3500	182.5020	95.0005	107.5007
4	23:32:43	11337.7070	600.0216	2712.9415	367.5081	982.5579	743056.5600	163.7516	87.5005	143.7512
5	23:33:22	11195.0150	647.5252	2717.9432	360.0078	960.0553	745383.7600	172.5018	70.0003	115.0008
x		11413.3110	612.5226	2747.4531	381.0087	948.5540	739802.8100	174.2518	92.0005	123.5009
%RSD		1.270	6.034	2.660	5.656	2.855	0.662	6.836	23.799	11.527

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:30:44	128.7510	658090.4300	227.5031	595.0212	107126.6700	187247.8300	1023808.9000	500.0150	1231.3410
2	23:31:23	111.2507	658584.7800	207.5026	530.0169	107045.6400	186902.7100	1020860.4000	501.2651	1142.5783
3	23:32:03	111.2507	650762.1300	275.0045	500.0150	105716.3300	185696.1900	1026448.4000	525.0165	1186.3344
4	23:32:43	81.2504	656766.8800	215.0028	512.5158	105166.9400	186332.6600	1022806.2000	496.2648	1218.8391
5	23:33:22	103.7507	656218.6100	202.5025	560.0188	104301.1600	184400.3800	1028392.6000	511.2657	1265.0960
x		107.2507	656084.5700	225.5031	539.5175	105871.3500	186115.9600	1024463.3000	506.7654	1208.8378
%RSD		16.032	0.476	12.962	7.107	1.151	0.605	0.291	2.292	3.851

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:30:44	51242.0620	41809.6200	104528.9900	720927.4700	2.5000
2	23:31:23	51639.5040	42189.0250	104604.9400	717089.0500	0.0000
3	23:32:03	51792.9520	42302.0960	105506.1900	716589.9900	2.5000
4	23:32:43	51863.3880	42847.3710	105397.3300	721229.5000	0.0000
5	23:33:22	51880.9970	42455.3730	104658.1000	728204.9900	0.0000
x		51683.7810	42320.6970	104939.1100	720808.2000	1.0000
%RSD		0.512	0.895	0.450	0.645	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:35:04	239526.9500	740.0329	245063.6600	↹1823960.4000	206794.3900	219575.1800	↹52128228.0000	↹1995572.5000	49187.2360
2	23:35:43	236654.1000	734.1990	244834.5700	↹1843206.7000	216162.6800	225669.7900	↹53804769.0000	↹1998577.1000	50303.8720
3	23:36:23	237184.7000	744.1999	251977.8300	↹1877763.2000	214818.5900	229163.2100	↹53499846.0000	↹2061978.7000	50736.4830
4	23:37:03	241962.4800	760.0347	249090.4400	↹1875445.0000	216357.6400	228407.8900	↹53232362.0000	↹2064614.1000	50917.5820
5	23:37:43	239054.5000	725.8649	244319.7900	↹1846804.8000	213408.0300	227606.4000	↹53378259.0000	↹2061685.9000	50761.6350
x		238876.5500	740.8663	247057.2600	↹1853436.0000	213508.2700	226084.5000	↹53208693.0000	↹2036485.7000	50381.3620
%RSD		0.883	1.719	1.354	↹1.234	1.843	1.709	↹1.202	↹1.768	1.400

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:35:04	464156.2200	38036.6090	148684.7000	107574.8900	1615624.3000	↹6682423.2000	↹28458264.0000	646174.9800	76105.9470
2	23:35:43	465589.1800	39631.5160	147427.6600	106534.1500	1635077.9000	↹6800344.6000	↹29199242.0000	663470.4300	76953.6790
3	23:36:23	469815.5100	40309.7570	151229.8900	109821.4100	1640686.7000	↹6928861.1000	↹29584082.0000	670979.9300	78417.2280
4	23:37:03	467783.3400	39423.0300	151581.1900	108185.2100	1640777.2000	↹6869261.8000	↹29437304.0000	670614.7100	78467.7000
5	23:37:43	474063.7500	40442.9000	150392.4400	107324.1900	↹1715659.8000	↹6741615.4000	↹28933882.0000	664592.2500	78742.7760
x		468281.6000	39568.7630	149863.1700	107887.9700	↹1649565.2000	↹6804501.2000	↹29122555.0000	663166.4600	77737.4660
%RSD		0.829	2.426	1.176	1.142	↹2.326	↹1.442	↹1.531	1.522	1.478

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:35:04	17009.8420	22039.1050	10454.0530	8829.6753	2862.1581	836.7087	159.1682	130.8344	694605.4000
2	23:35:43	17327.9970	22144.3830	10819.5190	9370.2652	2920.5117	898.3818	157.5015	161.6682	700162.8300
3	23:36:23	17666.2060	22532.9230	10872.0880	9680.6196	2814.6419	822.5406	180.8353	133.3344	692145.3100
4	23:37:03	17413.1740	22500.3350	10907.1330	9562.9839	2931.3488	863.3781	170.0017	150.8347	703559.2900
5	23:37:43	17250.3360	22821.2060	10676.8350	9137.5069	2812.9747	909.2163	167.5017	138.3345	701932.8400
x		17333.5110	22407.5900	10745.9260	9316.2102	2868.3270	866.0451	167.0017	143.0012	698481.1300
%RSD		1.380	1.412	1.724	3.661	1.963	4.347	5.619	9.071	0.700

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:35:04	9019.8789	285.0049	1895.2155	227.5031	390.0091	756673.9000	136.2511	60.0002	101.2506
2	23:35:43	9397.7961	240.0035	1865.2087	167.5017	425.0108	766225.2900	141.2512	75.0003	96.2506
3	23:36:23	9044.9060	310.0058	1922.7218	112.5008	480.0138	758624.8800	177.5019	82.5004	97.5006
4	23:37:03	9332.7231	312.5059	1815.1977	165.0016	485.0141	760617.2900	141.2512	72.5003	123.7509
5	23:37:43	9385.2820	330.0065	1757.6853	160.0015	395.0094	766917.3100	151.2514	60.0002	102.5006
x		9236.1172	295.5053	1851.2058	166.5017	435.0115	761811.7300	149.5014	70.0003	104.2507
%RSD		2.033	11.820	3.552	24.549	10.440	0.600	11.086	14.061	10.745

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:35:04	43.7501	667263.5800	260.0041	177.5019	71843.3590	125558.8300	1039559.1000	488.7643	1220.0893
2	23:35:43	61.2502	674492.1800	272.5045	220.0029	72208.9990	128597.1400	1049784.8000	520.0162	1185.0843
3	23:36:23	52.5002	669719.3300	245.0036	165.0016	73696.9400	128688.5300	1053946.8000	478.7638	1202.5868
4	23:37:03	58.7502	677675.5400	185.0021	182.5020	74062.6610	128711.3800	1046644.1000	510.0156	1250.0938
5	23:37:43	68.7503	678352.4200	272.5045	172.5018	73043.7260	126167.9200	1066730.3000	526.2666	1146.3288
x		57.0002	673500.6100	247.0037	183.5020	72971.1370	127544.7600	1051333.0000	504.7653	1200.8366
%RSD		16.528	0.724	14.762	11.664	1.296	1.216	0.959	4.029	3.230

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:35:04	14645.3580	12171.3820	29685.2790	731338.6400	0.0000
2	23:35:43	15116.1980	12188.9080	31155.6320	746641.7400	0.0000
3	23:36:23	15436.7840	11978.6030	30944.8490	745192.7600	2.5000
4	23:37:03	14870.7570	11971.0920	30623.6650	753595.3100	0.0000
5	23:37:43	15291.5170	12336.6250	31035.1840	754513.0300	0.0000
x		15072.1230	12129.3220	30688.9220	746256.3000	0.5000
%RSD		2.113	1.278	1.938	1.246	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:39:24	240015.7200	340.8403	70877.6420	↹1455623.3000	165002.5400	175585.5300	↹23048765.0000	1017538.6000	73295.9260
2	23:40:03	240598.8400	354.1742	71876.1400	↹1467794.1000	170220.9300	179860.2600	↹23701011.0000	1052612.9000	73558.2220
3	23:40:43	239818.4900	360.0078	74468.7560	↹1467166.3000	171935.6000	180406.8900	↹23864094.0000	1051838.7000	75611.4770
4	23:41:23	241045.6500	361.6745	76396.0840	↹1491725.3000	170853.6900	182455.7800	↹23988521.0000	↹1103162.8000	75162.4420
5	23:42:02	238822.1500	335.0067	74022.3040	↹1468349.5000	170476.0700	177188.9400	↹23941120.0000	1045675.6000	75760.3190
x		240060.1700	350.3407	73528.1850	↹1470131.7000	169697.7700	179099.4800	↹23708702.0000	↹1054165.7000	74677.6770
%RSD		0.352	3.383	2.973	↹0.896	1.594	1.518	↹1.623	↹2.932	1.562

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:39:24	458161.5100	26266.3300	59076.1600	44749.8310	537335.1700	1065974.7000	↹9812121.1000	221125.3700	10381.4620
2	23:40:03	464644.8500	25957.8660	59335.4930	45368.1610	546930.2000	1085506.3000	↹9979909.6000	224981.5500	10937.1730
3	23:40:43	467253.5700	26527.1540	59637.6380	45028.8280	551483.5800	1080790.9000	↹10147614.0000	228985.9300	10711.8800
4	23:41:23	472412.5800	27337.2660	60483.7030	45725.1040	549218.5900	1088127.4000	↹10077635.0000	227406.0400	10659.3130
5	23:42:02	471413.3100	26938.4710	60317.5050	45164.5590	548453.0600	1075038.2000	↹10106070.0000	227732.2700	10814.5130
x		466777.1600	26605.4170	59770.1000	45207.2970	546684.1200	1079087.5000	↹10024670.0000	226046.2400	10700.8680
%RSD		1.232	2.047	1.023	0.810	1.002	0.821	↹1.336	1.376	1.941

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:39:24	6244.8390	17994.4070	8709.5490	18162.2710	1058.4005	820.8738	146.6680	159.1682	693162.3500
2	23:40:03	6487.5243	18683.4210	8887.2365	18312.5990	1046.7324	898.3818	156.6681	146.6680	693528.5100
3	23:40:43	6242.3371	18074.5800	8842.1886	19099.3620	1065.9015	905.8826	144.1679	150.0014	700423.4300
4	23:41:23	6284.8691	18768.6120	8839.6859	18665.8820	1049.2327	937.5527	172.5018	142.5012	705789.0200
5	23:42:02	6582.5988	17648.6690	8737.0778	18558.1410	1096.7388	898.3818	168.3350	119.1675	697131.3100
x		6368.4337	18233.9380	8803.1475	18559.6510	1063.4012	892.2145	157.6682	143.5013	698006.9200
%RSD		2.460	2.620	0.862	1.946	1.893	4.823	8.011	10.400	0.754

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:39:24	2958.0249	182.5020	725.0315	130.0010	252.5038	775365.4800	116.2508	30.0001	97.5006
2	23:40:03	3345.6715	142.5012	717.5309	110.0007	270.0044	777101.5600	126.2510	30.0001	88.7505
3	23:40:43	3033.0519	170.0017	685.0282	125.0009	312.5059	783657.4100	122.5009	22.5000	118.7509
4	23:41:23	3075.5674	215.0028	732.5322	80.0004	280.0047	790736.5700	141.2512	35.0001	152.5014
5	23:42:02	3093.0739	220.0029	665.0265	90.0005	277.5046	775685.8400	122.5009	32.5001	117.5008
x		3101.0779	186.0021	705.0299	107.0007	278.5047	780509.3700	125.7510	30.0001	115.0008
%RSD		4.718	17.333	4.082	20.261	7.841	0.849	7.459	15.590	21.397

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:39:24	128.7510	682436.5200	217.5028	150.0014	19425.1140	34330.5700	1054051.3000	250.0038	582.5204
2	23:40:03	116.2508	691274.8100	252.5038	187.5021	20116.7520	35322.2010	1063549.7000	230.0032	598.7715
3	23:40:43	138.7512	683959.0600	220.0029	182.5020	19988.9450	34817.5840	1071792.3000	238.7534	595.0212
4	23:41:23	135.0011	687018.5100	235.0033	150.0014	19878.6810	34732.2290	1069167.5000	261.2541	602.5218
5	23:42:02	153.7514	687373.5800	215.0028	152.5014	20019.0170	35234.3300	1082667.7000	232.5032	617.5229
x		134.5011	686412.5000	228.0031	164.5016	19885.7020	34887.3830	1068245.7000	242.5035	599.2716
%RSD		10.215	0.498	6.909	11.444	1.363	1.154	0.987	5.369	2.115

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:39:24	32563.4990	26236.2350	66048.2090	750433.1600	0.0000
2	23:40:03	33610.1420	27081.4330	68686.9120	759377.7900	2.5000
3	23:40:43	34436.0040	27284.5940	69995.2310	764744.3300	0.0000
4	23:41:23	33489.6580	27836.4140	69125.5160	772014.7900	0.0000
5	23:42:02	33143.2780	27552.9750	69750.6930	768159.2500	2.5000
x		33448.5160	27198.3300	68721.3120	762945.8600	1.0000
%RSD		2.049	2.236	2.300	1.100	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:43:44	239228.5600	430.8445	86531.9460	τ1528479.3000	174446.9900	187863.9700	τ30280410.0000	τ1311637.0000	68066.8550
2	23:44:24	241567.9500	460.8461	88113.3880	τ1556250.1000	181474.7000	187536.7200	τ30364119.0000	τ1306824.6000	70033.0460
3	23:45:03	240350.1500	429.1777	87663.6830	τ1578515.0000	181214.1200	192523.5200	τ30591752.0000	τ1363287.7000	69680.1060
4	23:45:43	242447.1000	432.5112	87289.7890	τ1575182.5000	183595.4000	195204.8300	τ30411997.0000	τ1341644.6000	70017.9200
5	23:46:23	238172.2800	437.5115	86691.0870	τ1552144.8000	179170.6400	187194.1500	τ30275096.0000	1307278.3000	70209.5220
x		240353.2100	438.1782	87257.9790	τ1558114.3000	179980.3700	190064.6400	τ30384675.0000	τ1326134.4000	69601.4900
%RSD		0.717	2.978	0.757	τ1.294	1.927	1.896	τ0.426	τ1.907	1.263

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:43:44	466084.5000	33494.6790	83801.7560	55992.4800	817314.0300	1456487.2000	τ14738645.0000	340515.2500	17608.5840
2	23:44:24	468535.1000	34930.5560	83279.0550	56694.7040	827689.4800	1473615.9000	τ14971513.0000	340952.5900	17896.6970
3	23:45:03	472403.3300	35116.3340	83059.3790	56161.1090	836240.7900	1498946.5000	τ14994573.0000	341954.9400	18415.3250
4	23:45:43	471696.1600	34016.7870	83415.4090	56996.7530	832814.3000	1481864.8000	τ14955303.0000	339078.4000	18492.9970
5	23:46:23	474742.0300	33891.2770	82801.8350	56148.5240	816403.4300	1473207.2000	τ14900903.0000	341809.1300	17876.6540
x		470692.2200	34289.9260	83271.4870	56398.7140	826092.4000	1476824.3000	τ14912187.0000	340862.0600	18058.0510
%RSD		0.722	2.041	0.452	0.757	1.086	1.044	τ0.691	0.341	2.105

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:43:44	8276.6081	19823.5500	9628.0588	14284.7330	1475.9640	871.7123	170.0017	147.5013	699003.8400
2	23:44:24	8111.4458	20039.0650	9728.1749	14925.8550	1506.8029	915.8837	169.1684	152.5014	708149.7400
3	23:45:03	8361.6930	19615.5590	9635.5674	14677.9150	1465.1288	889.2141	167.5017	127.5010	708492.0800
4	23:45:43	8812.1568	19951.3550	9465.3725	14920.8460	1442.6249	982.5579	155.0014	124.1676	707761.2200
5	23:46:23	8464.2965	19785.9610	9490.4010	14748.0390	1395.9502	907.5494	145.8346	153.3347	708978.4500
x		8405.2400	19843.0980	9589.5149	14711.4770	1457.2942	913.3835	161.5016	141.0012	706477.0600
%RSD		3.113	0.819	1.143	1.780	2.837	4.628	6.602	9.981	0.595

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:43:44	4328.6239	257.5040	1037.5646	135.0011	420.0106	779470.7400	145.0013	40.0001	123.7509
2	23:44:24	4696.3230	230.0032	1040.0649	127.5010	375.0084	785280.0100	147.5013	27.5000	155.0014
3	23:45:03	4551.2425	217.5028	1010.0612	160.0015	445.0119	786307.9900	143.7512	42.5001	130.0010
4	23:45:43	4381.1514	290.0051	1135.0773	157.5015	422.5107	783643.7100	190.0022	47.5001	160.0015
5	23:46:23	4618.7796	260.0041	975.0570	137.5011	410.0101	778999.5900	150.0014	50.0001	118.7509
x		4515.2241	251.0038	1039.5650	143.5013	414.5103	782740.4100	155.2515	41.5001	137.5012
%RSD		3.460	11.282	5.723	10.053	6.157	0.427	12.608	21.127	13.652

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:43:44	63.7502	681929.9600	235.0033	162.5016	26090.7800	46330.9360	1061071.6000	293.7552	721.2812
2	23:44:24	93.7505	690911.4500	257.5040	185.0021	26303.9480	46195.1860	1074364.0000	341.2570	668.7768
3	23:45:03	93.7505	689913.6500	250.0038	160.0015	26803.0350	46796.0240	1067270.9000	267.5043	692.5288
4	23:45:43	105.0007	690141.4000	262.5041	172.5018	27186.7750	46675.3500	1081936.2000	303.7555	718.7810
5	23:46:23	106.2507	684454.9000	260.0041	145.0013	26293.9170	46104.6870	1087055.1000	307.5057	725.0315
x		92.5005	687470.2700	253.0039	165.0016	26535.6910	46420.4370	1074339.6000	302.7555	705.2799
%RSD		18.529	0.585	4.386	9.028	1.691	0.650	0.982	8.785	3.417

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:43:44	30560.9360	25112.7820	62400.2560	761287.0000	0.0000
2	23:44:24	31095.4070	25416.2000	63959.5110	769467.0400	5.0000
3	23:45:03	31276.0820	25220.6070	64944.5860	764984.9800	2.5000
4	23:45:43	31193.2720	25764.7680	64753.1040	770088.1700	5.0000
5	23:46:23	31140.5760	25250.6980	64186.2440	772456.8200	0.0000
x		31053.2550	25353.0110	64048.7400	767656.8000	2.5000
%RSD		0.912	1.004	1.570	0.582	100.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:48:04	238075.4000	492.5146	108468.8700	↹1236910.3000	144181.6000	156103.5300	↹35785789.0000	↹1478887.5000	38955.8410
2	23:48:44	240597.9800	514.1825	111873.4300	1208872.7000	145621.3100	153714.7400	↹36183542.0000	↹1499537.5000	39443.1250
3	23:49:23	242124.5900	525.8499	113690.2700	↹1288733.0000	146689.8100	154274.9500	↹36396979.0000	↹1516100.9000	40653.9230
4	23:50:03	240678.6000	494.1813	113127.7000	↹1297547.2000	146231.8700	155135.7100	↹36153340.0000	↹1507532.8000	39523.5050
5	23:50:43	238901.0300	484.1807	110297.6400	↹1266250.7000	145997.8200	151774.6600	↹35695761.0000	↹1466716.4000	38330.4510
x		240075.5200	502.1818	111491.5800	↹1259662.8000	145744.4800	154200.7200	↹36043082.0000	↹1493755.0000	39381.3690
%RSD		0.666	3.428	1.914	↹2.923	0.656	1.057	↹0.814	↹1.370	2.173

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:48:04	466174.3200	36394.3000	103394.9800	78550.9790	1028708.2000	664275.9700	↹18627996.0000	421572.8500	13563.5290
2	23:48:44	465328.9900	35884.5960	103093.7800	79648.8260	1043098.1000	668296.6400	↹18772655.0000	424201.3300	13535.9840
3	23:49:23	470107.5600	37951.2210	106204.9800	80080.4330	1053943.9000	676140.5600	↹19119459.0000	434610.1400	14096.9130
4	23:50:03	476094.7700	36906.5450	104154.3500	80287.4100	1034084.1000	674032.0900	↹18823335.0000	426709.6400	14189.5700
5	23:50:43	470708.8700	35201.6930	101555.0600	79058.2420	1018430.8000	658617.2000	↹18430874.0000	420135.4200	13553.5130
x		469682.9000	36467.6710	103680.6300	79525.1780	1035653.0000	668272.4900	↹18754864.0000	425445.8700	13787.9020
%RSD		0.913	2.857	1.638	0.905	1.311	1.069	↹1.357	1.342	2.366

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:48:04	8949.8034	20031.5470	9505.4181	8987.3437	1681.0029	928.3850	143.3346	139.1678	696452.9600
2	23:48:44	8669.5073	20324.7560	9467.8754	9024.8843	1660.9989	872.5457	159.1682	134.1678	713166.6900
3	23:49:23	9034.8951	20387.4080	9878.3514	9092.4577	1622.6580	902.5489	163.3349	150.0014	711331.8800
4	23:50:03	8764.6067	20555.3200	10101.1180	8732.0725	1660.1654	913.3834	161.6682	153.3347	705824.3300
5	23:50:43	8381.7131	19675.7010	9600.5270	8769.6119	1638.4944	963.3890	172.5018	139.1678	708138.8700
x		8760.1051	20194.9460	9710.6580	8921.2740	1652.6639	916.0504	160.0015	143.1679	706982.9400
%RSD		2.927	1.715	2.791	1.800	1.363	3.651	6.619	5.664	0.924

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:48:04	6424.9759	222.5030	1240.0923	200.0024	435.0114	777994.3800	141.2512	30.0001	100.0006
2	23:48:44	6017.1716	325.0063	1355.1102	200.0024	420.0106	779566.6200	121.2509	55.0002	98.7506
3	23:49:23	6575.0929	277.5046	1270.0968	190.0022	565.0192	781462.4400	155.0014	47.5001	102.5006
4	23:50:03	6227.3259	295.0052	1250.0938	170.0017	427.5110	785518.4900	141.2512	27.5000	136.2511
5	23:50:43	6454.9991	320.0061	1312.6034	197.5023	395.0094	786028.3700	150.0014	65.0003	105.0007
x		6339.9131	288.0051	1285.5993	191.5022	448.5123	782114.0600	141.7512	45.0001	108.5007
%RSD		3.461	14.361	3.717	6.631	14.903	0.456	9.092	35.789	14.468

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:48:04	35.0001	690510.1500	232.5032	120.0009	25955.3580	45936.2600	1087738.7000	312.5059	732.5322
2	23:48:44	35.0001	691331.7600	250.0038	110.0007	26150.9680	45715.0490	1068802.3000	315.0060	771.2857
3	23:49:23	40.0001	696610.3300	290.0051	152.5014	26401.7570	47590.5040	1070257.5000	303.7555	742.5331
4	23:50:03	38.7501	690274.2600	192.5022	155.0014	26662.5850	45901.0670	1066840.7000	293.7552	723.7814
5	23:50:43	40.0001	697606.1900	202.5025	115.0008	26444.3920	45149.4780	1076888.3000	295.0052	712.5305
x		37.7501	693266.5400	233.5033	130.5010	26323.0120	46058.4720	1074105.5000	304.0056	736.5326
%RSD		6.786	0.512	16.735	16.502	1.042	1.981	0.792	3.204	3.035

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:48:04	14745.5340	12078.7470	30505.7340	763877.4700	0.0000
2	23:48:44	14988.4670	11695.7020	30759.1630	763293.7000	0.0000
3	23:49:23	14915.8370	12103.7840	30616.1380	757407.5200	2.5000
4	23:50:03	14665.3930	12088.7620	30242.2760	768896.5700	2.5000
5	23:50:43	14174.5450	11931.0350	29820.7610	769841.9100	0.0000
x		14697.9550	11979.6060	30388.8140	764663.4300	1.0000
%RSD		2.176	1.447	1.217	0.653	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:52:25	219328.8200	┬1623649.9000	┬74306477.0000	┬39447468.0000	┬4868595.0000	┬5047642.6000	┬105622650.0000	┬28254170.0000	1258540.4000
2	23:53:04	220728.3900	┬1612372.4000	┬75912599.0000	┬40246373.0000	┬4937838.7000	┬5091936.0000	┬105422010.0000	┬28607577.0000	1282560.2000
3	23:53:44	220044.8300	┬1625262.5000	┬76090784.0000	┬40140096.0000	┬4861408.4000	┬5083796.0000	┬107103780.0000	┬29022361.0000	1270868.1000
4	23:54:24	220421.2500	┬1613576.5000	┬75061963.0000	┬39492916.0000	┬4881414.3000	┬5094624.9000	┬106702760.0000	┬29065558.0000	1285355.8000
5	23:55:03	219930.1900	┬1617672.5000	┬75485066.0000	┬39990254.0000	┬4900570.5000	┬5066000.4000	┬106480490.0000	┬28729721.0000	1283415.6000
x		220090.6900	┬1618506.8000	┬75371378.0000	┬39863421.0000	┬4889965.4000	┬5076800.0000	┬106266340.0000	┬28735878.0000	1276148.0000
%RSD		0.241	┬0.359	┬0.951	┬0.930	┬0.626	┬0.389	┬0.676	┬1.153	0.891

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:52:25	423552.0200	70.0003	┬7680462.6000	┬7133074.6000	┬3380714.1000	┬9233457.5000	┬55673603.0000	1330268.7000	┬9519952.4000
2	23:53:04	429263.4200	55.0002	┬7595090.4000	┬7102768.9000	┬3446104.7000	┬9295933.5000	┬56795406.0000	1337620.4000	┬9470411.3000
3	23:53:44	427962.7700	47.5001	┬7622452.4000	┬7154954.4000	┬3425986.7000	┬9265705.9000	┬56702046.0000	1345094.9000	┬9543723.3000
4	23:54:24	431047.0400	60.0002	┬7611977.1000	┬7161598.5000	┬3400098.5000	┬9285085.8000	┬56234638.0000	1336126.8000	┬9566338.9000
5	23:55:03	434453.5300	70.0003	┬7660893.4000	┬7082201.4000	┬3380107.5000	┬9218554.2000	┬56206063.0000	1336552.7000	┬9576987.7000
x		429255.7500	60.5002	┬7634175.2000	┬7126919.6000	┬3406602.3000	┬9259747.4000	┬56322351.0000	1337132.7000	┬9535482.7000
%RSD		0.935	16.110	┬0.464	┬0.476	┬0.850	┬0.357	┬0.799	0.396	┬0.445

