FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Bonner Analytical Testing Company

CITY/STATE Hattiesburg / MS

CASE NO. 42562 SDG NO. MF5WC4

SDG NOs. TO FOLLOW MF5WC5, A4, B4

MOD. REF. NO. N/A

666727

CONTRACT NO. EPW09037

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.		CHECK	
		FROM	TO	LAB	REGION
1.	Inventory Sheet (DC-2)	1	2	✓	✓
2.	SDG Narrative	3	4	✓	✓
3.	Sample Log-In Sheet (DC-1)	5	5	✓	✓
4.	Traffic Report/Chain of Custody Record(s)	6	7	✓	✓
5.	Cover Page	8	8	✓	✓
Inorganic Analysis					
6.	Data Sheet (Form I-IN)	9	11	✓	✓
7.	Initial & Continuing Calibration Verification (Form IIA-IN)	12	18	✓	✓
8.	Blanks (Form III-IN)	19	22	✓	✓
9.	ICP-AES Interference Check Sample (Form IVA-IN)	23	24	✓	✓
10.	ICP-MS Interference Check Sample (Form IVB-IN)	25	25	✓	✓
11.	Matrix Spike Sample Recovery (Form VA-IN)	26	28	✓	✓
12.	Post-Digestion Spike Sample Recovery (Form VB-IN)	N/A	N/A	✓	
13.	Duplicates (Form VI-IN)	29	32	✓	✓
14.	Laboratory Control Sample (Form VII-IN)	33	34	✓	✓
15.	ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	35	37	✓	✓
16.	Method Detection Limit (Annually) (Form IX-IN)	38	40	✓	✓
17.	ICP-AES Interelement Correction Factors (Annually) (Form XA-IN)	41	41	✓	✓
18.	ICP-AES Interelement Correction Factors (Annually) (Form XB-IN)	42	43	✓	✓
19.	Internal Standard Association (Form XI-IN)	44	44	✓	✓
20.	Preparation Log (Form XII-IN)	45	47	✓	✓
21.	Analysis Run Log (Form XIII-IN)	48	51	✓	✓
22.	ICP-MS Tune (Form XIV-IN)	52	52	✓	✓

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23.	ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	53	54	✓	✓
24.	Initial Calibration (Form XVI-IN)	55	67	✓	✓
25.	ICP-AES Raw Data	68	156	✓	✓
26.	ICP-MS Raw Data	157	181	✓	✓
27.	Mercury Raw Data	182	185	✓	✓
28.	Cyanide Raw Data	N/A	N/A	✓	
29.	Preparation Logs Raw Data	186	188	✓	✓
30.	Percent Solids Determination Log	N/A	N/A	✓	
31.	USEPA Shipping/Receiving Documents	N/A	N/A	✓	
	Airbill (No. of Shipments 1)	189	189	✓	✓
	Sample Tags	N/A	N/A	✓	
	Sample Log-In Sheet (Lab)	190	191	✓	✓
32.	Misc. Shipping/Receiving Records (list all individual records)				
	Communication Logs	N/A	N/A	✓	
		N/A	N/A	✓	
33.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	192	195	✓	✓
	In House / Digestate chains	N/A	N/A	✓	
34.	Internal Original Sample Prep & Analysis Records (describe or list)	N/A	N/A	✓	
	Prep Records	196	214	✓	✓
	Analysis Records	215	218	✓	✓
	PE Instructions	N/A	N/A	✓	
	Description	N/A	N/A	✓	
35.	Other Records (describe or list)	N/A	N/A	✓	
	Communication Logs	219	219	✓	✓
	e-mails Corrective Actions	N/A	N/A	✓	

06/30/12

36. Comments:

Completed by: (CLP Lab) (Signature) Nak Bonner, President (Print Name & Title) 6/5/12 (Date)

Audited by: ~~(USEPA)~~ ESAT (Signature) LINDA HOFFMAN / DATA REVIEWER (Print Name & Title) 06/30/12 (Date)

BONNER ANALYTICAL TESTING COMPANY

2703 OAK GROVE ROAD, HATTIESBURG, MS 39402
PHONE: (601) 264-2854 FAX: (601) 268-7084

SDG NARRATIVE:

SDG Number: MF5WC4
Case Number: 42562
Contract Number: EPW09037

Sample Receipt:
On May 16, 2012 we received 3 waters via FedEx air bill 8991 9781 6298. Custody seals were present and intact. Cooler temp was determined to be 5°C. Samples were in good condition with no discrepancies.

Analytes for this case are; Al, Ca, Fe, Mg, K, Na By ICP-AES, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Tl, V, Zn by ICP-MS & Hg, CN.

Metals ICP-AES:
Analytical analysis began 5/23/2012 at 14:31. All samples exceeded the high calibration point for Na. Samples were diluted appropriately and reanalyzed.

Metals ICP-MS:
No Discrepancies

Mercury:
No Discrepancies

Sample Equation:

Lab ID 1205175-01 EPA Sample # MF5WC4

Date & Time 5-23-12 1648

ICP-AES: 2042.3 µg/L * 1 (Dilution Factor) 2042 ug/L
(Analyte Ca)

Date & Time 5-23-12 @ 1028

ICP-MS: 0.6673 µg/L * 1 (Dilution Factor) 0.67 ug/L
(Analyte Cu)

Date & Time 6-4-12 @ 1357

Hg: 0.9130 µg/L * 1 (Dilution Factor) 0.91 ug/L

Authorized By Brandon G. Beck
Brandon G. Beck
Document Control Officer

SAMPLE LOG-IN SHEET

Lab Name BONNER ANALYTICAL		Page ___ of ___
Received By (Print Name) Patricia Aiken		Log-in Date 5-16-12
Received By (Signature) Patricia Aik		
Case Number 42562	Sample Delivery Group No. MF5WC4	Mod. Ref. No. N/A

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal NOs.	N/A N/A
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8991 9781 6298 N/A
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	5°C
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree?	Yes/No*
11. Date Received at Lab	5-16-12
12. Time Received	0908

Sample Transfer	
Fraction AES/MS/Hg	Fraction CN
Area# CL001	Area# CL001
By P. Aik	By P. Aik
On 5-16-12	On 5-16-12

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MF5WC4	14, 14	6-456855 6-456856	1205175-01	See Good
2	MF5WC4	1, 1	6-456857 6-456858	1205175-01	
3	MF5WC5	14	6-456864	1205175-02	
4	MF5WC5	1	6-456866	1205175-02	
5	MF5WC6	14	6-456867	1205175-03	
6	MF5WC6	1	6-456873	1205175-03	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

PA 5-16-12

* Contact SMO and attach record of resolution

Reviewed By MAB	~~Logbook No.~~
Date 6-4-12	Logbook Page No.

MF5WC4

USEPA CLP Inorganics COC (LAB COPY)

DateShipped: 5/15/2012
CarrierName: FedEx
AirbillNo: 899197816298

CHAIN OF CUSTODY RECORD

Case #: 42562
Cooler #: 1 of 2

No: 6-051512-133745-0002

Lab: Bonner Analytical Testing Company
Lab Contact: Patricia Aiken
Lab Phone: 601-264-2854

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	For Lab Use Only
MF5WC4	Ground Water/ Gary Hazelwood	Grab	CN(21), CN(21), TM + Hg(21), TM + Hg(21)	6-456855 (NaOH pH>12), 6-456856 (NaOH pH>12), 6-456857 (HNO3 pH<2), 6-456858 (HNO3 pH<2) (4)	GW-01	05/15/2012 11:27	F5WC4	
MF5WC5	Ground Water/ Gary Hazelwood	Grab	CN(21), TM + Hg(21)	6-456864 (NaOH pH>12), 6-456866 (HNO3 pH<2) (2)	GW-02	05/15/2012 11:45	F5WC5	
MF5WC6	Ground Water/ Gary Hazelwood	Grab	TM + Hg(21), CN(21)	6-456867 (HNO3 pH<2), 6-456873 (NaOH pH>12) (2)	GW-03	05/15/2012 10:14	F5WC6	

Sample(s) to be used for Lab QC: MF5WC4 - Special Instructions: Analytes for ICP-MS: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, cyanide, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, zinc.

Analytes for ICP-AES: aluminum, calcium, iron, magnesium, potassium, sodium.

5°C

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CN=CLP CN ISM01.3, TM + Hg=CLP TAL Metals + Hg ICP AES + MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	5/15/12							P. Aiken	5-16-12	0928

6

SAMPLE DELIVERY GROUP (SDG)
COVER SHEET

SDG Number: MF5WC4

☒ ICP-AES ☒ Mercury ☐ Cyanide ☒ ICP-MS

☐ VOA ☐ VOA-SIM ☐ Trace-VOA ☐ Trace-VOA-SIM ☐ SVOA ☐ SVOA-SIM ☐ Aroclors ☐ Pesticides

Laboratory Name: Bonner Analytical Testing **Laboratory Code:** BONNER
Contract No.: EPW09037 **Case No.:** 42562
Solicitation No.: N/A **SDG Turnaround:** 21 day
Modified Analysis No(s).: N/A

EPA Sample Nmbers in SDG (Listed in Numerical Order)

1) MF5WC4	7)	13)	19)
2) MF5WC5	8)	14)	20)
3) MF5WC6	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

PA
5-16-12

MF5WC4	MF5WC6
First Sample in SDG	Last Sample in SDG
05/16/2012	05/16/2012
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 samples (excluding PE Sample) in SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Patricia Ach
Signature

5-16-12
Date

USEPA - CLP

COVER PAGE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: _____ SDG No.: MF5WC4

SOW No.: ISM01.3

EPA Sample No.	Lab Sample ID
MF5WC4	1205175-01
MF5WC4D	2052901-DUP1
MF5WC4D	2052309-DUP1
MF5WC4D	2052308-DUP2
MF5WC4D	2052308-DUP1
MF5WC4S	2052901-MS1
MF5WC4S	2052309-MS1
MF5WC4S	2052308-MS2
MF5WC4S	2052308-MS1
MF5WC5	1205175-02
MF5WC6	1205175-03

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

Mg, Mn and K were flagged as "E" estimated due to interferences occurring during the analysis of the serial dilution.

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: Brandon G. Beck For Chris Bonner

Date: 6/5/12 Title: CEO

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF5WC4

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water Lab Sample ID: 1205175-01

% Solids: Date Received: 05/16/2012

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

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	6.1			MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	6.1	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	2040	J		P
7440-47-3	Chromium	0.11	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	0.67	J		MS
7439-89-6	Iron	22.8	J		P
7439-92-1	Lead	0.25	J		MS
7439-95-4	Magnesium	597	J	E	P
7439-96-5	Manganese	7.0		E	MS
7439-97-6	Mercury	0.91			CV
7440-02-0	Nickel	0.19	J		MS
7440-09-7	Potassium	1730	J	E	P
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	517000		D	P
7440-28-0	Thallium	0.044	J		MS
7440-62-2	Vanadium	1.1	J		MS
7440-66-6	Zinc	1.8	J		MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF5WC5

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water Lab Sample ID: 1205175-02

% Solids: Date Received: 05/16/2012

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

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	7.8			MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	6.1	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	1990	J		P
7440-47-3	Chromium	0.24	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	0.63	J		MS
7439-89-6	Iron	23.6	J		P
7439-92-1	Lead	0.24	J		MS
7439-95-4	Magnesium	575	J	E	P
7439-96-5	Manganese	6.7		E	MS
7439-97-6	Mercury	0.74			CV
7440-02-0	Nickel	0.22	J		MS
7440-09-7	Potassium	1870	J	E	P
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	442000		D	P
7440-28-0	Thallium	0.12	J		MS
7440-62-2	Vanadium	0.85	J		MS
7440-66-6	Zinc	2.1			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF5WC6

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water Lab Sample ID: 1205175-03

% Solids: Date Received: 05/16/2012

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

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	9.8			MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	24.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	5220			P
7440-47-3	Chromium	0.13	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	1.1	J		MS
7439-89-6	Iron	290			P
7439-92-1	Lead	0.074	J		MS
7439-95-4	Magnesium	3500	J	E	P
7439-96-5	Manganese	18.6		E	MS
7439-97-6	Mercury	0.68			CV
7440-02-0	Nickel	0.14	J		MS
7440-09-7	Potassium	3050	J	E	P
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	810000		D	P
7440-28-0	Thallium	0.079	J		MS
7440-62-2	Vanadium	1.0	J		MS
7440-66-6	Zinc	8.7			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: ICV-1 (0307)

Continuing Calibration Verification Source: In-House, Lot: B2D0078

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2460	97	20000	19300	96	19500	98	P
Calcium	10026	10600	105	50000	52300	105	53400	107	P
Iron	5082.0	5480	108	20000	21200	106	21500	108	P
Magnesium	6074.0	5910	97	50000	50000	100	52600	105	P
Potassium	10021	9850	98	50000	48700	98	49300	99	P
Sodium	10097	9850	98	50000	49000	98	48900	98	P

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: ICV-1 (0307)

Continuing Calibration Verification Source: In-House, Lot: B2D0078

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				20000	19200	96			P
Calcium				50000	52200	104			P
Iron				20000	20900	104			P
Magnesium				50000	52400	105			P
Potassium				50000	48900	98			P
Sodium				50000	47500	95			P

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: ICV-1 (0307)

Continuing Calibration Verification Source: In-House, Lot: B2D0078

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Sodium	10097	10100	100	50000	50000	100	51200	102	P

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: ICV-1 (0307)

Continuing Calibration Verification Source: In-House, Lot: B2D0078

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Sodium				50000	50900	102			P

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: QATS, Lot: EPA (0307)

Continuing Calibration Verification Source: In-House, Lot: B2E0085

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Antimony	198.80	213	107	500.00	487	97	496	99	MS
Arsenic	199.80	203	102	500.00	495	99	526	105	MS
Barium	99.400	99.3	100	2500.0	2400	96	2460	99	MS
Beryllium	99.000	104	105	500.00	485	97	497	99	MS
Cadmium	99.200	100	101	500.00	494	99	494	99	MS
Chromium	98.000	101	103	500.00	503	101	536	107	MS
Cobalt	99.800	105	105	500.00	527	105	500	100	MS
Copper	98.400	104	106	500.00	484	97	496	99	MS
Lead	200.40	208	104	500.00	507	101	513	103	MS
Manganese	99.800	101	101	500.00	509	102	533	107	MS
Nickel	100.60	106	105	500.00	485	97	468	94	MS
Selenium	205.80	208	101	500.00	508	102	533	107	MS
Silver	100.20	106	105	65.000	63.7	98	64.2	99	MS
Thallium	205.60	211	103	500.00	513	103	519	104	MS
Vanadium	100.20	99.0	99	500.00	486	97	526	105	MS
Zinc	205.00	209	102	2500.0	2310	93	2330	93	MS

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: EPA (0508)

Continuing Calibration Verification Source: Inorganic Ventures, Lot: B0I0018

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	4.0000	4.0	100	2.0000	2.0	102	2.1	105	CV

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

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Initial Calibration Verification Source: USEPA, Lot: EPA (0508)

Continuing Calibration Verification Source: Inorganic Ventures, Lot: B0I0018

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				2.0000	1.9	96			CV

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

USEPA - CLP

3-IN
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

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

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

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	200	U	200	U	P
Calcium	5000	U	5000	U	5000	U	5000	U	5000	U	P
Iron	12.4	J	9.3	J	2.6	J	100	U	100	U	P
Magnesium	4.7	J	7.1	J	5000	U	5000	U	5000	U	P
Potassium	174	J	166	J	171	J	496	J	66.9	J	P
Sodium	26.9	J	27.7	J	12.3	J	320	J	5000	U	P

USEPA - CLP

3-IN
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

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

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Sodium	13.5	J	16.3	J	5000	U	24.6	J			P

USEPA - CLP

3-IN
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

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

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Antimony	0.35	J	0.48	J	0.84	J			0.70	J	MS
Arsenic	1.0	U	1.0	U	1.0	U			1.0	U	MS
Barium	10	U	10	U	10	U			10	U	MS
Beryllium	1.0	U	1.0	U	1.0	U			1.0	U	MS
Cadmium	1.0	U	1.0	U	1.0	U			1.0	U	MS
Chromium	2.0	U	2.0	U	2.0	U			2.0	U	MS
Cobalt	1.0	U	1.0	U	1.0	U			1.0	U	MS
Copper	2.0	U	2.0	U	2.0	U			2.0	U	MS
Lead	1.0	U	1.0	U	1.0	U			1.0	U	MS
Manganese	1.0	U	1.0	U	1.0	U			1.0	U	MS
Nickel	1.0	U	1.0	U	1.0	U			1.0	U	MS
Selenium	5.0	U	5.0	U	5.0	U			5.0	U	MS
Silver	0.017	J	1.0	U	0.013	J			1.0	U	MS
Thallium	0.057	J	0.64	J	0.66	J			0.035	J	MS
Vanadium	5.0	U	5.0	U	5.0	U			5.0	U	MS
Zinc	2.0	U	2.0	U	2.0	U			2.0	U	MS

USEPA - CLP

3-IN
BLANKS

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

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

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

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Mercury	0.020	J	0.13	J	0.042	J	0.040	J	0.13	J	CV