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:52:25	2032685.0000	┬4789364.6000	┬2264195.0000	1248580.8000	999988.3200	27838.0870	10920.4840	151.6681	604344.6400
2	23:53:04	┬2054426.6000	┬4820552.8000	┬2255588.0000	1249516.7000	1003947.1000	27861.4980	10966.3780	157.5015	606983.9900
3	23:53:44	2032467.8000	┬4890170.9000	┬2280652.7000	1246671.6000	1010888.3000	28390.7800	11022.2850	145.8346	612531.1500
4	23:54:24	2058955.1000	┬4847663.7000	┬2277309.7000	1251810.8000	1013251.1000	28211.8400	11094.8810	143.3346	615939.1100
5	23:55:03	2037964.0000	┬4835553.5000	┬2268869.1000	1246625.4000	1011826.8000	28063.0060	10841.2140	160.0015	623620.0100
x		┬2043299.7000	┬4836661.1000	┬2269322.9000	1248641.1000	1007980.3000	28073.0420	10969.0480	151.6681	612683.7800
%RSD		┬0.613	┬0.765	┬0.445	0.173	0.568	0.836	0.881	4.743	1.244

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:52:25	187.5021	112.5008	297.5053	72.5003	232.5032	678918.3400	571030.1700	71737.4520	548461.0600
2	23:53:04	142.5012	142.5012	292.5051	67.5003	255.0039	693259.9900	574199.7300	71838.3160	557547.8200
3	23:53:44	152.5014	152.5014	255.0039	85.0004	195.0023	694269.0300	587487.1100	72968.0680	562331.2300
4	23:54:24	170.0017	122.5009	282.5048	80.0004	225.0030	693479.6900	594521.9400	72627.6130	567654.5900
5	23:55:03	157.5015	185.0021	260.0041	70.0003	250.0038	701710.2200	583814.5000	73232.8760	556696.1200
x		162.0016	143.0013	277.5046	75.0003	231.5032	692327.4500	582210.6900	72480.8650	558538.1600
%RSD		10.714	19.795	6.891	9.718	10.291	1.195	1.655	0.923	1.277

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:52:25	1105929.6000	612375.2900	42.5001	┬3209545.9000	635410.1200	1119561.2000	964852.2500	┬4621728.6000	┬11391246.0000
2	23:53:04	1108096.0000	621045.5000	82.5004	┬3200522.2000	641695.4100	1113533.0000	971832.8200	┬4663626.2000	┬11551800.0000
3	23:53:44	1124707.5000	625422.8900	55.0002	┬3229764.1000	641851.7900	1156334.0000	990197.8400	┬4747403.6000	┬11658983.0000
4	23:54:24	1124052.3000	627153.4700	50.0001	┬3241801.1000	649520.6600	1145776.5000	992754.3700	┬4755910.4000	┬11743404.0000
5	23:55:03	1122756.3000	637080.7200	67.5003	┬3255960.3000	643974.0100	1136486.5000	997041.2400	┬4716073.3000	┬11590407.0000
x		1117108.3000	624615.5700	59.5002	┬3227518.7000	642490.4000	1134338.3000	983335.7100	┬4700948.4000	┬11587168.0000
%RSD		0.830	1.443	26.474	┬0.705	0.789	1.571	1.436	┬1.216	┬1.135

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:52:25	┬3699723.4000	┬3275364.3000	┬8045443.9000	654846.7400	5.0000
2	23:53:04	┬3733153.1000	┬3330080.1000	┬8161573.1000	662078.5000	7.5000
3	23:53:44	┬3761325.8000	┬3396953.0000	┬8273624.7000	666019.7400	10.0000
4	23:54:24	┬3762984.1000	┬3374591.6000	┬8261320.2000	670106.1400	2.5000
5	23:55:03	┬3730118.9000	┬3373571.2000	┬8243483.2000	674841.3100	5.0000
x		┬3737461.1000	┬3350112.0000	┬8197089.0000	665578.4900	6.0000
%RSD		┬0.697	┬1.442	┬1.164	1.149	47.507

CCB3 06/22/2015 23:56:08

User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K	44Ca
1	23:56:47	243882.2500	380.0087	48923.1880	6177.2887	825.0408	780.0365	19888.7050	46330.9360	367.5081
2	23:57:27	245993.8000	277.5046	44242.1310	4796.3799	525.0165	540.0175	16203.2370	45418.4340	347.5073
3	23:58:07	247108.5600	223.3363	40739.3390	3925.9246	515.0159	575.0198	14302.2630	43910.3830	350.0074
4	23:58:46	250394.5000	215.0028	38516.3050	3470.7226	335.0067	445.0119	11973.5960	42900.1420	342.5070
5	23:59:26	253318.4000	173.3351	34596.6670	2850.4874	410.0101	440.0116	10156.1850	41199.0910	312.5059
x		248139.5000	253.8375	41403.5260	4244.1606	522.0180	556.0195	14504.7970	43951.7970	344.0071
%RSD		1.504	31.392	13.213	30.457	35.761	24.885	26.078	4.620	5.805

Run	Time	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe	57Fe	59Co
1	23:56:47	457514.8900	22.5000	1822.6993	2040.2497	3123.0851	1772.6885	107893.9700	962.5556	1452.6266
2	23:57:27	465887.6900	42.5001	1322.6049	1890.2144	3083.0702	1410.1193	106579.7200	935.0525	1062.5677
3	23:58:07	473372.3100	52.5002	897.5483	1740.1817	2983.0338	1310.1030	107471.0600	957.5550	990.0588
4	23:58:46	472064.9400	27.5000	817.5401	1700.1734	2735.4489	1077.5697	106906.3700	870.0454	800.0384
5	23:59:26	479753.4000	17.5000	980.0576	1645.1624	2712.9415	812.5396	105351.7600	715.0307	615.0227
x		469718.6500	32.5001	1168.0901	1803.1963	2927.5159	1276.6040	106840.5800	888.0478	984.0629
%RSD		1.791	44.854	35.397	8.913	6.581	28.244	0.912	11.655	31.966

Run	Time	60Ni	63Cu	65Cu	66Zn	75As	78Se	82Se	83Kr	89Y
1	23:56:47	317.5061	4303.6110	1517.6382	437.5115	265.8376	1070.0687	141.6679	123.3343	662405.5200
2	23:57:27	242.5035	3973.4471	1242.5926	427.5110	230.0032	1074.2359	150.0014	135.8344	674465.1100
3	23:58:07	230.0032	3615.7843	1260.0953	342.5070	178.3352	1001.7269	155.0014	132.5011	680112.5700
4	23:58:46	225.0030	3298.1525	1025.0630	317.5061	160.0015	1075.9028	147.5013	130.8344	694163.2400
5	23:59:26	192.5022	3118.0832	1145.0787	272.5045	140.8345	1074.2359	153.3347	143.3346	697079.7500
x		241.5036	3661.8156	1238.0936	359.5080	195.0024	1059.2340	149.5013	133.1677	681645.2400
%RSD		19.181	13.232	14.710	19.831	26.498	3.042	3.517	5.481	2.099

Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	107Ag	108Mo O	109Ag
1	23:56:47	17.5000	17.5000	17.5000	15.0000	5.0000	777668.4600	412.5102	25.0000	385.0089
2	23:57:27	10.0000	5.0000	10.0000	12.5000	0.0000	789422.8500	327.5064	15.0000	340.0069
3	23:58:07	10.0000	12.5000	5.0000	7.5000	2.5000	807868.7400	267.5043	10.0000	265.0042
4	23:58:46	10.0000	12.5000	5.0000	12.5000	5.0000	807569.1900	267.5043	12.5000	296.2553
5	23:59:26	10.0000	22.5000	7.5000	5.0000	10.0000	809946.6500	165.0016	10.0000	136.2511
x		11.5000	14.0000	9.0000	10.5000	4.5000	798495.1800	288.0054	14.5000	284.5053
%RSD		29.166	46.566	57.601	39.123	82.402	1.790	31.553	42.931	33.196

Run	Time	111Cd	115In	118Sn	121Sb	135Ba	137Ba	159Tb	203Tl	205Tl
1	23:56:47	180.0019	691597.5100	10.0000	2527.8834	112.5008	202.5025	1066710.5000	1548.8939	3780.8575
2	23:57:27	133.7511	691649.0300	30.0001	1792.6928	95.0005	102.5006	10918i3.6000	1050.0662	2532.8849
3	23:58:07	107.5007	702717.5200	25.0000	1420.1210	75.0003	102.5006	1095623.3000	757.5344	1917.7206
4	23:58:46	85.0004	710426.8500	32.5001	1095.0719	27.5000	127.5010	1098554.2000	648.7753	1511.3870
5	23:59:26	92.5005	715847.5700	35.0001	1085.0706	47.5001	85.0004	1097545.9000	530.0169	1186.3344
x		119.7509	702447.6900	26.5000	1584.1679	71.5004	124.0010	1090049.5000	907.0573	2185.8369
%RSD		32.143	1.556	37.499	37.997	48.234	37.437	1.220	44.905	46.825

Run	Time	206Pb	207Pb	208Pb	209Bi	220Bkg
1	23:56:47	700.0294	607.5221	1597.6531	779687.1500	0.0000
2	23:57:27	625.0234	512.5158	1257.5949	791966.8300	0.0000
3	23:58:07	480.0138	447.5120	1032.5640	801529.4900	0.0000
4	23:58:46	445.0119	362.5079	817.5401	803206.2300	0.0000
5	23:59:26	362.5079	290.0051	810.0394	802214.7000	5.0000
x		522.5173	444.0126	1103.0783	795720.8800	1.0000
%RSD		26.282	27.995	30.096	1.262	223.607

ALS Environmental - SLC

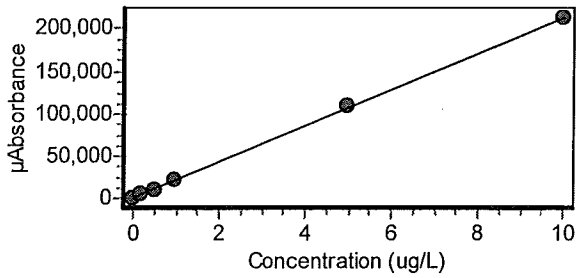
Report Generated By CETAC QuickTrace AACV02
Analyst: christopher.hansen Christopher R Hansen
Worksheet file: C:\Program Files\QuickTrace\Worksheets\CV2-15175a.wsz
Date Started: 06/18/2015 12:16:15
Comment:
Workorder: 1515632 SDG: MF9M48 Case: 45299 HBN: 150996

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags	Calculated Hg (µg/L)	Percent Difference
S0	STD	06/18/15 12:25:06 pm	0.0000	-137		-0.0181	NA
S0.2	STD	06/18/15 12:26:13 pm	0.2000	3843		0.1692	15.4%
S0.5	STD	06/18/15 12:27:21 pm	0.5000	10234		0.4700	6.0%
S1.0	STD	06/18/15 12:28:29 pm	1.0000	22152		1.0309	-3.1%
S5.0	STD	06/18/15 12:29:37 pm	5.0000	108560		5.0979	-2.0%
S10	STD	06/18/15 12:30:46 pm	10.0000	211653		9.9500	0.5%

Calibration

Equation: A = 248.010 + 21246.520C
R2: 0.99981
SEE: 1309.7190
Flags:



ICV1	ICV	06/18/15 12:31:56 pm	4.2412	90359	
% Recovery 106.03					
ICB1	ICB	06/18/15 12:33:06 pm	-0.0186	-147	
CCV1	CCV	06/18/15 12:34:15 pm	5.6129	119502	
% Recovery 112.26					
CCB1	CCB	06/18/15 12:35:27 pm	-0.0180	-135	

: 00299

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags
PBS1	PBK	06/18/15 12:36:34 pm	-0.0141	-52	
MF9M48	UNK	06/18/15 12:37:41 pm	0.0310	906	
MF9M48D RPD 0.00	DUP	06/18/15 12:38:49 pm	0.0341	973	
MF9M48S % Recovery 110.93	MSK	06/18/15 12:39:57 pm	2.8042	59828	
MF9M49	UNK	06/18/15 12:41:05 pm	0.0311	909	
MF9M50	UNK	06/18/15 12:42:11 pm	0.0265	811	
MF9M51	UNK	06/18/15 12:43:18 pm	0.0789	1924	
MF9M52	UNK	06/18/15 12:44:25 pm	0.0783	1911	
MF9M54	UNK	06/18/15 12:45:33 pm	0.0519	1351	
MF9M55	UNK	06/18/15 12:46:40 pm	0.0359	1011	
MF9M56	UNK	06/18/15 12:47:48 pm	0.0112	487	
MF9M57	UNK	06/18/15 12:48:55 pm	0.0075	408	
MF9M58	UNK	06/18/15 12:50:02 pm	0.0005	259	
CCV2 % Recovery 112.77	CCV	06/18/15 12:51:11 pm	5.6387	120051	
CCB2	CCB	06/18/15 12:52:21 pm	-0.0186	-148	
MF9M59	UNK	06/18/15 12:53:28 pm	0.0794	1934	
MF9M60	UNK	06/18/15 12:54:36 pm	0.0382	1060	

: 00291

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags
MF9M61	UNK	06/18/15 12:55:43 pm	0.0169	606	
MF9M62	UNK	06/18/15 12:56:50 pm	0.0144	554	
MF9M63	UNK	06/18/15 12:57:58 pm	0.0547	1410	
MF9M64	UNK	06/18/15 12:59:05 pm	0.0237	752	
MF9M65	UNK	06/18/15 01:00:13 pm	0.0004	257	
MF9M66	UNK	06/18/15 01:01:21 pm	0.0549	1415	
MF9M67	UNK	06/18/15 01:02:28 pm	0.0197	667	
MF9M68	UNK	06/18/15 01:03:36 pm	-0.0092	52	
CCV3 % Recovery 110.45	CCV	06/18/15 01:04:45 pm	5.5226	117583	
CCB3	CCB	06/18/15 01:05:54 pm	-0.0471	-752	

: 00292

Analysis Parameters

Instrument M-7500 Mercury Analyzer

Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
215	20.00	40.00	33.00	1	2.00	100	253.65

ASX Pump Rate (%)
100

Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

Baseline Correction

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
7.00	12.00		

Standby Mode

Enabled: Yes

Standby Options: gas off, lamp off

Autodilution

Enabled: No

Condition:

Tube # range:

If no autodilution tubes remaining

Calibration

Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Reslope standard
Linear	No	No	Normal	0	0	N/A

Limits

Calibration slope		Reslope		Coeff. of Determination
Lower (%)	Upper (%)	Lower (%)	Upper (%)	
20	150	75	125	0.99500

Error action: Stop analysis

QC

GLP Override: Yes

QC Tests

: 00293

PBK

Concentration (ug/L)
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

CCB

Concentration (ug/L)
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICB

Concentration (ug/L)
0.2000

Failure flag: Z

Error action for manually inserted QC: Stop analysis

CCV

Concentration (ug/L)	Low Limit %	High Limit %
5.0000	85.0000	115.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICV

Concentration (ug/L)	Low Limit %	High Limit %
4.0000	85.0000	115.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

DUP

Concentration (ug/L)	Low Limit (ug/L)	High Limit (ug/L)	RPD
0.2000	-0.2000	1000.0000	20.0000

Failure flag: D

Error action for manually inserted QC: Flag and continue

MSK

Concentration (ug/L)	Low Limit %	High Limit %
2.5000	75.0000	125.0000

Failure flag: N

Error action for manually inserted QC: Flag and continue

: 00294

ISM 3050B PHYSICAL DESCRIPTION

Sample ID	Matrix	Method	Prep Date	Amount Sample Used(g)	Final Sample Volume	PH	Color/Clarity/Texture Before Color	Before Texture	After Color	After Clarity	Init.
PBS1	ASTM Type II H_2O	3050B	06/11/2015	NA	100 mL	NA	Colorless	Clear	Colorless	Clear	SW
LCS1	ASTM Type II H_2O			NA			Colorless	Clear	Colorless	Clear	
MF9M48	Soil			1.2643			Brown	Medium	Colorless	Clear	
MF9M48S				1.2597			Brown	Medium	Colorless	Clear	
MF9M48D				1.2635			Brown	Medium	Colorless	Clear	
MF9M49				1.0741			Brown	Medium	Colorless	Clear	
MF9M50				1.1989			Brown	Medium	Colorless	Clear	
MF9M51				1.1200			Brown	Medium	Colorless	Clear	
MF9M52				1.3324			Brown	Medium	Colorless	Clear	
MF9M54				1.3041			Brown	Medium	Colorless	Clear	
MF9M55				1.1946			Brown	Medium	Colorless	Clear	
MF9M56				1.0066			Brown	Medium	Colorless	Clear	
MF9M57				1.1361			Brown	Medium	Colorless	Clear	
MF9M58				1.1413			Brown	Medium	Colorless	Clear	
MF9M59				1.3556			Brown	Medium	Colorless	Clear	
MF9M60				1.3008			Brown	Medium	Colorless	Clear	
MF9M61				1.1549			Brown	Medium	Colorless	Clear	
MF9M62				1.2350			Brown	Medium	Colorless	Clear	
MF9M63				1.3993			Brown	Medium	Colorless	Clear	
MF9M64				1.1748			Brown	Medium	Colorless	Clear	
MF9M65				1.3484			Brown	Medium	Colorless	Clear	
MF9M66				1.3355			Brown	Medium	Colorless	Clear	
MF9M67				1.3095			Brown	Medium	Colorless	Clear	
MF9M68				1.2752			Brown	Medium	Colorless	Clear	

PREPARED BY:
Shane Stewart
Shaina Wiest

START DATE/TIME:
06/11/2015 11:26
END DATE/TIME:
06/12/2015 08:30
WORKORDER(S):
1515632

SDG:
MF9M48
CASE:
45299
METHOD/MATRIX:
3050B/Soil
BATCH:
5372
HBN #:
150266
MOD:
NA

ALS

QC ID	QC TYPE	MATRIX SOURCE	SPIKE SOURCE	PIPETTE ID	VOLUME SPIKED	INITIALS	Method Reagents	
PBS1	PBS	ASTM Type II H_2O	NA	NA	NA	SW	1:1 HNO_3 Baker LOT #:	0000104117
LCS1	LCS	ASTM Type II H_2O	27708	WR-22	2000 µl		CONC. HNO_3 Baker LOT #:	0000104117
MF9M48S	MS	MF9M48	24679 24680	WR-22	200 µl		30% H_2O_2 Macron LOT #:	0000086427
MF9M48D	MD	MF9M48	NA	NA	NA		CONC. HCl EMD LOT #:	54310

BALANCE ID:

102683

Samples and QCs prepared by Shaina Wiest, supervised by Shane Stewart. Samples weighed and transferred into 100 mL flat-bottom tubes. QCs prepared as indicated above. 10 mL 1:1 HNO_3 added to all. Samples covered and placed on hotblock at ~95°C for 10 minutes, removed from heat, and allowed to cool. 5 mL concentrated HNO_3 added to all. Samples returned to hotblock for 30 minutes, removed from heat, and allowed to cool. Samples were returned to heat and allowed to reduce to 5 mL. Temperature was checked with thermometer 12207430, which read 95.2 °C. Samples removed from heat. 2 mL ASTM Type II H_2O and 3 mL 30% H_2O_2 added, returned to hotblock, and heated until bubbling reaction subsided. Samples removed from heat. An additional 1 mL of H_2O_2 was added to all samples and heated until effervesence subsided. Samples removed from heat and allowed to cool. Samples returned to heat and allowed reduce to 5 mL. Samples removed from heat and allowed to cool. 10 mL conc. HCl added. Samples returned to hotblock for 15 minutes, removed from heat, and allowed to cool. Samples diluted to 100 mL final volume with ASTM Type II H_2O. Samples inverted several times to mix. Samples transferred to 50 mL tubes for analysis.

ISM01.3 3050B PHYSICAL DESCRIPTION

Sample ID	Matrix	Method	Prep Date	Amount Sample Used (g)	Final Sample Volume	PH	Color/Clarity/Texture Before Color	Before Texture	After Color	After Clarity	Init.
PBS1	ASTM Type II H_2O	3050B	06/16/15	1.0000	100 mL	NA	NA	NA	Colorless	Clear	JTK
LCS1	ASTM Type II H_2O			1.0000	100 mL		NA	NA	Colorless	Clear	
MF9M48	ASTM Type II H_2O			1.3729	100 mL		Brown	Medium	Colorless	Clear	
MF9M48S	Soil			1.3750	100 mL		Brown	Medium	Colorless	Clear	
MF9M48D				1.3755	100 mL		Brown	Medium	Colorless	Clear	
MF9M49				1.4760	100 mL		Brown	Medium	Colorless	Clear	
MF9M50				1.4119	100 mL		Brown	Medium	Colorless	Clear	
MF9M51				1.4159	100 mL		Brown	Medium	Colorless	Clear	
MF9M52				1.1500	100 mL		Brown	Medium	Colorless	Clear	
MF9M54				1.2041	100 mL		Brown	Medium	Colorless	Clear	
MF9M55				1.0951	100 mL		Brown	Medium	Colorless	Clear	
MF9M56				1.2499	100 mL		Brown	Medium	Colorless	Clear	
MF9M57				1.3057	100 mL		Brown	Medium	Colorless	Clear	
MF9M58				1.4583	100 mL		Brown	Medium	Colorless	Clear	
MF9M59				1.0903	100 mL		Brown	Medium	Colorless	Clear	
MF9M60				1.0155	100 mL		Brown	Medium	Colorless	Clear	
MF9M61				1.1094	100 mL		Brown	Medium	Colorless	Clear	
MF9M62				1.3035	100 mL		Brown	Medium	Colorless	Clear	
MF9M63				1.3407	100 mL		Brown	Medium	Colorless	Clear	
MF9M64				1.4426	100 mL		Brown	Medium	Colorless	Clear	
MF9M65				1.2594	100 mL		Brown	Medium	Colorless	Clear	
MF9M66				1.1700	100 mL		Brown	Medium	Colorless	Clear	
MF9M67				1.2183	100 mL		Brown	Medium	Colorless	Clear	
MF9M68				1.2398	100 mL		Brown	Medium	Colorless	Clear	

PREPARED BY:
John Kershisnik

START DATE/TIME:
06/16/15 09:11
END DATE/TIME:
06/18/15 17:30
WORKORDER(S):
1515632

ISM01.3
SDG: MF9M48
CASE: 45299

METHOD/MATRIX:
3050B/Soil
BATCH:
EMS / 4144
HBN #:
150339

Balance ID:
102683

Mod:
NA

QC ID	QC Type	Matrix Source	Spike Source	Pipette ID	Volume Spiked	Initials	Method Reagents		Pipette ID
PBS1	PBS	ASTM Type II H_2O	NA	NA	NA	JTK	1:1 HNO_3 LOT #:	MS-15-113 (4184/98)	ICP-10G
LCS1	LCS	ASTM Type II H_2O	23704	2163121	1 mL		CONC. HNO_3 LOT #:	BDH: 1213120	ICP-10G
MF9M48S	MS	MF9M48	25853	2163121	1 mL		30% H_2O_2 LOT #:	Macron: 0000097855	NA
MF9M48D	MD	MF9M48	NA	NA	NA				

06/16/2015 09:11, samples weighed out by Jennifer Wilkinson. Rinsed digestion tubes (SCP Science lot # J210000-263), watch glasses and caps with ASTM Type II water. Samples weighed and transferred into digestion tubes. 06/18/2015 09:15, PBS and LCS are 1 g. aliquots of ASTM Type II water. Spiked as indicated above, added 10 mL of 1:1 HNO_3 to each sample and covered with caps. Time in 10:20. Heated samples to 95°C (±3°), then refluxed for 15 minutes, removed from heat and cooled. Added 5 mL concentrated nitric acid and refluxed for 30 minutes, checking for brown fumes. Exchanged caps for ribbed watch glasses and refluxed for 2 hours. Temperature checked using thermometer 111469466 at 11:45, 94.7 °C. Removed from heat and cooled. Added 2 mL of ASTM Type II water and 3 mL of 30% H2O2, heated with caps on, checking for effervescence. Replaced caps with ribbed watch glasses and continued to heat for 2 hours. Allowed samples to cool and transferred samples to well rinsed 100 mL class A volumetric flasks. Brought samples to volume with ASTM Type II water, stoppered and shook samples to mix. Transferred about 50 mL of samples back to digestion tubes and capped.