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICAPP02 ICSA Source: USEPA, Lot:Part A(1206)

ICSB Source: USEPA, Lot:Part B (0203)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	244100	241100	242000	99	240000	100
Calcium	234900	231100	260000	111	262000	113
Iron	95600	94800	102000	107	104000	110
Magnesium	247500	251100	256000	103	257000	102
Potassium	0	0	234		186	
Sodium	0	0	817		830	

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICAPP02 ICSA Source: USEPA, Lot:Part A(1206)

ICSB Source: USEPA, Lot:Part B (0203)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	244100	241100	255000	104	254000	105
Calcium	234900	231100	266000	113	266000	115
Iron	95600	94800	107000	112	107000	113
Magnesium	247500	251100	264000	107	262000	104
Sodium	0	0	850		843	

USEPA - CLP

4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICPMS01 ICSA Source: USEPA, Lot:Part A&B (803)

ICSB Source: USEPA, Lot:Part A&B (803)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Antimony	1.5	22	1.0	67	20.8	95
Arsenic	0.1	19	0.29	290	19.6	103
Barium	1.2	22	1.4	117	22.0	100
Beryllium	0	19	0.21		18.3	96
Cadmium	0.7	20	0.57	81	18.2	91
Chromium	21	40	21.4	102	43.3	108
Cobalt	1	20	1.2	120	20.7	104
Copper	8	25	8.1	101	26.0	104
Lead	4	25	4.4	110	25.6	102
Manganese	7	27	8.4	120	30.9	114
Nickel	6	24	5.6	93	23.6	98
Selenium	0.3	19	0.16	53	17.7	93
Silver	0	18	0.011		17.4	97
Thallium	0	21	0.061		20.1	96
Vanadium	0.5	19	-2.7	-540	19.0	100
Zinc	11	29	10.8	98	28.8	99

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF5WC4S

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

% Solids for Sample:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1980		200	U	2000	99		P
Iron	75-125	1130		22.8	J	1000	111		P

Comments:

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF5WC4S

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

% Solids for Sample:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	101		6.1		100	95		MS
Arsenic	75-125	40.0		1.0	U	40.0	100		MS
Barium	75-125	1950		6.1	J	2000	97		MS
Beryllium	75-125	43.1		1.0	U	50.0	86		MS
Cadmium	75-125	40.8		1.0	U	50.0	82		MS
Chromium	75-125	224		0.11	J	200	112		MS
Cobalt	75-125	464		1.0	U	500	93		MS
Copper	75-125	211		0.67	J	250	84		MS
Lead	75-125	21.6		0.25	J	20.0	107		MS
Manganese	75-125	548		7.0		500	108		MS
Nickel	75-125	409		0.19	J	500	82		MS
Selenium	75-125	89.9		5.0	U	100	90		MS
Silver	75-125	42.2		1.0	U	50.0	84		MS
Thallium	75-125	50.7		0.044	J	50.0	101		MS
Vanadium	75-125	594		1.1	J	500	119		MS
Zinc	75-125	391		1.8	J	500	78		MS

Comments:

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF5WC4S

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

% Solids for Sample:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	2.1		0.91		1.00	119		CV

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MF5WC4D

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: _____ SDG No.: MF5WC4

Matrix: Water

% Solids for Sample: _____

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		200	U	200	U			P
Calcium		2040	J	2030	J	0		P
Iron		22.8	J	23.6	J	3		P
Magnesium		597	J	597	J	0		P
Potassium		1730	J	2050	J	17		P

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MF5WC4D

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

% Solids for Sample:

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Sodium		517000		514000		1		P

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MF5WC4D

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

% Solids for Sample:

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony	2.0	6.1		7.8		24		MS
Arsenic		1.0	U	1.0	U			MS
Barium		6.1	J	6.2	J	2		MS
Beryllium		1.0	U	1.0	U			MS
Cadmium		1.0	U	1.0	U			MS
Chromium		0.11	J	0.16	J	37		MS
Cobalt		1.0	U	1.0	U			MS
Copper		0.67	J	0.73	J	9		MS
Lead		0.25	J	0.25	J	0		MS
Manganese		7.0		7.1		1		MS
Nickel		0.19	J	0.15	J	24		MS
Selenium		5.0	U	5.0	U			MS
Silver		1.0	U	1.0	U			MS
Thallium		0.044	J	0.67	J	175		MS
Vanadium		1.1	J	0.86	J	24		MS
Zinc	2.0	1.8	J	2.0		11		MS

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

MF5WC4D

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: _____ SDG No.: MF5WC4

Matrix: Water

% Solids for Sample: _____

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	0.20	0.91		0.89		2		CV

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug)		
	True	Found	%R
Aluminum	400.00	392	98
Calcium	10000	11100	111
Iron	200.00	210	105
Magnesium	10000	10900	109
Potassium	10000	9960	100
Sodium	10000	9870	99

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug)		
	True	Found	%R
Antimony	4.0000	4.3	108
Arsenic	2.0000	1.8	90
Barium	20.000	18.2	91
Beryllium	2.0000	2.0	100
Cadmium	2.0000	1.9	95
Chromium	4.0000	3.8	95
Cobalt	2.0000	1.9	95
Copper	4.0000	3.8	95
Lead	2.0000	1.8	90
Manganese	2.0000	1.8	90
Nickel	2.0000	1.9	95
Selenium	10.000	9.7	97
Silver	2.0000	1.9	95
Thallium	2.0000	1.9	95
Vanadium	10.000	9.4	94
Zinc	4.0000	3.7	93

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF5WC4L

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	200	U	1000	U			P
Calcium	2040	J	1960	J	4		P
Iron	22.8	J	500	U	100		P
Magnesium	597	J	525	J	12	E	P
Potassium	1730	J	4860	J	181	E	P

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF5WC4L

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Sodium	517000		481000		7		P

USEPA - CLP

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF5WC4L

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Matrix: Water

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	6.1		12.0		96		MS
Arsenic	1.0	U	5.0	U			MS
Barium	6.1	J	6.0	J	2		MS
Beryllium	1.0	U	5.0	U			MS
Cadmium	1.0	U	5.0	U			MS
Chromium	0.11	J	10.0	U	100		MS
Cobalt	1.0	U	5.0	U			MS
Copper	0.67	J	0.75	J	12		MS
Lead	0.25	J	0.066	J	72		MS
Manganese	7.0		6.0		14	E	MS
Nickel	0.19	J	0.083	J	58		MS
Selenium	5.0	U	0.68	J			MS
Silver	1.0	U	5.0	U			MS
Thallium	0.044	J	0.75	J	1775		MS
Vanadium	1.1	J	25.0	U	100		MS
Zinc	1.8	J	2.4	J	34		MS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument Type: P Instrument ID: ICAPP02 Date: 03/28/2012

Preparation Method: 200.7

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

Analyte	Wavelength/Mass	MDL
Aluminum	396.10 nm	5.07
Calcium	318.10 nm	33
Iron	238.20 nm	1.99
Magnesium	279.00 nm	4.3
Potassium	766.40 nm	17
Sodium	589.50 nm	12

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument Type: MS Instrument ID: ICPMS01 Date: 01/12/2012

Preparation Method: 200.8

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

Analyte	Wavelength/Mass		MDL
Antimony	121.00	amu	0.154
Arsenic	75.00	amu	0.096
Barium	137.00	amu	0.177
Beryllium	9.00	amu	0.075
Cadmium	111.00	amu	0.094
Chromium	52.00	amu	0.044
Cobalt	59.00	amu	0.011
Copper	65.00	amu	0.10
Lead	208.00	amu	0.015
Manganese	55.00	amu	0.067
Nickel	60.00	amu	0.054
Selenium	78.00	amu	0.27
Silver	107.00	amu	0.013
Thallium	205.00	amu	0.032
Vanadium	51.00	amu	0.14
Zinc	66.00	amu	0.55

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument Type: CV Instrument ID: LM01 Date: 01/04/2012

Preparation Method: 7470A

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

Analyte	Wavelength/Mass	MDL
Mercury	257.00 nm	0.019

Comments:

USEPA - CLP

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

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICAPP02 Date: 03/27/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Sb
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189	0.0000000	0.0000000	-0.000086	0.0000000	0.0000000
Barium	455.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.4	0.0000000	0.0000000	0.0000350	0.0000000	0.0000000
Calcium	318.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000220	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	-0.000099	0.0000000	0.0000000
Iron	238.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0001670	0.0000000	0.0000550	0.0000000	0.0000000
Magnesium	279	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196	0.0000000	0.0000000	-0.000171	0.0000000	0.0000000
Silver	328	0.0000000	0.0000000	-0.000032	0.0000000	0.0000000
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.000069	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

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

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICAPP02 Date: 03/27/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0053870	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	318.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002850
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	238.2	0.0000000	-0.010921	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0048860	0.0000000	0.0000000	0.0012180
Vanadium	292.4	-0.002127	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	-0.001296	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

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

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-AES Instrument ID: ICAPP02 Date: 03/27/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	V	Zn	
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	
Arsenic	189	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	455.4	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.1	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	214.4	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	318.1	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.7	0.0000000	0.0000000	0.0000000	0.0000000	
Iron	238.2	0.0000000	0.0000000	0.0000000	0.0000000	
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	279	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196	0.0000000	0.0000000	0.0000000	0.0000000	
Silver	328	0.0000000	0.0000000	-0.003597	0.0000000	
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.8	0.0000000	0.0000000	-0.019948	0.0000000	
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

USEPA - CLP

11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

ICP-MS Instrument ID: ICPMS01 Date: 05/23/2012

Analyte	Assoc. Internal Std 1	Assoc. Internal Std 2
Lead	Ho	Bi
Arsenic	Rh	
Barium	Sc	Tb
Beryllium	Li	Sc
Cadmium	Sc	Tb
Chromium	Rh	
Antimony	Sc	Tb
Copper	Sc	Tb
Zinc	Sc	Tb
Manganese	Rh	
Nickel	Sc	Tb
Selenium	Rh	
Silver	Sc	Tb
Thallium	Ho	Bi
Vanadium	Rh	
Cobalt	Sc	Tb

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: _____ SDG No.: MF5WC4

Preparation Method: 200.7

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
LCS01	05/22/2012	50.00	50.00
MF5WC4	05/22/2012	50.00	50.00
MF5WC4D	05/22/2012	50.00	50.00
MF5WC4S	05/22/2012	50.00	50.00
MF5WC5	05/22/2012	50.00	50.00
MF5WC6	05/22/2012	50.00	50.00
PBW01	05/22/2012	50.00	50.00

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Preparation Method: 200.8

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
LCS01	05/22/2012	50.00	50.00
MF5WC4	05/22/2012	50.00	50.00
MF5WC4D	05/22/2012	50.00	50.00
MF5WC4S	05/22/2012	50.00	50.00
MF5WC5	05/22/2012	50.00	50.00
MF5WC6	05/22/2012	50.00	50.00
PBW01	05/22/2012	50.00	50.00

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: _____ SDG No.: MF5WC4

Preparation Method: 7470A

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0	06/03/2012	50.00	50.00
S0.2	06/03/2012	50.00	50.00
S0.5	06/03/2012	50.00	50.00
S1	06/03/2012	50.00	50.00
S2	06/03/2012	50.00	50.00
S6	06/03/2012	50.00	50.00
ICV01	06/03/2012	50.00	50.00
ICB01	06/03/2012	50.00	50.00
CCV01	06/03/2012	50.00	50.00
CCB01	06/03/2012	50.00	50.00
CCV02	06/03/2012	50.00	50.00
CCB02	06/03/2012	50.00	50.00
PBW01	06/03/2012	50.00	50.00
MF5WC4	06/03/2012	50.00	50.00
MF5WC4D	06/03/2012	50.00	50.00
MF5WC4S	06/03/2012	50.00	50.00
MF5WC5	06/03/2012	50.00	50.00
MF5WC6	06/03/2012	50.00	50.00
CCV03	06/03/2012	50.00	50.00
CCB03	06/03/2012	50.00	50.00

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICAPP02 Analysis Method: P

Start Date: 05/23/2012 End Date: 05/23/2012

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	1431	X						X				X		X				X			X						
S	1.0	1436	X						X				X		X				X			X						
S	1.0	1440	X						X				X		X				X			X						
S	1.0	1444	X						X				X		X				X			X						
S	1.0	1448	X						X				X		X				X			X						
S	1.0	1452	X						X				X		X				X			X						
S	1.0	1457	X						X				X		X				X			X						
S	1.0	1501	X						X				X		X				X			X						
S	1.0	1506											X															
S	1.0	1510											X															
ICV01	1.0	1515	X						X				X		X				X			X						
ICB01	1.0	1519	X						X				X		X				X			X						
ICSA01	1.0	1523	X						X				X		X				X			X						
ICSAB01	1.0	1527	X						X				X		X				X			X						
CCV01	1.0	1531	X						X				X		X				X			X						
CCB01	1.0	1536	X						X				X		X				X			X						
CCV02	1.0	1631	X						X				X		X				X			X						
CCB02	1.0	1635	X						X				X		X				X			X						
PBW01	1.0	1639	X						X				X		X				X			X						
LCS01	1.0	1643	X						X				X		X				X			X						
MF5WC4	1.0	1648	X						X				X		X				X									
MF5WC4S	1.0	1652	X						X				X		X				X									
MF5WC4D	1.0	1656	X						X				X		X				X									
MF5WC4L	5.0	1701	X						X				X		X				X			X						
MF5WC5	1.0	1705	X						X				X		X				X									
MF5WC6	1.0	1710	X						X				X		X				X									
CCV03	1.0	1714	X						X				X		X				X			X						
CCB03	1.0	1718	X						X				X		X				X			X						

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICAPP02 Analysis Method: P

Start Date: 05/24/2012 End Date: 05/25/2012

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	2210																				X						
S	1.0	2214																				X						
S	1.0	2218																				X						
S	1.0	2222																				X						
S	1.0	2227																				X						
S	1.0	2231																				X						
S	1.0	2235																				X						
S	1.0	2240																				X						
S	1.0	2244																										
S	1.0	2249																										
ICV01	1.0	2253																				X						
ICB01	1.0	2257																				X						
ICSA01	1.0	2302	X						X				X		X							X						
ICSAB01	1.0	2306	X						X				X		X							X						
CCV01	1.0	2310																				X						
CCB01	1.0	2314																				X						
CCV02	1.0	2323																				X						
CCB02	1.0	2327																				X						
MF5WC4	5.0	2331																				X						
MF5WC4S	5.0	2336																				X						
MF5WC4D	5.0	2340																				X						
MF5WC4L	25.0	2345																				X						
MF5WC5	5.0	2349																				X						
MF5WC6	5.0	2353																				X						
CCV03	1.0	2358																				X						
CCB03	1.0	0002																				X						

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICPMS01 Analysis Method: MS

Start Date: 05/23/2012 End Date: 05/23/2012

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		
TUNE01	1.0	0847																										
S0	1.0	0900		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0904						X																				
S	1.0	0909		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0913		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0917		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0921		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0926		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S	1.0	0930				X																			X			
ICV01	1.0	0939		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICB01	1.0	0943		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA01	1.0	0948		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSAB01	1.0	0952		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCV01	1.0	0957		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB01	1.0	1001		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
PBW01	1.0	1020		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
LCS01	1.0	1024		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC4	1.0	1028		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC4S	1.0	1033		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC4D	1.0	1037		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC4L	5.0	1042		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC5	1.0	1046		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MF5WC6	1.0	1050		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ZZZZZZ	1.0	1055																										
ZZZZZZ	1.0	1059																										
ZZZZZZ	1.0	1105																										
ZZZZZZ	1.0	1109																										
ZZZZZZ	1.0	1113																										
CCV02	1.0	1118		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB02	1.0	1122		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: LM01 Analysis Method: CV

Start Date: 06/04/2012 End Date: 06/04/2012

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	1317															X											
S0.2	1.0	1321															X											
S0.5	1.0	1322															X											
S1	1.0	1325															X											
S2	1.0	1328															X											
S6	1.0	1331															X											
ICV01	1.0	1337															X											
ICB01	1.0	1339															X											
CCV01	1.0	1341															X											
CCB01	1.0	1344															X											
CCV02	1.0	1350															X											
CCB02	1.0	1353															X											
PBW01	1.0	1355															X											
MF5WC4	1.0	1357															X											
MF5WC4D	1.0	1400															X											
MF5WC4S	1.0	1402															X											
MF5WC5	1.0	1405															X											
MF5WC6	1.0	1408															X											
CCV03	1.0	1410															X											
CCB03	1.0	1413															X											

USEPA - CLP

14-IN
ICP-MS Tune

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref No.: SDG No.: MF5WC4

ICP-MS Instrument ID: ICPMS01 Date: 05/23/12

Element - Mass	Avg. Measured Mass (amu)	Average Peak Width (amu)	%Height	%RSD
Be - 9	9.01	0.770	5.0%	1.2155
Mg - 24	23.99	0.770	5.0%	0.7247
Mg - 25	24.99	0.770	5.0%	1.202
Mg - 26	25.98	0.770	5.0%	1.0251
Co - 59	58.93	0.770	5.0%	0.8227
In - 113	112.9	0.770	5.0%	0.6818
In - 115	114.9	0.770	5.0%	0.5895
Pb - 206	205.97	0.770	5.0%	0.7645
Pb - 207	206.98	0.770	5.0%	0.4289
Pb - 208	207.98	0.770	5.0%	0.4386

Comments:

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

ICP-MS Instrument ID: ICPMS01 Start D05/23/2012 End D05/23/2012

EPA Sample NO.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Rh-103	Q	Element Tb-159	Q
S0	9:00	100		100		100		100		100	
S	9:04	100		99		99		101		100	
S	9:09	99		98		98		99		100	
S	9:13	100		100		100		101		102	
S	9:17	99		98		99		100		101	
S	9:21	92		90		91		89		94	
S	9:26	89		88		87		86		93	
S	9:30	96		95		96		98		98	
ICV01	9:39	91		90		92		94		95	
ICB01	9:43	93		92		93		97		97	
ICSA01	9:48	81		82		80		79		84	
ICSAB01	9:52	81		83		81		79		84	
CCV01	9:57	85		88		90		91		95	
CCB01	10:01	92		94		96		99		100	
PBW01	10:20	99		103		104		108		106	
LCS01	10:24	101		104		105		108		106	
MF5WC4	10:28	96		101		95		89		95	
MF5WC4S	10:33	97		105		98		91		97	
MF5WC4D	10:37	101		109		101		94		98	
MF5WC4L	10:42	104		111		107		105		106	
MF5WC5	10:46	104		111		103		95		99	
MF5WC6	10:50	104		113		101		90		96	
ZZZZZZ	10:55										
ZZZZZZ	10:59										
ZZZZZZ	11:05										
ZZZZZZ	11:09										
ZZZZZZ	11:13										
CCV02	11:18	103		107		104		100		103	
CCB02	11:22	108		111		108		108		106	

USEPA - CLP

15-IN
ICP-MS Internal Standards Relative Intensity Summary

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

ICP-MS Instrument ID: ICPMS01 Start D05/23/2012 End D05/23/2012

EPA Sample NO.	Time	Internal Standards %RI For:									
		Element Ho-165	Q	Element Bi-209	Q	Element	Q	Element	Q	Element	Q
S0	9:00	100		100							
S	9:04	100		100							
S	9:09	101		100							
S	9:13	102		102							
S	9:17	101		101							
S	9:21	95		91							
S	9:26	91		86							
S	9:30	98		99							
ICV01	9:39	96		97							
ICB01	9:43	97		98							
ICSA01	9:48	84		76							
ICSAB01	9:52	85		76							
CCV01	9:57	95		92							
CCB01	10:01	99		100							
PBW01	10:20	105		104							
LCS01	10:24	106		105							
MF5WC4	10:28	96		77							
MF5WC4S	10:33	97		78							
MF5WC4D	10:37	98		79							
MF5WC4L	10:42	106		96							
MF5WC5	10:46	99		79							
MF5WC6	10:50	95		73							
ZZZZZZ	10:55										
ZZZZZZ	10:59										
ZZZZZZ	11:05										
ZZZZZZ	11:09										
ZZZZZZ	11:13										
CCV02	11:18	102		97							
CCB02	11:22	106		104							

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.0	30.8989000		100	109.872	-10	2000	1929.57	4
Calcium	0.0	10.1932000		250	237.109	5	5000	5022.14	0
Iron	0.0	-6.2097700		100	81.286	19	2000	2070.05	-4
Magnesium	0.0	47.4116000		250	264.718	-6	5000	4849.15	3
Potassium	0.0	-11.9889000		250	282.17	-13	5000	4741.56	5
Sodium	0.0	65.4288000		250	283.163	-13	5000	4757.16	5

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	4000	3877.09	3	20000	19681.5	2	40000	39011.3	2
Calcium	10000	10234.8	-2	50000	51132	-2	100000	100026	0
Iron	4000	4184.21	-5	20000	21135	-6	40000	40971.2	-2
Magnesium	10000	9881.75	1	50000	49474.5	1	100000	98438	2
Potassium	10000	9533.88	5	50000	49039.6	2	100000	97063.7	3
Sodium	10000	9604.88	4	50000	49012.3	2	100000	95989.7	4

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICAPP02 Start Date: 05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	200000	201654	-1	400000	399837	0			
Calcium	250000	251778	-1	500000	496820	1			
Iron	175000	176171	-1	350000	334190	5	200000	213109	-7
Magnesium	250000	252283	-1	500000	500058	0			
Potassium	150000	150868	-1	300000	303721	-1			
Sodium	125000	123219	1	250000	257384	-3			

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Calcium									
Iron	400000	399189	0						
Magnesium									
Potassium									
Sodium									

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sodium	0.0	24.7468000		250	260.287	-4	5000	4907.24	2

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sodium	10000	9871.85	1	50000	50622.7	-1	100000	95583.2	4

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICAPP02 Start Date: 05/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sodium	125000	126479	-1	250000	252526	-1			

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICAPP02 Start Date:05/24/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sodium									

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICPMS01 Start Date: 05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Antimony	0.0	-0.0006586					2.0	1.93354	3
Arsenic	0.0	0.0029234					1.0	0.88144	12
Barium	0.0	0.0002286					10.0	9.34889	7
Beryllium	0.0	0.0000930					1.0	0.996877	0
Cadmium	0.0	0.0134108		0.20	0.16514	17	1.0	0.920987	8
Chromium	0.0	0.0004050					2.0	1.80438	10
Cobalt	0.0	0.0001503					1.0	0.947014	5
Copper	0.0	0.0007439					2.0	2.09133	-5
Lead	0.0	0.0001484					1.0	0.849234	15
Manganese	0.0	0.0029360					1.0	0.898458	10
Nickel	0.0	0.0000964					1.0	1.00063	0
Selenium	0.0	0.0110047					5.0	4.54322	9
Silver	0.0	-0.0000127					1.0	0.980481	2
Thallium	0.0	0.0033549					1.0	0.832981	17
Vanadium	0.0	-0.0034183					5.0	4.95291	1
Zinc	0.0	0.0017366					2.0	2.03675	-2

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: ICPMS01 Start Date:05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Antimony	10.0	10.4742	-5	50.0	51.5164	-3	500	512.652	-3
Arsenic	10.0	9.89489	1	50.0	48.4232	3	500	497.327	1
Barium	10.0	9.81974	2	50.0	48.0543	4	500	499.281	0
Beryllium	10.0	10.2232	-2	50.0	51.3914	-3	500	504.999	-1
Cadmium	10.0	9.82474	2	50.0	48.2739	3	500	498.636	0
Chromium	10.0	9.47711	5	50.0	46.9826	6	500	490.262	2
Cobalt	10.0	10.2584	-3	50.0	50.522	-1	500	500.462	0
Copper	10.0	10.5268	-5	50.0	51.1554	-2	500	503.249	-1
Lead	10.0	9.37004	6	50.0	47.3718	5	500	494.461	1
Manganese	10.0	9.53815	5	50.0	46.3779	7	500	491.71	2
Nickel	10.0	10.4376	-4	50.0	50.9368	-2	500	502.539	-1
Selenium	10.0	10.1081	-1	50.0	50.009	0	500	499.601	0
Silver	1.3	1.34479	-3	6.5	6.60324	-2	65.0	65.5041	-1
Thallium	10.0	9.06234	9	50.0	46.7099	7	500	491.862	2
Vanadium	10.0	9.57803	4	50.0	46.9813	6	500	489.197	2
Zinc	10.0	10.592	-6	50.0	51.2101	-2	500	512.305	-2

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: ICPMS01 Start Date: 05/23/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Antimony	1000	985.424	1						
Arsenic	1000	1004.47	0						
Barium	1000	976.872	2	5000	5026.62	-1			
Beryllium	1000	993.389	1						
Cadmium	1000	1003.37	0						
Chromium	1000	1013.47	-1						
Cobalt	1000	998.811	0						
Copper	1000	994.977	1						
Lead	1000	1008.95	-1						
Manganese	1000	1012.47	-1						
Nickel	1000	996.085	0						
Selenium	1000	1000.73	0						
Silver	130	129.367	0						
Thallium	1000	1012.53	-1						
Vanadium	1000	1014.29	-1						
Zinc	1000	1006.03	-1	5000	4979.82	0			

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.: MF5WC4

Instrument ID: LM01 Start Date: 06/04/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.0	0.0156392		0.20	0.226814	-13	0.50	0.443463	11

Control Limits +/- 30%

USEPA - CLP

16-IN
INITIAL CALIBRATION

Lab Name: Bonner Analytical Testing Contract: EPW09037

Lab Code: BONNER Case No.: 42562 Mod. Ref. No.: SDG No.:MF5WC4

Instrument ID: LM01 Start Date:06/04/2012

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.0	1	0	2.0	2.0165	-1	6.0	5.99758	0

Control Limits +/- 30%

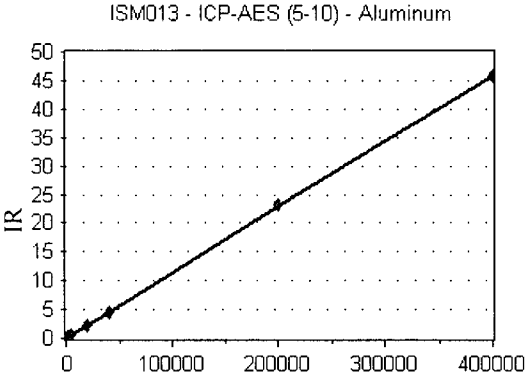
Bonner Analytical Testing

Instrument: ICAPP02
Calibration ID: B223005

Calibration Date: 05/23/2012 10:00 By MSB2
Last Edit Date: 06/04/2012 10:00 By MSB2

ISM013 - ICP-AES (5-10)

Aluminum



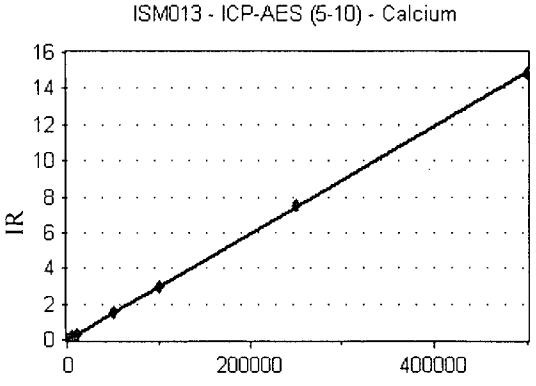
Linear Regression Weighted 1/X
r2: 0.9999737

[Y] = 1.148486E-04 * [X] + 3.113039E-04

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	30.90	0.00386	0.00
BF20402-CAL2	100	109.87	0.01293	-9.87
BF20402-CAL3	2000	1,929.57	0.22192	3.52
BF20402-CAL4	4000	3,877.09	0.44559	3.07
BF20402-CAL5	20000	19,681.46	2.2607	1.59
BF20402-CAL6	40000	39,011.26	4.4807	2.47
BF20402-CAL7	200000	201,654.08	23.16	-0.83
BF20402-CAL8	400000	399,836.73	45.921	0.04

ISM013 - ICP-AES (5-10)

Calcium

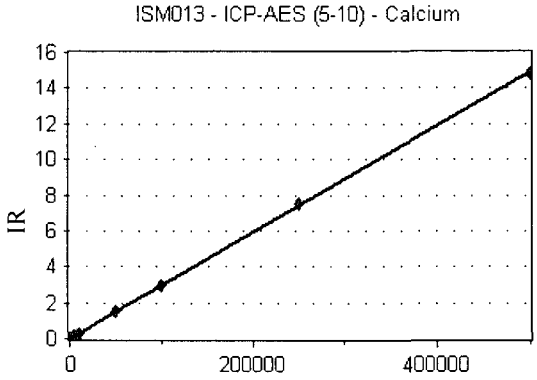


Linear Regression Weighted 1/X
r2: 0.9999331

[Y] = 2.979081E-05 * [X] + 3.363369E-04

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	10.19	0.00064	0.00
BF20402-CAL2	250	237.11	0.0074	5.16
BF20402-CAL3	5000	5,022.14	0.14995	-0.44
BF20402-CAL4	10000	10,234.82	0.30524	-2.35
BF20402-CAL5	50000	51,132.00	1.5236	-2.26
BF20402-CAL6	100000	100,026.27	2.9802	-0.03

Calcium



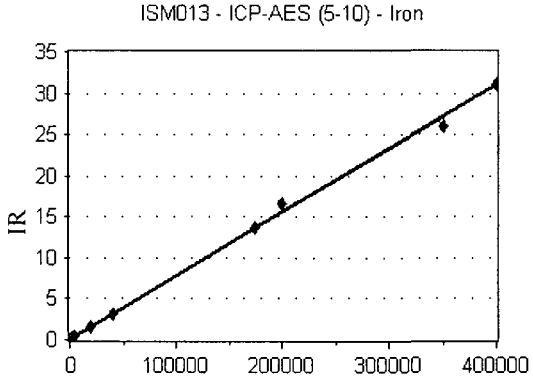
Linear Regression Weighted 1/X
r2: 0.9999331

[Y] = 2.979081E-05 * [X] + 3.363369E-04

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL7	250000	251,777.77	7.501	-0.71
BF20402-CAL8	500000	496,819.78	14.801	0.64

ISM013 - ICP-AES (5-10)

Iron



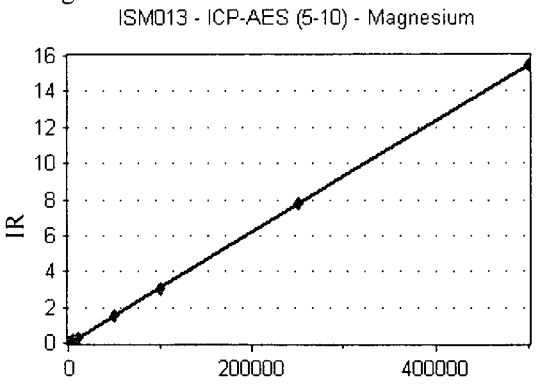
Linear Regression Weighted 1/X
r2: 0.9979491

[Y] = 7.783237E-05 * [X] + 2.213321E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	-6.21	0.00173	0.00
BF20402-CAL2	100	81.29	0.00854	18.71
BF20402-CAL3	2000	2,070.05	0.16333	-3.50
BF20402-CAL4	4000	4,184.21	0.32788	-4.61
BF20402-CAL5	20000	21,134.99	1.6472	-5.67
BF20402-CAL6	40000	40,971.21	3.1911	-2.43
BF20402-CAL7	175000	176,170.75	13.714	-0.67
BF20402-CAL8	350000	334,189.83	26.013	4.52
BF20402-CAL9	200000	213,109.10	16.589	-6.55
BF20402-CALA	400000	399,188.50	31.072	0.20

ISM013 - ICP-AES (5-10)

Magnesium



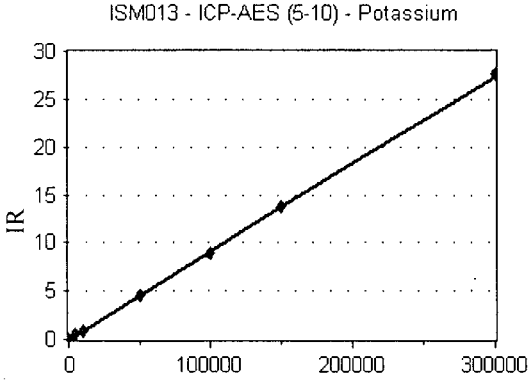
Linear Regression Weighted 1/X
r2: 0.999964

[Y] = 3.097004E-05 * [X] + -8.283384E-04

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	47.41	0.00064	0.00
BF20402-CAL2	250	264.72	0.00737	-5.89
BF20402-CAL3	5000	4,849.15	0.14935	3.02
BF20402-CAL4	10000	9,881.75	0.30521	1.18
BF20402-CAL5	50000	49,474.54	1.5314	1.05
BF20402-CAL6	100000	98,437.99	3.0478	1.56
BF20402-CAL7	250000	252,283.44	7.8124	-0.91
BF20402-CAL8	500000	500,058.39	15.486	-0.01

ISM013 - ICP-AES (5-10)

Potassium



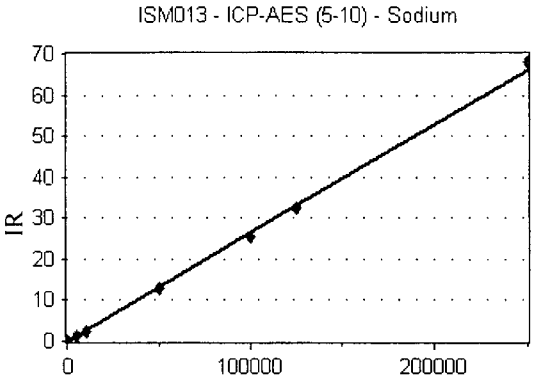
Linear Regression Weighted 1/X
r2: 0.9996932