ISM01.3-7471B Hg-Soil: Electronic Physical Description Log

File Location: ALSltws013\AA_current\Mercury\Hg-EPA-CLP-DATA			File Name: PD-HGS-MF9M48-150236
HBN: 150236	Case: 45299	SDG: MF9M48	Mercury in EPA-CLP soil
Workorder ID(s): 1515632			

	EPA Sample ID	Matrix	Method **	Prep Date and Time	Amount of Sample Used (g)	Final Volume of Samples (mL)	pH	Color Before	Texture Before	Color After $NH_2OH \cdot HCl$	Clarity After $NH_2OH \cdot HCl$	Init.
Calibration Standards	S0	ASTM Type II H_2O	ISM01.3 7471B	06/17/2015 12:03	NA	100mL + 36mL reagents	NA	Colorless	NA	Colorless	Clear	CRH
Calibration Standards	S0.2											
Calibration Standards	S0.5											
Calibration Standards	S1.0											
Calibration Standards	S5.0/CCVs											
Calibration Standards	S10											
	ICV							Yellow				
	ICB/CCBs							Colorless				
	PBS1							Colorless				
	MF9M48	Soil			0.5381			Brown	Medium	Colorless	Clear	
	MF9M48S				0.5360			Brown	Medium	Colorless	Clear	
	MF9M48D				0.5370			Brown	Medium	Colorless	Clear	
	MF9M49				0.5098			Brown	Medium	Colorless	Clear	
	MF9M50				0.5753			Brown	Medium	Colorless	Clear	
	MF9M51				0.5588			Brown	Medium	Colorless	Clear	
	MF9M52				0.5463			Brown	Medium	Colorless	Clear	
	MF9M54				0.5215			Brown	Medium	Colorless	Clear	
	MF9M55				0.5066			Brown	Medium	Colorless	Clear	
	MF9M56				0.5327			Brown	Medium	Colorless	Clear	
	MF9M57				0.5459			Brown	Medium	Colorless	Clear	
	MF9M58				0.5758			Brown	Medium	Colorless	Clear	
	MF9M59				0.5478			Brown	Medium	Colorless	Clear	
	MF9M60				0.5585			Brown	Medium	Colorless	Clear	
	MF9M61				0.5356			Brown	Medium	Colorless	Clear	
	MF9M62				0.5900			Brown	Medium	Colorless	Clear	
	MF9M63				0.5544			Brown	Medium	Colorless	Clear	
	MF9M64				0.5329			Brown	Medium	Colorless	Clear	
	MF9M65				0.5402			Brown	Medium	Colorless	Clear	
	MF9M66				0.5821			Brown	Medium	Colorless	Clear	
	MF9M67				0.5314			Brown	Medium	Colorless	Clear	
	MF9M68				0.5420			Brown	Medium	Colorless	Clear	

ISM01.3-7471B Mercury Standards Preparation Description

Sample ID.	Solution used	Amount	Description of solution	Std. final volume	Std. final conc.
S0, ICB, CCBs, PBS1	NA	NA	NA	100mL sample + 36mL reagents	0 µg/L Hg
S0.2	Hg STD B (28389)	200 µL	STD B = 0.1 mg/L Hg		0.2 µg/L Hg
S0.5		500 µL			0.5 µg/L Hg
S1.0	Hg STD A (28388)	100 µL	STD A = 1.0 mg/L Hg		1.0 µg/L Hg
S5.0, CCVs		500 µL			5.0 µg/L Hg
S10		1000 µL			10 µg/L Hg
ICV	ICV5-0508 Hg (21478)	1000 µL	Hg CLP-ICV = 0.4 mg/L Hg		4.0 µg/L Hg
MS	Hg STD A (28388)	250 µL	STD A = 1.0 mg/L Hg		2.5 µg/L Hg
MD	NA	NA	NA		NA

Comments: NONE

% Moistures & Solids

Analyst: IJQ
Queue: EGRV
Batch: 5204
Instrument: GRAV03

Oven Start Time	06/08/2015 14:00	**Start Oven Temp:**	105°	**Start Desiccator:**	06/09/2015 09:00
Oven Finish Time	06/09/2015 09:00	**End Oven Temp:**	105°	**End Desiccator:**	06/09/2015 10:00

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1515632	1	1515632001	1.2715	9.8220	8.5505	8.2808	7.0093	81.9753%	18.0247%
1515632	2	450495	1.2808	9.9439	8.6631	8.4549	7.1741	82.8122%	17.1878%
1515632	3	1515632004	1.2735	9.4064	8.1329	7.7310	6.4575	79.3997%	20.6003%
1515632	4	1515632005	1.2692	9.7759	8.5067	7.7629	6.4937	76.3363%	23.6637%
1515632	5	1515632006	1.2919	9.8629	8.5710	8.1350	6.8431	79.8402%	20.1598%
1515632	6	1515632007	1.2678	9.6153	8.3475	7.9471	6.6793	80.0156%	19.9844%
1515632	7	1515632008	1.2791	9.5992	8.3201	7.9028	6.6237	79.6108%	20.3892%
1515632	8	1515632009	1.2726	9.8424	8.5698	7.9241	6.6515	77.6156%	22.3844%
1515632	9	1515632010	1.2779	9.9614	8.6835	8.7824	7.5045	86.4225%	13.5775%
1515632	10	1515632011	1.2770	9.9941	8.7171	8.8075	7.5305	86.3877%	13.6123%
1515632	11	1515632012	1.2817	9.7003	8.4186	8.5153	7.2336	85.9240%	14.0760%
1515632	12	1515632013	1.2794	9.6988	8.4194	8.1431	6.8637	81.5224%	18.4776%
1515632	13	1515632014	1.2817	9.7990	8.5173	8.5367	7.2550	85.1796%	14.8204%
1515632	14	1515632015	1.2737	9.8016	8.5279	8.6930	7.4193	87.0003%	12.9997%
1515632	15	1515632016	1.2751	9.8691	8.5940	8.7896	7.5145	87.4389%	12.5611%
1515632	16	1515632017	1.2664	9.7929	8.5265	8.5204	7.2540	85.0759%	14.9241%
1515632	17	1515632018	1.2778	9.6326	8.3548	8.5566	7.2788	87.1212%	12.8788%
1515632	18	1515632019	1.2672	9.5966	8.3294	8.4746	7.2074	86.5296%	13.4704%
1515632	19	1515632020	1.2700	9.7089	8.4389	8.3081	7.0381	83.4007%	16.5993%
1515632	20	1515632021	1.2688	9.6622	8.3934	8.2647	6.9959	83.3500%	16.6500%
1515632	21	1515632022	1.2695	9.6648	8.3953	8.4347	7.1652	85.3478%	14.6522%

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 03JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

THU - 04 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 4947 5817

XH BTFA

84123
UT-US
SLC

537J1/A0E/EE4B

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06/04/2015 09:15

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502230sur

Ship Date: 03JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

THU - 04 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 4920 3043

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06/04/2015 09:15

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1,, DC-2 and in the SDG Administrative Narrative (if it is required).

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: MF9M48

[X] ICPAES [X] ICPMS [X] HG [ ] CN

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW09036

Case No.: 45299

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Program: ISM01.3

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MF9M48	7) MF9M55	13) MF9M61	19) MF9M67
2) MF9M49	8) MF9M56	14) MF9M62	20) MF9M68
3) MF9M50	9) MF9M57	15) MF9M63	21)
4) MF9M51	10) MF9M58	16) MF9M64	22)
5) MF9M52	11) MF9M59	17) MF9M65	23)
6) MF9M54	12) MF9M60	18) MF9M66	24)

MF9M48

First Sample in SDG

MF9M68

Last Sample in SDG

06/04/15

First Sample Receipt Date

06/04/15

Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: /S/ Roxanne Olson

Date: 6/5/2015 10:43:06 AM

(/S/ is an electronic signature that complies with 21 CFR Part 11)

EPA Sample Receipt History

Client: U. S. EPA Region 6 **Contract:** EPW09036 **Case:** **45299** **SDG:** **MF9M48** **Mod:** None

Due to Client: **Thu, Jun 25, 2015** **TAT:** 21 **Date Reported:** Not Reported **Status:** **CLOSED**

Workorder Information **Program:** ISM01.3 **Region:** 6 **EDD Level:** 2b

Work Order	Received	PR	Fractions
1515632	06/04/15 9:15 AM	No	ICP-AES, ICP-MS, Mercury

Sample Information

Lab ID	Client ID	Type	Matrix	ICPAES	ICPMS	HG	CN
1515632001	MF9M48	SAMPLE	Soil[S]	X	X	X	☐
1515632003	MF9M48D	MD	Soil	X	X	X	☐
1515632002	MF9M48S	MS	Soil[S]	X	X	X	☐
1515632004	MF9M49	SAMPLE	Soil[S]	X	X	X	☐
1515632005	MF9M50	SAMPLE	Soil[S]	X	X	X	☐
1515632006	MF9M51	SAMPLE	Soil[S]	X	X	X	☐
1515632007	MF9M52	SAMPLE	Soil[S]	X	X	X	☐
1515632008	MF9M54	SAMPLE	Soil[S]	X	X	X	☐
1515632009	MF9M55	SAMPLE	Soil[S]	X	X	X	☐
1515632010	MF9M56	SAMPLE	Soil[S]	X	X	X	☐
1515632011	MF9M57	SAMPLE	Soil[S]	X	X	X	☐
1515632012	MF9M58	SAMPLE	Soil[S]	X	X	X	☐
1515632013	MF9M59	SAMPLE	Soil[S]	X	X	X	☐
1515632014	MF9M60	SAMPLE	Soil[S]	X	X	X	☐
1515632015	MF9M61	SAMPLE	Soil[S]	X	X	X	☐
1515632016	MF9M62	SAMPLE	Soil[S]	X	X	X	☐
1515632017	MF9M63	SAMPLE	Soil[S]	X	X	X	☐
1515632018	MF9M64	SAMPLE	Soil[S]	X	X	X	☐
1515632019	MF9M65	SAMPLE	Soil[S]	X	X	X	☐
1515632020	MF9M66	SAMPLE	Soil[S]	X	X	X	☐
1515632021	MF9M67	SAMPLE	Soil[S]	X	X	X	☐
1515632022	MF9M68	SAMPLE	Soil[S]	X	X	X	☐

Field Samples: **20** **MS:** **1** **MSD:** 0 **MD:** **1** **PE:** 0

Report Parameters = SDG:MF9M48 Case:<NULL> Region:<NULL>
Mod:<NULL> Workorder:<NULL> BeginDate:<NULL> EndDate:<NULL>
OpenSummary:No SortBy:Case

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/03/2015 07:55	MF9M48	1515632001		Soil/Solid/Sediment	A	1	A	A	A
2	06/03/2015 07:55	MF9M48S	1515632002	MS	Soil/Solid/Sediment	A	1	A	A	A
3	06/03/2015 07:55	MF9M48D	1515632003	MD	Soil/Solid/Sediment	A	1	A	A	A
4	06/03/2015 08:05	MF9M49	1515632004		Soil/Solid/Sediment	A	1	A	A	A
5	06/03/2015 08:10	MF9M50	1515632005		Soil/Solid/Sediment	A	1	A	A	A
6	06/03/2015 08:25	MF9M51	1515632006		Soil/Solid/Sediment	A	1	A	A	A
7	06/03/2015 08:30	MF9M52	1515632007		Soil/Solid/Sediment	A	1	A	A	A
8	06/03/2015 08:45	MF9M54	1515632008		Soil/Solid/Sediment	A	1	A	A	A
9	06/03/2015 09:00	MF9M55	1515632009		Soil/Solid/Sediment	A	1	A	A	A
10	06/03/2015 09:15	MF9M56	1515632010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 [illegible]	SB	storage
R_33_15BIJO	06/08/15 16:00	[illegible]	Solid
[illegible]	06/08/15 16:00	R_33_15BIJO	storage
R33-1 SB SS	06/10/2015 0230	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP
Prepared / Analyzed by: SW
Lab Notebook No.: Network
Date / Time: 06/10/2015 0230

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Metals prep SW	06/12/2015 0830	SW 06/12/15 ~~08:30~~ ICP SW lab	analysis

Thu, 06/04/15 7:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/03/2015 09:20	MF9M57	1515632011		Soil/Solid/Sediment	A	1	A	A	A
12	06/03/2015 09:25	MF9M58	1515632012		Soil/Solid/Sediment	A	1	A	A	A
13	06/03/2015 09:30	MF9M59	1515632013		Soil/Solid/Sediment	A	1	A	A	A
14	06/03/2015 09:45	MF9M60	1515632014		Soil/Solid/Sediment	A	1	A	A	A
15	06/03/2015 09:50	MF9M61	1515632015		Soil/Solid/Sediment	A	1	A	A	A
16	06/03/2015 09:55	MF9M62	1515632016		Soil/Solid/Sediment	A	1	A	A	A
17	06/03/2015 10:20	MF9M63	1515632017		Soil/Solid/Sediment	A	1	A	A	A
18	06/03/2015 10:25	MF9M64	1515632018		Soil/Solid/Sediment	A	1	A	A	A
19	06/03/2015 10:30	MF9M65	1515632019		Soil/Solid/Sediment	A	1	A	A	A
20	06/03/2015 11:05	MF9M66	1515632020		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
Carlson	06/04/2015 19:30	5B	storage
R-33-1 5B IJO	06/08/15 10:00	Steve Orvalle	solid
Steve Orvalle	06/08/15 16:00	R-33-15B IJO	storage
R33-1 5B SS	06/10/2015 0730	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP

Prepared / Analyzed by: SW

Lab Notebook No.: Network

Date / Time: 06/10/2015 0730

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Metals prep SW	06/12/2015 08:30	ICP lab SW	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
21	06/03/2015 11:10	MF9M67	1515632021		Soil/Solid/Sediment	A	1	A	A	A
22	06/03/2015 11:15	MF9M68	1515632022		Soil/Solid/Sediment	A	1	A	A	A
23										
24										
25										
26										
27										
28										
29										
30										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 15:20	5B	storage
R_33_15BIJO	06/08/15 10:00	[illegible]	solid
[illegible]	06/08/15 16:00	R_33_15BIJO	storage
R33-1 5B SS	06/10/2015 0730	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP
Lab Notebook No.: Network
Prepared / Analyzed by: SW
Date / Time: 06/10/2015 0230

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Metals prep SW	06/12/2015 08:30	ICP lab SW	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/03/2015 07:55	MF9M48	1515632001		Soil/Solid/Sediment	A	1	A	A	A
2	06/03/2015 07:55	MF9M48S	1515632002	MS	Soil/Solid/Sediment	A	1	A	A	A
3	06/03/2015 07:55	MF9M48D	1515632003	MD	Soil/Solid/Sediment	A	1	A	A	A
4	06/03/2015 08:05	MF9M49	1515632004		Soil/Solid/Sediment	A	1	A	A	A
5	06/03/2015 08:10	MF9M50	1515632005		Soil/Solid/Sediment	A	1	A	A	A
6	06/03/2015 08:25	MF9M51	1515632006		Soil/Solid/Sediment	A	1	A	A	A
7	06/03/2015 08:30	MF9M52	1515632007		Soil/Solid/Sediment	A	1	A	A	A
8	06/03/2015 08:45	MF9M54	1515632008		Soil/Solid/Sediment	A	1	A	A	A
9	06/03/2015 09:00	MF9M55	1515632009		Soil/Solid/Sediment	A	1	A	A	A
10	06/03/2015 09:15	MF9M56	1515632010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 [illegible]	5B	storage
R-33-15BIJD	06/08/15 10:00	[illegible]	Solid
[illegible]	06/08/15 16:00	R-33-15BIJD	storage
R331 5B SS	06/10/2015 0730	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP-MS
Prepared / Analyzed by: John Kershisnik
Lab Notebook No.: 150339
Date / Time: 06/16/2015 09:11

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
John Kershisnik	06/18/2015 17:30	ICP-MS Lab JK	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/03/2015 09:20	MF9M57	1515632011		Soil/Solid/Sediment	A	1	A	A	A
12	06/03/2015 09:25	MF9M58	1515632012		Soil/Solid/Sediment	A	1	A	A	A
13	06/03/2015 09:30	MF9M59	1515632013		Soil/Solid/Sediment	A	1	A	A	A
14	06/03/2015 09:45	MF9M60	1515632014		Soil/Solid/Sediment	A	1	A	A	A
15	06/03/2015 09:50	MF9M61	1515632015		Soil/Solid/Sediment	A	1	A	A	A
16	06/03/2015 09:55	MF9M62	1515632016		Soil/Solid/Sediment	A	1	A	A	A
17	06/03/2015 10:20	MF9M63	1515632017		Soil/Solid/Sediment	A	1	A	A	A
18	06/03/2015 10:25	MF9M64	1515632018		Soil/Solid/Sediment	A	1	A	A	A
19	06/03/2015 10:30	MF9M65	1515632019		Soil/Solid/Sediment	A	1	A	A	A
20	06/03/2015 11:05	MF9M66	1515632020		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 19:30	5B	storage
R-33-1 5B IJO	06/08/15 10:00	[illegible] Orville	solid
[illegible] Orville	06/08/15 16:00	R-33-15B IJO	storage
R33-1 5B SS	06/10/2015 0730	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP-MS

Lab Notebook No.: 150339

Prepared / Analyzed by: John Kershishnik

Date / Time: 06/16/2015 09:11

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
John Kershishnik	06/18/2015 17:30	ICP-MS Lab JK	Analysis

Thu, 06/04/15 7:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
21	06/03/2015 11:10	MF9M67	1515632021		Soil/Solid/Sediment	A	1	A	A	A
22	06/03/2015 11:15	MF9M68	1515632022		Soil/Solid/Sediment	A	1	A	A	A
23										
24										
25										
26										
27										
28										
29										
30										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 19:20	5B	storage
R-33-15B JJO	06/08/15 10:00	[illegible]	solid
[illegible]	06/08/15 16:00	R-33-15B JJO	storage
R33-1 5B SS	06/10/2015 0230	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP-MS

Lab Notebook No.: 150339

Prepared / Analyzed by: John Kershisnik

Date / Time: 06/16/2015 09:11

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
John Kershisnik	06/18/2015 17:30	ICP-MS Lab JK	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/03/2015 07:55	MF9M48	1515632001		Soil/Solid/Sediment	A	1	A	A	A
2	06/03/2015 07:55	MF9M48S	1515632002	MS	Soil/Solid/Sediment	A	1	A	A	A
3	06/03/2015 07:55	MF9M48D	1515632003	MD	Soil/Solid/Sediment	A	1	A	A	A
4	06/03/2015 08:05	MF9M49	1515632004		Soil/Solid/Sediment	A	1	A	A	A
5	06/03/2015 08:10	MF9M50	1515632005		Soil/Solid/Sediment	A	1	A	A	A
6	06/03/2015 08:25	MF9M51	1515632006		Soil/Solid/Sediment	A	1	A	A	A
7	06/03/2015 08:30	MF9M52	1515632007		Soil/Solid/Sediment	A	1	A	A	A
8	06/03/2015 08:45	MF9M54	1515632008		Soil/Solid/Sediment	A	1	A	A	A
9	06/03/2015 09:00	MF9M55	1515632009		Soil/Solid/Sediment	A	1	A	A	A
10	06/03/2015 09:15	MF9M56	1515632010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 [illegible]	SB	storage
R_33_15BIJO	06/08/15 16:00	[illegible]	Solid
[illegible]	06/08/15 16:00	R_33_15BIJO	storage
R33-1 SB SS	06/10/2015 0730	metals prep SS	metals/Hg

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ISM01.3 mercury soil
Lab Notebook No.: network
Prepared / Analyzed by: CH / CH
Date / Time: 06/17/2015 12:03

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep lab CH	06/18/2015 08:54	AA/Rad Lab CH	Hg analysis
AA/Rad Lab CH	06/22/2015 12:57	Nonhazardous waste CH	Disposal

CH 06/22/2015 Disposed

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/03/2015 09:20	MF9M57	1515632011		Soil/Solid/Sediment	A	1	A	A	A
12	06/03/2015 09:25	MF9M58	1515632012		Soil/Solid/Sediment	A	1	A	A	A
13	06/03/2015 09:30	MF9M59	1515632013		Soil/Solid/Sediment	A	1	A	A	A
14	06/03/2015 09:45	MF9M60	1515632014		Soil/Solid/Sediment	A	1	A	A	A
15	06/03/2015 09:50	MF9M61	1515632015		Soil/Solid/Sediment	A	1	A	A	A
16	06/03/2015 09:55	MF9M62	1515632016		Soil/Solid/Sediment	A	1	A	A	A
17	06/03/2015 10:20	MF9M63	1515632017		Soil/Solid/Sediment	A	1	A	A	A
18	06/03/2015 10:25	MF9M64	1515632018		Soil/Solid/Sediment	A	1	A	A	A
19	06/03/2015 10:30	MF9M65	1515632019		Soil/Solid/Sediment	A	1	A	A	A
20	06/03/2015 11:05	MF9M66	1515632020		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 19:30	5B	storage
R-33-1 5B IJO	06/08/15 10:00	Flere Orville	solid
Flere Orville	06/08/15 16:00	R-33-15B IJO	storage
R33-1 5B SS	06/10/2015 0730	metals prep SS	metals/Hg

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ISM01.3 mercury soil
Lab Notebook No.: network
Prepared / Analyzed by: CH / CH
Date / Time: 06/17/2015 12:03

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep lab CH	06/18/2015 08:54	AA/Rad Lab CH	Hg analysis
AA/Rad Lab CH	06/22/2015 12:57	Nonhazardous waste CH	Disposal

CH 06/22/2015
Disposed

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1515632	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
21	06/03/2015 11:10	MF9M67	1515632021		Soil/Solid/Sediment	A	1	A	A	A
22	06/03/2015 11:15	MF9M68	1515632022		Soil/Solid/Sediment	A	1	A	A	A
23										
24										
25										
26										
27										
28										
29										
30										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/04/2015 09:15	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 19:20	5B	storage
R_33_15BIJO	06/08/15 10:00	[illegible]	solid
[illegible]	06/08/15 16:00	R_33_15BIJO	storage
R33-1 SB SS 06/10/2015 0730		metals prep SS	metals/Hg

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ISM01.3 mercury soil

Prepared / Analyzed by: CH / CH

Lab Notebook No.: network

Date / Time: 06/17/2015 12:03

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep lab CH	06/18/2015 08:54	AA/Rad Lab CH	Hg analysis
AA/Rad Lab CH	06/27/2015 12:57	Nonhazardous waste CH	Disposal

CH 06/22/2015 disposed

Batch Worklist

Batch: EIPX/ 5372 Created: 6/10/2015 10:43 Instrument: HBN: 150266

Rule: ISM ICP-AES 3050B Prep Analyst: S. Wiest Status: NA

Workorder: 1515632 SDG: MF9M48 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450980	PBS1				PBS	4		ISMAESS.4P	6198	12/7/2015	6/10/2015	
2	450981	LCS1 2ml 27708				LCS	4		ISMAESS.4P	6198	12/7/2015	6/10/2015	
3	1515632001	MF9M48				SAMPLE	4	1515632001-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
4	1515632002	MF9M48S 0.2ml 24679, 24680				MS	4	1515632002-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
5	1515632003	MF9M48D				MD	4	1515632003-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
6	1515632004	MF9M49				SAMPLE	4	1515632004-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
7	1515632005	MF9M50				SAMPLE	4	1515632005-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
8	1515632006	MF9M51				SAMPLE	4	1515632006-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
9	1515632007	MF9M52				SAMPLE	4	1515632007-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
10	1515632008	MF9M54				SAMPLE	4	1515632008-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
11	1515632009	MF9M55				SAMPLE	4	1515632009-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
12	1515632010	MF9M56				SAMPLE	4	1515632010-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
13	1515632011	MF9M57				SAMPLE	4	1515632011-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
14	1515632012	MF9M58				SAMPLE	4	1515632012-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
15	1515632013	MF9M59				SAMPLE	4	1515632013-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
16	1515632014	MF9M60				SAMPLE	4	1515632014-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
17	1515632015	MF9M61				SAMPLE	4	1515632015-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
18	1515632016	MF9M62				SAMPLE	4	1515632016-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
19	1515632017	MF9M63				SAMPLE	4	1515632017-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
20	1515632018	MF9M64				SAMPLE	4	1515632018-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
21	1515632019	MF9M65				SAMPLE	4	1515632019-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
22	1515632020	MF9M66				SAMPLE	4	1515632020-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
23	1515632021	MF9M67				SAMPLE	4	1515632021-A	I13AESS.4P	5936	12/1/2015	6/10/2015	
24	1515632022	MF9M68				SAMPLE	4	1515632022-A	I13AESS.4P	5936	12/1/2015	6/10/2015	

STANDARD REPORT

Stock Standard - ICP-CLP-CRQL

ICP-CLP-CRQL		Description - ISM CRQL Solution
Standard: 27708	**Created By:** S. Stewart	**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 4/10/2015	**Expires:** 4/10/2016
MFG Lot: J2-MEB563030	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: CLP-AES-CRQL-2		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	6 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	0.5 ug/mL
6	7440-43-9	Cadmium	0.5 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	1 ug/mL
9	7440-48-4	Cobalt	5 ug/mL
10	7440-50-8	Copper	2.5 ug/mL
11	7439-89-6	Iron	10 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1.5 ug/mL
15	7440-02-0	Nickel	4 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	3.5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	2.5 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	6 ug/mL

STANDARD REPORT

Stock Standard - ICP CLP SPK1

ICP CLP SPK1	Description - ISM ICP Matrix Spike Soln #1

Standard: 24679 **Created By:** K. Lockwood **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 7/29/2014 **Expires:** 7/1/2015
MFG Lot: F2-MEB427123 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: CLPP-SPK-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2000 ug/mL
2	7440-39-3	Barium	2000 ug/mL
3	7440-41-7	Beryllium	50 ug/mL
4	7440-47-3	Chromium	200 ug/mL
5	7440-48-4	Cobalt	500 ug/mL
6	7440-50-8	Copper	250 ug/mL
7	7439-89-6	Iron	1000 ug/mL
8	7439-96-5	Manganese	500 ug/mL
9	7440-02-0	Nickel	500 ug/mL
10	7440-22-4	Silver	50 ug/mL
11	7440-62-2	Vanadium	500 ug/mL
12	7440-66-6	Zinc	500 ug/mL

Batch Worklist

Batch: EICP/ 4990 **Created:** 6/24/2015 07:55 **Instrument:** **HBN:** 151138

Rule: ISM ICP-AES Analysis **Analyst:** J. Sanchez **Status:** WP

Workorder: 1515632 **SDG:** MF9M48 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	453223	S0				STB	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
	*k15120												
2	453224	SA				STC	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
3	453225	SB				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
4	453226	SC				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
5	453227	SD				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
6	453228	SE				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
7	453229	SF				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
8	453230	S500000				STD	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
9	453231	ICV1				ICV	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
10	453232	ICB1				ICB	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
11	453233	ICSA1				ICSA	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
12	453234	ICSAB1				ICSAB	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
13	453235	CCV1				CCV	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
14	453236	CCB1				CCB	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
15	450980	PBS1	1 grams	100 mL		PBS	4		ISMAESS..4	6198	12/7/2015	6/24/2015	
16	450981	LCS1	1 grams	100 mL		LCS	4		ISMAESS..4	6198	12/7/2015	6/24/2015	
17	1515632001	MF9M48	1.2643 grams	100 mL		SAMPLE	4	1515632001-A	I13AESS..4	5936	12/1/2015	6/24/2015	
18	1515632002	MF9M48S	1.2597 grams	100 mL		MS	4	1515632002-A	I13AESS..4	5936	12/1/2015	6/24/2015	
19	1515632003	MF9M48D	1.2635 grams	100 mL		MD	4	1515632003-A	I13AESS..4	5936	12/1/2015	6/24/2015	
20	453237	MF9M48L				SD	4		ISMAESW..3	5967	12/1/2015	6/24/2015	
21	1515632004	MF9M49	1.0741 grams	100 mL		SAMPLE	4	1515632004-A	I13AESS..4	5936	12/1/2015	6/24/2015	
22	1515632005	MF9M50	1.1989 grams	100 mL		SAMPLE	4	1515632005-A	I13AESS..4	5936	12/1/2015	6/24/2015	
23	1515632006	MF9M51	1.12 grams	100 mL		SAMPLE	4	1515632006-A	I13AESS..4	5936	12/1/2015	6/24/2015	
24	1515632007	MF9M52	1.3324 grams	100 mL		SAMPLE	4	1515632007-A	I13AESS..4	5936	12/1/2015	6/24/2015	
25	1515632008	MF9M54	1.3041 grams	100 mL		SAMPLE	4	1515632008-A	I13AESS..4	5936	12/1/2015	6/24/2015	
26	1515632009	MF9M55	1.1946 grams	100 mL		SAMPLE	4	1515632009-A	I13AESS..4	5936	12/1/2015	6/24/2015	
27	1515632010	MF9M56	1.0066 grams	100 mL		SAMPLE	4	1515632010-A	I13AESS..4	5936	12/1/2015	6/24/2015	
28	1515632011	MF9M57	1.1361 grams	100 mL		SAMPLE	4	1515632011-A	I13AESS..4	5936	12/1/2015	6/24/2015	