[Y] = 9.127714E-05 * [X] + 4.20431E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	-11.99	0.00311	0.00
BF20402-CAL2	250	282.17	0.02996	-12.87
BF20402-CAL3	5000	4,741.56	0.437	5.17
BF20402-CAL4	10000	9,533.88	0.87443	4.66
BF20402-CAL5	50000	49,039.61	4.4804	1.92
BF20402-CAL6	100000	97,063.69	8.8639	2.94
BF20402-CAL7	150000	150,867.96	13.775	-0.58
BF20402-CAL8	300000	303,721.13	27.727	-1.24

ISM013 - ICP-AES (5-10)

Sodium



Linear Regression Weighted 1/X
r2: 0.9986769

[Y] = 2.646808E-04 * [X] + -8.627758E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20402-CAL1	0	65.43	0.00869	0.00
BF20402-CAL2	250	283.16	0.06632	-13.27
BF20402-CAL3	5000	4,757.16	1.2505	4.86
BF20402-CAL4	10000	9,604.88	2.5336	3.95
BF20402-CAL5	50000	49,012.35	12.964	1.98
BF20402-CAL6	100000	95,989.69	25.398	4.01
BF20402-CAL7	125000	123,218.71	32.605	1.43
BF20402-CAL8	250000	257,384.09	68.116	-2.95

Sample Name: SEQ-CAL1@S0 Acquired: 5/23/2012 14:31:46 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00015**	**.00386**	**-.00028**	**.0075**	**.04048**	**.00019**	**.00064**
#1	.00014	.00480	-.00024	.0076	.04241	.00017	.00058
#2	.00017	.00397	-.00064	.0068	.04044	.00023	.00050
#3	.00013	.00279	.00003	.0080	.03860	.00016	.00085

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00339**	**.00313**	**.00002**	**.00360**	**.00173**	**.00311**	**.0105**
#1	.00370	.00303	.00010	.00354	.00231	.00314	.0115
#2	.00369	.00323	-.00004	.00368	.00152	.00336	.0085
#3	.00280	.00312	.00001	.00358	.00136	.00281	.0115

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00064**	**.00074**	**.0012**	**.00869**	**-.00043**	**.00568**	**.00079**
#1	.00067	.00084	.0014	.00956	-.00032	.00538	.00092
#2	.00062	.00065	.0009	.00790	-.00100	.00540	.00087
#3	.00062	.00071	.0014	.00862	.00003	.00627	.00057

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00112**	**.0008**	**.00030**	**.00009**	**.01220**
#1	.00140	.0005	.00035	.00025	.01247
#2	.00099	.0009	.00026	-.00004	.01174
#3	.00098	.0010	.00028	.00007	.01240

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5051.8**	**1316.0**	**1918.6**	**26263.**	**10014.**
#1	5065.2	1319.7	1922.6	26243.	9993.9
#2	5048.7	1316.4	1918.4	26330.	10094.
#3	5041.6	1311.7	1914.9	26216.	9953.4

Sample Name: SEQ-CAL2@S Acquired: 5/23/2012 14:36:02 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00043**	**.01293**	**.00331**	**.0172**	**.65790**	**.00494**	**.00740**	**.05550**
#1	.00045	.01301	.00345	.0165	.64944	.00486	.00782	.05560
#2	.00036	.01323	.00341	.0175	.66182	.00505	.00709	.05556
#3	.00049	.01254	.00307	.0175	.66244	.00490	.00730	.05533

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03065**	**.00070**	**.01968**	**.00854**	**.02996**	**.0177**	**.00737**	**.00709**
#1	.03058	.00074	.01966	.00911	.02967	.0182	.00741	.00731
#2	.03069	.00067	.01984	.00834	.03041	.0183	.00741	.00699
#3	.03068	.00069	.01953	.00817	.02980	.0167	.00729	.00698

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0145**	**.06632**	**.03461**	**.01360**	**.00922**	**.00640**	**.0111**	**.00410**
#1	.0145	.06544	.03457	.01363	.00935	.00647	.0110	.00400
#2	.0143	.06656	.03370	.01386	.00907	.00650	.0112	.00413
#3	.0147	.06696	.03555	.01331	.00926	.00624	.0111	.00416

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.00158**	**.17509**
#1	.00157	.17454
#2	.00161	.17407
#3	.00157	.17666

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5040.3**	**1322.6**	**1923.7**	**26804.**	**10267.**
#1	5042.6	1325.9	1923.7	26891.	10310.
#2	5033.4	1327.9	1927.1	26789.	10242.
#3	5044.9	1314.1	1920.2	26733.	10248.

Sample Name: SEQ-CAL3@S Acquired: 5/23/2012 14:40:18 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00757**	**.22192**	**.07498**	**.2292**	**13.401**	**.10556**	**.14995**	**1.0930**
#1	.00745	.21955	.07550	.2269	13.252	.10471	.14756	1.0937
#2	.00759	.22311	.07471	.2274	13.468	.10588	.15094	1.0907
#3	.00767	.22311	.07472	.2332	13.483	.10608	.15134	1.0946

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.57192**	**.01530**	**.36347**	**.16333**	**.43700**	**.2033**	**.14935**	**.14327**
#1	.57282	.01517	.36305	.16126	.43277	.2015	.14697	.14213
#2	.57034	.01530	.36488	.16495	.43945	.2052	.15062	.14355
#3	.57260	.01544	.36249	.16378	.43879	.2033	.15044	.14414

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2848**	**1.2505**	**.72552**	**.21322**	**.17770**	**.10870**	**.2097**	**.07713**
#1	.2838	1.2364	.72547	.21337	.17812	.10852	.2104	.07707
#2	.2855	1.2601	.72421	.21419	.17725	.10893	.2090	.07703
#3	.2851	1.2549	.72687	.21209	.17774	.10863	.2098	.07729

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.03221**	**3.4638**
#1	.03196	3.4633
#2	.03252	3.4588
#3	.03215	3.4694

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4914.4**	**1301.8**	**1905.7**	**25621.**	**9993.1**
#1	4919.0	1302.7	1906.7	25638.	10049.
#2	4909.8	1300.3	1904.0	25561.	9930.9
#3	4914.6	1302.4	1906.4	25663.	9999.6

Sample Name: SEQ-CAL4@S Acquired: 5/23/2012 14:44:23 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01519**	**.44559**	**.15407**	**.4660**	**26.831**	**.21653**	**.30524**	**2.2197**
#1	.01529	.44085	.15397	.4669	26.561	.21674	.30194	2.2241
#2	.01527	.44716	.15348	.4644	26.574	.21700	.30539	2.2168
#3	.01500	.44877	.15478	.4667	27.359	.21585	.30839	2.2183

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1564**	**.03149**	**.74290**	**.32788**	**.87443**	**.3997**	**.30521**	**.29303**
#1	1.1606	.03139	.74451	.32508	.86869	.3961	.30065	.29333
#2	1.1522	.03147	.74287	.32764	.87389	.4002	.30562	.29355
#3	1.1564	.03160	.74131	.33093	.88071	.4027	.30935	.29220

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.5843**	**2.5336**	**1.4783**	**.42963**	**.36027**	**.21880**	**.4244**	**.15792**
#1	.5858	2.5158	1.4811	.43328	.36060	.21947	.4245	.15825
#2	.5832	2.5338	1.4766	.42851	.35948	.21804	.4235	.15785
#3	.5839	2.5512	1.4772	.42711	.36075	.21887	.4253	.15765

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.06562**	**7.0452**
#1	.06551	7.0642
#2	.06581	7.0352
#3	.06555	7.0361

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4892.5**	**1306.8**	**1922.3**	**25970.**	**10193.**
#1	4898.1	1306.9	1922.6	25881.	10269.
#2	4889.9	1306.4	1923.8	26018.	10213.
#3	4889.6	1306.9	1920.3	26011.	10095.

Sample Name: SEQ-CAL5@S Acquired: 5/23/2012 14:48:34 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07688**	**2.2607**	**.77879**	**2.340**	**133.02**	**1.0948**	**1.5236**	**10.676**
#1	.07680	2.2450	.77878	2.315	130.05	1.0905	1.5070	10.662
#2	.07689	2.2764	.77755	2.345	136.04	1.0961	1.5346	10.649
#3	.07695	2.2607	.78004	2.359	132.97	1.0978	1.5292	10.716

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.5426**	**.15890**	**3.8132**	**1.6472**	**4.4804**	**2.006**	**1.5314**	**1.4752**
#1	5.5371	.15810	3.8206	1.6372	4.4730	1.997	1.5084	1.4647
#2	5.5173	.15939	3.8048	1.6543	4.4981	2.017	1.5496	1.4795
#3	5.5734	.15921	3.8142	1.6501	4.4702	2.003	1.5361	1.4816

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.877**	**12.964**	**7.1849**	**2.0741**	**1.7503**	**1.0367**	**2.033**	**.76909**
#1	2.872	12.942	7.1609	2.0676	1.7468	1.0346	2.029	.76833
#2	2.865	12.997	7.1757	2.0721	1.7427	1.0331	2.026	.76899
#3	2.894	12.952	7.2181	2.0827	1.7614	1.0426	2.043	.76993

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.33520**	**34.110**
#1	.33443	33.976
#2	.33475	34.100
#3	.33641	34.255

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4544.7**	**1250.0**	**1876.9**	**25245.**	**9999.0**
#1	4559.0	1254.4	1880.6	25142.	10019.
#2	4547.3	1251.3	1883.9	25320.	9954.4
#3	4527.9	1244.1	1866.2	25272.	10024.

Sample Name: SEQ-CAL6@S Acquired: 5/23/2012 14:52:45 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13452**	**4.4807**	**1.5438**	**4.664**	**261.56**	**2.1617**	**2.9802**	**20.364**
#1	.13625	4.4503	1.5514	4.593	257.98	2.1760	2.9559	20.294
#2	.13542	4.4978	1.5365	4.699	261.53	2.1758	2.9872	20.315
#3	.13188	4.4940	1.5434	4.701	265.17	2.1332	2.9974	20.482

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.613**	**.31377**	**7.5413**	**3.1911**	**8.8639**	**4.000**	**3.0478**	**2.9405**
#1	10.559	.31454	7.6709	3.1681	8.8450	3.975	3.0198	2.9516
#2	10.598	.31624	7.5348	3.1988	8.8783	4.020	3.0522	2.9617
#3	10.681	.31054	7.4183	3.2064	8.8683	4.007	3.0713	2.9083

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.579**	**25.398**	**13.689**	**3.9360**	**3.4553**	**1.9801**	**3.939**	**1.4652**
#1	5.559	25.385	13.726	3.9461	3.4489	1.9764	3.928	1.4549
#2	5.564	25.232	13.641	3.9224	3.4451	1.9718	3.926	1.4658
#3	5.613	25.575	13.699	3.9393	3.4718	1.9921	3.964	1.4750

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.66307**	**63.918**
#1	.66722	64.067
#2	.66677	63.661
#3	.65524	64.027

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4303.3**	**1209.2**	**1818.9**	**24430.**	**9784.2**
#1	4328.1	1206.9	1825.7	24030.	9762.7
#2	4302.6	1212.3	1820.7	24467.	9822.5
#3	4279.2	1208.4	1810.4	24793.	9767.3

Sample Name: SEQ-CAL7@S Acquired: 5/23/2012 14:57:01 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Al3961	Ca3181	Fe2382	K_7664	Mg2790	Na5895	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**23.160**	**7.5010**	**13.714**	**13.775**	**7.8124**	**32.605**	**13.922**
#1	22.692	7.3784	13.453	13.621	7.6891	31.059	13.957
#2	23.411	7.5558	13.832	13.866	7.8808	33.393	13.856
#3	23.377	7.5688	13.855	13.838	7.8674	33.364	13.954

Int. Std.	Sc2273	Y_3710
Units	Cts/S	Cts/S
Avg	**1033.8**	**9552.6**
#1	1033.0	9596.2
#2	1038.3	9522.3
#3	1030.1	9539.5

Sample Name: SEQ-CAL8@S Acquired: 5/23/2012 15:01:25 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Al3961	Ca3181	Fe2382	K_7664	Mg2790	Na5895	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**45.921**	**14.801**	**26.013**	**27.727**	**15.486**	**68.116**	**27.180**
#1	44.501	14.754	25.964	27.669	15.450	68.370	27.439
#2	46.808	14.855	25.752	27.767	15.532	68.629	27.568
#3	46.452	14.793	26.323	27.744	15.475	67.350	26.534

Int. Std.	Sc2273	Y_3710
Units	Cts/S	Cts/S
Avg	**956.42**	**9229.0**
#1	947.63	9255.7
#2	944.92	9191.5
#3	976.70	9239.9

Sample Name: SEQ-CAL9@S Acquired: 5/23/2012 15:06:06 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Cr2677	Cu3247	Fe2382	Mn2576	Pb2203	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.99591**	**15.129**	**16.589**	**6.1478**	**5.3825**	**53.792**
#1	.98370	15.121	16.339	6.0821	5.3788	53.685
#2	1.0039	15.141	16.695	6.1981	5.3714	53.719
#3	1.0002	15.124	16.732	6.1632	5.3972	53.971

Int. Std.	Sc2273	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**1260.2**	**25693.**	**10004.**
#1	1261.7	25698.	10035.
#2	1261.4	25686.	10029.
#3	1257.6	25696.	9947.9

Sample Name: SEQ-CALA@S Acquired: 5/23/2012 15:10:29 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	As1890	Cr2677	Cu3247	Fe2382	Mn2576	Pb2203	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.1625**	**2.0259**	**30.642**	**31.072**	**12.160**	**10.979**	**105.66**
#1	3.1824	2.0113	30.474	30.944	12.025	11.042	106.05
#2	3.1455	2.0360	30.744	31.164	12.221	10.918	105.27
#3	3.1595	2.0304	30.707	31.107	12.234	10.978	105.68

Int. Std.	Sc2273	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**1208.2**	**25277.**	**10003.**
#1	1204.7	25240.	10005.
#2	1212.5	25216.	10027.
#3	1207.3	25374.	9977.6

Sample Name: SEQ-ICV@ICV01 Acquired: 5/23/2012 15:15:06 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**530.68**	**2456.2**	**967.84**	**.0549**	**521.62**	**487.85**	**10556.**	**530.75**
Stddev	3.84	16.7	.94	.7981	5.74	4.97	146.	.42
%RSD	.72349	.67931	.09664	1454.	1.1002	1.0186	1.3872	.07976
#1	528.31	2437.6	966.76	-.3185	515.19	482.71	10389.	530.68
#2	528.63	2461.4	968.30	.9713	523.46	488.23	10616.	530.36
#3	535.11	2469.7	968.46	-.4881	526.22	492.62	10662.	531.20

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**538.91**	**496.27**	**490.72**	**5483.2**	**9853.6**	**-.5613**	**5909.0**	**504.92**
Stddev	.77	3.95	2.47	51.4	66.7	.1849	77.0	3.84
%RSD	.14299	.79523	.50392	.93682	.67653	32.94	1.3039	.76053
#1	538.06	492.01	493.05	5432.4	9777.8	-.6323	5820.6	500.87
#2	539.56	496.99	488.13	5482.2	9903.0	-.7001	5944.8	505.36
#3	539.11	499.80	490.98	5535.1	9880.1	-.3514	5961.6	508.52

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4043**	**9846.1**	**523.03**	**977.56**	**1000.2**	**1055.0**	**F -.3692**	**1112.7**
Stddev	.0663	88.5	1.12	2.15	1.9	2.7	.1980	.4
%RSD	16.40	.89878	.21387	.22002	.19297	.25764	53.63	.03187
#1	-.3875	9744.0	522.55	977.48	998.41	1052.0	-.2088	1112.3
#2	-.3480	9893.9	524.31	979.74	999.94	1055.7	-.5905	1113.0
#3	-.4773	9900.4	522.23	975.44	1002.2	1057.3	-.3082	1112.8

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**497.51**	**1036.6**
Stddev	1.73	1.2
%RSD	.34723	.11914
#1	497.13	1036.9
#2	496.00	1037.6
#3	499.39	1035.2

Sample Name: SEQ-ICV@ICV01 Acquired: 5/23/2012 15:15:06 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4971.5**	**1352.8**	**1970.6**	**26518.**	**10223.**
Stddev	5.9	2.8	2.1	90.	10.
%RSD	.11797	.20594	.10613	.34028	.09706
#1	4966.4	1354.9	1972.5	26428.	10221.
#2	4977.9	1349.7	1971.0	26608.	10214.
#3	4970.3	1353.9	1968.4	26519.	10234.

Sample Name: SEQ-ICB@ICB01 Acquired: 5/23/2012 15:19:08 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.54570**	**-2.1806**	**.18834**	**-.9334**	**.00756**	**.04887**	**-7.7112**	**.04077**
Stddev	.88021	5.9767	.94171	.8623	.27684	.03118	3.9864	.05459
%RSD	161.30	274.08	500.01	92.39	3664.3	63.814	51.696	133.89
#1	.69333	4.6361	1.2148	.0196	.32063	.01923	-12.104	.08657
#2	-.39899	-4.6566	-.01424	-1.660	-.20490	.08140	-4.3242	.05537
#3	1.3428	-6.5214	-.63560	-1.160	-.09307	.04598	-6.7052	-.01963

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.20356**	**.67748**	**.67840**	**12.356**	**174.29**	**.0495**	**4.6774**	**.68402**
Stddev	.11321	.58690	.17632	3.599	13.90	.1814	4.3313	.12430
%RSD	55.616	86.630	25.991	29.131	7.9759	366.4	92.601	18.172
#1	.31334	.00101	.61285	16.068	190.00	.0514	9.6423	.54687
#2	.08720	1.0510	.87811	12.118	163.58	.2300	2.7171	.78925
#3	.21014	.98040	.54425	8.8809	169.28	-.1328	1.6728	.71593

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0607**	**26.916**	**.20990**	**-1.9465**	**.16445**	**1.4232**	**.0686**	**.99779**
Stddev	.1074	6.700	.21532	.2727	.90256	.1633	.1368	.60500
%RSD	177.0	24.892	102.58	14.010	548.83	11.477	199.3	60.634
#1	-.1846	34.005	.03533	-1.8758	1.0819	1.4719	-.0889	.51081
#2	-.0028	20.688	.14387	-1.7161	.13387	1.2410	.1565	1.6751
#3	.0054	26.055	.45051	-2.2476	-.72243	1.5567	.1384	.80751

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.23191**	**.08878**
Stddev	.43575	.02004
%RSD	187.90	22.568
#1	-.05142	.08058
#2	.73367	.07414
#3	.01348	.11161

Sample Name: SEQ-ICB@ICB01 Acquired: 5/23/2012 15:19:08 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5102.4**	**1390.4**	**1977.2**	**26601.**	**10192.**
Stddev	13.2	3.7	3.8	120.	14.
%RSD	.25964	.26780	.19121	.45043	.14147
#1	5104.2	1389.0	1978.6	26720.	10178.
#2	5114.6	1394.7	1980.0	26601.	10206.
#3	5088.3	1387.6	1972.9	26481.	10191.

Sample Name: SEQ-IFA@ICSA01 Acquired: 5/23/2012 15:23:23 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.29158**	**242130.**	**.11575**	**16.70**	**-.77982**	**.61261**	**259920.**
Stddev	1.4776	5554.	1.9396	.83	.07595	.00212	2058.
%RSD	506.77	2.2937	1675.7	4.972	9.7388	.34683	.79163
#1	1.2055	236710.	-1.5979	17.60	-.69279	.61430	257590.
#2	-1.7490	247800.	2.2214	16.54	-.83266	.61332	260690.
#3	-.33120	241890.	-.27629	15.96	-.81401	.61023	261490.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.7833**	**4.3699**	**41.382**	**20.113**	**102360.**	**234.27**	**1.883**
Stddev	.0590	.0951	.729	.327	665.	16.84	.364
%RSD	3.3088	2.1752	1.7613	1.6250	.64957	7.1904	19.35
#1	-1.7364	4.4234	40.612	19.837	101600.	222.06	1.749
#2	-1.7640	4.4262	41.473	20.474	102830.	227.27	1.605
#3	-1.8495	4.2602	42.061	20.027	102640.	253.49	2.295

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**256080.**	**24.008**	**.0335**	**816.68**	**20.126**	**9.0755**	**4.9926**
Stddev	2250.	.118	.1123	9.62	.375	1.0120	1.1475
%RSD	.87850	.48955	335.4	1.1783	1.8647	11.151	22.983
#1	253560.	23.876	.1463	813.86	19.716	9.7591	3.9861
#2	256790.	24.046	.0325	827.40	20.453	7.9129	4.7496
#3	257890.	24.102	-.0784	808.78	20.207	9.5546	6.2421

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**3.0195**	**.5625**	**1.7673**	**-.44435**	**32.392**
Stddev	1.0764	.3571	.9524	.84935	.185
%RSD	35.648	63.48	53.892	191.15	.57266
#1	4.2199	.2005	.82551	.36282	32.178
#2	2.6986	.9145	2.7300	-1.3304	32.506
#3	2.1401	.5726	1.7464	-.36549	32.491

Sample Name: SEQ-IFA@ICSA01 Acquired: 5/23/2012 15:23:23 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4073.9**	**1106.4**	**1790.9**	**23748.**	**9821.1**
Stddev	2.2	1.3	1.9	63.	26.4
%RSD	.05473	.11778	.10520	.26545	.26913
#1	4071.3	1105.4	1792.0	23810.	9791.0
#2	4075.3	1105.9	1788.8	23750.	9840.5
#3	4075.0	1107.9	1792.0	23684.	9831.8

Sample Name: SEQ-IFB@ICSAB01 Acquired: 5/23/2012 15:27:45 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**230.43**	**240010.**	**106.25**	**13.52**	**524.86**	**526.49**	**261840.**
Stddev	2.41	13239.	1.15	.40	1.28	3.82	951.
%RSD	1.0466	5.5159	1.0866	2.929	.24430	.72621	.36330
#1	228.87	225030.	104.93	13.97	523.38	522.33	260900.
#2	229.22	244860.	106.74	13.23	525.65	527.29	262800.
#3	233.21	250140.	107.08	13.35	525.54	529.86	261820.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1004.9**	**508.02**	**556.09**	**530.06**	**104290.**	**185.56**	**1.511**
Stddev	2.7	1.44	4.95	1.51	587.	9.41	.132
%RSD	.27101	.28407	.88934	.28436	.56326	5.0733	8.768
#1	1007.8	509.68	550.84	531.35	103710.	193.80	1.365
#2	1002.4	507.31	556.77	528.40	104890.	187.60	1.624
#3	1004.6	507.08	560.66	530.43	104280.	175.30	1.543

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**256790.**	**551.58**	**.0584**	**830.03**	**1109.9**	**59.183**	**613.42**
Stddev	944.	2.84	.1945	2.59	3.4	3.167	2.93
%RSD	.36772	.51544	332.9	.31161	.30594	5.3520	.47781
#1	255860.	549.38	-.1659	829.50	1112.6	62.780	616.44
#2	257750.	550.57	.1613	832.84	1106.1	56.810	610.59
#3	256760.	554.79	.1799	827.75	1110.9	57.959	613.24

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**54.681**	**.6975**	**108.93**	**529.58**	**1107.9**
Stddev	1.154	.4198	2.35	3.88	5.2
%RSD	2.1107	60.19	2.1544	.73275	.46850
#1	53.448	1.121	110.08	525.52	1111.7
#2	55.736	.2809	106.23	529.97	1102.0
#3	54.858	.6912	110.47	533.25	1110.0

Sample Name: SEQ-IFB@ICSAB01 Acquired: 5/23/2012 15:27:45 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4109.6**	**1113.0**	**1802.5**	**23864.**	**9791.7**
Stddev	9.2	2.8	5.2	57.	30.7
%RSD	.22469	.25329	.28977	.23931	.31326
#1	4098.9	1110.3	1796.7	23840.	9766.4
#2	4115.0	1115.9	1803.8	23929.	9782.9
#3	4114.9	1112.7	1806.9	23822.	9825.8

Sample Name: SEQ-CCV@CCV01 Acquired: 5/23/2012 15:31:58 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1074.0**	**19257.**	**1980.4**	**2072.**	**16154.**	**415.52**	**52312.**	**1054.6**
Stddev	5.1	171.	15.2	25.	672.	2.62	588.	5.1
%RSD	.47730	.88684	.76771	1.220	4.1605	.63143	1.1243	.48715
#1	1075.0	19061.	1972.8	2048.	15381.	413.72	51638.	1049.6
#2	1068.5	19343.	1970.5	2070.	16600.	414.31	52573.	1054.2
#3	1078.6	19369.	1997.9	2098.	16482.	418.53	52724.	1059.9

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2647.9**	**2072.3**	**5148.4**	**21211.**	**48748.**	**1005.**	**50028.**	**3182.6**
Stddev	14.5	20.9	29.7	240.	273.	8.	659.	24.4
%RSD	.54592	1.0068	.57716	1.1337	.56066	.7712	1.3178	.76713
#1	2632.7	2054.5	5162.8	20936.	48456.	996.3	49268.	3164.0
#2	2649.4	2067.2	5114.2	21318.	48791.	1006.	50362.	3173.6
#3	2661.5	2095.2	5168.2	21380.	48998.	1012.	50453.	3210.2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1043.**	**48961.**	**4077.5**	**1882.2**	**4081.0**	**3657.7**	**2075.**	**4358.0**
Stddev	6.	374.	28.7	12.5	24.2	20.5	12.	10.4
%RSD	.6059	.76428	.70298	.66172	.59200	.55964	.5609	.23895
#1	1037.	48542.	4059.5	1876.1	4061.0	3640.0	2065.	4346.8
#2	1042.	49077.	4062.3	1873.9	4074.1	3652.9	2072.	4360.0
#3	1049.	49263.	4110.5	1896.5	4107.8	3680.1	2088.	4367.3

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**4162.7**	**8046.5**
Stddev	28.9	60.5
%RSD	.69432	.75169
#1	4144.7	8016.6
#2	4147.3	8006.8
#3	4196.0	8116.1

Sample Name: SEQ-CCV@CCV01 Acquired: 5/23/2012 15:31:58 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4430.1**	**1271.3**	**1861.0**	**24812.**	**10075.**
Stddev	19.4	8.1	10.6	105.	41.
%RSD	.43774	.63540	.56749	.42473	.40897
#1	4447.1	1276.2	1871.1	24730.	10122.
#2	4434.3	1275.8	1861.9	24931.	10054.
#3	4409.0	1262.0	1850.0	24776.	10048.

Sample Name: SEQ-CCB@CCB01 Acquired: 5/23/2012 15:36:06 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.88542**	**.99001**	**.39049**	**2.138**	**.75775**	**.02031**	**5.0153**	**.07129**
Stddev	1.6933	4.8449	.72075	.481	.69386	.03525	10.692	.02715
%RSD	191.24	489.38	184.58	22.50	91.568	173.57	213.19	38.086
#1	-1.9728	6.3171	-.18436	1.623	1.5585	.05123	13.363	.06675
#2	-1.7490	-3.1533	.15672	2.576	.38141	-.01807	8.7189	.04670
#3	1.0655	-.19372	1.1991	2.215	.33337	.02777	-7.0361	.10043

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.13229**	**.40117**	**.22128**	**9.2900**	**165.60**	**.7512**	**7.1469**	**.48606**
Stddev	.10063	.79979	.18051	13.308	5.96	.3283	10.033	.60976
%RSD	76.066	199.36	81.573	143.26	3.6012	43.70	140.38	125.45
#1	.09834	1.2841	.41498	24.573	172.42	.5040	18.294	1.1886
#2	.05302	.19421	.19110	3.0427	163.01	1.124	-1.1590	.09440
#3	.24550	-.27480	.05777	.25454	161.37	.6258	4.3055	.17518

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.135**	**27.684**	**.25644**	**-1.3232**	**.80271**	**.01952**	**.1672**	**1.6581**
Stddev	.281	7.695	.52715	.3259	.43738	.42681	.1204	.6506
%RSD	24.79	27.795	205.56	24.628	54.488	2186.3	72.00	39.238
#1	1.392	35.307	.51030	-1.6227	.78194	.46110	.1077	2.3263
#2	1.179	27.827	-.34960	-.97620	1.2501	-.39079	.0881	1.6211
#3	.8341	19.919	.60863	-1.3707	.37608	-.01175	.3057	1.0268

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.36234**	**.07879**
Stddev	.78823	.06319
%RSD	217.54	80.200
#1	.07564	.02254
#2	.10964	.14715
#3	-1.2723	.06667

Sample Name: SEQ-CCB@CCB01 Acquired: 5/23/2012 15:36:06 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5103.7**	**1398.5**	**1989.8**	**26392.**	**9907.5**
Stddev	.7	1.1	2.3	98.	118.1
%RSD	.01344	.08081	.11754	.36999	1.1916
#1	5102.9	1397.3	1991.5	26317.	9777.9
#2	5103.8	1398.5	1987.1	26356.	9935.3
#3	5104.3	1399.6	1990.8	26502.	10009.

Sample Name: SEQ-CCV@CCV02 Acquired: 5/23/2012 16:31:08 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1084.6**	**19516.**	**2045.9**	**2060.**	**16719.**	**426.24**	**53445.**	**1077.7**
Stddev	3.5	182.	8.2	13.	195.	2.89	500.	2.3
%RSD	.32431	.93335	.39851	.6465	1.1641	.67850	.93595	.21599
#1	1080.6	19315.	2038.0	2044.	16503.	423.11	52898.	1075.9
#2	1086.0	19564.	2045.6	2068.	16882.	428.81	53556.	1076.9
#3	1087.2	19670.	2054.3	2067.	16771.	426.80	53880.	1080.3

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2664.4**	**2083.0**	**5270.7**	**21515.**	**49294.**	**1026.**	**52573.**	**3227.8**
Stddev	6.3	20.2	17.4	253.	228.	8.	478.	28.4
%RSD	.23656	.97112	.33007	1.1765	.46327	.8115	.90884	.87929
#1	2661.7	2059.7	5276.8	21262.	49066.	1017.	52021.	3198.6
#2	2659.8	2093.9	5284.2	21514.	49293.	1032.	52848.	3255.2
#3	2671.6	2095.5	5251.0	21768.	49523.	1031.	52849.	3229.6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1051.**	**48883.**	**4218.3**	**1960.2**	**4147.8**	**3722.9**	**2122.**	**4330.6**
Stddev	3.	321.	21.1	12.4	14.5	5.2	5.	5.0
%RSD	.2526	.65581	.50133	.63422	.34928	.14042	.2447	.11577
#1	1048.	48625.	4193.9	1946.1	4139.2	3717.7	2116.	4335.0
#2	1050.	48782.	4230.0	1964.6	4139.8	3722.8	2123.	4331.6
#3	1054.	49242.	4231.1	1969.8	4164.6	3728.2	2126.	4325.1

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**4174.4**	**8468.3**
Stddev	31.5	50.9
%RSD	.75468	.60149
#1	4138.0	8409.9
#2	4192.4	8503.3
#3	4192.8	8491.8

Sample Name: SEQ-CCV@CCV02 Acquired: 5/23/2012 16:31:08 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4528.4**	**1277.9**	**1893.7**	**24786.**	**9952.8**
Stddev	.9	5.8	3.2	36.	36.8
%RSD	.01971	.45772	.17072	.14507	.36967
#1	4528.9	1284.6	1896.7	24806.	9987.7
#2	4527.4	1274.0	1894.1	24745.	9956.5
#3	4529.0	1275.0	1890.3	24809.	9914.3

Sample Name: SEQ-CCB@CCB02 Acquired: 5/23/2012 16:35:21 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.34456**	**2.2215**	**.93060**	**3.387**	**.25544**	**-.03263**	**-10.674**	**.04894**
Stddev	.70036	5.0373	.18487	1.073	.64401	.02189	10.673	.02035
%RSD	203.26	226.75	19.866	31.67	252.12	67.098	99.992	41.572
#1	-1.0408	7.9504	.81425	4.124	.98297	-.01577	1.5263	.02978
#2	.35985	-1.5146	.83378	3.882	.02498	-.02474	-15.264	.07030
#3	-.35273	.22878	1.1438	2.157	-.24165	-.05737	-18.283	.04674

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.17338**	**-.16785**	**-.43961**	**2.6443**	**171.30**	**1.886**	**-4.7201**	**.46678**
Stddev	.06584	.72252	.21212	9.6712	12.96	.509	11.981	.55352
%RSD	37.974	430.46	48.253	365.74	7.5651	26.99	253.84	118.58
#1	.23931	.17751	-.31955	13.710	186.24	2.309	8.2601	1.0987
#2	.17319	.31718	-.68453	-1.5893	163.21	2.027	-7.0645	.06784
#3	.10764	-.99824	-.31474	-4.1882	164.44	1.321	-15.356	.23380

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.023**	**12.348**	**.15896**	**-.83764**	**.64192**	**.84576**	**.2422**	**1.0902**
Stddev	.216	1.969	.07813	.87154	.43531	.41870	.4199	.5709
%RSD	21.11	15.945	49.152	104.05	67.814	49.506	173.3	52.366
#1	1.206	14.430	.24788	-1.3126	1.1398	1.2648	.2346	1.4611
#2	1.079	10.516	.12765	.16820	.45262	.42743	.6659	1.3768
#3	.7852	12.098	.10134	-1.3685	.33330	.84500	-.1738	.43280

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.61717**	**.34334**
Stddev	1.2744	.14138
%RSD	206.50	41.177
#1	.68230	.22274
#2	1.8578	.49893
#3	-.68859	.30835

Sample Name: SEQ-CCB@CCB02 Acquired: 5/23/2012 16:35:21 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5202.5**	**1383.6**	**2023.0**	**26470.**	**10119.**
Stddev	1.1	2.3	1.6	160.	236.
%RSD	.02192	.16485	.07736	.60402	2.3323
#1	5203.5	1382.0	2024.4	26294.	9869.3
#2	5201.3	1382.7	2023.2	26510.	10339.
#3	5202.9	1386.2	2021.3	26606.	10149.