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
29	1515632012	MF9M58	1.1413 grams	100 mL		SAMPLE	4	1515632012-A	I13AESS..4	5936	12/1/2015	6/24/2015	
30	1515632013	MF9M59	1.3556 grams	100 mL		SAMPLE	4	1515632013-A	I13AESS..4	5936	12/1/2015	6/24/2015	
31	1515632014	MF9M60	1.3008 grams	100 mL		SAMPLE	4	1515632014-A	I13AESS..4	5936	12/1/2015	6/24/2015	
32	1515632015	MF9M61	1.1549 grams	100 mL		SAMPLE	4	1515632015-A	I13AESS..4	5936	12/1/2015	6/24/2015	
33	1515632016	MF9M62	1.235 grams	100 mL		SAMPLE	4	1515632016-A	I13AESS..4	5936	12/1/2015	6/24/2015	
34	1515632017	MF9M63	1.3993 grams	100 mL		SAMPLE	4	1515632017-A	I13AESS..4	5936	12/1/2015	6/24/2015	
35	1515632018	MF9M64	1.1748 grams	100 mL		SAMPLE	4	1515632018-A	I13AESS..4	5936	12/1/2015	6/24/2015	
36	1515632019	MF9M65	1.3484 grams	100 mL		SAMPLE	4	1515632019-A	I13AESS..4	5936	12/1/2015	6/24/2015	
37	1515632020	MF9M66	1.3355 grams	100 mL		SAMPLE	4	1515632020-A	I13AESS..4	5936	12/1/2015	6/24/2015	
38	1515632021	MF9M67	1.3095 grams	100 mL		SAMPLE	4	1515632021-A	I13AESS..4	5936	12/1/2015	6/24/2015	
39	1515632022	MF9M68	1.2752 grams	100 mL		SAMPLE	4	1515632022-A	I13AESS..4	5936	12/1/2015	6/24/2015	
40	453240	MF9M48A				PDS	4		ISMAESW..3	5967	12/1/2015	6/24/2015	
	Mn-2630												
41	453238	CCV2				CCV	3		ISMAESW..3	5967	12/21/2015	6/24/2015	
42	453239	CCB2				CCB	3		ISMAESW..3	5967	12/21/2015	6/24/2015	

Batch Worklist

Batch: EMS/ 4144 **Created:** 6/11/2015 08:09 **Instrument:** **HBN:** 150339

Rule: ISM ICP-MS Soil Prep **Analyst:** J. Wilkinson **Status:** NA

Workorder: 1515632 **SDG:** MF9M48 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451160	PBS1				PBS	4		ISMMSS..4P	6196	12/8/2015	6/10/2015	
2	451161	LCSS1				LCSS	4		ISMMSS..4P	6196	12/8/2015	6/10/2015	
3	1515632001	MF9M48				SAMPLE	4	1515632001-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
4	1515632002	MF9M48S				MS	4	1515632002-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
5	1515632003	MF9M48D				MD	4	1515632003-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
6	1515632004	MF9M49				SAMPLE	4	1515632004-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
7	1515632005	MF9M50				SAMPLE	4	1515632005-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
8	1515632006	MF9M51				SAMPLE	4	1515632006-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
9	1515632007	MF9M52				SAMPLE	4	1515632007-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
10	1515632008	MF9M54				SAMPLE	4	1515632008-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
11	1515632009	MF9M55				SAMPLE	4	1515632009-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
12	1515632010	MF9M56				SAMPLE	4	1515632010-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
13	1515632011	MF9M57				SAMPLE	4	1515632011-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
14	1515632012	MF9M58				SAMPLE	4	1515632012-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
15	1515632013	MF9M59				SAMPLE	4	1515632013-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
16	1515632014	MF9M60				SAMPLE	4	1515632014-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
17	1515632015	MF9M61				SAMPLE	4	1515632015-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
18	1515632016	MF9M62				SAMPLE	4	1515632016-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
19	1515632017	MF9M63				SAMPLE	4	1515632017-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
20	1515632018	MF9M64				SAMPLE	4	1515632018-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
21	1515632019	MF9M65				SAMPLE	4	1515632019-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
22	1515632020	MF9M66				SAMPLE	4	1515632020-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
23	1515632021	MF9M67				SAMPLE	4	1515632021-A	I13MSS..4P	5936	12/1/2015	6/10/2015	
24	1515632022	MF9M68				SAMPLE	4	1515632022-A	I13MSS..4P	5936	12/1/2015	6/10/2015	

STANDARD REPORT

Stock Standard - ISM-MS-LOW

ISM-MS-LOW	Description - ISM01.3 ICP-MS LCS/Low STD

Standard: 23704 **Created By:** K. Bitner **Amount:** 250 mL
MFG: Inorganic Ventures **Create Date:** 6/6/2014 **Expires:** 7/1/2015
MFG Lot: H2-MEB527135 **Lab Lot:** ALS-54 **Usable:** Yes
Part ID: ALS-54

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	2 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	10 ug/mL
5	7440-41-7	Beryllium	1 ug/mL
6	7440-43-9	Cadmium	1 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	2 ug/mL
9	7440-48-4	Cobalt	1 ug/mL
10	7440-50-8	Copper	2 ug/mL
11	7439-89-6	Iron	200 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1 ug/mL
15	7440-02-0	Nickel	1 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	1 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	2 ug/mL

STANDARD REPORT

Stock Standard - ICPMS CLP MS

ICPMS CLP MS		Description - ICPMS CLP Matrix Spike
Standard: 25853	**Created By:** K. Bitner	**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 10/29/2014	**Expires:** 11/1/2015
MFG Lot: H2-MEB552044	**Lab Lot:** IP-PS-14-045	**Usable:** Yes
Part ID: CLP-MS-SPK-REV1		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/mL
2	7440-36-0	Antimony	10 ug/mL
3	7440-38-2	Arsenic	4 ug/mL
4	7440-39-3	Barium	200 ug/mL
5	7440-41-7	Beryllium	5 ug/mL
6	7440-43-9	Cadmium	5 ug/mL
7	7440-47-3	Chromium	20 ug/mL
8	7440-48-4	Cobalt	50 ug/mL
9	7440-50-8	Copper	25 ug/mL
10	7439-92-1	Lead	2 ug/mL
11	7439-96-5	Manganese	50 ug/mL
12	7440-02-0	Nickel	50 ug/mL
13	7782-49-2	Selenium	10 ug/mL
14	7440-22-4	Silver	5 ug/mL
15	7440-28-0	Thallium	5 ug/mL
16	7440-62-2	Vanadium	50 ug/mL
17	7440-66-6	Zinc	50 ug/mL

Batch Worklist

Batch: EMS/ 4152 **Created:** 6/23/2015 17:01 **Instrument:** ICPM02 **HBN:** 151118

Rule: ISM ICP-MS Soil Analysis **Analyst:** J. Kershisnik **Status:** WP

Workorder: 1515632 **SDG:** MF9M48 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	453174	S0				STB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
	*Run # MS215060												
2	453175	S				STC	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
3	453176	S10				STD	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
4	453177	S50				STD	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
5	453178	S200				STD	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
6	453179	S500				STD	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
7	453180	S2500				STD	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
8	453181	ICV1				ICV	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
9	453182	ICB1				ICB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
10	453183	ICSA1				ICSA	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
11	453184	ICSAB1				ICSAB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
12	453185	CCV1				CCV	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
13	453186	CCB1				CCB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
14	451160	PBS1	1 grams	100 mL		PBS	4		ISMMSS...4	6196	12/8/2015	6/24/2015	6/22/2015
15	451161	LCS1	1 grams	100 mL		LCSS	4		ISMMSS...4	6196	12/8/2015	6/24/2015	6/22/2015
16	1515632001	MF9M48	1.3729 grams	100 mL		SAMPLE	4	1515632001-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
17	1515632002	MF9M48S	1.375 grams	100 mL		MS	4	1515632002-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
18	1515632003	MF9M48D	1.3755 grams	100 mL		MD	4	1515632003-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
19	453187	MF9M48L				SD	4		ISMMSS...4	5073	12/1/2015	6/24/2015	6/22/2015
20	1515632004	MF9M49	1.476 grams	100 mL		SAMPLE	4	1515632004-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
21	1515632005	MF9M50	1.4119 grams	100 mL		SAMPLE	4	1515632005-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
22	1515632006	MF9M51	1.4159 grams	100 mL		SAMPLE	4	1515632006-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
23	1515632007	MF9M52	1.15 grams	100 mL		SAMPLE	4	1515632007-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
24	1515632008	MF9M54	1.2041 grams	100 mL		SAMPLE	4	1515632008-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
25	1515632009	MF9M55	1.0951 grams	100 mL		SAMPLE	4	1515632009-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
26	453188	CCV2				CCV	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
27	453189	CCB2				CCB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
28	1515632010	MF9M56	1.2499 grams	100 mL		SAMPLE	4	1515632010-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
29	1515632011	MF9M57	1.3057 grams	100 mL		SAMPLE	4	1515632011-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
30	1515632012	MF9M58	1.4583 grams	100 mL		SAMPLE	4	1515632012-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
31	1515632013	MF9M59	1.0903 grams	100 mL		SAMPLE	4	1515632013-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
32	1515632014	MF9M60	1.0155 grams	100 mL		SAMPLE	4	1515632014-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
33	1515632015	MF9M61	1.1094 grams	100 mL		SAMPLE	4	1515632015-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
34	1515632016	MF9M62	1.3035 grams	100 mL		SAMPLE	4	1515632016-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
35	1515632017	MF9M63	1.3407 grams	100 mL		SAMPLE	4	1515632017-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
36	1515632018	MF9M64	1.4426 grams	100 mL		SAMPLE	4	1515632018-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
37	1515632019	MF9M65	1.2594 grams	100 mL		SAMPLE	4	1515632019-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
38	1515632020	MF9M66	1.17 grams	100 mL		SAMPLE	4	1515632020-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
39	1515632021	MF9M67	1.2183 grams	100 mL		SAMPLE	4	1515632021-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
40	1515632022	MF9M68	1.2398 grams	100 mL		SAMPLE	4	1515632022-A	I13MSS...4	5936	12/1/2015	6/24/2015	6/22/2015
41	453190	CCV3				CCV	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015
42	453191	CCB3				CCB	4		ISMMSS...4	5073	12/20/2015	6/24/2015	6/22/2015

Batch Worklist

Batch: EHG/ 5876 **Created:** 6/10/2015 03:28 **Instrument:** **HBN:** 150236

Rule: ISM Mercury CS1 Prep **Analyst:** S. Stewart **Status:** NA

Workorder: 1515632 **SDG:** MF9M48 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450877	S0				STB	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
2	450878	S.02				STC	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
3	450879	S0.5				STD	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
4	450880	S1.0				STD	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
5	450881	S5.0				STD	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
6	450882	S10				STD	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
7	450883	ICV				ICV	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
8	450884	ICB				ICB	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
9	450885	CCV				CCV	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
10	450886	CCB				CCB	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
11	450887	PBS1				PBS	4		ISMHGS..4P	6180	7/6/2015	6/10/2015	
12	1515632001	MF9M48				SAMPLE	4	1515632001-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
13	1515632002	MF9M48S				MS	4	1515632002-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
14	1515632003	MF9M48D				MD	4	1515632003-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
15	1515632004	MF9M49				SAMPLE	4	1515632004-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
16	1515632005	MF9M50				SAMPLE	4	1515632005-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
17	1515632006	MF9M51				SAMPLE	4	1515632006-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
18	1515632007	MF9M52				SAMPLE	4	1515632007-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
19	1515632008	MF9M54				SAMPLE	4	1515632008-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
20	1515632009	MF9M55				SAMPLE	4	1515632009-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
21	1515632010	MF9M56				SAMPLE	4	1515632010-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
22	1515632011	MF9M57				SAMPLE	4	1515632011-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
23	1515632012	MF9M58				SAMPLE	4	1515632012-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
24	1515632013	MF9M59				SAMPLE	4	1515632013-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
25	1515632014	MF9M60				SAMPLE	4	1515632014-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
26	1515632015	MF9M61				SAMPLE	4	1515632015-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
27	1515632016	MF9M62				SAMPLE	4	1515632016-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
28	1515632017	MF9M63				SAMPLE	4	1515632017-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
29	1515632018	MF9M64				SAMPLE	4	1515632018-A	I13HGS..4P	5936	6/30/2015	6/10/2015	

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
30	1515632019	MF9M65				SAMPLE	4	1515632019-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
31	1515632020	MF9M66				SAMPLE	4	1515632020-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
32	1515632021	MF9M67				SAMPLE	4	1515632021-A	I13HGS..4P	5936	6/30/2015	6/10/2015	
33	1515632022	MF9M68				SAMPLE	4	1515632022-A	I13HGS..4P	5936	6/30/2015	6/10/2015	

ISM01.3 – Mercury in Soil: Digestion & Analysis:

Workorder and Sample Information + Prep-Batching Information

Workorder ID	HBN	SDG	Case
~~1515526~~ 1515562	150160	MF9M36	45299
CH 06/17/2015 1515632	150236	MF9M48	↓
	CH 06/17/2015		

Preparation Information

Preparer Name: Christopher R Hansen	
Prep Start Date: 06/17/2015	Prep Start Time: 12:03

Method Information

Sample IDs are verified by matching the laboratory and client sample labels. 0.5g - 0.6g representative sample aliquots are weighed, then transferred into digestion vessels, rinsing each weighing-dish with 5mL ASTM Type II H_2O into the appropriate vessel. Weights are recorded on the batch sheet.

Balance ID: 102683/102838 (weighed 06/17/2015 09:41/12:55)

10mL of ASTM Type II H_2O is added to digestion vessels for stds and QCs. Mercury Standards and QCs are spiked as indicated below. Hg concentration in standards and samples is based on a final aqueous volume of 100mL.

Prepared Standard Name	Hg Spike Used	Spiking Volume	Spike ID No.	Pipette Used	[Hg] µg/L
S0	NONE	NONE	NONE	NONE	0
S0.2	STD B:	200µL	28389	Hg-3	0.2
S0.5	0.1 µg/mL	500µL	↓	Hg-1A	0.5
S1.0	STD A:	100µL	28388	Hg-3	1.0
S5.0/CCV	1.0 µg/mL	500µL		Hg-1A	5.0
S10.0		1000µL	↓	↓	10.0
ICB/CCB/PBS	NONE	NONE	NONE	NONE	0
ICV	STD:ICV5 -0508	1000µL	21478	Hg-1A	4.0
MS	STD A	250µL	28388	↓	0.5 µg/g
MD	NONE	Hg target = Parent sample [Hg]			
MS/MD IDs:					

5mL of freshly prepared aqua-regia (3:1 HCl + HNO_3) is added to each vessel.

HCl	Lot: 54310	Manufacturer: EMD
HNO_3	Lot: 104736	Manufacturer: J.T. Baker

Samples, QCs, and standards are digested for two minutes on a hot block set to maintain a representative H_2O temp-blank at 90 ± 3 °C.

HB #: 23A	Hood #: 23	Thermometer ID: 140424727	
On this hotblock: Calstds, SDG: MF9M63			
Start Time	End Time	Start Temp	End Temp
12:53	12:55	89.3 °C	89.2 °C
HB #: 23B	Hood #: 23	Thermometer ID: 140424727	
On this hotblock: SDG: MF9M48			
Start Time	End Time	Start Temp	End Temp
12:54	12:56	88.9 °C	89.0 °C

Allow all digestion vessels to cool. Then 50mL ASTM Type II H_2O and 15 mL 5% $KMnO_4$ is added to each vessel. Purple $KMnO_4$ color should persist for 15 minutes. If not then add additional 5% $KMnO_4$ to each vessel. All standards, QCs, and samples must be given equal $KMnO_4$.

5% $KMnO_4$	Start time: 13:42	End time: 13:58	
	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 26	Made: 05/07/2015	Exp: 05/07/2016
Was additional $KMnO_4$ used? No		How much? —	

Samples, QCs, and standards are digested for thirty minutes on a hot block set to maintain a representative H_2O temp-blank at 90 ± 3 °C.

HB #: 23A	Hood #: 23	Thermometer ID: 140424727	
On this hotblock: Calstds, SDG: MF9M63			
Start Time	End Time	Start Temp	End Temp
14:02	14:32	89.4 °C	90.9 °C
HB #: 23B	Hood #: 23	Thermometer ID: 140424727	
On this hotblock: SDG: MF9M48			
Start Time	End Time	Start Temp	End Temp
14:04	14:34	87.5 °C	86.7 °C

Allow samples to cool before analysis. 50mL ASTM Type II H_2O is added to each spiked standard and 55mL ASTM Type II H_2O is added to each weighed sample and QC.

Physical description: Sample colors, textures, and clarities are recorded with the sample weights. (Colors: violet, white, brown, grey, red, blue, yellow, green, orange, or black) (Textures: coarse, medium, or fine) (Clarities: clear, cloudy, or opaque).

Preparation Comments: soil weighed by Shane Stewart

CH 06/22/2015

Analysis Information

Analyst Name: Christopher R Hansen	
Date Received for Analysis: 06/18/2015	Time Received: 08:54

12% $NH_2OH{\cdot}HCl$ is added just prior to analysis in order to reduce any remaining $KMnO_4$ from the digestion. 6 mL 12% $NH_2OH{\cdot}HCl$ is added to all standards and samples for each 15mL 5% $KMnO_4$ that were used in digestion. Mix standards and samples well by shaking capped vessels. All $KMnO_4$ color should be gone. The final volume of standards and samples is 100 mL sample + 36 mL reagents + additional reagents if required as noted in the preparation info. Because calibration standards receive the same reagents as samples the Hg concentration in all standards, QCs, and samples is calculated from the final aqueous volume of 100mL for analysis regardless of digestion reagents.

12% $NH_2OH{\cdot}HCl$	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 21	Made: 03/27/2015	Exp: 03/27/2016

CVAA Instrument Information

Type: Cold vapor atomic absorption	Wavelength: 253.7 nm
Instrument Type: CETAC M-7500	Lab ID: AACV02

Reagent Information

10% $SnCl_2$ + 7% HCl	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 23	Made: 04/14/2015	Exp: 04/14/2016
5% HCl + 5% HNO_3	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 27	Made: 05/14/2015	Exp: 05/14/2016

Run Information #1 – SDG: MF9M36

Run Date: 06/18/2015	Start Time: 11:11	End Time: 11:32
Analysis HBN: 150995	Run Data File: ~~HBN 150995~~	

Run Information #2 – SDG: MF9M48 ↳ 15174 08/22/2015

Run Date: 06/18/2015	Start Time: 12:25	End Time: 13:05
Analysis HBN: 150996	Run Data File: CV2-15175a	

Run Information #3 – SDG: CH 06/22/2015

Run Date:	Start Time:	End Time:
Analysis HBN:	NA	Run Data File:

Dilution Information

Sample	Dilution	Pipette(s)	Reason
	None		
		CH 06/22/2015	

Sample Result Information

Data Conversion: (µg/L result)(dilution factor) = (µg/L final result)

QC Control Limits: Calibration R^2 0.995 minimum; Standards ± 30%; ICV,CCV ± 15%; MS ± 25%; Sample/MD-RPD 20%

CRQL: 0.1 mg/kg [Hg]
MDL: 0.001457 mg/kg [Hg]; Effective 01/15/2015 - 01/15/2016

This log page, prep and analysis batch sheets, and any associated data is scanned and saved as a PDF file named for the analysis HBN and stored in a network folder also named for the analysis HBN. Saved to: \\AIsltws013\DataReview

Mercury reagents notebook pages are scanned and saved online to: \\AIsltws013\AAcurrent\Mercury\Reagents

ALS SOP: IT-EP-ISM-HG

Additional Information

Comments:

None CH 06/22/2015

STANDARD REPORT

Working Standard - Hg B Cal Sol

Hg B Cal Sol		**Description - Hg B Calibration Solution**
Standard: 28389	**Created By:** C. Hansen	**Amount:** 50 mL
MFG: CRH	**Create Date:** 06/15/2015	**Expires:** 06/22/2015
MFG Lot:	**Lab Lot:** HgB 061515-062215	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	48.5 mL	11/07/2025
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	1 mL	04/20/2020
28386	Hg Working	Hg CCV/Calibration Working	HgWS 061515	0.5 mL	06/22/2015

STANDARD REPORT

Working Standard - Hg A Cal Sol

Hg A Cal Sol		Description - Hg A Calibration Solution
Standard: 28388	**Created By:** C. Hansen	**Amount:** 50 mL
MFG: CRH	**Create Date:** 06/15/2015	**Expires:** 06/22/2015
MFG Lot:	**Lab Lot:** HgA 061515-062115	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	44 mL	11/07/2025
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	1 mL	04/20/2020
28386	Hg Working	Hg CCV/Calibration Working	HgWS 061515	5 mL	06/22/2015

STANDARD REPORT

Stock Standard - Hg EPA ICV

Hg EPA ICV		Description - Hg EPA ICV
Standard: 21478	**Created By:** C. Hansen	**Amount:** 125 mL
MFG: EPA Reference Material	**Create Date:** 12/2/2013	**Expires:** 12/2/2018
MFG Lot: ICV5-0508 Hg	**Lab Lot:** IHg-CLPICV	**Usable:** Yes
Part ID: ICV-5-0508 Hg		

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	400 ug/L

STANDARD REPORT

Constituent

Stock Standard - Hg WS Stock

Hg WS Stock			Description - Hg CCV/Cal Stock Solution
Standard: 26171	**Created By:** C. Hansen		**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 12/1/2015		**Expires:** 12/1/2015
MFG Lot: G2-HG02114	**Lab Lot:** InorganicVenturesHg1000		**Usable:** Yes
Part ID: AAHG1-1			

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	1000 mg/L

STANDARD REPORT

Constituent

Working Standard - Hg Working

Hg Working	Description - Hg CCV/Calibration Working

Standard:	28386	**Created By:**	C. Hansen	**Amount:**	50 mL
MFG:	CRH	**Create Date:**	06/15/2015	**Expires:**	06/22/2015
MFG Lot:		**Lab Lot:**	HgWS 061515	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	48.5 mL	11/07/2025
26171	Hg WS Stock	Hg CCV/Cal Stock Solution	InorganicVenturesHg10	0.5 mL	12/01/2015
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	1 mL	04/20/2020

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O			Description - ASTM Type II Water
Standard: 109	**Created By:** ALS Support (Lims)		**Amount:** 1000 L
MFG: DCL In House	**Create Date:** 10/6/2005		**Expires:** 11/7/2025
MFG Lot:	**Lab Lot:** LAB 109		**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	**27803**	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	4/20/2015	**Expires:**	4/20/2020
MFG Lot:	0000104117	**Lab Lot:**	HNO3 (104117)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ALS Reagent Report

ID Number: 26 Description: 5% Potassium Permanganate

Analyst: Christopher Hansen

Date Created: 05/07/2015 Expiration Date: 05/07/2016

Pipettes Used:

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

Crystalline potassium permanganate, low in mercury, ACS 99.0% min.
Alfa Aesar LOT: K15Z046.
100g potassium permanganate crystals were dissolved into 2L ASTM type II water.
Four 2L bottles (8L) were prepared.

: 00334

Batch Worklist

Batch: EHG/ 5889 **Created:** 6/22/2015 11:47 **Instrument:** **HBN:** 150996

Rule: ISM Mercury Soil Analysis **Analyst:** C. Hansen **Status:** WP

Workorder: 1515632 **SDG:** MF9M48 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	450877	S0	.5 grams	100 mL		STB	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
2	450878	S.02	.5 grams	100 mL		STC	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
3	450879	S0.5	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
4	450880	S1.0	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
5	450881	S5.0	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
6	450882	S10	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
7	450883	ICV	.5 grams	100 mL		ICV	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
8	450884	ICB	.5 grams	100 mL		ICB	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
9	450885	CCV	.5 grams	100 mL		CCV	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
10	450886	CCB	.5 grams	100 mL		CCB	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
11	450887	PBS1	.5 grams	100 mL		PBS	4		ISMHGS...4	6180	7/6/2015	6/24/2015	
12	1515632001	MF9M48	.5381 grams	100 mL		SAMPLE	4	1515632001-A	I13HGS...4	5936	6/30/2015	6/24/2015	
13	1515632002	MF9M48S	.536 grams	100 mL		MS	4	1515632002-A	I13HGS...4	5936	6/30/2015	6/24/2015	
14	1515632003	MF9M48D	.537 grams	100 mL		MD	4	1515632003-A	I13HGS...4	5936	6/30/2015	6/24/2015	
15	1515632004	MF9M49	.5098 grams	100 mL		SAMPLE	4	1515632004-A	I13HGS...4	5936	6/30/2015	6/24/2015	
16	1515632005	MF9M50	.5753 grams	100 mL		SAMPLE	4	1515632005-A	I13HGS...4	5936	6/30/2015	6/24/2015	
17	1515632006	MF9M51	.5588 grams	100 mL		SAMPLE	4	1515632006-A	I13HGS...4	5936	6/30/2015	6/24/2015	
18	1515632007	MF9M52	.5463 grams	100 mL		SAMPLE	4	1515632007-A	I13HGS...4	5936	6/30/2015	6/24/2015	
19	1515632008	MF9M54	.5215 grams	100 mL		SAMPLE	4	1515632008-A	I13HGS...4	5936	6/30/2015	6/24/2015	
20	1515632009	MF9M55	.5066 grams	100 mL		SAMPLE	4	1515632009-A	I13HGS...4	5936	6/30/2015	6/24/2015	
21	1515632010	MF9M56	.5327 grams	100 mL		SAMPLE	4	1515632010-A	I13HGS...4	5936	6/30/2015	6/24/2015	
22	1515632011	MF9M57	.5459 grams	100 mL		SAMPLE	4	1515632011-A	I13HGS...4	5936	6/30/2015	6/24/2015	
23	1515632012	MF9M58	.5758 grams	100 mL		SAMPLE	4	1515632012-A	I13HGS...4	5936	6/30/2015	6/24/2015	
24	1515632013	MF9M59	.5478 grams	100 mL		SAMPLE	4	1515632013-A	I13HGS...4	5936	6/30/2015	6/24/2015	
25	1515632014	MF9M60	.5585 grams	100 mL		SAMPLE	4	1515632014-A	I13HGS...4	5936	6/30/2015	6/24/2015	
26	1515632015	MF9M61	.5356 grams	100 mL		SAMPLE	4	1515632015-A	I13HGS...4	5936	6/30/2015	6/24/2015	
27	1515632016	MF9M62	.59 grams	100 mL		SAMPLE	4	1515632016-A	I13HGS...4	5936	6/30/2015	6/24/2015	
28	1515632017	MF9M63	.5544 grams	100 mL		SAMPLE	4	1515632017-A	I13HGS...4	5936	6/30/2015	6/24/2015	
29	1515632018	MF9M64	.5329 grams	100 mL		SAMPLE	4	1515632018-A	I13HGS...4	5936	6/30/2015	6/24/2015	

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
30	1515632019	MF9M65	.5402 grams	100 mL		SAMPLE	4	1515632019-A	I13HGS...4	5936	6/30/2015	6/24/2015	
31	1515632020	MF9M66	.5821 grams	100 mL		SAMPLE	4	1515632020-A	I13HGS...4	5936	6/30/2015	6/24/2015	
32	1515632021	MF9M67	.5314 grams	100 mL		SAMPLE	4	1515632021-A	I13HGS...4	5936	6/30/2015	6/24/2015	
33	1515632022	MF9M68	.542 grams	100 mL		SAMPLE	4	1515632022-A	I13HGS...4	5936	6/30/2015	6/24/2015	

File #: k15120

WorkOrder#	Sample #'s	Analytes/Matrix	Prep Batch HBN	Prep Date/Time	Prep Method
1515632	MF9M48-52, 54-68	See Below/Soil	150266	06/11/2015 11:26	3050B

Analytes = Al, Ca, Fe, Mg, Mn, K, Na

3050B Conversion Factor: (µg/L from instrument)(Dilution Factor)(0.1 L/1.0 g) = 0.1 µg/g

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
S0/ICB/CCB	ICP-15-040	4535/55
SA	27276	Horizon
SB	27475	Horizon
SC	27476	Horizon
SD	28122	Horizon
SE/CCV	27549	Horizon
SF	28123	Horizon
S500000	27551	Horizon
ICV	27550	Horizon
ICSA	27474	Horizon
ICSAB	28265	Horizon
Bubbler Rinse	ICP-15-030	4535/54
Internal Standard	ICP-15-033	4535/54
Rinse	ICP-15-034	4535/54

SDG # MF9M48
CASE # 45299
Account # 8201
Analysis Method: ISM01.3
Analysis Date: 06/22/2015
Instrument ID: ICP08
HBN # 151138
Analyst: Joanna Sanchez

ANALYSIS PARAMETERS:
Pump Rate = 27 rpm
RF Power = 1200 W
Auxiliary Gas = 0.5 L/min
Nebulizer Flow = 0.50 L/min
Coolant Gas Flow = 16 L/min
ASXpress Plus = 3.5 mL Loop

Dilutions: None were required.