Sample Name: 2052308-BLK1 Acquired: 5/23/2012 16:39:39 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: PBW01 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.64992**	**-10.372**	**-.48194**	**2.808**	**-3.2400**	**-.10672**	**-18.930**	**-.24823**
Stddev	1.0169	5.601	.84752	.628	.2017	.01648	7.646	.01168
%RSD	156.47	54.004	175.86	22.38	6.2260	15.446	40.390	4.7073
#1	-.51651	-4.2345	-1.3367	2.828	-3.0082	-.10034	-19.546	-.25669
#2	1.1160	-11.674	.35819	3.426	-3.3365	-.09438	-10.995	-.23490
#3	1.3503	-15.208	-.46734	2.169	-3.3754	-.12544	-26.249	-.25310

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.52113**	**-.59924**	**-1.5870**	**-14.987**	**66.904**	**.3222**	**-13.629**	**-.51511**
Stddev	.11226	.36516	.2701	8.250	8.446	.3083	14.344	.40996
%RSD	21.542	60.938	17.021	55.047	12.624	95.68	105.24	79.588
#1	-.41147	-1.0193	-1.4924	-5.6120	69.991	.6537	2.9319	-.05471
#2	-.51610	-.42061	-1.8916	-18.211	73.372	.0441	-21.727	-.64992
#3	-.63583	-.35777	-1.3768	-21.138	57.349	.2689	-22.093	-.84068

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0088**	**11.292**	**-.71669**	**-2.7776**	**-1.2961**	**-.25728**	**-.4582**	**-1.3244**
Stddev	.1354	11.633	.06292	.5658	.9356	.89423	.3193	.7562
%RSD	1537.	103.02	8.7798	20.369	72.183	347.57	69.70	57.097
#1	.1639	16.534	-.78481	-2.8588	-.47159	-.51954	-.6565	-1.0299
#2	-.0852	19.381	-.66073	-2.1756	-1.1039	-.99105	-.6282	-.75966
#3	-.0523	-2.0394	-.70454	-3.2984	-2.3129	.73875	-.0898	-2.1834

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.34835**	**-1.5248**
Stddev	1.1915	.0896
%RSD	342.06	5.8745
#1	-1.7142	-1.5107
#2	.47847	-1.6206
#3	.19063	-1.4431

Sample Name: 2052308-BLK1 Acquired: 5/23/2012 16:39:39 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: PBW01 SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5422.4**	**1436.2**	**2100.5**	**27433.**	**10577.**
Stddev	9.1	6.7	1.9	79.	158.
%RSD	.16763	.46382	.09138	.28808	1.4912
#1	5432.9	1441.9	2102.0	27467.	10395.
#2	5416.7	1428.9	2098.3	27490.	10673.
#3	5417.5	1438.0	2101.1	27343.	10664.

Sample Name: 2052308-BS1 Acquired: 5/23/2012 16:43:54 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: LCS01 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.474**	**391.96**	**20.244**	**2.936**	**429.92**	**10.640**	**11144.**	**11.022**
Stddev	1.159	4.41	.618	.534	5.73	.018	119.	.012
%RSD	5.9502	1.1239	3.0510	18.20	1.3323	.17005	1.0703	.10980
#1	20.334	395.92	19.531	2.478	423.46	10.649	11016.	11.032
#2	19.932	387.21	20.597	2.808	431.91	10.651	11164.	11.009
#3	18.156	392.74	20.604	3.523	434.39	10.619	11252.	11.026

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**109.15**	**20.150**	**50.848**	**210.03**	**9958.3**	**.6225**	**10931.**	**31.539**
Stddev	.20	.925	.161	6.57	71.2	.6651	194.	.098
%RSD	.18510	4.5905	.31652	3.1287	.71546	106.8	1.7753	.31189
#1	109.27	21.072	50.900	217.61	9881.8	-.0144	10734.	31.651
#2	108.92	19.222	50.976	206.66	10023.	1.313	10936.	31.500
#3	109.26	20.156	50.667	205.84	9970.6	.5694	11122.	31.467

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0050**	**9874.4**	**88.554**	**18.850**	**125.43**	**75.662**	**-.4623**	**51.533**
Stddev	.0781	86.2	.412	.567	.99	.937	.0441	.519
%RSD	1558.	.87340	.46555	3.0092	.78954	1.2384	9.549	1.0073
#1	.0701	9777.3	88.955	18.872	126.44	76.445	-.4189	51.951
#2	.0006	9942.0	88.131	18.273	125.39	75.918	-.5071	51.696
#3	-.0857	9903.9	88.576	19.406	124.46	74.624	-.4609	50.952

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**103.22**	**133.60**
Stddev	1.61	.74
%RSD	1.5623	.55185
#1	101.40	133.99
#2	104.48	132.75
#3	103.77	134.07

Sample Name: 2052308-BS1 Acquired: 5/23/2012 16:43:54 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: LCS01 SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5115.5**	**1350.4**	**2009.7**	**26090.**	**10168.**
Stddev	6.3	6.1	3.3	66.	66.
%RSD	.12324	.44804	.16633	.25110	.65364
#1	5118.8	1350.1	2009.2	26014.	10232.
#2	5119.5	1356.6	2013.2	26124.	10173.
#3	5108.3	1344.5	2006.6	26131.	10099.

Sample Name: 1205175-01 Acquired: 5/23/2012 16:48:06 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.89683**	**-6.6638**	**-1.6069**	**2956.**	**3.2462**	**-.10023**
#1	-.30742	-4.8284	-1.8462	2937.	3.4441	-.09342
#2	-.57782	-6.9791	-1.5468	2975.	3.0015	-.11031
#3	3.5757	-8.1838	-1.4276	2954.	3.2928	-.09696

Elem	Ca3181	Cd2144	Co2286	Cr2677	Cu3247	Fe2382
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2042.3**	**-.23141**	**-.95815**	**-1.7393**	**-.41826**	**22.752**
#1	2060.8	-.25015	-1.0068	-1.5037	-.56520	32.149
#2	2020.6	-.21085	-1.0287	-1.6557	-.07528	18.033
#3	2045.6	-.23325	-.83902	-2.0585	-.61431	18.075

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1730.5**	**41.04**	**597.26**	**5.5137**	**.6428**	F **430760.**
#1	1738.9	41.44	617.83	5.8751	.4134	442100.
#2	1719.1	41.73	587.83	5.3935	.7667	421950.
#3	1733.4	39.94	586.11	5.2727	.7484	428230.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.2699**	**-2.3744**	**-.97208**	**.48873**	**-.5172**	**-.17957**
#1	-1.3948	-2.7100	-.69032	-.39590	-.8147	-.03537
#2	-1.2373	-1.7241	-.49728	1.2281	-.5307	-.45686
#3	-1.1777	-2.6892	-1.7286	.63397	-.2063	-.04649

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.29033**	**.56244**
#1	-1.2364	.42773
#2	-1.0657	.54057
#3	1.4311	.71902

Sample Name: 1205175-01 Acquired: 5/23/2012 16:48:06 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4 SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4635.7**	**1223.1**	**1950.5**	**24841.**	**10062.**
#1	4639.9	1229.3	1952.0	24708.	9901.5
#2	4633.5	1223.1	1948.3	24943.	10166.
#3	4633.7	1217.1	1951.2	24872.	10120.

Sample Name: 2052308-MS1 Acquired: 5/23/2012 16:52:30 Type: RQC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4S SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**56.369**	**1979.2**	**43.738**	**2982.**	**2184.9**	**57.195**	**2017.9**
Stddev	.426	16.7	.760	10.	7.0	.286	10.2
%RSD	.75649	.84386	1.7381	.3517	.31903	.50015	.50367
#1	56.655	1961.4	44.187	2970.	2176.9	56.885	2015.0
#2	56.573	1981.6	42.860	2989.	2188.9	57.251	2009.4
#3	55.879	1994.5	44.167	2988.	2188.9	57.449	2029.1
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							
Recovery	55.472	1985.8	45.345	None	2181.7	57.295	None
% Recovery	110.94%	99.292%	113.36%		109.08%	114.59%	

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**55.928**	**535.71**	**216.47**	**260.26**	**1129.4**	**1960.1**	**41.09**
Stddev	.061	.53	2.00	1.35	8.7	16.5	.62
%RSD	.10943	.09884	.92321	.51919	.76752	.84114	1.514
#1	55.990	536.27	214.21	259.78	1120.4	1979.1	40.41
#2	55.927	535.65	217.18	261.79	1137.6	1949.0	41.63
#3	55.868	535.22	218.01	259.22	1130.3	1952.3	41.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							
Recovery	56.160	536.67	218.21	260.68	1106.7	None	None
% Recovery	112.32%	107.33%	109.10%	104.27%	110.67%		

Sample Name: 2052308-MS1 Acquired: 5/23/2012 16:52:30 Type: RQC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4S SDG: MF5WC4 CASE: 42562
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**590.38**	**567.51**	**.5300**	**419190.**	**572.24**	**20.218**	**103.47**
Stddev	2.66	1.71	.1196	9267.	.86	1.172	.54
%RSD	.45098	.30098	22.57	2.2108	.14958	5.7965	.52058
#1	587.30	565.82	.6491	408490.	571.85	21.570	103.06
#2	591.83	567.47	.4098	424860.	571.65	19.508	104.08
#3	592.00	569.23	.5310	424210.	573.22	19.575	103.28
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							
Recovery	None	561.99	None	None	573.51	22.592	104.45
% Recovery		112.40%			114.70%	112.96%	104.45%

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**54.481**	F **-.4338**	**49.258**	**549.81**	**621.81**
Stddev	.595	.2105	1.182	4.99	.69
%RSD	1.0920	48.52	2.3994	.90750	.11133
#1	55.157	-.6682	48.221	544.26	621.13
#2	54.252	-.3725	50.544	551.25	622.51
#3	54.036	-.2608	49.008	553.93	621.79
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		100.0			
Range		-25.00%			
Recovery	53.993	.0834	49.437	550.10	621.25
% Recovery	107.99%	.0834%	98.875%	110.02%	124.25%

Sample Name: 2052308-MS1 Acquired: 5/23/2012 16:52:30 Type: RQC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4S SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4518.1**	**1206.3**	**1911.9**	**24409.**	**10010.**
Stddev	5.1	2.0	2.8	32.	9.
%RSD	.11273	.16608	.14407	.13007	.08784
#1	4517.1	1208.6	1909.8	24419.	10001.
#2	4523.6	1204.9	1910.9	24435.	10011.
#3	4513.5	1205.4	1915.0	24374.	10018.

Sample Name: 2052308-DUP1 Acquired: 5/23/2012 16:56:48 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4D SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.75063**	**-4.8280**	**-.83965**	**3073.**	**3.4290**	**-.17920**
#1	-2.8459	2.5036	-.30609	3059.	3.6235	-.15333
#2	.33422	-10.690	-.94478	3067.	3.4284	-.19993
#3	.25973	-6.2978	-1.2681	3092.	3.2350	-.18434

Elem	Ca3181	Cd2144	Co2286	Cr2677	Cu3247	Fe2382
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2034.7**	**-.21676**	**-.85482**	**-.68054**	**-.24221**	**23.565**
#1	2025.1	-.22267	-.86281	-.99706	.00361	31.284
#2	2032.2	-.19496	-.83145	-.80370	-.46716	18.657
#3	2046.7	-.23265	-.87020	-.24085	-.26306	20.753

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2054.2**	**42.52**	**597.38**	**5.8013**	**.5564**	F **420240.**
#1	2070.9	42.15	588.99	5.9379	.4445	412240.
#2	2050.5	42.87	599.61	5.8318	.5827	427240.
#3	2041.0	42.54	603.55	5.6343	.6419	421230.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.3103**	**-1.1067**	**-1.0178**	**-1.2508**	**-.1758**	**-.49290**
#1	-1.3618	-1.3290	-1.4754	-.00616	.2017	-.45356
#2	-1.5903	-.47206	.05374	-1.3462	-.1457	-.83055
#3	-.97886	-1.5189	-1.6317	-2.4001	-.5833	-.19458

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.07578**	**.14136**
#1	1.0498	.05936
#2	-.58320	.20774
#3	-.23925	.15697

Sample Name: 2052308-DUP1 Acquired: 5/23/2012 16:56:48 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4D SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4615.1**	**1215.4**	**1938.3**	**24728.**	**10314.**
#1	4616.1	1217.0	1939.2	24791.	10361.
#2	4622.2	1213.5	1940.2	24639.	10259.
#3	4607.0	1215.7	1935.5	24756.	10323.

Sample Name: SEQ-SRD1 Acquired: 5/23/2012 17:01:14 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4L SDG: MF5WC4 CASE: 42562
Comment: @5X

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.50871**	**-7.5581**	**-.77500**	**609.1**	**-2.0114**	**-.13878**	**391.76**	**-.28065**
#1	-1.8716	-.93756	-1.6591	605.1	-1.8592	-.20942	396.11	-.30597
#2	-2.2691	-14.269	-.15276	607.1	-2.0363	-.13898	391.41	-.27629
#3	2.6145	-7.4681	-.51317	615.2	-2.1389	-.06793	387.77	-.25967

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.49972**	**-.96977**	**-1.1270**	**-10.309**	**971.02**	**12.74**	**105.03**	**.13901**
#1	-.47586	-1.5486	-1.2283	-2.7997	991.35	13.01	106.01	.40272
#2	-.45667	-1.4061	-.94919	-15.191	964.42	12.13	105.36	.03528
#3	-.56664	.04536	-1.2036	-12.937	957.29	13.06	103.73	-.02098

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0608**	**85567.**	**-1.2495**	**-1.7072**	**-1.1008**	**-.24249**	**-.3257**	**-.66586**
#1	-.0821	83571.	-1.0252	-2.2546	-1.1863	-.85771	-.5607	-.74090
#2	-.1701	86412.	-1.8307	-1.6178	-1.3281	.76602	-.1025	-.78480
#3	.0699	86717.	-.89262	-1.2491	-.78810	-.63578	-.3139	-.47187

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.62508**	**-1.8574**
#1	-1.0878	-1.9604
#2	1.0802	-1.8057
#3	-1.8676	-1.8061

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4918.0**	**1297.9**	**1964.5**	**25459.**	**10128.**
#1	4923.4	1303.2	1970.5	25412.	10119.
#2	4916.6	1300.1	1965.8	25434.	10097.
#3	4913.9	1290.3	1957.3	25530.	10167.

Sample Name: 1205175-02 Acquired: 5/23/2012 17:05:39 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC5 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.89328**	**-5.5855**	**-.96492**	**3016.**	**3.1463**	**-.11797**
#1	-.16076	-3.4188	-1.1793	2991.	3.4146	-.12267
#2	.08976	-10.419	-1.1234	3031.	3.0199	-.10775
#3	-2.6088	-2.9189	-.59207	3027.	3.0045	-.12348

Elem	Ca3181	Cd2144	Co2286	Cr2677	Cu3247	Fe2382
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1988.5**	**-.24565**	**-.87318**	**-1.1822**	**-.48222**	**23.575**
#1	1984.5	-.27903	-.92533	-2.4051	-.50864	29.260
#2	1988.1	-.19353	-.83444	-.26987	-.75244	20.028
#3	1993.0	-.26439	-.85979	-.87172	-.18558	21.437

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1872.8**	**40.46**	**575.35**	**5.6088**	**.4979**	F **420490.**
#1	1895.1	40.06	576.25	5.8950	.4567	410490.
#2	1854.2	40.53	571.99	5.5143	.4792	423920.
#3	1869.1	40.77	577.83	5.4171	.5578	427070.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.4589**	**-2.4244**	**-1.3379**	**-.24191**	**-.2583**	**-.68774**
#1	-1.5104	-2.1693	-1.9789	-1.5343	-.4015	-1.3797
#2	-1.5532	-2.6672	-.43990	.87725	-.2033	.22832
#3	-1.3130	-2.4367	-1.5950	-.06867	-.1702	-.91184

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.26458**	**.71841**
#1	.61528	.83120
#2	-1.1147	.74103
#3	-.29430	.58299

Sample Name: 1205175-02 Acquired: 5/23/2012 17:05:39 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC5 SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4563.6**	**1208.1**	**1919.1**	**24549.**	**10187.**
#1	4560.9	1208.5	1920.5	24554.	10141.
#2	4563.9	1203.8	1918.7	24598.	10243.
#3	4565.8	1212.0	1918.2	24494.	10177.