Pipettes: ICP-10, ICP-1

Comments: No problems during analysis.

A Serial Dilution was done by combining 2 mL of MF9M48 with 8 mL of ICP-15-040 (4535/55) in a 15 mL tube.

A Post Digestion Spike was done by combining 10 mL of MF9M48 with 26.3 µL of 1000 ppm Mn in a 15 mL tube.
Post Digestion Spike Targets: Mn - 2630 1000 ppm Mn standard # 27203

Project No. N/A

TITLE ALS ENVIRONMENTAL - ICP OB INSTRUMENT ANALYSIS RUN LOGBOOK

Book No. 4699

From Page No. 58

DATE	TIME ON	TIME OFF	TOTAL TIME	METHOD	MATRIX	HBN # (S)	COMMENTS	LOW SC IS / HIGH SC IS	# OF SAMPLES	RUN#	INIT.
05/15/2015	13:14	15:00	112 MIN	6010C	TCLP	148786	N/A	3838 / 488040	6	K15094	KE
05/16/2015	09:34	11:25	111 MIN	6010C	TCLP WATER	148815	N/A	3848 / 485930	9	K15095	KE
05/18/2015	15:39	17:26	107 MIN	6010C	DS	148916	N/A	3884 / 491020	11	K15096	KE
05/19/2015	15:04	16:58	114 MIN	6010C	TCLP WATER	148970	N/A	4301 / 507620	6	K15097	KE
05/20/2015	10:46	12:06	80 MIN	6010C	WATER	148816	N/A	4106 / 491950	4	K15098	KE
05/20/2015	14:02	15:33	91 MIN	6010C	DS	149056	N/A	4141 / 495600	7	K15099	KE
05/22/2015	09:38	11:18	100 MIN	6010C	DS WATER	149179, 149181	N/A	4094 / 436930	8	K15100	KE
05/22/2015	11:37	13:36	119 MIN	6010C	WATER	149182	N/A	4064 / 436270	2	K15101	KE
05/26/2015	15:53	16:43	50 MIN	6010C	DS	149346	N/A	4113 / 450450	1	K15102	KE
05/27/2015	14:02	15:17	75 MIN	6010C	DS	149412	N/A	4281 / 507130	6	K15103	KE
05/28/2015	18:45	20:06	81 MIN	6010C	DS	149518	N/A	4230 / 501360	5	K15104	KE
05/29/2015	11:42	13:24	102 MIN	6010C	TCLP WATER	149522	N/A	4351 / 505230	6	K15105	KE
06/01/2015	14:07	15:04	57 MIN	6010C	DS	149606	N/A	4097 / 492880	3	K15106	KE
06/04/2015	12:37	16:20	223 MIN	6010C	WATER TCLP DS	149860, 149830, 149822	N/A	3928 / 515300	21	K15107	KE
06/05/2015	12:26	14:00	94 min.	ISM01.3 2015	Soil	1514325	MF9L76	4240 / 638090	12	K15108	JCS
06/08/2015	10:52	12:37	105 min.	ISM01.3 2015	Soil	1514325	MF9L76	4293 / 650040	12	K15109	JCS
06/10/2015	06:53	08:17	84 min.	ISM01.3 2015	Water	1514838 Mod 1999.4	MC0BJ2	3862 / 561000	5	K15110	JCS
06/10/2015	08:45	11:06	141 min.	ISM01.3 2015	Soil	1515388	MF9L98	3928 / 555700	20	K15111	JCS
06/11/2015	13:11	14:43	92 MIN	6010C	WATER	150345	N/A	3789 / 489460	3	K15112	KE
06/12/2015	10:59	12:58	119 min.	ISM01.3 2015	Soil	JCS 6/12/15 ~~1515554~~ 1515559	MF9M21	3434 / 466170	20	K15113	JCS
06/14/2015	09:16	11:12	116 min.	ISM01.3 2015	Soil	1515388	MF9L98	3563 / 478120	20	K15114	JCS
06/14/2015	11:26	12:38	72 min.	ISM01.3 2015	Soil	1515562	MF9M36	3562 / 497700	5	K15115	JCS
06/16/2015	09:59	11:14	75 MIN	6010C	DS	150582	N/A	3625 / 421520	4	K15116	KE
06/17/2015	15:02	16:23	81 MIN	6010C	DS	150719	N/A	3716 / 421100	9	K15117	KE
06/19/2015	10:45	12:21	96 MIN	6010C	DS TCLP	150881, 150895	N/A	3522 / 415840	6	K15118	KE
06/19/2015	12:38	14:21	103 min.	ISM01.3 2015	Soil	1515392, 1515633	MF9M15	3517 / 483610	13	K15119	JCS
06/22/2015	12:19	14:15	116 min.	ISM01.3 2015	Soil	1515632	MF9M48	3562 / 460330	20	K15120	JCS

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Project No. NA

TITLE ALS Environmental ICP Solutions/Reagents Logbook

Book No. 4535

From Page No. 53

Date	ICP Solution #	Solution Type	Primary Solution Horizon ID #	Acid Lots	Expiration Date	Recipe Page	Initials	Comments
01/26/2015	ICP-15-004	Rinse 2% HNO_3	NA	HNO_3-0000088969	07/26/2015	1	gcs	2L made
01/27/2015	ICP-15-005	2% HNO_3	NA	HNO_3-0000088969	07/27/2015	1	gcs	1L made
02/09/2015	ICP-15-006	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	08/09/2015	1	NE	2L MADE
02/17/2015	ICP-15-007	5%/5%	NA	HNO_3-0000088969 HCl-54169	08/17/2015	1	NE	2L SPLIT INTO TWO 1L BOTTLES FOR SO, DILUTENT...
02/23/2015	ICP-15-008	5%/5%	NA	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L SPLIT INTO TWO 1L BOTTLES FOR SO, DILUTENT
02/23/2015	ICP-15-009	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L BUBBLER RINSE
↓	ICP-15-010	↓	↓	↓	↓	↓	↓	↓
02/23/2015	ICP-15-011	5% YIS	Sc-27176; Y-26858	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L MADE
↓	ICP-15-012	↓	↓	↓	↓	↓	↓	↓
↓	ICP-15-013	↓	↓	↓	↓	↓	↓	↓
02/23/2015	ICP-15-014	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	10L MADE
02/23/2015	ICP-15-015	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	10L MADE
03/05/2015	ICP-15-016	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-017	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-018	5% YIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-019	5% YIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-020	5% YIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-021	2% YIS	Sc-27176, Y-26858	HNO_3-0000088969	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-022	Rinse 2% HNO_3	NA	HNO_3-0000088969	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-023	5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L split into 2-1L bottles for SO, Diluent
03/10/2015	ICP-15-024	200.7 Diluent	NA	HNO_3-0000099263 HCl-54169	09/10/2015	1	gcs	500mL made
03/13/2015	ICP-15-025	~~ISA~~ NE 03/13/2015 TAS	Zn-26859	HNO_3-0000099263 MeOH-DL599	09/13/2015	1	NE	2L MADE
03/24/2015	ICP-15-026	2% HNO_3	NA	HNO_3-0000088969	09/24/2015	1	gcs	500mL made
03/25/2015	ICP-15-027	5%/5%	NA	HNO_3-0000099263 HCl-54169	09/25/2015	1	NE	2L SPLIT INTO 2-1L BOTTLE FOR SO, DILUTENT, ETC...
04/06/2015	ICP-15-028	Rinse 2% HNO_3	NA	HNO_3-0000099263	10/06/2015	1	gcs	1L made
04/10/2015	ICP-15-029	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-030	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-031	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169, 54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-032	5% YIS	Sc-27176, Y-26858	HNO_3-0000099263 HCl-54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-033	5% YIS	Sc-27176, Y-26858	HNO_3-0000099263 HCl-54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-034	Rinse 5%/5%	NA	HCl-54028 54169 54310 HNO_3-0000088969 0000089288 0000094117	10/10/2015	1	gcs	10L made
04/10/2015	ICP-15-035	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54028 0000094117	10/10/2015	1	gcs	10L made
04/10/2015	ICP-15-036	Rinse 2% HNO_3	NA	HNO_3-0000088969	10/10/2015	1	gcs	10L made
04/23/2015	ICP-15-037	2% HNO_3	NA	HNO_3-0000099263	10/23/2015	1	gcs	500mL made
05/05/2015	ICP-15-038	5%/5%	NA	HNO_3-0000099263 HCl-54310	11/05/2015	1	NE	2L SPLIT INTO 2-1L BOTTLES FOR SO, DILUTENT, ETC...

To Page No. ____

Witnessed & Understood by me: Jeanna C Sandoval

Date: 05/08/2015

Invented by:

Recorded by:

Date: 05/05/2015

Project No. NA

TITLE ALS Environmental ICP Solutions/Reagents Logbook

Book No. 4535

From Page No. 54

Date	ICP Solution #	Solution Type	Primary Solution Horizon ID #	Acid Lots	Expiration Date	Recipe Page	Initials	Comments
05/21/2015	ICP-15-039	5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L split into 2-1L Bottles For SO, Dilutent, etc.
05/21/2015	ICP-15-040	5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L split into 2-1L Bottles For SO, Dilutent, etc.
05/21/2015	ICP-15-041	ScYIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-042	ScYIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-043	ScYIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-044	Rinse 5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-045	Rinse 5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-046	Rinse 5% / 5%	NA	HNO_3-0000099263 HCl-0000088969 54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-047	Rinse 5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-048	Rinse 5% / 5%	NA	HNO_3-0000088969 HCl-54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-049	Rinse 2% HNO_3	NA	HNO_3-0000088969	11/21/2015	1	gcs	10L made

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Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Project No. N/A

TITLE ALS Environmental ~~DATACHEM LABORATORIES~~ ICP SOLUTION / REAGENTS LOGBOOK

Book No. 4535

gs 7/25/12

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RECIPES

7.5% HNO_3 = TRANSFERRED SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150mL OF HNO_3 TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK, SHAKE TO MIX. USE FOR SO, ICB, CCB AND DILUTANT.

Sc IS = ADDED SOME WATER TO A 2L FLASK. ADD ~~75~~ 100 mL OF HNO_3 AND ~~50~~ 100 mL OF HCl. ADD 1.2mL OF A 10,000 µg/mL Sc STAND. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

7.5%/1% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150mL OF HNO_3 + 20mL OF HCl. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

2ppm Zn. = ADD SOME ASTM TYPE II H_2O TO A 200mL VOLUMETERIC FLASK. ADD 2mL OF HNO_3. SPIKE IN 40µl OF 10,000 µg/mL Zn. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER AND SHAKE WELL. USE FOR TORCH ALIGNMENT.

5%/5% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 100mL OF HNO_3 AND 100mL OF HCl TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

Thermo Torch Alignment Solution = Add some ASTM Type II H_2O to a 250 mL flask. Add 2.5 mL of HNO_3, 7.5 µL of MeOH and 50 µL of 10,000 µg/mL Zn. Bring to volume with ASTM Type II H_2O, Stopper and shake to mix. 0.03 mL/L MeOH, 2mg/L Zn in 1% HNO_3.

ScYIS = ADD SOME WATER TO A 2L FLASK, THEN ADD 100mL OF HNO_3 AND 100mL OF HCl TO THE FLASK. SPIKE IN 1.2mL OF Sc STANDARD (10,000 µg/mL) AND 0.5mL OF Y STANDARD (10,000 µg/mL). BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER AND SHAKE FLASK.

2% HNO_3 = Add some ASTM Type II H_2O to a 2L flask. Add 40mL of HNO_3 to the flask. Bring to volume with more ASTM Type II H_2O. Stopper flask and shake well. Use for SO, ICB, CCB and Serial Dilutions or use for Rinse.

2% ScYIS = Add some ASTM Type II H_2O to a 2L flask. Add 40mL of HNO_3 to the flask. Spike in 1.2mL of 10,000 µg/mL Sc standard and 0.5mL of 10,000 µg/mL Y standard. Bring to volume with more ASTM Type II H_2O. Stopper flask and shake well.

1% HNO_3/0.5% HCl (200.7 Dilutent) = Add some ASTM Type II H_2O to a 500 mL flask. Add 5.0 mL of HNO_3 and 2.5 mL of HCl to the flask. Bring to volume with more ASTM Type II water. Stopper flask and shake well. Use for diluting 200.7 samples.

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Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

STANDARD REPORT

Working Standard - ISM01.3 SA

ISM01.3 SA — **Description - ISM01.3 SA**

Standard: 27276 **Created By:** J. Sanchez **Amount:** 1000 mL
MFG: JCS **Create Date:** 03/01/2015 **Expires:** 09/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2, ICP-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/L
2	7440-36-0	Antimony	60 ug/L
3	7440-38-2	Arsenic	10 ug/L
4	7440-39-3	Barium	200 ug/L
5	7440-41-7	Beryllium	5 ug/L
6	7440-43-9	Cadmium	5 ug/L
7	7440-70-2	Calcium	5000 ug/L
8	7440-47-3	Chromium	10 ug/L
9	7440-48-4	Cobalt	50 ug/L
10	7440-50-8	Copper	25 ug/L
11	7439-89-6	Iron	100 ug/L
12	7439-92-1	Lead	10 ug/L
13	7439-95-4	Magnesium	5000 ug/L
14	7439-96-5	Manganese	15 ug/L
15	7439-98-7	Molybdenum	10 ug/L
16	7440-02-0	Nickel	40 ug/L
17	7440-09-7	Potassium	5000 ug/L
18	7782-49-2	Selenium	35 ug/L
19	7440-22-4	Silver	10 ug/L
20	7440-23-5	Sodium	5000 ug/L
21	7440-28-0	Thallium	25 ug/L
22	7440-32-6	Titanium	25 ug/L
23	7440-62-2	Vanadium	50 ug/L
24	7440-66-6	Zinc	60 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	889.65 mL	11/07/2025
24961	ICP-CLP-CRQL	ISM CRQL Solution	ICP-CLP	10 mL	09/01/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27274	10x of Mo	10x of Mo stock	ICP-CLP	0.1 mL	09/01/2015
27275	100x of Ti	100x of Ti stock	ICP-CLP	0.25 mL	09/01/2015

STANDARD REPORT

Working Standard - ISM01.3 SB

ISM01.3 SB — **Description - ISM01.3 Standard B**

Standard: 27475 **Created By:** N. Edwards **Amount:** 1000 mL
MFG: NAE **Create Date:** 03/21/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2, ICP-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	1000 ug/L
2	7440-36-0	Antimony	200 ug/L
3	7440-38-2	Arsenic	80 ug/L
4	7440-39-3	Barium	255 ug/L
5	7440-41-7	Beryllium	80 ug/L
6	7440-43-9	Cadmium	80 ug/L
7	7440-70-2	Calcium	25000 ug/L
8	7440-47-3	Chromium	200 ug/L
9	7440-48-4	Cobalt	200 ug/L
10	7440-50-8	Copper	200 ug/L
11	7439-89-6	Iron	1000 ug/L
12	7439-92-1	Lead	200 ug/L
13	7439-95-4	Magnesium	25000 ug/L
14	7439-96-5	Manganese	200 ug/L
15	7439-98-7	Molybdenum	80 ug/L
16	7440-02-0	Nickel	200 ug/L
17	7440-09-7	Potassium	25000 ug/L
18	7782-49-2	Selenium	80 ug/L
19	7440-22-4	Silver	125 ug/L
20	7440-23-5	Sodium	25000 ug/L
21	7440-28-0	Thallium	80 ug/L
22	7440-32-6	Titanium	80 ug/L
23	7440-62-2	Vanadium	200 ug/L
24	7440-66-6	Zinc	200 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	897.16 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	0.04 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	2.5 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.125 mL	08/30/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27191	Ba Low Stock	1,000 ug/mL Ba Stock	SPEX Ba 1,000 ug/mL	0.055 mL	08/23/2015

STANDARD REPORT

Working Standard - ISM01.3 SC

ISM01.3 SC		Description - ISM01.3 Standard C
Standard: 27476	**Created By:** N. Edwards	**Amount:** 1000 mL
MFG: NAE	**Create Date:** 03/21/2015	**Expires:** 07/01/2015
MFG Lot:	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ICP-2		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	5000 ug/L
2	7440-36-0	Antimony	2000 ug/L
3	7440-38-2	Arsenic	800 ug/L
4	7440-39-3	Barium	2000 ug/L
5	7440-41-7	Beryllium	800 ug/L
6	7440-43-9	Cadmium	800 ug/L
7	7440-47-3	Chromium	2000 ug/L
8	7440-48-4	Cobalt	2000 ug/L
9	7440-50-8	Copper	2000 ug/L
10	7439-89-6	Iron	5000 ug/L
11	7439-92-1	Lead	2000 ug/L
12	7439-96-5	Manganese	2000 ug/L
13	7439-98-7	Molybdenum	800 ug/L
14	7440-02-0	Nickel	2000 ug/L
15	7782-49-2	Selenium	800 ug/L
16	7440-22-4	Silver	250 ug/L
17	7440-28-0	Thallium	800 ug/L
18	7440-32-6	Titanium	800 ug/L
19	7440-62-2	Vanadium	2000 ug/L
20	7440-66-6	Zinc	2000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	898.35 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	0.2 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.25 mL	08/30/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016

STANDARD REPORT

Working Standard - ISM01.3 SD

ISM01.3 SD		Description - ISM01.3 Standard D
Standard: 28122	**Created By:** J. Sanchez	**Amount:** 500 mL
MFG: JCS	**Create Date:** 05/21/2015	**Expires:** 07/01/2015
MFG Lot:	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ICP-10, ICP-2		

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	5000 ug/L
2	7440-38-2	Arsenic	2000 ug/L
3	7439-98-7	Molybdenum	2000 ug/L
4	7782-49-2	Selenium	2000 ug/L
5	7440-32-6	Titanium	2000 ug/L
6	7440-39-3	Barium	5000 ug/L
7	7440-62-2	Vanadium	5000 ug/L
8	7440-41-7	Beryllium	2000 ug/L
9	7440-43-9	Cadmium	2000 ug/L
10	7440-48-4	Cobalt	5000 ug/L
11	7440-47-3	Chromium	5000 ug/L
12	7440-50-8	Copper	5000 ug/L
13	7439-96-5	Manganese	5000 ug/L
14	7440-02-0	Nickel	5000 ug/L
15	7439-92-1	Lead	5000 ug/L
16	7440-66-6	Zinc	5000 ug/L
17	7440-28-0	Thallium	2000 ug/L
18	7429-90-5	Aluminum	50000 ug/L
19	7439-89-6	Iron	50000 ug/L
20	7440-70-2	Calcium	125000 ug/L
21	7440-09-7	Potassium	125000 ug/L
22	7439-95-4	Magnesium	125000 ug/L
23	7440-23-5	Sodium	125000 ug/L
24	7440-22-4	Silver	500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	441 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	1 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	6.25 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.25 mL	08/30/2015
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	25 mL	04/20/2020
28120	HCl	concentrated hydrochloric acid	HCl (54310)	25 mL	01/23/2025

STANDARD REPORT

Working Standard - ISM01.3 SE

ISM01.3 SE — **Description - ISM01.3 STD E/CCV**

Standard: 27549 **Created By:** N. Edwards **Amount:** 1000 mL
MFG: NAE **Create Date:** 03/29/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** NE-032915-1 **Usable:** Yes
Part ID: ICP-10, ICP-2

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	25000 ug/L
2	7440-38-2	Arsenic	10000 ug/L
3	7439-98-7	Molybdenum	10000 ug/L
4	7782-49-2	Selenium	10000 ug/L
5	7440-32-6	Titanium	10000 ug/L
6	7440-39-3	Barium	25000 ug/L
7	7440-62-2	Vanadium	25000 ug/L
8	7440-41-7	Beryllium	10000 ug/L
9	7440-43-9	Cadmium	10000 ug/L
10	7440-48-4	Cobalt	25000 ug/L
11	7440-47-3	Chromium	25000 ug/L
12	7440-50-8	Copper	25000 ug/L
13	7439-96-5	Manganese	25000 ug/L
14	7440-02-0	Nickel	25000 ug/L
15	7439-92-1	Lead	25000 ug/L
16	7440-66-6	Zinc	25000 ug/L
17	7440-28-0	Thallium	10000 ug/L
18	7429-90-5	Aluminum	250000 ug/L
19	7439-89-6	Iron	250000 ug/L
20	7440-70-2	Calcium	250000 ug/L
21	7440-09-7	Potassium	250000 ug/L
22	7439-95-4	Magnesium	250000 ug/L
23	7440-23-5	Sodium	250000 ug/L
24	7440-22-4	Silver	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	824 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	10 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	25 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	1 mL	08/30/2015
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27078	HNO3	Concentrated Nitric Acid	HNO3 (99263)	50 mL	02/16/2020

STANDARD REPORT

Working Standard - ISM01.3 SF

ISM01.3 SF		Description - ISM01.3 Standard F
Standard: 28123	**Created By:** J. Sanchez	**Amount:** 500 mL
MFG: JCS	**Create Date:** 05/21/2015	**Expires:** 07/01/2015
MFG Lot:	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ICP-10, ICP-2		

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	50000 ug/L
2	7440-38-2	Arsenic	20000 ug/L
3	7439-98-7	Molybdenum	20000 ug/L
4	7782-49-2	Selenium	20000 ug/L
5	7440-32-6	Titanium	20000 ug/L
6	7440-39-3	Barium	50000 ug/L
7	7440-62-2	Vanadium	50000 ug/L
8	7440-41-7	Beryllium	20000 ug/L
9	7440-43-9	Cadmium	20000 ug/L
10	7440-48-4	Cobalt	50000 ug/L
11	7440-47-3	Chromium	50000 ug/L
12	7440-50-8	Copper	50000 ug/L
13	7439-96-5	Manganese	50000 ug/L
14	7440-02-0	Nickel	50000 ug/L
15	7439-92-1	Lead	50000 ug/L
16	7440-66-6	Zinc	50000 ug/L
17	7440-28-0	Thallium	20000 ug/L
18	7440-22-4	Silver	2000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	434 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	1 mL	08/30/2015
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	25 mL	04/20/2020
28120	HCl	concentrated hydrochloric acid	HCl (54310)	25 mL	01/23/2025

STANDARD REPORT

Working Standard - S500000

S500000		Description - ISM01.3 Standard 500000
Standard: 27551	**Created By:** N. Edwards	**Amount:** 1000 mL
MFG: NAE	**Create Date:** 03/29/2015	**Expires:** 09/29/2015
MFG Lot:	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	500000 ug/L
2	7439-89-6	Iron	500000 ug/L
3	7440-70-2	Calcium	500000 ug/L
4	7440-09-7	Potassium	500000 ug/L
5	7439-95-4	Magnesium	500000 ug/L
6	7440-23-5	Sodium	500000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	830 mL	11/07/2025
25303	STD-1	ISM01.3 Standard	ICP-CLP	20 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	50 mL	10/01/2015
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27078	HNO3	Concentrated Nitric Acid	HNO3 (99263)	50 mL	02/16/2020

STANDARD REPORT

Working Standard - ISM ICP ICV

ISM ICP ICV — **Description - ISM01.3 ICP ICV**

Standard: 27550 **Created By:** N. Edwards **Amount:** 500 mL
MFG: NAE **Create Date:** 03/29/2015 **Expires:** 09/29/2015
MFG Lot: ICV-1(0307) **Lab Lot:** ICV ICP-CLP **Usable:** Yes
Part ID: ICP-10

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2521 ug/L
2	7440-36-0	Antimony	994 ug/L
3	7440-38-2	Arsenic	999 ug/L
4	7440-39-3	Barium	497 ug/L
5	7440-41-7	Beryllium	495 ug/L
6	7440-43-9	Cadmium	496 ug/L
7	7440-70-2	Calcium	10026 ug/L
8	7440-47-3	Chromium	490 ug/L
9	7440-48-4	Cobalt	499 ug/L
10	7440-50-8	Copper	492 ug/L
11	7439-89-6	Iron	5082 ug/L
12	7439-92-1	Lead	1002 ug/L
13	7439-95-4	Magnesium	6074 ug/L
14	7439-96-5	Manganese	499 ug/L
15	7440-02-0	Nickel	503 ug/L
16	7440-09-7	Potassium	10021 ug/L
17	7782-49-2	Selenium	1029 ug/L
18	7440-22-4	Silver	501 ug/L
19	7440-23-5	Sodium	10097 ug/L
20	7440-28-0	Thallium	1028 ug/L
21	7440-62-2	Vanadium	501 ug/L
22	7440-66-6	Zinc	1025 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	400 mL	11/07/2025
25735	CLPICP-ICV1	CLP-ICP/ICPMS-ICV-1	ICP-CLP	50 mL	10/21/2024
26903	HCl	concentrated hydrochloric acid	HCl(54169)	25 mL	02/02/2016
27078	HNO3	Concentrated Nitric Acid	HNO3 (99263)	25 mL	02/16/2020

STANDARD REPORT

Working Standard - ISM01.3 ICSA

ISM01.3 ICSA		Description - ISM01.3 ICP ICSA
Standard: 27474	**Created By:** N. Edwards	**Amount:** 1000 mL
MFG: NAE	**Create Date:** 03/21/2015	**Expires:** 09/21/2015
MFG Lot: ICSA(1211)	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: Grad Cylinder		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	254900 ug/L
2	7440-39-3	Barium	6 ug/L
3	7440-43-9	Cadmium	1 ug/L
4	7440-70-2	Calcium	244500 ug/L
5	7440-47-3	Chromium	52 ug/L
6	7440-50-8	Copper	2 ug/L
7	7439-89-6	Iron	100700 ug/L
8	7439-95-4	Magnesium	255400 ug/L
9	7439-96-5	Manganese	7 ug/L
10	7440-02-0	Nickel	2 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	800 mL	11/07/2025
21455	CLPICP-ICS-A	CLP-ICP-ICS-Part A	ICP-CLP	100 mL	11/27/2023
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016