Sample Name: 1205175-03 Acquired: 5/23/2012 17:10:03 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC6 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.68978**	**-1.1235**	**-1.4335**	**3343.**	**21.278**	**-.16365**
#1	-1.1753	5.0393	-2.2513	3309.	21.247	-.15179
#2	1.6114	-1.9171	-2.0240	3350.	21.372	-.14729
#3	-2.5055	-6.4926	-.02516	3370.	21.215	-.19187

Elem	Ca3181	Cd2144	Co2286	Cr2677	Cu3247	Fe2382
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5217.5**	**-.25723**	**-1.1699**	**-.81023**	**.00068**	**290.23**
#1	5193.8	-.24613	-1.2193	-.91913	-.22439	291.53
#2	5245.3	-.24322	-1.2829	-1.5708	.36352	290.00
#3	5213.5	-.28232	-1.0076	.05924	-.13711	289.15

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3052.2**	**58.70**	**3502.9**	**15.722**	**.4423**	F **642370.**
#1	3024.2	57.79	3474.6	15.988	.5171	643060.
#2	3048.9	58.76	3526.6	15.659	.4640	640710.
#3	3083.6	59.55	3507.6	15.518	.3457	643330.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.4875**	**-2.1293**	**-1.9966**	**-.14291**	**-.3808**	**-1.2345**
#1	-1.1231	-3.3849	-2.3839	-.23586	-.2320	-1.2250
#2	-1.6742	-1.0345	-1.0945	1.0914	-.4649	-.79144
#3	-1.6651	-1.9686	-2.5114	-1.2843	-.4457	-1.6870

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.45765**	**11.342**
#1	.78520	11.204
#2	.70839	11.455
#3	-.12064	11.366

Sample Name: 1205175-03 Acquired: 5/23/2012 17:10:03 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC6 SDG: MF5WC4 CASE: 42562
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4344.3**	**1147.2**	**1855.2**	**23628.**	**10038.**
#1	4358.6	1148.3	1862.8	23719.	10053.
#2	4347.2	1146.2	1855.0	23527.	10012.
#3	4327.2	1147.0	1847.9	23637.	10048.

Sample Name: SEQ-CCV@CCV03 Acquired: 5/23/2012 17:14:29 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1103.1**	**19190.**	**2097.7**	**2080.**	**16281.**	**433.45**	**52228.**
Stddev	11.6	368.	3.3	20.	678.	6.67	854.
%RSD	1.0548	1.9185	.15961	.9834	4.1644	1.5383	1.6360
#1	1090.0	18768.	2100.5	2058.	15515.	426.14	51254.
#2	1106.9	19357.	2098.6	2086.	16528.	435.00	52582.
#3	1112.3	19445.	2094.0	2097.	16802.	439.20	52849.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1076.6**	**2629.1**	**2075.4**	**5320.5**	**20870.**	**48898.**	**1022.**
Stddev	4.4	8.9	31.5	59.6	326.	539.	16.
%RSD	.40594	.33697	1.5187	1.1208	1.5621	1.1013	1.560
#1	1075.5	2626.4	2040.7	5325.3	20500.	48282.	1003.
#2	1072.8	2622.0	2083.1	5258.7	20993.	49129.	1031.
#3	1081.4	2639.1	2102.3	5377.7	21116.	49282.	1031.

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52407.**	**3266.5**	**1044.**	**47543.**	**4333.9**	**2025.5**	**4159.6**
Stddev	1000.	54.3	2.	531.	5.0	.5	3.9
%RSD	1.9082	1.6620	.2161	1.1167	.11428	.02601	.09454
#1	51262.	3206.3	1043.	46937.	4337.5	2025.7	4155.1
#2	52856.	3281.2	1043.	47767.	4328.3	2024.9	4162.5
#3	53105.	3311.9	1047.	47926.	4335.9	2025.8	4161.2

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**3711.1**	**2125.**	**4204.3**	**4168.2**	**8765.6**
Stddev	13.1	6.	17.6	51.0	30.0
%RSD	.35255	.2692	.41905	1.2234	.34222
#1	3698.7	2123.	4193.2	4110.9	8768.2
#2	3709.7	2122.	4195.0	4185.2	8734.3
#3	3724.8	2132.	4224.6	4208.5	8794.1

Sample Name: SEQ-CCV@CCV03 Acquired: 5/23/2012 17:14:29 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4621.1**	**1260.7**	**1915.9**	**24861.**	**10219.**
Stddev	19.1	1.7	4.7	152.	85.
%RSD	.41279	.13365	.24520	.61033	.83169
#1	4625.7	1259.2	1917.2	24982.	10313.
#2	4637.5	1262.5	1919.8	24910.	10196.
#3	4600.2	1260.5	1910.7	24691.	10148.

Sample Name: SEQ-CCB@CCB03 Acquired: 5/23/2012 17:18:42 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.84131**	**-1.6817**	**.89315**	**11.25**	**.25578**	**-.02826**	**-15.930**
Stddev	.95362	10.459	.66842	1.09	.58904	.00698	14.733
%RSD	113.35	621.90	74.838	9.656	230.29	24.703	92.482
#1	-1.2771	10.394	1.5371	12.35	.90856	-.02985	-.7682
#2	-1.4992	-7.6259	.93959	10.18	.09486	-.02062	-16.830
#3	.25235	-7.8135	.20273	11.21	-.23607	-.03430	-30.193

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.01864**	**.21095**	**-.61728**	**-.07316**	**1.7286**	**496.04**	**4.454**
Stddev	.02533	.04271	.13717	.41428	7.6868	17.73	.170
%RSD	135.90	20.246	22.222	566.27	444.68	3.5750	3.826
#1	-.00105	.24746	-.68896	-.45146	10.602	514.63	4.286
#2	.00975	.16399	-.70375	.36956	-2.8894	494.18	4.626
#3	.04722	.22140	-.45911	-.13758	-2.5269	479.30	4.451

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.4627**	**.57283**	**.9614**	W **320.43**	**-.10733**	**-.24403**	**.52387**
Stddev	6.7211	.46223	.2412	8.69	.32951	.88642	.43807
%RSD	194.10	80.693	25.09	2.7105	307.00	363.24	83.622
#1	3.6826	1.1043	1.206	329.79	-.23215	-1.2632	.71443
#2	-4.4122	.26493	.9549	318.85	.26635	.18373	.02279
#3	-9.6586	.34922	.7236	312.63	-.35619	.34737	.83439

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**.51633**	**.1696**	**1.2893**	**.73536**	**.06522**
Stddev	.76342	.1179	.6280	1.1181	.07470
%RSD	147.86	69.51	48.705	152.05	114.54
#1	1.3781	.0693	1.5983	1.2208	.14015
#2	-.07523	.1402	.56672	-.54343	.06477
#3	.24610	.2995	1.7029	1.5287	-.00925

Sample Name: SEQ-CCB@CCB03 Acquired: 5/23/2012 17:18:42 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5347.5**	**1393.5**	**2065.3**	**26674.**	**10606.**
Stddev	4.8	2.3	2.8	107.	36.
%RSD	.09019	.16738	.13402	.40066	.34404
#1	5349.3	1395.7	2067.6	26582.	10646.
#2	5351.2	1391.0	2062.2	26791.	10599.
#3	5342.1	1393.7	2065.9	26648.	10574.

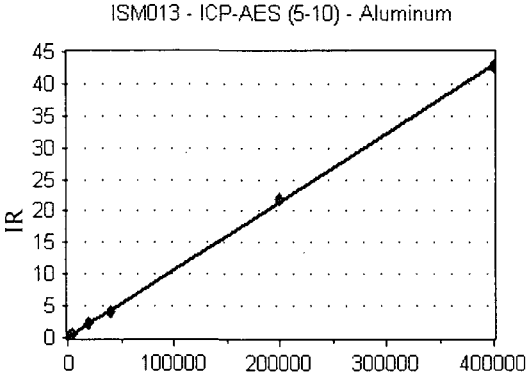
Bonner Analytical Testing

Instrument: ICAPP02
Calibration ID: B223006

Calibration Date: 05/24/2012 10:12 By MSB2
Last Edit Date: 06/04/2012 10:17 By MSB2

ISM013 - ICP-AES (5-10)

Aluminum



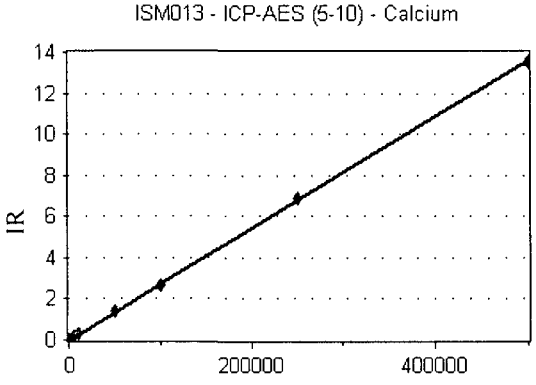
Linear Regression Weighted 1/X
r2: 0.9998639

[Y] = 1.072074E-04 * [X] + 4.009755E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL1	0	29.20	0.00714	0.00
BF20403-CAL2	100	108.20	0.01561	-8.20
BF20403-CAL3	2000	1,951.45	0.21322	2.43
BF20403-CAL4	4000	3,911.86	0.42339	2.20
BF20403-CAL5	20000	19,905.25	2.138	0.47
BF20403-CAL6	40000	38,184.77	4.0977	4.54
BF20403-CAL7	200000	203,717.19	21.844	-1.86
BF20403-CAL8	400000	398,321.29	42.707	0.42

ISM013 - ICP-AES (5-10)

Calcium

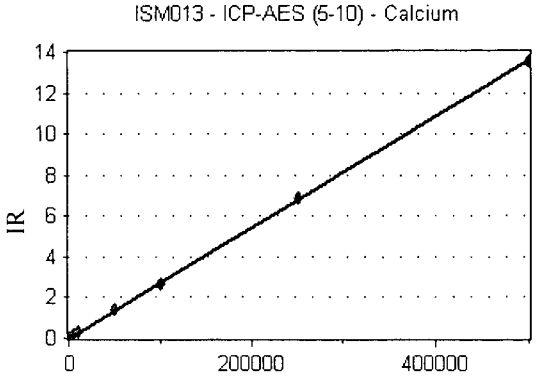


Linear Regression Weighted 1/X
r2: 0.9998837

[Y] = 2.719153E-05 * [X] + 1.257866E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL1	0	14.42	0.00165	0.00
BF20403-CAL2	250	242.43	0.00785	3.03
BF20403-CAL3	5000	5,040.99	0.13833	-0.82
BF20403-CAL4	10000	10,172.73	0.27787	-1.73
BF20403-CAL5	50000	51,355.78	1.3977	-2.71
BF20403-CAL6	100000	96,781.69	2.6329	3.22

Calcium



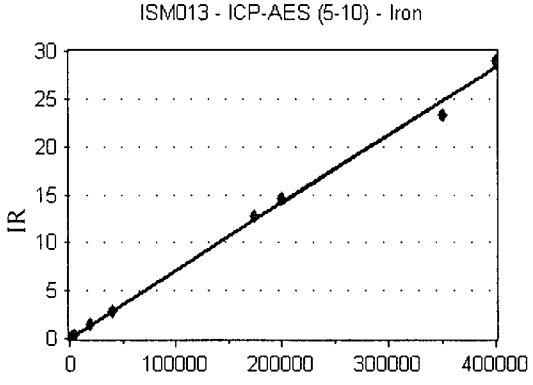
Linear Regression Weighted 1/X
r2: 0.9998837

[Y] = 2.719153E-05 * [X] + 1.257866E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL7	250000	253,275.27	6.8882	-1.31
BF20403-CAL8	500000	498,381.01	13.553	0.32

ISM013 - ICP-AES (5-10)

Iron



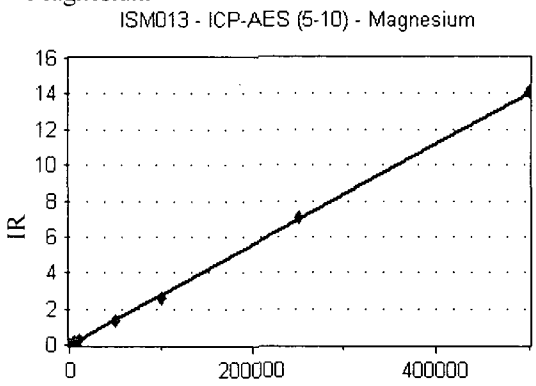
Linear Regression Weighted 1/X
r2: 0.9970578

[Y] = 7.077044E-05 * [X] + 4.576409E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL1	0	-17.89	0.00331	0.00
BF20403-CAL2	100	78.19	0.01011	21.81
BF20403-CAL3	2000	2,116.05	0.15433	-5.80
BF20403-CAL4	4000	4,243.91	0.30492	-6.10
BF20403-CAL5	20000	21,416.05	1.5202	-7.08
BF20403-CAL6	40000	40,464.97	2.8683	-1.16
BF20403-CAL7	175000	179,332.27	12.696	-2.48
BF20403-CAL8	350000	328,165.60	23.229	6.24
BF20403-CAL9	200000	206,433.98	14.614	-3.22
BF20403-CALA	400000	408,849.00	28.939	-2.21

ISM013 - ICP-AES (5-10)

Magnesium



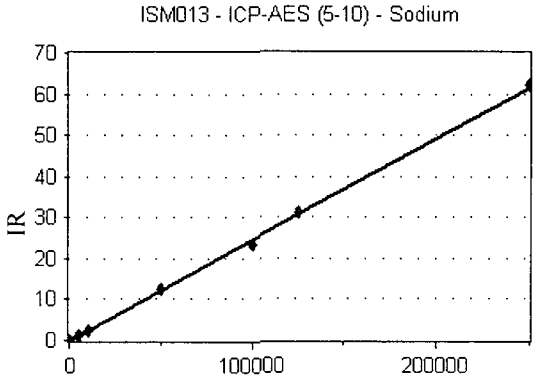
Linear Regression Weighted 1/X
r2: 0.9996345

[Y] = 2.799414E-05 * [X] + 8.067459E-04

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL1	0	26.91	0.00156	0.00
BF20403-CAL2	250	284.10	0.00876	-13.64
BF20403-CAL3	5000	4,804.69	0.13531	3.91
BF20403-CAL4	10000	9,659.28	0.27121	3.41
BF20403-CAL5	50000	49,099.32	1.3753	1.80
BF20403-CAL6	100000	93,533.62	2.6192	6.47
BF20403-CAL7	250000	251,827.46	7.0505	-0.73
BF20403-CAL8	500000	506,041.38	14.167	-1.21

ISM013 - ICP-AES (5-10)

Sodium



Linear Regression Weighted 1/X
r2: 0.9994829

[Y] = 2.458602E-04 * [X] + 7.905752E-03

Std. Name	Sataed Conc.	found Conc.	IR	Difference
BF20403-CAL1	0	24.75	0.01399	0.00
BF20403-CAL2	250	260.29	0.0719	-4.11
BF20403-CAL3	5000	4,907.24	1.2144	1.86
BF20403-CAL4	10000	9,871.85	2.435	1.28
BF20403-CAL5	50000	50,622.65	12.454	-1.25
BF20403-CAL6	100000	95,583.16	23.508	4.42
BF20403-CAL7	125000	126,478.76	31.104	-1.18
BF20403-CAL8	250000	252,526.01	62.094	-1.01

Sample Name: SEQ-CAL1@S0 Acquired: 5/24/2012 22:10:30 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00009**	**.00714**	**-.00044**	**.0053**	**.01919**	**-.00007**	**.00165**
#1	.00009	.00756	.00003	.0058	.02276	-.00002	.00153
#2	.00012	.00537	-.00103	.0046	.01631	-.00003	.00102
#3	.00007	.00850	-.00032	.0056	.01849	-.00016	.00239

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00147**	**.00218**	**.00000**	**.00267**	**.00331**	**.00627**	**.0088**
#1	.00165	.00207	.00009	.00275	.00396	.00793	.0090
#2	.00117	.00211	.00000	.00287	.00193	.00464	.0081
#3	.00159	.00235	-.00011	.00238	.00403	.00625	.0093

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00156**	**.00040**	**.0007**	**.01399**	**-.00102**	**.00680**	**.00052**
#1	.00166	.00065	.0005	.01517	-.00098	.00518	.00074
#2	.00093	.00021	.0007	.01028	-.00140	.00685	.00031
#3	.00209	.00034	.0008	.01652	-.00067	.00837	.00050

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00103**	**.0005**	**.00009**	**.00008**	**.00472**
#1	.00101	.0005	.00002	.00018	.00451
#2	.00105	.0005	.00008	.00004	.00492
#3	.00103	.0006	.00017	.00002	.00473

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5400.8**	**1371.7**	**2064.0**	**27403.**	**10622.**
#1	5410.6	1379.3	2072.7	27485.	10635.
#2	5402.5	1370.2	2063.4	27224.	10667.
#3	5389.2	1365.6	2055.9	27501.	10563.