STANDARD REPORT

Working Standard - ISM ICSAB

ISM ICSAB		Description - ISM01.3 ICSAB
Standard: 28265	**Created By:** J. Sanchez	**Amount:** 200 mL
MFG: JCS	**Create Date:** 06/05/2015	**Expires:** 12/05/2015
MFG Lot: ICSAB-(1211/0710)	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ICP-10		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	246800 ug/L
2	7440-39-3	Barium	537 ug/L
3	7440-43-9	Cadmium	972 ug/L
4	7440-70-2	Calcium	234900 ug/L
5	7440-47-3	Chromium	542 ug/L
6	7440-50-8	Copper	511 ug/L
7	7439-89-6	Iron	99320 ug/L
8	7439-95-4	Magnesium	248000 ug/L
9	7439-96-5	Manganese	507 ug/L
10	7440-02-0	Nickel	954 ug/L
11	7440-36-0	Antimony	618 ug/L
12	7440-38-2	Arsenic	104 ug/L
13	7440-41-7	Beryllium	495 ug/L
14	7440-48-4	Cobalt	476 ug/L
15	7439-92-1	Lead	49 ug/L
16	7782-49-2	Selenium	46 ug/L
17	7440-22-4	Silver	201 ug/L
18	7440-28-0	Thallium	108 ug/L
19	7440-62-2	Vanadium	491 ug/L
20	7440-66-6	Zinc	952 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	140 mL	11/07/2025
21455	CLPICP-ICS-A	CLP-ICP-ICS-Part A	ICP-CLP	20 mL	11/27/2023
21456	CLPICP-ICS-B	CLP-ICP-ICS-Part B	ICP-CLP	20 mL	11/27/2023
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	10 mL	12/22/2019
28120	HCl	concentrated hydrochloric acid	HCl (54310)	10 mL	01/23/2025

STANDARD REPORT

Stock Standard - Mn Low Stock

Mn Low Stock		Description - 1,000 ug/mL Mn Stock
Standard: 27203	**Created By:** P. Foote	**Amount:** 30 mL
MFG: SPEX CertiPrep	**Create Date:** 2/23/2015	**Expires:** 2/28/2016
MFG Lot: 20-135MNM	**Lab Lot:** SPEX Mn 1,000 ug/mL	**Usable:** Yes
Part ID: PLMN2-2M		

Pos.	Analyte	Name	Concentration
1	7439-96-5	Manganese	1000 ug/mL

STANDARD REPORT

Stock Standard - Y Stock

Y Stock			Description - 10,000 ug/mL Y Stock
Standard: 26858	**Created By:** P. Foote		**Amount:** 125 mL
MFG: SPEX CertiPrep	**Create Date:** 1/26/2015		**Expires:** 1/30/2016
MFG Lot: AI15-90YY	**Lab Lot:** SPEX Y 10,000 ug/mL		**Usable:** Yes
Part ID: PLY2-3Y			

Pos.	Analyte	Name	Concentration
1	7440-65-5	Yttrium	10000 ug/mL

STANDARD REPORT

Stock Standard - Sc Stock

Sc Stock	Description - 10,000 ug/mL Sc Stock

Standard:	27176	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	Inorganic Ventures	**Create Date:**	2/20/2015	**Expires:**	2/23/2016
MFG Lot:	G2-SC02113	**Lab Lot:**	IV Sc 10,000 ug/mL	**Usable:**	Yes
Part ID:	CGSC10-1				

Pos.	Analyte	Name	Concentration
1	7440-20-2	Scandium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICS-A

CLPICP-ICS-A		Description - CLP-ICP-ICS-Part A
Standard: 21455	**Created By:** J. Sanchez	**Amount:** 100 mL
MFG: QATS Laboratory	**Create Date:** 11/27/2013	**Expires:** 11/27/2023
MFG Lot: ICSA-1211	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2549000 ug/L
2	7440-39-3	Barium	60 ug/L
3	7440-43-9	Cadmium	10 ug/L
4	7440-70-2	Calcium	2445000 ug/L
5	7440-47-3	Chromium	520 ug/L
6	7440-50-8	Copper	20 ug/L
7	7439-89-6	Iron	1007000 ug/L
8	7439-95-4	Magnesium	2554000 ug/L
9	7439-96-5	Manganese	70 ug/L
10	7440-02-0	Nickel	20 ug/L

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICS-B

CLPICP-ICS-B		Description - CLP-ICP-ICS-Part B
Standard: 21456	**Created By:** J. Sanchez	**Amount:** 100 mL
MFG: QATS Laboratory	**Create Date:** 11/27/2013	**Expires:** 11/27/2023
MFG Lot: ICSB-0710	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	-81000 ug/L
2	7440-36-0	Antimony	6180 ug/L
3	7440-38-2	Arsenic	1040 ug/L
4	7440-39-3	Barium	5310 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	9710 ug/L
7	7440-70-2	Calcium	-96000 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4760 ug/L
10	7440-50-8	Copper	5090 ug/L
11	7439-89-6	Iron	-13800 ug/L
12	7439-92-1	Lead	490 ug/L
13	7439-95-4	Magnesium	-74000 ug/L
14	7439-96-5	Manganese	5000 ug/L
15	7440-02-0	Nickel	9520 ug/L
16	7782-49-2	Selenium	460 ug/L
17	7440-22-4	Silver	2010 ug/L
18	7440-28-0	Thallium	1080 ug/L
19	7440-62-2	Vanadium	4910 ug/L
20	7440-66-6	Zinc	9520 ug/L

STANDARD REPORT

Constituent

Stock Standard - STD-2A

STD-2A			Description - ISM01.3 Standard Mix
Standard: 24656	**Created By:** N. Edwards	**Amount:** 250 mL	
MFG: Inorganic Ventures	**Create Date:** 6/17/2014	**Expires:** 7/1/2015	
MFG Lot: G2-MEB487014	**Lab Lot:** ICP-CLP	**Usable:** Yes	
Part ID: ALSUT-STD-2A			

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	5000 ug/mL
2	7440-38-2	Arsenic	2000 ug/mL
3	7439-98-7	Molybdenum	2000 ug/mL
4	7782-49-2	Selenium	2000 ug/mL
5	7440-32-6	Titanium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-2B

STD-2B		Description - ISM01.3 Standard Mix
Standard: 24657	**Created By:** N. Edwards	**Amount:** 250 mL
MFG: Inorganic Ventures	**Create Date:** 6/17/2014	**Expires:** 7/1/2015
MFG Lot: H2-MEB529087	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ALSUT-STD-2B		

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	5000 ug/mL
2	7440-62-2	Vanadium	5000 ug/mL
3	7440-41-7	Beryllium	2000 ug/mL
4	7440-43-9	Cadmium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-2C

STD-2C	Description - ISM01.3 Standard Mix

Standard: 24658 **Created By:** N. Edwards **Amount:** 250 mL
MFG: Inorganic Ventures **Create Date:** 6/17/2014 **Expires:** 7/1/2015
MFG Lot: H2-MEB529088 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ALSUT-STD-2C

Pos.	Analyte	Name	Concentration
1	7440-48-4	Cobalt	5000 ug/mL
2	7440-47-3	Chromium	5000 ug/mL
3	7440-50-8	Copper	5000 ug/mL
4	7439-96-5	Manganese	5000 ug/mL
5	7440-02-0	Nickel	5000 ug/mL
6	7439-92-1	Lead	5000 ug/mL
7	7440-66-6	Zinc	5000 ug/mL
8	7440-28-0	Thallium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - ICP-CLP-CRQL

ICP-CLP-CRQL		Description - ISM CRQL Solution
Standard: 24961	**Created By:** S. Stewart	**Amount:** 250 mL
MFG: Inorganic Ventures	**Create Date:** 8/22/2014	**Expires:** 9/1/2015
MFG Lot: F2-MEB445010	**Lab Lot:** ICP-CLP	**Usable:** No
Part ID: CLP-AES-CRQL-2		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	6 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	0.5 ug/mL
6	7440-43-9	Cadmium	0.5 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	1 ug/mL
9	7440-48-4	Cobalt	5 ug/mL
10	7440-50-8	Copper	2.5 ug/mL
11	7439-89-6	Iron	10 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1.5 ug/mL
15	7440-02-0	Nickel	4 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	3.5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	2.5 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	6 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-1

STD-1	Description - ISM01.3 Standard

Standard: 25303 **Created By:** J. Sanchez **Amount:** 250 mL
MFG: Inorganic Ventures **Create Date:** 9/22/2014 **Expires:** 10/1/2015
MFG Lot: H2-MEB542124 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ALSUT-STD-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25000 ug/mL
2	7439-89-6	Iron	25000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - IV-STOCK-2

IV-STOCK-2		Description - ISM01.3 Standard
Standard: 25304	**Created By:** J. Sanchez	**Amount:** 500 mL
MFG: Inorganic Ventures	**Create Date:** 9/22/2014	**Expires:** 10/1/2015
MFG Lot: G2-MEB506019	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: P1081H		

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	10000 ug/mL
2	7440-09-7	Potassium	10000 ug/mL
3	7439-95-4	Magnesium	10000 ug/mL
4	7440-23-5	Sodium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ag Stock

Ag Stock	Description - 1,000 ug/mL Ag Stock

Standard:	25320	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	Spex CertiPrep	**Create Date:**	9/2/2014	**Expires:**	8/30/2015
MFG Lot:	19-13AGY	**Lab Lot:**	Ag 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLAG2-2Y				

Pos.	Analyte	Name	Concentration
1	7440-22-4	Silver	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICV1

CLPICP-ICV1		Description - CLP-ICP/ICPMS-ICV-1
Standard: 25735	**Created By:** J. Sanchez	**Amount:** 100 mL
MFG: QATS Laboratory	**Create Date:** 10/21/2014	**Expires:** 10/21/2024
MFG Lot: ICV1-0307	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25210 ug/L
2	7440-36-0	Antimony	9940 ug/L
3	7440-38-2	Arsenic	9990 ug/L
4	7440-39-3	Barium	4970 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	4960 ug/L
7	7440-70-2	Calcium	100260 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4990 ug/L
10	7440-50-8	Copper	4920 ug/L
11	7439-89-6	Iron	50820 ug/L
12	7439-92-1	Lead	10020 ug/L
13	7439-95-4	Magnesium	60740 ug/L
14	7439-96-5	Manganese	4990 ug/L
15	7440-02-0	Nickel	5030 ug/L
16	7440-09-7	Potassium	100210 ug/L
17	7782-49-2	Selenium	10290 ug/L
18	7440-22-4	Silver	5010 ug/L
19	7440-23-5	Sodium	100970 ug/L
20	7440-28-0	Thallium	10280 ug/L
21	7440-62-2	Vanadium	5010 ug/L
22	7440-66-6	Zinc	10250 ug/L

STANDARD REPORT

Constituent

Stock Standard - Ti Stock

Ti Stock	Description - 10,000 ug/mL Ti Stock

Standard:	26855	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AN15-189TIY	**Lab Lot:**	SPEX Ti 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLTI9-3Y				

Pos.	Analyte	Name	Concentration
1	7440-32-6	Titanium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ba Low Stock

Ba Low Stock	Description - 1,000 ug/mL Ba Stock

Standard:	27191	**Created By:**	P. Foote	**Amount:**	30 mL
MFG:	SPEX CertiPrep	**Create Date:**	2/23/2015	**Expires:**	8/23/2015
MFG Lot:	20-183BAM	**Lab Lot:**	SPEX Ba 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLBA2-2M				

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Mo Low Stock

Mo Low Stock	Description - 1,000 ug/mL Mo Stock

Standard:	27204	**Created By:**	P. Foote	**Amount:**	30 mL
MFG:	SPEX CertiPrep	**Create Date:**	2/23/2015	**Expires:**	2/28/2016
MFG Lot:	20-92MOM	**Lab Lot:**	SPEX Mo 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLMO9-2M				

Pos.	Analyte	Name	Concentration
1	7439-98-7	Molybdenum	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - 10x of Mo

10x of Mo	Description - 10x of Mo stock

Standard: 27274 **Created By:** J. Sanchez **Amount:** 10 mL
MFG: JCS **Create Date:** 03/01/2015 **Expires:** 09/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2

Pos.	Analyte	Name	Concentration
1	7439-98-7	Molybdenum	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	8.8 mL	11/07/2025
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	0.2 mL	12/22/2019
27204	Mo Low Stock	1,000 ug/mL Mo Stock	SPEX Mo 1,000 ug/mL	1 mL	02/28/2016

STANDARD REPORT

Constituent

Working Standard - 100x of Ti

100x of Ti	Description - 100x of Ti stock

Standard: 27275 **Created By:** J. Sanchez **Amount:** 10 mL
MFG: JCS **Create Date:** 03/01/2015 **Expires:** 09/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-1

Pos.	Analyte	Name	Concentration
1	7440-32-6	Titanium	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	9.7 mL	11/07/2025
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	0.2 mL	12/22/2019
26855	Ti Stock	10,000 ug/mL Ti Stock	SPEX Ti 10,000 ug/mL	0.1 mL	01/30/2016

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O			Description - ASTM Type II Water
Standard: 109	**Created By:** ALS Support (Lims)		**Amount:** 1000 L
MFG: DCL In House	**Create Date:** 10/6/2005		**Expires:** 11/7/2025
MFG Lot:	**Lab Lot:** LAB 109		**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	26531	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	12/22/2014	**Expires:**	12/22/2019
MFG Lot:	0000088969	**Lab Lot:**	HNO3 (88969)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HCl

HCl	Description - concentrated hydrochloric acid

Standard:	26903	**Created By:**	S. Stewart	**Amount:**	2 L
MFG:	EMD	**Create Date:**	2/2/2015	**Expires:**	2/2/2016
MFG Lot:	54169	**Lab Lot:**	HCl(54169)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	27078	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	2/16/2015	**Expires:**	2/16/2020
MFG Lot:	0000099263	**Lab Lot:**	HNO3 (99263)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	27803	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	4/20/2015	**Expires:**	4/20/2020
MFG Lot:	0000104117	**Lab Lot:**	HNO3 (104117)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HCl

HCl	Description - concentrated hydrochloric acid

Standard:	28120	**Created By:**	J. Sanchez	**Amount:**	2 L
MFG:	EMD	**Create Date:**	1/23/2015	**Expires:**	1/23/2025
MFG Lot:	54310	**Lab Lot:**	HCl (54310)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ICP-MS ISM01.3 Soil

Run # MS215060

Workorder ID	Sample #'s	Analytes	Prep Batch/HBN #	Prep Date/Time	Analysis Batch/HBN #	Account #
1515632	MF9M48-52, 54-68	See Below #1 (Soil)	EMS/4144 150339	6/16/2015 9:11	EMS/4152 151118	8201

#1 = 9Be, 51V, 52Cr, 59Co, 60Ni, 63Cu, 66Zn, 75As, 82Se, 107Ag, 111Cd, 121Sb, 137Ba, 205Tl, 208Pb

Soil Conversion Factor : (ug/L)(0.1 L/1.0 g or sample wt.)(5x dil.)= 0.5 ug/g sample weight

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
S0 ICB/CCB (1% HNO_3)	MS-15-120	4184/98
S	1000X of 23704	Horizon
S10	5X of 28396	Horizon
S50	28396	Horizon
S200	28397	Horizon
S500	28398	Horizon
S2500	28399	Horizon
S5000	28400	Horizon
S50000	2X of 28401	Horizon
S100000	28401	Horizon
ICV	28402	Horizon
ICSA	28403	Horizon
ICSAB	28404	Horizon
CCV	28405	Horizon
Internal Standards	MS-15-067 (#24864)	4184/96
Rinse	MS-15-121	4184/98

SDG: MF9M48
CASE: 45299
Prep Method: 3050B
Analysis Method: ISM01.3
Analysis Date: 6/22/2015
Instrument ID: ICPM02
Results File: MS215060
Analyst: John Kershisnik

Scanning Mode: Peak Jumping
Sweeps: 40
Channels per Mass: 1
Acquisition Duration: 36287
Channel Spacing: 0.02
Replicates: 5

Instrument Parameters:

Major		Minor		Global	
Extraction:	-149	Lens 2:	-27.5	Standard Resolution:	125
Lens 1:	4.7	Lens 3:	-115.3	High Resolution:	125
Focus:	24.9	Forward Power:	1404	Analogue Detector:	1922
D1:	-32.9	Horizontal:	85	PC Detector:	3069
Pole Bias:	0.0	Vertical:	467		
Hexapole Bias:	-5.0	D2:	-160		
Nebuliser:	0.80	DA:	-80.0		
Sample Depth:	130	Cool:	13.0		
		Auxiliary:	0.90		

Comments: S was prepared by taking 50 µL of 23704 (Horizon) and adding 0.5 mL conc. HNO3 and bringing to 50 mL final volume with ASTM Type II water.
S10 was prepared by taking 8.0 mL of S0, MS-15-120 (4184/98) and adding 2.0 mL of S03, **28396** (Horizon), and mixing in a 14 mL Falcon tube.
S50000 was prepared by taking 4.0 mL of S0, MS-15-120 (4184/98) and adding 4.0 mL of S09, **28401** (Horizon), and mixing in a 14 mL Falcon tube.

A Cross Calibration was performed using solution MS-15-028 (4184/95), (Horizon #**25397**), before the performance report.
A Performance report was done to tune the instrument using "CLP" and solution MS-15-027 (4184/95), (Horizon #**25851**), before calibration.

Dilutions: Soils samples were diluted 5x prior to analysis to bring acid concentration down by mixing 2 mL of sample with 8 mL of S0, MS-15-120 (4184/98).
Serial dilution done by pipetting 2 mL of sample MF9M48 into 8 mL of MS-15-120 (4184/98) into a polypropylene tube, capping and shaking to mix.

Post digestion spike for Sb: spiked 10 mL of sample MF9M48 with 100 µl of 2 µg/mL Sb, (Horizon #**23704**), for a target of 20 µg/L.

Project No. NA

TITLE ALS Laboratory - ICPM02 Instrument Logbook

Book No. 4183

From Page No. 67

DATE	Time ON	Time OFF	TOTAL Time	method	Matrix	Acct.#	W.O. IDs / Comments	Run#	# of Samples	Init.
05/11/2015	13:50 15:22	Tune 17:38	— 136 min	ISM02.2	SOIL WATER	8201	CLP Tune Passed MX1R04, MX1R08	MS215043	8	JK
↓	15:22	18:31	189 min	6020	SOLID Bulk	8001	1511734 SALT	↓	2	JK
05/15/2015	09:21 10:45	Tune 13:33	— 188 min	6020	Liquid	1101	6020 Tune Passed 1513185, 8, 9, 90, 1, 2, 3, 168, 176, 1513432	MS215044	11	KB
05/18/2015	10:09 12:07	Tune 14:31	— 144 min	6020	Bulk	1101	6020 Tune Passed 1513469, 72, 73, 74, 1513527, 806	MS215045	7	KB
05/19/2015	11:09 11:44	Tune 14:52	— 188 min	6020	Bulk	1101	6020 Tune Passed 1513439, 1513268, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82,	MS215046	20	KB
↓	↓	↓	↓	↓	↓	↓	1513428, 29, 30, 31, 33, 36, 37, 38	↓	↓	↓
05/20/2015	10:04 10:41	Tune 14:18	— 217 min	6020	Bulk Liquid	1101	1513549, 57, 59, 60, 61, 64, 69, 71, 74, 75, 923, 24, 7, 8, 9,	MS215047	18	KB
↓	↓	↓	↓	↓	↓	↓	1513869, 1514021, 27	↓	↓	↓
05/22/2015	08:34 09:07	Tune 13:52	— 291 min	ISM01.3	SOIL	8201	CLP Tune Passed ISM01.3 SOIL MDLs	MS215048	28	JK
05/27/2015	13:00 13:28	— 15:26	Tune 118 min	6020	WATER	8001	6020 Tune Passed (Cd .25) 1513204	MS215049	4	JK
05/27/2015	16:06 17:23	Tune 19:39	— 136 min	ISM02.2	SOIL WATER	8201	CLP Tune Passed MX1549, MX1553	MS215050	2	JK
↓	17:23	20:14	171 min	ISM01.3	WATER	8201	(Bridge) 1513993	↓	1	JK
05/28/2015	11:40	Tune	—	6020	SOIL	8001	6020 Tune Passed	MS215051	20	JK
↓	12:14	15:37	203 min	↓	↓	↓	(LVL4) 1513332	↓	↓	↓
05/29/2015	12:17 13:13	Tune 18:36	— 323 min	6020	SOIL	8001	6020 Tune Passed (LVL4) 1513462	MS215052	29	JK
06/03/2015	09:33 10:49	Tune 13:50	— 181 min	6020	Water	8001	6020 Tune Passed 1514502, 1515220, 1513947	MS215053	8	KB
06/05/2015	09:41 10:54	Tune 13:56	— 182 min	6020	DS Bulk	1101	1515020, 1, 2, 4, 5, 1515413, 5, 9, 20, 3, 5, 31, 2, 40, 51, 53, 54	MS215054	17	KB & PAF
06/09/2015	09:28 10:01	Tune 16:15	— 374 min	ISM01.3 200.8	Soil Water	8201 8001	WO 1514325 MF9L76	~~MS215055~~ ~~MS215055~~ KB 6/11/2015	12	KB
06/09/2015	10:01 09:11	16:15 Tune	— —	6020	Bulk Bulk	1101	1515412, 1515676, 1515525 6020 Tune Passed	MS215055	6	KB
06/11/2015	09:25 12:33	13:48 Tune	263 min —	6020	GW	7001	1514650, 1516001 CLP Tune Passed	MS215056	20	KB
06/16/2015	13:25	18:03	278 min	ISM01.3	SOIL	8201	W.O. 1515388 MF9L98	MS215057	25	JK
↓	↓	↓	↓	↓	↓	↓	W.O. 1515562 MF9M36	↓	↓	↓
06/17/2015	14:02 14:32	Tune 19:32	— 300 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515559 MF9M21	MS215058	20	JK
↓	↓	↓	↓	↓	↓	↓	W.O. 1515392, 1515633 MF9M15	↓	13	JK
06/18/2015	16:48 17:13	Tune 18:06	— 53 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515388 (Ser dil.-Zn) MF9L98	MS215059	1	JK
06/22/2015	Tune 20:40	16:28 23:56	— 196 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515632 MF9M48	MS215060	20	JK
06/23/2015	Tune 13:28	10:46 15:27	— 120 min	6020	Water	8001	6020 Tune Passed 1516018	MS215061	1	KB
06/23/2015	17:40 20:07	Tune 23:27	— 200 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515745 MF9K00	MS215062	19	JK

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ALS Laboratory

TITLE ~~DATACHEM LABORATORIES~~ - ICP-MS SOLUTIONS LOGBOOK.

KB 02/03/11

Project No. N/A

Book No. 4184

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RECIPES.

CLP ~~5.3CRI~~ 2/23/11 = USE "CLP-MS-CRQL-2" PRIMARY CONTAINING 10 µg/mL Ba; 5 µg/mL Se; 2 µg/mL Sb, Cr, Cu, Zn; 1 µg/mL Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V. SPIKE 0.05 mL TO A 50 mL TEFLON CLASS A FLASK, CONTAINING SOME ASTM TYPE II H_2O WITH 0.5 mL OF HNO_3. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE FLASK.

FINAL TARGETS: 10 µg/L Ba, 5 µg/L Se; 2 µg/L Sb, Cr, Cu, Zn; 1 µg/L Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V IN 1% HNO_3

VARIAN TUNE = SPIKE 0.5 mL OF "VAR-TS-MS" PRIMARY CONTAINING 10 µg/mL Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.

FINAL TARGETS: 100 µg/L Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th in 1% HNO_3.

6020 TUNE = SPIKE 0.5 mL OF "6020TS" PRIMARY CONTAINING 10 µg/mL Co, In, Li, Tl AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.

FINAL TARGETS: 100 µg/L Co, In, Li, Tl in 1% HNO_3.

TUNE A = SPIKE ~~0.5~~ 0.05 AE 4/13/04 mL OF "TUNE A" PRIMARY, CONTAINING 10 µg/mL OF Li, Be, Co, Ni, In, Ba, Ce, Pb, U + 100 µg/mL OF As, Se; AND 0.5 mL OF HNO_3 TO A 50 mL CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.

FINAL TARGETS: 10 µg/L Li, Be, Co, Ni, In, Ba, Be, Ce, Pb, U; 100 µg/L As, Se.

TUNE B = SPIKE 0.5 mL OF "TUNE B" PRIMARY, CONTAINING 100 µg/mL Be; 50 µg/mL Li; 25 µg/mL Mg, Se; 20 µg/mL Co; 10 µg/mL Y, In, Ce, Tl; 5 µg/mL Tb, U, AND 0.5 mL OF HNO_3 TO A 50 mL FLASK. BRING TO VOLUME. SEAL + SHAKE.

FINAL TARGETS: 1000 µg/L Be; 500 µg/L Li; 250 µg/L Mg, Sc; 200 µg/L Co; 100 µg/L Y, In, Ce, Tl; 50 µg/L Tb, U in 1% HNO_3.

VAR IS = SPIKE 40 mL OF "6020ISS" PRIMARY, CONTAINING 10 µg/mL Bi, Ho, In, ^6Li, Rh, Sc, Tb, Y AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.

FINAL TARGETS: 200 µg/L Bi, Ho, In, ^6Li, Rh, Sc, Tb, Y IN 1% HNO_3.

THERMO IS = SPIKE 4 mL OF "THERMO IS MIX" PRIMARY, CONTAINING 100 mg/L ^6Li, Sc; 20 mg/L Ga, Y, In, Tb, Bi AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOM ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.

FINAL TARGETS: 200 µg/L ^6Li, Sc; 40 µg/L Ga, Y, In, Tb, Bi in 1% HNO_3.

2%/0.05% RINSE = ADD ~~20~~ 40 AE 4/13/04 mL OF HNO_3 AND 1 mL OF HCl or 2 mL OF 1:1 HCl TO A 2L CONTAINER. BRING TO VOLUME, SEAL + SHAKE.

FINAL TARGETS: 2% HNO_3/0.05% HCl

5%/1% = ADD 100 mL OF HNO_3 AND 20 mL OF HCl TO A 2L CONTAINER. BRING TO VOLUME. SEAL + SHAKE.

FINAL TARGETS: 5% HNO_3/1% HCl.

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Kristie Bethmann	01/24/05	Recorded by [signature]	01/24/05

TITLE ALS Laboratory ~~DATACHEM LABORATORIES~~ - ICP-MS SOLUTIONS LOGBOOK. KB 02/03/11

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RECIPES

THERMO 6020 ICSA = ADD 1mL OF ICSA PRIMARY TO 9mL OF 1% HNO_3 + MIX.

THERMO 6020 ICSAB = ADD 1mL OF ICSA PRIMARY, 0.1mL OF ICSAB PRIMARY TO 8.9 mL OF 1% HNO_3 + MIX.

X-CAL = SPIKE 1.25 mL OF "X-CAL" PRIMARY CONSISTING OF Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn AT 10 mg/L AND 0.5 mL OF HNO_3 TO A 50mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME, STOPPER + SHAKE. ALL MASSES AT 250 mg/L AT FINAL.

1% HNO_3 = ADD 10 mL OF HNO_3 TO A 1L FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. SEAL + SHAKE. USED FOR DO, ICB, CCB + DILUTIONS.

1:4 HCl = Add 200 mL HCl to 1 L container with some ASTM Type II H_2O. Bring to volume with more ASTM Type II H_2O. Seal & Shake. Used for sample preparation, soils.

1:1 HCl = Add 500 mL ASTM Type II H_2O to 1L container. Add 500 mL HCl to container, cap and mix by shaking. Used for sample preparation.

1:1 HNO_3 = Add 500 mL ASTM Type II H_2O to 1 L container. Add 500 mL HNO_3 to container, seal and shake to mix. Used for sample preparation.

KB 2/16/06
2% HNO_3 with Au Add 20 mL of HNO_3 to 1L container with some ASTM Type II H_2O in it. Add 1mL of 1:1 HCl and 10 mL of 100 µg/mL Au. Bring to 1L volume, cap & shake. Use for Hg analysis

DO-Urine = To a 500 mL volumetric flask containing ~250 mL of ASTM Type II Water add 50 mL of UriSub and 5 mL of concentrated nitric acid. Dilute to volume with ASTM Type II water, stopper and mix, transfer to teflon bottles for storage.

CLP KB 2/23/11
~~5.4~~ CRI: Use "CLP-MS-CRQL-3" primary containing 10 µg/mL Ba; 5 µg/mL Se, V; 2 µg/mL Cr3, Cu, Sb, Zn; 1 µg/mL Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl. Spike 0.05 mL to a 50 mL Teflon class A flask, containing some ASTM Type II H_2O with 0.5 mL of HNO_3. Bring to volume with ASTM Type II H_2O, seal & shake. Final Targets: 10 µg/L B; 5 µg/L Se, V; 2 µg/L Cr3, Cu, Sb, Zn; 1 µg/L Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl.

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TITLE ALS-SLC ICP-MS Solution Logbook

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Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Horizon)	Recipe Page	Expiration Date	Acid Lots	Comments	Init.
12/29/2014	MS-14-218	1% HNO_3	NA	2	06/29/2015	HNO_3-1213120	NA	KB
12/29/2014	MS-14-219	Agilent ISS	22947	NA	04/01/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/02/2015	MS-15-001	1:4 HCl	NA	2	07/02/2015	HCl-4013050	NA	KB
01/05/2015	MS-15-002	Agilent Tune	25850	NA	07/05/2015	HNO_3-1213120	1/5/15 KB 250 mL 25mL/~~50mL~~ in 1% HNO_3	KB
01/05/2015	MS-15-003	6020 Tune	25852	1	07/05/2015	HNO_3-1213120	NA	KB
01/05/2015	MS-15-004	Rinse 1%-0.5%	NA	NA	07/05/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/06/2015	MS-15-005	Agilent ISS	24864	NA	07/06/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/12/2015	MS-15-006	1% HNO_3	NA	2	07/12/2015	HNO_3-1213120	NA	KB
01/14/2015	MS-15-007	Agilent ISS	24864	NA	07/14/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/16/2015	MS-15-008	Rinse 1%-0.5%	NA	NA	07/16/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/19/2015	MS-15-009	Rinse 2%-0.05%	NA	1	07/19/2015	HNO_3-1213120 HCl-4213110	4L	JK
01/19/2015	MS-15-010	1% HNO_3	NA	2	07/19/2015	HNO_3-1213120	NA	JK
01/20/2015	MS-15-011	Agilent ISS	24864	NA	07/20/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/22/2015	MS-15-012	1% HNO_3	NA	2	07/22/2015	HNO_3-1213120	NA	KB
01/22/2015	MS-15-013	Agilent ISS	24864	NA	07/22/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/27/2015	MS-15-014 KB 1/27/15	Rinse ~~2%-0.1%~~ 1%/0.5%	NA	NA	07/27/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/27/2015	MS-15-015	Agilent ISS	24864	NA	07/27/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/27/2015	MS-15-016	1% HNO_3	NA	2	07/27/2015	HNO_3-1213120	NA	KB
01/28/2015	MS-15-017	1:1 HNO_3	NA	2	07/28/2015	HNO_3-1213120	NA	KB
01/30/2015	MS-15-018	6020 Tune	25852	1	07/30/2015	HNO_3-1213120	NA	KB
02/02/2015	MS-15-019	1:4 HCl	NA	2	08/02/2015	HCl-4213110	NA	KB
02/02/2015	MS-15-020	Agilent ISS	24864	NA	08/02/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/04/2015	MS-15-021	1:19 HNO_3	NA	NA	08/04/2015	HNO_3-1213120	50mL HNO_3/1L	KB
02/05/2015	MS-15-022	1% HNO_3	NA	2	08/05/2015	HNO_3-1213120	NA	KB
02/06/2015	MS-15-023	Rinse 1%-0.5%	NA	NA	08/06/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
02/06/2015	MS-15-024	Agilent ISS	24864	NA	08/06/2015	HNO_3-1213120 ~~HCl-4213110~~	4mL/50mL in 1% HNO_3	KB
02/08/2015	MS-15-025	1% HNO_3	NA	2	08/08/2015	HNO_3-1213120	JK 02/08/15 NA	JK
02/08/2015	MS-15-026	Rinse 2%-0.05%	NA	1	08/08/2015	HCl-4213110 HNO_3-1213120	4L	JK
02/08/2015	MS-15-027	Var Tune	25851	1	08/08/2015	HNO_3-1213120	250 mL	JK
02/08/2015	MS-15-028	X-Cal	25397	1	08/08/2015	HNO_3-1213120	200 mL	JK
02/09/2015	MS-15-029	1:1 HNO_3	NA	2	08/09/2015	HNO_3-1213120	NA	JK
02/10/2015	MS-15-030	Agilent ISS	24864	NA	08/10/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/12/2015	MS-15-031	Agilent ISS	KB 2/12/15 ~~NA~~ 24864	NA	08/12/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/12/2015	MS-15-032 S KB 2/16/15	1% HNO_3	NA	2	08/12/2015	HNO_3-1213120	NA	KB
02/16/2015	MS-15-033	Agilent ISS	24864	NA	08/16/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/16/2015	MS-15-034	Rinse 1%-0.5%	NA	NA	08/16/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB

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Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Horizon)	Recipe Page	Expiration Date	Acid Lot	Comments	Init.
02/19/2015	MS-15-035	1:4 HCl	NA	2	08/19/2015	HCl-4213110	NA	KB
02/19/2015	MS-15-036	Agilent ISS	24864	NA	08/19/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/19/2015	MS-15-037	1% HNO_3 Rinse	NA	2	08/19/2015	HNO_3-1213120 ~~12~~ KB 2/19/15	NA	KB
02/23/2015	MS-15-038	1%-0.5%	NA	NA	08/23/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
02/23/2015	MS-15-039	Agilent ISS	24864	NA	08/23/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/25/2015	MS-15-040	1:1 HNO_3	NA	2	08/25/2015	HNO_3-1213120	NA	JK
02/25/2015	MS-15-041	VAR ISS	24864	1	08/25/2015	HNO_3-1213120	4L	JK
02/25/2015	MS-15-042 1% HNO_3	1% HNO_3	NA	2	08/25/2015	HNO_3-1213120	NA	JK
02/25/2015	MS-15-043	Agilent Tune	25850	NA	08/25/2015	HNO_3-1213120	25µL/250mL in 1% HNO_3	KB
02/25/2015	MS-15-044	6020 Tune	25852	1	08/25/2015	HNO_3-1213120	NA	KB
02/27/2015	MS-15-045	1:1 HNO_3	NA	2	08/27/2015	HNO_3-1214040	NA	NS
03/02/2015	MS-15-046	Agilent ISS	24864	NA	09/02/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/02/2015	MS-15-047	0.1% NH_4OH	NH_4OH BDH Aristar Lot 2011 03472	NA	09/02/2015	NA	1mL NH_4OH/1L H_2O	KB
03/04/2015	MS-15-048	1% HNO_3	NA	2	09/04/2015	HNO_3-1214040	NA	KB
03/06/2015	MS-15-049	Agilent ISS	24864	NA	09/06/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/09/2015	MS-15-050	1%-0.5% Rinse	NA	NA	09/09/2015	HNO_3-1214040 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
03/09/2015	MS-15-051	P/A Tune	25287, 25288	NA	09/09/2015	HNO_3-1214040	500µL of each to 50mL in 1% HNO_3	KB
03/13/2015	MS-15-052	1% HNO_3	NA	2	09/13/2015	HNO_3-1214040	NA	KB
03/17/2015	MS-15-053	Agilent ISS	24864	NA	09/17/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/17/2015	MS-15-054	1% HNO_3	NA	2	09/17/2015	HNO_3-1214040	NA	JK
03/18/2015	MS-15-055	1:4 HCl	NA	2	09/18/2015	HCl-4213110	NA	JK
03/24/2015	MS-15-056	1%-0.5% Rinse	NA	NA	09/24/2015	HNO_3-1214040 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
03/24/2015	MS-15-057	6020 Tune	25852	1	09/24/2015	HNO_3-1214040	NA	KB
03/24/2015	MS-15-058	Agilent ISS	24864	NA	09/24/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/25/2015	MS-15-059	1% HNO_3	NA	2	09/25/2015	HNO_3-1214040	NA	KB
03/26/2015	MS-15-060	Agilent ISS	24864	NA	09/26/2015	HNO_3-1214040 ~~NH_4OH-KB 3/26/15~~	4mL/50mL in 1% HNO_3	KB
03/27/2015	MS-15-061	1:1 HNO_3	NA	2	09/27/2015	HNO_3-1214040	NA	KB
04/01/2015	MS-15-062	1% HNO_3	NA	2	10/01/2015	HNO_3-1214040	NA	KB
04/02/2015	MS-15-063	Agilent ISS	24864	NA	10/01/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
04/03/2015	MS-15-064	0.1% NH_4OH	NH_4OH BDH Aristar Lot 2011 03472	NA	10/03/2015	NA	1mL NH_4OH/1L H_2O	KB
04/10/2015	MS-15-065	1%-0.5% Rinse	NA	NA	10/10/2015	HNO_3-1214040 HCl-4213110	10mL HNO_3/5mL HCl in 1L	KB
04/10/2015	MS-15-066	Agilent ISS	24864	NA	10/10/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
04/10/2015	MS-15-067	VAR ISS	24864	1	10/10/2015	HNO_3-1214040 HCl-4213110	4L	JK
04/10/2015	MS-15-068	2%-0.05% Rinse	NA	1	10/10/2015	HNO_3-1214040	4L	JK
04/14/2015	MS-15-069	1% HNO_3	NA	2	10/14/2015	HNO_3-1214040	NA	KB
04/14/2015	MS-15-070	Agilent ISS	24864	NA	10/14/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB

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Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Horizon)	Recipe Page	Expiration Date	Acid Lots	Comments	Init.
04/14/2015	MS-15-071	1:4 HCl	NA	2	10/14/2015	HCl-4213110 HNO3-1214040	NA	KB
04/17/2015	MS-15-072	Rinse 1%-0.5%	NA	NA	10/17/2015	HCl-4213110	10mL HNO3/5mL HCl to 1L	KB
04/17/2015	MS-15-073	0.1% NH4OH	NH4OH BDH Aristar Lot 20110347 2	NA	10/17/2015	NA	1mL NH4OH/1L H2O	KB
04/20/2015	MS-15-074	1% HNO3	NA	2	10/20/2015	HNO3-1214040	NA	KB
04/20/2015	MS-15-075	6020 Tune	25852	NA	10/20/2015	HNO3-1214040	KB 4/20/15 NA ~~4mL/50mL in 1% HNO3~~	KB
04/20/2015	MS-15-076	Agilent ISS	24864	NA	10/20/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
04/21/2015	MS-15-077	1% HNO3	NA	2	10/21/2015	HNO3-1214040	NA	JK
04/24/2015	MS-15-078	Agilent Tune	25850	NA	10/24/2015	HNO3 1214040	25uL/250mL 1% HNO3	KB
~~04/24/2015~~	~~MS-15-079~~	~~6020 Tune~~	KB 4/27/2015					
04/27/2015	MS-15-080	Agilent ISS No In	24864	NA	10/27/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
28-Apr-2015	MS-15-081	Agilent ISS	27582	NA	28-Oct-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
1-May-2015	MS-15-082	Rinse 1%/0.5%	NA	NA	1-Nov-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L	PAJ
1-May-2015	MS-15-083	1% HNO3	NA	2	1-Nov-2015	HNO3-1214040	NA	PAJ
05/04/2015	MS-15-084	0.1% NH4OH	NH4OH BDH Aristar Lot 20110347 2	NA	11/04/2015	NA	1mL NH4OH/1L H2O	KB
6-May-2015	MS-15-085	Agilent ISS	24864	NA	6-Nov-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
05/07/2015	MS-15-086	1:1 HNO3	NA	2	11/07/2015	HNO3-1214040	NA	JK
05/08/2015	MS-15-087	1% HNO3	NA	2	11/08/2015	HNO3-1214040	NA	KB
05/11/2015	MS-15-088	Agilent ISS	24864	NA	11/11/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
05/19/2015	MS-15-089	1% HNO3	NA	2	11/19/2015	HNO3-1214040	NA	KB
05/19/2015	MS-15-090	Rinse 2%/0.05%	NA	1	11/19/2015	HNO3-1214040 HCl-4213110	2L	KB
20-May-2015	MS-15-091	Rinse 1%/0.5%	NA	NA	20-Nov-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L	PAJ
20-May-2015	MS-15-092	Iodine Agilent ISS	24864	NA	20-Nov-2015	0.1% NH4OH	4mL/50mL in 0.1% NH4OH	PAJ
20-May-2015	MS-15-093	Agilent ISS	24864	NA	20-Nov-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
05/21/2015	MS-15-094	6020 Tune	25850	~~NA~~ 1 KB 5/21/15	11/1/2015	HNO3-1214040	NA	KB
05/22/2015	MS-15-095	1% HNO3	NA	2	11/22/2015	HNO3-1214040	NA	KB
05/22/2015	MS-15-096	1:4 HCl	NA	2	11/22/2015	HCl-4213110	NA	KB
26-May-2015	MS-15-097	1:1 HNO3	NA	2	26-May-2015	HNO3-1214040	NOV 26-May-2015 PAJ NA	PAJ
05/27/2015	MS-15-098	1% HNO3	NA	2	11/27/2015	HNO3-1214040	NA	JK
05/27/2015	MS-15-099	Rinse 2%-0.05%	NA	1	11/27/2015	HCl-4213110 HNO3-1214040	4L	JK
05/27/2015	MS-15-~~098~~ 100	28-May-2015 PAJ Agilent Tune	25850	NA	11/27/2015	HNO3-1214040	25uL/250mL in 1% HNO3	KB
28-May-2015	MS-15-101	0.1% NH4OH	NH4OH BDH Aristar lot 20110347 2	NA	28-Nov-2015	NA	1mL NH4OH/1L H2O	PAJ
05/28/2015	MS-15-102	Agilent ISS No In	27582	NA	11/28/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
05/28/2015	MS-15-103	6020 Tune	~~24137~~ 25852 JK 05-28-2015	1	~~07~~ 11/01/2015 JK 05-28-2015	HNO3-1214040	250mL	JK
06/03/2015	MS-15-104	1% HNO3	NA	2	12/03/2015	HNO3-1214040	NA	KB
4-Jun-2015	MS-15-105	Rinse 1%/0.5%	NA	NA	4-Dec-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L 4-Jun-2015 PAJ	PAJ
4-Jun-2015	MS-15-106	Agilent ISS	24864	NA	4-Dec-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ

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Date	ICP-MS Solution #	Solution Type	Primary Solution ID# (Horizon)	Recipe page	Expiration Date	Acid Lots	Comments	Initials
4-Jun-2015	MS-15-107	Agilent ISS	24864	NA	4-Dec-2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	PAD
5-Jun-2015	MS-15-108	1% HNO_3	NA	2	5-Dec-2015	HNO_3-1214040	NA	PAD
06/05/2015	MS-15-109	Rinse 2%-0.5%	NA	1	12/05/2015	HNO_3-1214040 HCl-4213110	KB 6/5/15 4 L	KB
06/10/2015	MS-15-110	1:1 HNO_3	NA	2	12/10/2015	HNO_3-1213120	NA	KB
10-Jun-2015	MS-15-111	1% HNO_3	NA	2	10-Dec-2015	HNO_3 1213120	NA	PAD
06/15/2015	MS-15-112	1:4 HCl	NA	2	12/15/2015	HCl-4213110	NA	KB
06/17/2015	MS-15-113	1:1 HNO_3	NA	2	12/17/2015	HNO_3-1213120	NA	JK
06/18/2015	MS-15-114	Rinse 1%-0.5%	NA	NA	12/18/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
06/18/2015	MS-15-115	Agilent ISS	24864	NA	09/01/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3 22-Jun-2015 PAD	KB
22-Jun-2015	MS-15-116	0.1% NH_4OH	NH_4OH BDH Aristar lot 20110347 2	NA	22-Dec-2015	NA	1mL/5L H_2O	PAD
22-Jun-2015	MS-15-117	Iodine Agilent ISS	24864	NA	1-Sep-2015	0.1% NH_4OH	4mL/50mL 0.1% NH_4OH	PAD
22-Jun-2015	MS-15-118	Agilent ISS	24864	NA	1-Sep-2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	PAD
22-Jun-2015	MS-15-119	1% HNO_3	NA	2	22-Dec-2015	HNO_3-1213120	NA	PAD
06/22/2015	MS-15-120	1% HNO_3	NA	2	12/22/2015	HNO_3-1213120 HCl-4213110	NA	JK
06/22/2015	MS-15-121	Rinse 2%-0.5%	NA	1	12/22/2015	HNO_3-1213120	4L	JK

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Witnessed & Understood by me, Date Invented by Date

Recorded by

STANDARD REPORT

Working Standard - ICP-MS S50

ICP-MS S50		Description - ICP-MS S50 ISM01.3
Standard: 28396	**Created By:** J. Kershisnik	**Amount:** 200 mL
MFG: JTK	**Create Date:** 06/16/2015	**Expires:** 06/30/2015
MFG Lot:	**Lab Lot:** 06/16/15 JTK	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	50 ug/L
2	7440-36-0	Antimony	50 ug/L
3	7440-38-2	Arsenic	50 ug/L
4	7440-39-3	Barium	50 ug/L
5	7440-41-7	Beryllium	50 ug/L
6	7440-43-9	Cadmium	50 ug/L
7	7440-70-2	Calcium	50 ug/L
8	7440-47-3	Chromium	50 ug/L
9	7440-48-4	Cobalt	50 ug/L
10	7440-50-8	Copper	50 ug/L
11	7439-89-6	Iron	50 ug/L
12	7439-92-1	Lead	50 ug/L
13	7439-95-4	Magnesium	50 ug/L
14	7439-96-5	Manganese	50 ug/L
15	7440-02-0	Nickel	50 ug/L
16	7440-09-7	Potassium	50 ug/L
17	7782-49-2	Selenium	50 ug/L
18	7440-22-4	Silver	50 ug/L
19	7440-23-5	Sodium	50 ug/L
20	7440-28-0	Thallium	50 ug/L
21	7440-62-2	Vanadium	50 ug/L
22	7440-66-6	Zinc	50 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	197.5 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	0.5 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	2 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS S200

ICP-MS S200		Description - ICP-MS S200 ISM01.3
Standard: 28397	**Created By:** J. Kershisnik	**Amount:** 100 mL
MFG: JTK	**Create Date:** 06/16/2015	**Expires:** 06/30/2015
MFG Lot:	**Lab Lot:** 06/16/15 JTK	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/L
2	7440-36-0	Antimony	200 ug/L
3	7440-38-2	Arsenic	200 ug/L
4	7440-39-3	Barium	200 ug/L
5	7440-41-7	Beryllium	200 ug/L
6	7440-43-9	Cadmium	200 ug/L
7	7440-70-2	Calcium	200 ug/L
8	7440-47-3	Chromium	200 ug/L
9	7440-48-4	Cobalt	200 ug/L
10	7440-50-8	Copper	200 ug/L
11	7439-89-6	Iron	200 ug/L
12	7439-92-1	Lead	200 ug/L
13	7439-95-4	Magnesium	200 ug/L
14	7439-96-5	Manganese	200 ug/L
15	7440-02-0	Nickel	200 ug/L
16	7440-09-7	Potassium	200 ug/L
17	7782-49-2	Selenium	200 ug/L
18	7440-22-4	Silver	200 ug/L
19	7440-23-5	Sodium	200 ug/L
20	7440-28-0	Thallium	200 ug/L
21	7440-62-2	Vanadium	200 ug/L
22	7440-66-6	Zinc	200 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	98 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	1 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS S500

ICP-MS S500 — **Description - ICP-MS S500 ISM01.3**

Standard: 28398 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	500 ug/L
2	7440-36-0	Antimony	500 ug/L
3	7440-38-2	Arsenic	500 ug/L
4	7440-39-3	Barium	500 ug/L
5	7440-41-7	Beryllium	500 ug/L
6	7440-43-9	Cadmium	500 ug/L
7	7440-70-2	Calcium	500 ug/L
8	7440-47-3	Chromium	500 ug/L
9	7440-48-4	Cobalt	500 ug/L
10	7440-50-8	Copper	500 ug/L
11	7439-89-6	Iron	500 ug/L
12	7439-92-1	Lead	500 ug/L
13	7439-95-4	Magnesium	500 ug/L
14	7439-96-5	Manganese	500 ug/L
15	7440-02-0	Nickel	500 ug/L
16	7440-09-7	Potassium	500 ug/L
17	7782-49-2	Selenium	500 ug/L
18	7440-22-4	Silver	500 ug/L
19	7440-23-5	Sodium	500 ug/L
20	7440-28-0	Thallium	500 ug/L
21	7440-62-2	Vanadium	500 ug/L
22	7440-66-6	Zinc	500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	96.5 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	2.5 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - MS ISM S2500

MS ISM S2500 — **Description - ISM01.3 ICP-MS S2500**

Standard: 28399 **Created By:** J. Kershisnik **Amount:** 50 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2500 ug/L
2	7440-36-0	Antimony	2500 ug/L
3	7440-38-2	Arsenic	2500 ug/L
4	7440-39-3	Barium	2500 ug/L
5	7440-41-7	Beryllium	2500 ug/L
6	7440-43-9	Cadmium	2500 ug/L
7	7440-70-2	Calcium	2500 ug/L
8	7440-47-3	Chromium	2500 ug/L
9	7440-48-4	Cobalt	2500 ug/L
10	7440-50-8	Copper	2500 ug/L
11	7439-89-6	Iron	2500 ug/L
12	7439-92-1	Lead	2500 ug/L
13	7439-95-4	Magnesium	2500 ug/L
14	7439-96-5	Manganese	2500 ug/L
15	7440-02-0	Nickel	2500 ug/L
16	7440-09-7	Potassium	2500 ug/L
17	7440-23-5	Sodium	2500 ug/L
18	7440-28-0	Thallium	2500 ug/L
19	7440-62-2	Vanadium	2500 ug/L
20	7440-66-6	Zinc	2500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	43.25 mL	12/31/2025
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	6.25 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Working Standard - MS ISM S5000

MS ISM S5000	Description - ISM01.3 ICP-MS S5000

Standard: 28400 **Created By:** J. Kershisnik **Amount:** 50 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	5000 ug/L
2	7440-36-0	Antimony	5000 ug/L
3	7440-38-2	Arsenic	5000 ug/L
4	7440-39-3	Barium	5000 ug/L
5	7440-41-7	Beryllium	5000 ug/L
6	7440-43-9	Cadmium	5000 ug/L
7	7440-70-2	Calcium	5000 ug/L
8	7440-47-3	Chromium	5000 ug/L
9	7440-48-4	Cobalt	5000 ug/L
10	7440-50-8	Copper	5000 ug/L
11	7439-89-6	Iron	5000 ug/L
12	7439-92-1	Lead	5000 ug/L
13	7439-95-4	Magnesium	5000 ug/L
14	7439-96-5	Manganese	5000 ug/L
15	7440-02-0	Nickel	5000 ug/L
16	7440-09-7	Potassium	5000 ug/L
17	7440-23-5	Sodium	5000 ug/L
18	7440-28-0	Thallium	5000 ug/L
19	7440-62-2	Vanadium	5000 ug/L
20	7440-66-6	Zinc	5000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	37 mL	12/31/2025
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	12.5 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Working Standard - ISM MS100000

ISM MS100000	Description - ICP-MS ISM01.3 S100,000 ug/L

Standard: 28401 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID: ICP-MS ISM S100000

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	100000 ug/L
2	7440-09-7	Potassium	100000 ug/L
3	7439-95-4	Magnesium	100000 ug/L
4	7440-23-5	Sodium	100000 ug/L
5	7429-90-5	Aluminum	100000 ug/L
6	7439-89-6	Iron	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	96 mL	12/31/2025
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	1 mL	10/01/2015
26849	Al stock	10,000 ug/mL Al Stock	SPEX Al 10,000 ug/mL	1 mL	01/30/2016
26850	Fe Stock	10,000 ug/mL Fe Stock	SPEX Fe 10,000 ug/mL	1 mL	01/30/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICPMS CLPICV

ICPMS CLPICV — **Description - ICP-MS ICV ISM01.3**

Standard: 28402 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	504.2 ug/L
2	7440-36-0	Antimony	198.8 ug/L
3	7440-38-2	Arsenic	199.8 ug/L
4	7440-39-3	Barium	99.4 ug/L
5	7440-41-7	Beryllium	99 ug/L
6	7440-43-9	Cadmium	99.2 ug/L
7	7440-70-2	Calcium	2005.2 ug/L
8	7440-47-3	Chromium	98 ug/L
9	7440-48-4	Cobalt	99.8 ug/L
10	7440-50-8	Copper	98.4 ug/L
11	7439-89-6	Iron	1016.4 ug/L
12	7439-92-1	Lead	200.4 ug/L
13	7439-95-4	Magnesium	1214.8 ug/L
14	7439-96-5	Manganese	99.8 ug/L
15	7440-02-0	Nickel	100.6 ug/L
16	7440-09-7	Potassium	2004.2 ug/L
17	7782-49-2	Selenium	205.8 ug/L
18	7440-22-4	Silver	100.2 ug/L
19	7440-23-5	Sodium	2019.4 ug/L
20	7440-28-0	Thallium	205.6 ug/L
21	7440-62-2	Vanadium	100.2 ug/L
22	7440-66-6	Zinc	205 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	97 mL	12/31/2025
25667	CLPICP-ICV1	CLP-ICP/ICPMS-ICV-1	IP-PS-14-039	2 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS ICSA

ICP-MS ICSA		Description - ICP-MS ICSA ISM01.3
Standard: 28403	**Created By:** J. Kershisnik	**Amount:** 100 mL
MFG: JTK	**Create Date:** 06/16/2015	**Expires:** 06/30/2015
MFG Lot:	**Lab Lot:** 06/16/15 JTK	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	100000 ug/L
2	7440-36-0	Antimony	1.5 ug/L
3	7440-38-2	Arsenic	0.1 ug/L
4	7440-39-3	Barium	1.2 ug/L
5	7440-43-9	Cadmium	0.7 ug/L
6	7440-70-2	Calcium	100000 ug/L
7	7440-44-0	Carbon	200000 ug/L
8	16887-00-6	Chloride	1000000 ug/L
9	7440-47-3	Chromium	21 ug/L
10	7440-48-4	Cobalt	1 ug/L
11	7440-50-8	Copper	8 ug/L
12	7439-89-6	Iron	100000 ug/L
13	7439-92-1	Lead	4 ug/L
14	7439-95-4	Magnesium	100000 ug/L
15	7439-96-5	Manganese	7 ug/L
16	7439-98-7	Molybdenum	2000 ug/L
17	7440-02-0	Nickel	6 ug/L
18	7723-14-0	Phosphorus	100000 ug/L
19	7440-09-7	Potassium	100000 ug/L
20	7782-49-2	Selenium	0.3 ug/L
21	7440-23-5	Sodium	100000 ug/L
22	63705-05-5	Sulfur	100000 ug/L
23	7440-32-6	Titanium	2000 ug/L
24	7440-62-2	Vanadium	0.5 ug/L
25	7440-66-6	Zinc	11 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	89 mL	12/31/2025
16485	CLPMS-ICS-A	CLP-ICP-MS-ICS-Part A (0803)	IP-PS-12-036	10 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS ICSAB

ICP-MS ICSAB — **Description - ICP-MS ICSAB ISM01.3**

Standard: 28404 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: JTK **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	100000 ug/L
2	7440-36-0	Antimony	22 ug/L
3	7440-38-2	Arsenic	19 ug/L
4	7440-39-3	Barium	21.7 ug/L
5	7440-43-9	Cadmium	20 ug/L
6	7440-70-2	Calcium	100000 ug/L
7	7440-44-0	Carbon	200000 ug/L
8	16887-00-6	Chloride	1000000 ug/L
9	7440-47-3	Chromium	40 ug/L
10	7440-48-4	Cobalt	20 ug/L
11	7440-50-8	Copper	25 ug/L
12	7439-89-6	Iron	100000 ug/L
13	7439-92-1	Lead	25 ug/L
14	7439-95-4	Magnesium	100000 ug/L
15	7439-96-5	Manganese	27 ug/L
16	7439-98-7	Molybdenum	2000 ug/L
17	7440-02-0	Nickel	24 ug/L
18	7723-14-0	Phosphorus	100000 ug/L
19	7440-09-7	Potassium	100000 ug/L
20	7782-49-2	Selenium	19 ug/L
21	7440-23-5	Sodium	100000 ug/L
22	63705-05-5	Sulfur	100000 ug/L
23	7440-32-6	Titanium	2000 ug/L
24	7440-62-2	Vanadium	19 ug/L
25	7440-66-6	Zinc	29 ug/L
26	7440-41-7	Beryllium	19 ug/L
27	7440-22-4	Silver	18 ug/L
28	7440-28-0	Thallium	21 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	79 mL	12/31/2025
16485	CLPMS-ICS-A	CLP-ICP-MS-ICS-Part A (0803)	IP-PS-12-036	10 mL	08/12/2020
16486	CLPMS-ICS-B	CLP-ICP-MS-ICS-Part B (0803)	IP-PS-12-037	10 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ISM MS CCV

ISM MS CCV — **Description - ICP-MS ISM01.3 CCV**

Standard: 28405 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID: ICP-MS ISM CCV

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	50000 ug/L
2	7440-09-7	Potassium	50000 ug/L
3	7439-95-4	Magnesium	50000 ug/L
4	7440-23-5	Sodium	50000 ug/L
5	7440-22-4	Silver	250 ug/L
6	7429-90-5	Aluminum	50000 ug/L
7	7439-89-6	Iron	50000 ug/L
8	7782-49-2	Selenium	250 ug/L
9	7440-36-0	Antimony	2500 ug/L
10	7440-38-2	Arsenic	2500 ug/L
11	7440-39-3	Barium	2500 ug/L
12	7440-41-7	Beryllium	2500 ug/L
13	7440-43-9	Cadmium	2500 ug/L
14	7440-47-3	Chromium	2500 ug/L
15	7440-48-4	Cobalt	2500 ug/L
16	7440-50-8	Copper	2500 ug/L
17	7439-92-1	Lead	2500 ug/L
18	7439-96-5	Manganese	2500 ug/L
19	7440-02-0	Nickel	2500 ug/L
20	7440-28-0	Thallium	2500 ug/L
21	7440-62-2	Vanadium	2500 ug/L
22	7440-66-6	Zinc	2500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	85.525 mL	12/31/2025
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	0.475 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.025 mL	08/30/2015
26849	Al stock	10,000 ug/mL Al Stock	SPEX Al 10,000 ug/mL	0.475 mL	01/30/2016
26850	Fe Stock	10,000 ug/mL Fe Stock	SPEX Fe 10,000 ug/mL	0.475 mL	01/30/2016
27253	Se Stock Low	1,000 ug/mL Se Stock	SPEX Se 1,000 ug/mL	0.025 mL	02/28/2016
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	12.5 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Stock Standard - 6020ISS

6020ISS	Description - ICPMS EPA 6020 ISS

Standard: 24864 **Created By:** K. Bitner **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 8/12/2014 **Expires:** 9/1/2015
MFG Lot: G2-MEB464028 **Lab Lot:** IP-PS-14-022 **Usable:** Yes
Part ID: 6020ISS

Pos.	Analyte	Name	Concentration
1	7440-69-9	Bismuth	10 ug/mL
2	7440-60-0	Holmium	10 ug/mL
3	7440-74-6	Indium	10 ug/mL
4	7439-93-2(6)	Lithium-6	10 ug/mL
5	7440-16-6	Rhodium	10 ug/mL
6	7440-20-2	Scandium	10 ug/mL
7	7440-27-9	Terbium	10 ug/mL
8	7440-65-5	Yttrium	10 ug/mL

STANDARD REPORT

Stock Standard - IMS MES2

IMS MES2		Description - Multi-element Solution #2
Standard: 25397	**Created By:** K. Bitner	**Amount:** 125 mL
MFG: SPEX	**Create Date:** 9/30/2014	**Expires:** 9/30/2015
MFG Lot: CL11-01YPY	**Lab Lot:** IP-PS-14-027	**Usable:** Yes
Part ID: CLMS-2		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	10 mg/L
2	7440-38-2	Arsenic	10 mg/L
3	7440-39-3	Barium	10 mg/L
4	7440-41-7	Beryllium	10 mg/L
5	7440-69-9	Bismuth	10 mg/L
6	7440-43-9	Cadmium	10 mg/L
7	7440-70-2	Calcium	10 mg/L
8	7440-46-2	Cesium	10 mg/L
9	7440-47-3	Chromium	10 mg/L
10	7440-48-4	Cobalt	10 mg/L
11	7440-50-8	Copper	10 mg/L
12	7440-55-3	Gallium	10 mg/L
13	7440-74-6	Indium	10 mg/L
14	7439-89-6	Iron	10 mg/L
15	7439-92-1	Lead	10 mg/L
16	7439-93-2	Lithium	10 mg/L
17	7439-95-4	Magnesium	10 mg/L
18	7439-96-5	Manganese	10 mg/L
19	7440-02-0	Nickel	10 mg/L
20	7440-09-7	Potassium	10 mg/L
21	7440-17-7	Rubidium	10 mg/L
22	7782-49-2	Selenium	10 mg/L
23	7440-22-4	Silver	10 mg/L
24	7440-23-5	Sodium	10 mg/L
25	7440-24-6	Strontium	10 mg/L
26	7440-28-0	Thallium	10 mg/L
27	7440-61-1	Uranium	10 mg/L
28	7440-62-2	Vanadium	10 mg/L
29	7440-66-6	Zinc	10 mg/L

STANDARD REPORT

Stock Standard - Var-Tune Std

Var-Tune Std		Description - Var Tune Std/CLP, 200.8 Tune
Standard: 25851	**Created By:** K. Bitner	**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 10/29/2014	**Expires:** 11/1/2015
MFG Lot: G2-MEB478062	**Lab Lot:** IP-PS-14-043	**Usable:** Yes
Part ID: VAR-TS-MS		

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	10 mg/L
2	7440-41-7	Beryllium	10 mg/L
3	7440-45-1	Cerium	10 mg/L
4	7440-48-4	Cobalt	10 mg/L
5	7440-74-6	Indium	10 mg/L
6	7439-92-1	Lead	10 mg/L
7	7439-95-4	Magnesium	10 mg/L
8	7440-28-0	Thallium	10 mg/L
9	7440-29-1	Thorium	10 mg/L

STANDARD REPORT

Constituent

Stock Standard - CLPMS-ICS-A

CLPMS-ICS-A — **Description - CLP-ICP-MS-ICS-Part A (0803)**

Standard: 16485 **Created By:** J. Kershisnik **Amount:** 600 mL
MFG: QATS Laboratory **Create Date:** 9/26/2012 **Expires:** 8/12/2020
MFG Lot: ICSA-0803 **Lab Lot:** IP-PS-12-036 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	1000000 ug/L
2	7440-36-0	Antimony	15 ug/L
3	7440-38-2	Arsenic	1 ug/L
4	7440-39-3	Barium	12 ug/L
5	7440-43-9	Cadmium	7 ug/L
6	7440-70-2	Calcium	1000000 ug/L
7	7440-44-0	Carbon	2000000 ug/L
8	16887-00-6	Chloride	10000000 ug/L
9	7440-47-3	Chromium	210 ug/L
10	7440-48-4	Cobalt	10 ug/L
11	7440-50-8	Copper	80 ug/L
12	7439-89-6	Iron	1000000 ug/L
13	7439-92-1	Lead	40 ug/L
14	7439-95-4	Magnesium	1000000 ug/L
15	7439-96-5	Manganese	70 ug/L
16	7439-98-7	Molybdenum	20000 ug/L
17	7440-02-0	Nickel	60 ug/L
18	7723-14-0	Phosphorus	1000000 ug/L
19	7440-09-7	Potassium	1000000 ug/L
20	7782-49-2	Selenium	3 ug/L
21	7440-23-5	Sodium	1000000 ug/L
22	63705-05-5	Sulfur	1000000 ug/L
23	7440-32-6	Titanium	20000 ug/L
24	7440-62-2	Vanadium	5 ug/L
25	7440-66-6	Zinc	110 ug/L

STANDARD REPORT

Constituent

Stock Standard - CLPMS-ICS-B

CLPMS-ICS-B — **Description - CLP-ICP-MS-ICS-Part B (0803)**

Standard: 16486 **Created By:** J. Kershisnik **Amount:** 300 mL
MFG: QATS Laboratory **Create Date:** 9/26/2012 **Expires:** 8/12/2020
MFG Lot: ICSB-0803 **Lab Lot:** IP-PS-12-037 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	0 ug/L
2	7440-36-0	Antimony	205 ug/L
3	7440-38-2	Arsenic	189 ug/L
4	7440-39-3	Barium	205 ug/L
5	7440-41-7	Beryllium	190 ug/L
6	7440-43-9	Cadmium	193 ug/L
7	7440-70-2	Calcium	0 ug/L
8	7440-44-0	Carbon	0 ug/L
9	16887-00-6	Chloride	0 ug/L
10	7440-47-3	Chromium	190 ug/L
11	7440-48-4	Cobalt	190 ug/L
12	7440-50-8	Copper	170 ug/L
13	7439-89-6	Iron	0 ug/L
14	7439-92-1	Lead	210 ug/L
15	7439-95-4	Magnesium	0 ug/L
16	7439-96-5	Manganese	200 ug/L
17	7439-98-7	Molybdenum	0 ug/L
18	7440-02-0	Nickel	180 ug/L
19	7723-14-0	Phosphorus	0 ug/L
20	7440-09-7	Potassium	0 ug/L
21	7782-49-2	Selenium	187 ug/L
22	7440-22-4	Silver	180 ug/L
23	7440-23-5	Sodium	0 ug/L
24	63705-05-5	Sulfur	0 ug/L
25	7440-28-0	Thallium	210 ug/L
26	7440-32-6	Titanium	0 ug/L
27	7440-62-2	Vanadium	185 ug/L
28	7440-66-6	Zinc	180 ug/L

STANDARD REPORT

Constituent

Stock Standard - IV-STOCK-2

IV-STOCK-2		**Description - ISM01.3 Standard**
Standard: 25304	**Created By:** J. Sanchez	**Amount:** 500 mL
MFG: Inorganic Ventures	**Create Date:** 9/22/2014	**Expires:** 10/1/2015
MFG Lot: G2-MEB506019	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: P1081H		

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	10000 ug/mL
2	7440-09-7	Potassium	10000 ug/mL
3	7439-95-4	Magnesium	10000 ug/mL
4	7440-23-5	Sodium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ag Stock

Ag Stock	Description - 1,000 ug/mL Ag Stock

Standard:	25320	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	Spex CertiPrep	**Create Date:**	9/2/2014	**Expires:**	8/30/2015
MFG Lot:	19-13AGY	**Lab Lot:**	Ag 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLAG2-2Y				

Pos.	Analyte	Name	Concentration
1	7440-22-4	Silver	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICV1

CLPICP-ICV1 — **Description - CLP-ICP/ICPMS-ICV-1**

Standard: 25667 **Created By:** J. Kershisnik **Amount:** 500 mL
MFG: QATS Laboratory **Create Date:** 10/16/2014 **Expires:** 8/12/2020
MFG Lot: ICV1-0307 **Lab Lot:** IP-PS-14-039 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25210 ug/L
2	7440-36-0	Antimony	9940 ug/L
3	7440-38-2	Arsenic	9990 ug/L
4	7440-39-3	Barium	4970 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	4960 ug/L
7	7440-70-2	Calcium	100260 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4990 ug/L
10	7440-50-8	Copper	4920 ug/L
11	7439-89-6	Iron	50820 ug/L
12	7439-92-1	Lead	10020 ug/L
13	7439-95-4	Magnesium	60740 ug/L
14	7439-96-5	Manganese	4990 ug/L
15	7440-02-0	Nickel	5030 ug/L
16	7440-09-7	Potassium	100210 ug/L
17	7782-49-2	Selenium	10290 ug/L
18	7440-22-4	Silver	5010 ug/L
19	7440-23-5	Sodium	100970 ug/L
20	7440-28-0	Thallium	10280 ug/L
21	7440-62-2	Vanadium	5010 ug/L
22	7440-66-6	Zinc	10250 ug/L

STANDARD REPORT

Constituent

Stock Standard - 6020Cal1

6020Cal1	Description - ICPMS EPA 6020 Cal#1

Standard: 26205 **Created By:** K. Bitner **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 12/2/2014 **Expires:** 12/1/2015
MFG Lot: F2-MEB419032 **Lab Lot:** IP-PS-14-051 **Usable:** Yes
Part ID: 6020CAL-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 mg/L
2	7440-36-0	Antimony	20 mg/L
3	7440-38-2	Arsenic	20 mg/L
4	7440-39-3	Barium	20 mg/L
5	7440-41-7	Beryllium	20 mg/L
6	7440-43-9	Cadmium	20 mg/L
7	7440-70-2	Calcium	20 mg/L
8	7440-47-3	Chromium	20 mg/L
9	7440-48-4	Cobalt	20 mg/L
10	7440-50-8	Copper	20 mg/L
11	7439-89-6	Iron	20 mg/L
12	7439-92-1	Lead	20 mg/L
13	7439-95-4	Magnesium	20 mg/L
14	7439-96-5	Manganese	20 mg/L
15	7440-02-0	Nickel	20 mg/L
16	7440-09-7	Potassium	20 mg/L
17	7782-49-2	Selenium	20 mg/L
18	7440-22-4	Silver	20 mg/L
19	7440-23-5	Sodium	20 mg/L
20	7440-28-0	Thallium	20 mg/L
21	7440-62-2	Vanadium	20 mg/L
22	7440-66-6	Zinc	20 mg/L

STANDARD REPORT

Constituent

Stock Standard - Al stock

Al stock	Description - 10,000 ug/mL Al Stock

Standard:	26849	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AG15-142ALY	**Lab Lot:**	SPEX Al 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLAL2-3Y				

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Fe Stock

Fe Stock	Description - 10,000 ug/mL Fe Stock

Standard:	26850	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AL15-138FEY	**Lab Lot:**	SPEX Fe 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLFE2-3Y				

Pos.	Analyte	Name	Concentration
1	7439-89-6	Iron	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Se Stock Low

Se Stock Low	Description - 1,000 ug/mL Se Stock

Standard:	27253	**Created By:**	P. Foote	**Amount:**	30 mL
MFG:	SPEX CertiPrep	**Create Date:**	2/26/2015	**Expires:**	2/28/2016
MFG Lot:	20-79SEM	**Lab Lot:**	SPEX Se 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLSE2-2M				

Pos.	Analyte	Name	Concentration
1	7782-49-2	Selenium	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - DATACHEM-1

DATACHEM-1 — **Description - ICPMS 20 ppm (No Ag or Se)**

Standard: 27946 **Created By:** K. Bitner **Amount:** 250 mL
MFG: Inorganic Ventures **Create Date:** 5/4/2015 **Expires:** 6/1/2016
MFG Lot: G2-MEB452151 **Lab Lot:** IP-PS-15-013 **Usable:** Yes
Part ID: DATACHEM-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	20 ug/mL
3	7440-38-2	Arsenic	20 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	20 ug/mL
6	7440-43-9	Cadmium	20 ug/mL
7	7440-70-2	Calcium	20 ug/mL
8	7440-47-3	Chromium	20 ug/mL
9	7440-48-4	Cobalt	20 ug/mL
10	7440-50-8	Copper	20 ug/mL
11	7439-89-6	Iron	20 ug/mL
12	7439-92-1	Lead	20 ug/mL
13	7439-95-4	Magnesium	20 ug/mL
14	7439-96-5	Manganese	20 ug/mL
15	7440-02-0	Nickel	20 ug/mL
16	7440-09-7	Potassium	20 ug/mL
17	7440-23-5	Sodium	20 ug/mL
18	7440-28-0	Thallium	20 ug/mL
19	7440-62-2	Vanadium	20 ug/mL
20	7440-66-6	Zinc	20 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - ASTMType2Wat

ASTMType2Wat	Description - ASTM Type 2 Deionized Water

Standard:	4304	**Created By:**	R. Lemon	**Amount:**	1 L
MFG:		**Create Date:**	6/1/2009	**Expires:**	12/31/2025
MFG Lot:		**Lab Lot:**	ASTMType2Water	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - Ultra-HNO3

Ultra-HNO3			Description - Ultra Nitric Acid
Standard: 28295	**Created By:** K. Bitner		**Amount:** 2000 mL
MFG: BDH Aristar Ultra	**Create Date:** 6/10/2015		**Expires:** 1/14/2017
MFG Lot: 1213120	**Lab Lot:** 06/10/15 kb		**Usable:** Yes
Part ID: 87003-658			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ISM01.3-7471B Mercury in Soil Analysis Electronic Log

Electronic Log Information

File Location: ALSltws013\AA_current\Mercury\Hg-EPA-CLP-DATA File Name: AN-HGS-MF9M48-150996

Sample & Case Information

ALS workorder ID	EPA Sample Names	Case	SDG	Account	No. of Samples
1515632	MF9M48-52, 54-68	45299	MF9M48	8201	20

Sample Preparation Information

1) Preparation Group ID: EHG/5876 (HBN:150236)
2) Preparation Log File Location:
   Alsltws013\DataReview; folder = 150996
3) Physical Description File Location:
   Alsltws013\AAcurrent\Mercury\Hg-EPA-CLP-DATA
4) Preparation Date/Time: 06/17/2015 12:03
5) Preparer: Christopher R. Hansen

Analysis and Data Information

1) Analysis Group ID: EHG/5889 (HBN:150996)
2) Data Result File Name: CV2-15175a
3) Analysis Date/Start-time: 06/18/2015 12:25
4) 12% $NH_2OH \bullet HCl$ Entry: AA_current/HgReagents/21
5) 10% SnCl2 Entry: AA_current/HgReagents/23
6) 5% HNO3 + 5% HCl Entry: AA_current/HgReagents/27
7) Analyst: Christopher R. Hansen

Analysis Instrument

1) Instrument Type: Cold Vapor Atomic Absorption
2) Instrument Name: CETAC M-7500
3) Instrument ID: AACV02
4) Reading Wavelength: 253.65 nm
5) Running Condition of Instrument: Fair

Calibration Data and Calculations

1) Correlation Coefficient: 0.99981
2) equation $A = n_1 + n_2C$ n_1 248.01
3) then $C = (A - n_1) / n_2$ n_2 21246.52
4) Calculated mercury concentrations (µg/L)

Stds.	µAbs	Result	Target	% Difference
S0	-136.63	-0.0181	0.0	NA
S0.2	3843.5	0.1692	0.2	15.4%
S0.5	10234	0.4700	0.5	6.0%
S1.0	22152	1.0309	1.0	-3.1%
S5.0	108560	5.0979	5.0	-2.0%
S10	211650	9.9500	10.0	0.5%

Sample Preparation Comments

None were required.

Sample Analysis Comments

None were required.

Sample ID	Dilution	Reason	Pipettes used

No sample dilutions were required.

Method Information

1) Method/SOP: ISM01.3 7471B Mercury in Soil: SOP (IT-EP-ISM-HG)
2) Method Detection Limit (MDL) = 0.001457 mg/kg [Hg]; Effective 01/15/2015 - 01/15/2016
3) Contract Required Quantitation Limit (CRQL) = 0.1 mg/kg [Hg]
4) Method Control Limits: Calibration Stds ±30% difference; ICV/CCV ±15% of target; MS ±25% of target

Project No. NA
Book No. 4723

TITLE ALS Salt Lake – EPA CLP Mercury Run Log

From Page No. X

Workorder(s)	SDG	Analysis HBN	Raw Data File Name	Analysis Date	Start Time	End Time	Matrix Type	No. of samples	Initials	Comments
1508351	MX1M86	146837	CV2-15099	04/07/2015	10:55	11:34	Water	1	CH	PE
1508355	MX1M90	146838	CV2-15105	04/08/2015	11:50	12:07	Soil	1	CH	PE
1508355	MX1M90	146839	CV2-15099	04/07/2015	10:55	11:34	TCLP	1	CH	PE
1510008	MH0AF8	147114	CV2-15110	04/14/2015	16:15	16:42	Water	10	CH	None
1509906	MX1P28	147244	CV2-15115	04/15/2015	15:44	16:01	Water	1	CH	ISM02.2 PE
1509910	MX1P32	147555	CV2-15119	04/17/2015	13:40	13:57	Soil	1	CH	ISM02.2 PE
1509910	MX1P32	147784	CV2-15127	04/27/2015	1454	1519	Soil	1	~~AT~~	ISM02.2 PE
1510625	MX1P80	148140	CV2-15130	04/30/2015	17:06	17:23	Soil	1	CH	ISM01.3 PE
1510622	MX1P76	148221	CV2-15133	05/~~04~~/05/2015 CH 05/05/2015	10:15	10:32	Water	1	CH	ISM01.3 PE
1512055	MX1R04	148226	CV2-15134	05/05/2015	10:36	10:53	Water	1	CH	ISM02.2 PE
1512056	MX1R08	148491	CV2-15138	05/07/2015	15:09	15:38	Soil	1	CH	ISM02.2 PE Reanalyzed once for MS
1513418	MX1S53	149204	CV2-15151	05/20/2015	15:25	16:07	Soil	1	CH	ISM02.2 PE Dilution Required
1513993	51915	149546	CV2-15156a	05/27/2015	12:38	12:55	Water	1	CH	NA
1513412	MX1S49	149554	CV2-15155	05/27/2015	11:33	12:17	Water	1	CH	~~NA~~ ISM02.2 PE CH 06/01/2015
1513445	MX1S57	149548	CV2-15155	05/27/2015	11:33	12:17	TCLP	1	CH	ISM02.2 PE / 48x dilution
1514325	MF9L76	149911	CV2-15161	06/04/2015	11:18	11:47	Soil	12	CH	None
1515757	MH2TR0	150219	CV2-15166	06/09/2015	10:50	11:07	Soil	1	CH	None
1515388	MF9L98	150397	CV2-15167	06/11/2015	10:08	10:48	Soil	20	CH	None
1515559	MF9M21	150398	CV2-15168	06/11/2015	10:51	11:32	Soil	20	CH	None
1515392, 1515633	MF9M15	150465	CV2-15170a	06/12/2015	12:57	13:27	Soil	13	CH	None
1516259	MC0AP6	150982	CV2-15171a	06/16/2015	10:20	10:57	Water	15	CH	None
1515562	MF9M38	150995	CV2-15174	06/18/2015	11:11	11:32	Soil	5	CH	None
1515632	MF9M48	150996	CV2-15175a	06/18/2015	12:25	13:05	Soil	20	CH	None

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Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

ALS Reagent Report

ID Number: 21 Description: 12% Hydroxylamine Hydrochloride

Analyst: Christopher Hansen

Date Created: 03/27/2015 Expiration Date: 03/27/2016

Pipettes Used:

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

240g hydroxylamine hydrochloride was dissolved into 2L ASTM type II water. Total of 8L (4 x 2L) was prepared.
Hydroxylamine Hydrochloride, Crystal: J.T. Baker batch #0000079919.

: 00411

ALS Reagent Report

ID Number: 23 Description: 10% Stannous Chloride in 7% Hydrochloric Acid

Analyst: Shane Stewart

Date Created: 04/14/2015 Expiration Date: 04/14/2016

Pipettes Used: Acid Dispenser

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

Tin(II) chloride dihydrate, reagent grade - Alfa Aesar - Lot:T22A037.
Hydrochloric acid - EMD OmniTrace - Lot:54234.
200g tin chloride dissolved in 140mL HCl and diluted to 2L with ASTM Type II water.

ALS Reagent Report

ID Number: 27 Description: M-7500 CVAA Rinse Solution

Analyst: Christopher Hansen

Date Created: 05/14/2015 Expiration Date: 05/14/2016

Pipettes Used: Acid Dispenser

Balanced Used:

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

100mL of concentrated nitric acid and 100mL of concentrated hydrochloric acid was diluted to 2L with ASTM type II water. 12L (6 x 2L-bottles) was prepared. Nitric Acid - J.T. Baker Lot 104117. Hydrochloric Acid - EMD Lot 54310.

: 00413