Sample Name: SEQ-CAL2@S Acquired: 5/24/2012 22:14:46 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00042**	**.01561**	**.13131**	**.0153**	**.63159**	**.00527**	**.00785**	**.12098**
#1	.00059	.01747	.09628	.0143	.63976	.00502	.00843	.10028
#2	.00045	.01498	.13183	.0161	.62642	.00521	.00742	.12110
#3	.00022	.01439	.16582	.0156	.62860	.00558	.00769	.14158

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02891**	**.00076**	**.01928**	**.01011**	**.02486**	**.0174**	**.00876**	**.00678**
#1	.02815	.00073	.01840	.01130	.02557	.0172	.00871	.00696
#2	.03179	.00081	.01933	.00941	.02490	.0178	.00807	.00660
#3	.02681	.00075	.02010	.00964	.02412	.0172	.00949	.00679

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0652**	**.07190**	**.10678**	**.03690**	**.07020**	**.05061**	**.0616**	**.04369**
#1	.0506	.07397	.08405	.02864	.05432	.03867	.0477	.03285
#2	.0667	.07043	.10825	.03552	.07044	.05253	.0606	.04460
#3	.0784	.07130	.12806	.04654	.08584	.06064	.0765	.05362

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.00157**	**.36263**
#1	.00162	.30588
#2	.00150	.36451
#3	.00159	.41751

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5111.8**	**1437.2**	**2023.5**	**25732.**	**10277.**
#1	5081.3	1403.9	1995.3	25877.	10244.
#2	5109.9	1442.8	2029.8	25793.	10351.
#3	5144.2	1464.9	2045.4	25527.	10236.

Sample Name: SEQ-CAL3@S Acquired: 5/24/2012 22:18:51 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00714**	**.21322**	**.06632**	**.2026**	**12.581**	**.09782**	**.13833**	**.96404**
#1	.00703	.21354	.06629	.1986	12.540	.09673	.13847	.96463
#2	.00713	.21295	.06595	.2033	12.605	.09770	.13895	.96127
#3	.00725	.21317	.06671	.2059	12.598	.09902	.13757	.96622

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.51628**	**.01394**	**.30835**	**.15433**	**.41150**	**.1898**	**.13531**	**.12777**
#1	.51665	.01379	.30954	.15583	.41360	.1903	.13525	.12687
#2	.51520	.01399	.30877	.15389	.41051	.1905	.13602	.12715
#3	.51699	.01404	.30673	.15327	.41037	.1886	.13467	.12929

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2572**	**1.2144**	**.65809**	**.19469**	**.15910**	**.09710**	**.1839**	**.07442**
#1	.2574	1.2179	.65734	.19504	.15948	.09728	.1840	.07473
#2	.2567	1.2132	.65339	.19346	.15896	.09708	.1839	.07431
#3	.2576	1.2121	.66353	.19559	.15885	.09695	.1839	.07422

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.03013**	**3.0573**
#1	.02981	3.0525
#2	.03001	3.0467
#3	.03056	3.0727

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5391.7**	**1435.2**	**2139.8**	**27877.**	**10791.**
#1	5386.6	1434.9	2136.7	27819.	10697.
#2	5400.7	1443.5	2148.0	27942.	10773.
#3	5387.8	1427.2	2134.7	27869.	10904.

Sample Name: SEQ-CAL4@S Acquired: 5/24/2012 22:22:56 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01464**	**.42339**	**.13740**	**.4153**	**24.790**	**.20001**	**.27787**	**1.9495**
#1	.01450	.42055	.13674	.4097	24.190	.19809	.27436	1.9378
#2	.01471	.42558	.13691	.4144	24.927	.20086	.27968	1.9522
#3	.01469	.42402	.13856	.4218	25.253	.20109	.27956	1.9583

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0396**	**.02871**	**.62703**	**.30492**	**.82409**	**.3739**	**.27121**	**.25715**
#1	1.0345	.02843	.62585	.30270	.81999	.3710	.26787	.25576
#2	1.0406	.02889	.62849	.30546	.82633	.3740	.27248	.25735
#3	1.0438	.02880	.62675	.30660	.82596	.3766	.27329	.25834

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.5249**	**2.4350**	**1.3407**	**.39285**	**.32488**	**.19515**	**.3744**	**.15079**
#1	.5221	2.4209	1.3245	.38867	.32233	.19429	.3713	.14985
#2	.5254	2.4437	1.3481	.39561	.32625	.19528	.3757	.15061
#3	.5273	2.4404	1.3497	.39427	.32605	.19589	.3761	.15190

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.06131**	**6.2167**
#1	.06070	6.1495
#2	.06143	6.2406
#3	.06179	6.2599

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5274.4**	**1410.1**	**2119.4**	**27814.**	**10949.**
#1	5283.5	1422.0	2130.1	27753.	10938.
#2	5279.3	1403.1	2114.2	27791.	10908.
#3	5260.3	1405.2	2114.0	27899.	11001.

Sample Name: SEQ-CAL5@S Acquired: 5/24/2012 22:27:07 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07478**	**2.1380**	**.72974**	**2.202**	**125.69**	**1.0463**	**1.3977**	**9.7863**
#1	.07356	2.1084	.72932	2.164	122.31	1.0226	1.3815	9.7612
#2	.07598	2.1491	.72957	2.223	125.07	1.0637	1.3969	9.7863
#3	.07480	2.1567	.73033	2.217	129.67	1.0524	1.4146	9.8113

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.2145**	**.15014**	**3.3082**	**1.5202**	**4.2583**	**1.897**	**1.3753**	**1.3413**
#1	5.1990	.14710	3.3048	1.5044	4.2310	1.872	1.3571	1.3157
#2	5.2187	.15182	3.3114	1.5252	4.2668	1.906	1.3742	1.3635
#3	5.2258	.15149	3.3083	1.5310	4.2771	1.914	1.3946	1.3448

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.702**	**12.454**	**6.8049**	**1.9652**	**1.6488**	**.96011**	**1.873**	**.75880**
#1	2.696	12.355	6.8160	1.9662	1.6468	.95818	1.868	.75820
#2	2.703	12.495	6.7885	1.9631	1.6476	.95945	1.871	.75773
#3	2.705	12.510	6.8103	1.9665	1.6520	.96270	1.879	.76046

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.32235**	**31.431**
#1	.31647	31.456
#2	.32708	31.361
#3	.32349	31.477

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4659.5**	**1290.8**	**1988.5**	**26324.**	**10741.**
#1	4673.1	1288.7	1992.3	26490.	10726.
#2	4657.9	1292.8	1987.8	26191.	10815.
#3	4647.4	1291.0	1985.4	26292.	10683.

Sample Name: SEQ-CAL6@S Acquired: 5/24/2012 22:31:17 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13274**	**4.0977**	**1.3587**	**4.183**	**233.53**	**1.9800**	**2.6329**	**17.831**
#1	.13162	4.0494	1.3553	4.163	226.39	1.9603	2.6255	17.812
#2	.13424	4.1258	1.3553	4.197	234.52	1.9972	2.6344	17.809
#3	.13237	4.1179	1.3655	4.189	239.68	1.9825	2.6388	17.871

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.5485**	**.28516**	**6.2601**	**2.8683**	**8.1652**	**3.631**	**2.6192**	**2.5592**
#1	9.5376	.28285	6.2453	2.8388	8.1280	3.610	2.6126	2.5231
#2	9.5346	.28707	6.2662	2.8828	8.1942	3.645	2.6207	2.5867
#3	9.5732	.28556	6.2687	2.8834	8.1734	3.638	2.6244	2.5677

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.999**	**23.508**	**12.377**	**3.5592**	**3.0508**	**1.7562**	**3.415**	**1.3889**
#1	4.989	22.897	12.342	3.5479	3.0475	1.7556	3.410	1.3858
#2	4.993	23.627	12.360	3.5534	3.0455	1.7519	3.411	1.3885
#3	5.015	23.999	12.429	3.5764	3.0593	1.7611	3.425	1.3923

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.61462**	**56.311**
#1	.60675	56.177
#2	.62083	56.261
#3	.61628	56.493

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4491.7**	**1278.5**	**1973.2**	**26001.**	**10707.**
#1	4499.9	1281.7	1974.4	26041.	10685.
#2	4494.0	1279.6	1976.1	25934.	10730.
#3	4481.4	1274.2	1969.2	26028.	10705.

Sample Name: SEQ-CAL7@S Acquired: 5/24/2012 22:35:37 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Al3961	Ca3181	Fe2382	K_7664	Mg2790	Na5895	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21.844**	**6.8882**	**12.696**	**13.028**	**7.0505**	**31.104**	**12.973**
#1	21.626	6.8077	12.517	12.936	6.9841	29.895	12.960
#2	21.761	6.9374	12.779	13.042	7.0989	31.652	12.862
#3	22.146	6.9195	12.792	13.106	7.0685	31.766	13.099

Int. Std.	Sc2273	Y_3710
Units	Cts/S	Cts/S
Avg	**1090.6**	**10313.**
#1	1093.2	10286.
#2	1096.1	10286.
#3	1082.5	10367.

Sample Name: SEQ-CAL8@S Acquired: 5/24/2012 22:40:03 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Al3961	Ca3181	Fe2382	K_7664	Mg2790	Na5895	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**42.707**	**13.553**	**23.229**	**26.006**	**14.167**	**62.094**	**26.568**
#1	41.178	13.253	21.922	25.605	13.800	61.453	26.502
#2	43.595	13.684	24.374	26.138	14.335	62.079	26.574
#3	43.347	13.721	23.391	26.277	14.367	62.749	26.627

Int. Std.	Sc2273	Y_3710
Units	Cts/S	Cts/S
Avg	**991.61**	**10239.**
#1	993.39	10391.
#2	993.95	10170.
#3	987.49	10156.

Sample Name: SEQ-CAL9@S Acquired: 5/24/2012 22:44:43 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Cr2677	Cu3247	Fe2382	Mn2576	Pb2203	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.90267**	**12.446**	**14.614**	**5.2699**	**5.0825**	**49.370**
#1	.88377	12.178	14.124	5.1744	5.0657	49.257
#2	.90585	12.540	14.823	5.2658	5.0708	49.302
#3	.91840	12.619	14.896	5.3695	5.1110	49.549

Int. Std.	Sc2273	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**1359.1**	**27833.**	**11059.**
#1	1364.1	27906.	11244.
#2	1360.5	27793.	10898.
#3	1352.6	27801.	11034.

Sample Name: SEQ-CALA@S Acquired: 5/24/2012 22:49:06 Type: Cal
Method: ISM1.3_2th_MDLs_2012(v11) Mode: IR Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	As1890	Cr2677	Cu3247	Fe2382	Mn2576	Pb2203	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.0689**	**1.9297**	**26.823**	**28.939**	**11.102**	**10.961**	**102.61**
#1	3.0667	1.8940	26.603	27.813	10.682	10.950	102.52
#2	3.0650	1.9402	26.889	29.675	11.416	10.944	102.55
#3	3.0751	1.9550	26.976	29.330	11.208	10.989	102.75

Int. Std.	Sc2273	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**1209.3**	**25867.**	**10401.**
#1	1208.9	25893.	10482.
#2	1210.6	25885.	10371.
#3	1208.4	25823.	10348.

Sample Name: SEQ-ICV@ICV01 Acquired: 5/24/2012 22:53:43 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**523.29**	**2504.3**	**927.27**	**.9065**	F **547.38**	**500.19**	**10600.**
Stddev	2.58	11.6	6.02	.3684	2.52	5.31	61.
%RSD	.49242	.46469	.64925	40.64	.45946	1.0609	.57816
#1	521.36	2513.5	929.98	.9942	549.99	495.42	10670.
#2	522.29	2491.2	931.46	1.223	544.97	499.24	10574.
#3	526.22	2508.2	920.37	.5022	547.19	505.91	10557.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**532.43**	**537.01**	**488.31**	**485.23**	**5531.8**	**9966.7**	**-.1700**
Stddev	1.10	.42	4.34	1.59	48.5	75.6	.1524
%RSD	.20590	.07790	.88934	.32671	.87728	.75833	89.62
#1	532.93	537.35	486.91	487.04	5579.2	10053.	-.1575
#2	533.18	536.54	484.85	484.60	5482.3	9933.2	-.3283
#3	531.17	537.14	493.18	484.06	5534.0	9913.6	-.0243

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5995.0**	**498.75**	**.0204**	**10130.**	**532.31**	**962.23**	**1012.2**
Stddev	18.5	4.67	.1041	55.	3.61	6.44	2.7
%RSD	.30926	.93638	511.2	.54135	.67732	.66917	.26942
#1	5999.4	495.19	-.0075	10191.	535.70	965.89	1013.3
#2	6011.0	497.02	-.0670	10084.	532.69	966.01	1009.1
#3	5974.7	504.03	.1356	10116.	528.52	954.80	1014.2

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1050.7**	F **-.3372**	**1067.2**	**499.55**	**1023.1**
Stddev	2.1	.2038	4.6	5.03	6.8
%RSD	.20167	60.46	.42756	1.0073	.66612
#1	1053.2	-.5341	1069.8	494.64	1028.6
#2	1049.7	-.3505	1061.9	499.33	1025.3
#3	1049.3	-.1270	1069.8	504.69	1015.5

Sample Name: SEQ-ICV@ICV01 Acquired: 5/24/2012 22:53:43 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5279.9**	**1406.1**	**2113.8**	**27600.**	**10728.**
Stddev	7.7	6.7	1.3	101.	146.
%RSD	.14583	.47744	.06156	.36657	1.3572
#1	5281.3	1399.9	2112.6	27488.	10570.
#2	5286.8	1405.4	2113.7	27628.	10760.
#3	5271.6	1413.2	2115.1	27684.	10856.

Sample Name: SEQ-ICB@ICB01 Acquired: 5/24/2012 22:57:45 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.84529**	**-28.249**	**.29369**	**.2061**	**.13897**	**.06228**	**-37.537**	**.03033**
Stddev	1.2274	9.342	.80235	.7890	.36527	.02949	15.272	.04245
%RSD	145.20	33.069	273.19	382.8	262.84	47.357	40.686	139.98
#1	-.52969	-18.164	.49511	.0688	.55576	.06614	-23.744	-.00487
#2	.19349	-29.976	.97614	1.055	-.01341	.03104	-53.950	.07747
#3	-2.1997	-36.607	-.59017	-.5052	-.12544	.08965	-34.918	.01837

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.00603**	**.38825**	**1.0815**	**-6.1808**	**91.297**	**.4254**	**-17.868**	**.43664**
Stddev	.02170	.92055	.3504	12.628	1.210	.6210	10.163	.47814
%RSD	359.96	237.10	32.403	204.32	1.3255	146.0	56.881	109.50
#1	-.00179	-.46652	1.4639	7.8868	92.666	1.134	-8.8953	.98464
#2	.03056	.26842	.77560	-16.540	90.858	-.0264	-15.803	.10442
#3	-.01068	1.3628	1.0051	-9.8894	90.368	.1690	-28.905	.22087

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0954**	**13.534**	**-.28595**	**-2.5621**	**.00113**	**1.5148**	**-.1021**	**-.16886**
Stddev	.1402	6.741	.16300	.6675	.57594	.4000	.1394	.33704
%RSD	146.9	49.808	57.005	26.053	51065.	26.403	136.5	199.60
#1	.2573	20.924	-.24148	-1.8542	.24060	1.1098	-.1877	-.22852
#2	.0161	11.954	-.14979	-3.1800	.41870	1.9095	-.1773	.19403
#3	.0129	7.7229	-.46657	-2.6521	-.65591	1.5251	.0587	-.47210

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.22956**	**1.1702**
Stddev	.89510	.0321
%RSD	389.91	2.7475
#1	-.22331	1.1914
#2	.66239	1.1332
#3	-1.1278	1.1860

Sample Name: SEQ-ICB@ICB01 Acquired: 5/24/2012 22:57:45 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5459.3**	**1459.6**	**2131.9**	**27856.**	**10794.**
Stddev	27.8	7.1	10.6	129.	63.
%RSD	.50940	.48840	.49571	.46383	.58643
#1	5485.4	1462.6	2139.4	27943.	10865.
#2	5462.5	1464.8	2136.6	27918.	10777.
#3	5430.0	1451.5	2119.9	27708.	10742.

Sample Name: SEQ-IFA@ICSA01 Acquired: 5/24/2012 23:02:00 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.1027**	**254760.**	**1.7723**	**19.09**	**2.0829**	**.71535**	**266340.**
Stddev	.9566	9294.	1.2130	2.04	.2196	.04183	4664.
%RSD	86.751	3.6479	68.439	10.67	10.541	5.8469	1.7511
#1	2.0056	244400.	.81900	21.26	2.3311	.76346	261170.
#2	.10014	257550.	3.1377	18.80	1.9141	.69504	267600.
#3	1.2025	262350.	1.3604	17.21	2.0034	.68756	270240.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.6436**	**4.9523**	**43.436**	**21.312**	**106660.**	**130.24**	**2.386**
Stddev	.0527	.2436	.205	.469	2039.	16.15	.335
%RSD	3.2060	4.9189	.47094	2.1984	1.9112	12.403	14.04
#1	-1.5854	4.8052	43.287	20.899	104390.	116.07	2.766
#2	-1.6882	4.8182	43.353	21.217	107270.	126.82	2.256
#3	-1.6571	5.2334	43.669	21.821	108330.	147.83	2.135

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**263510.**	**24.821**	**.1551**	**849.60**	**21.423**	**4.1510**	**4.7616**
Stddev	4454.	.391	.2114	9.54	.215	1.5606	1.5183
%RSD	1.6903	1.5740	136.3	1.1225	1.0021	37.596	31.887
#1	258540.	25.269	-.0884	839.68	21.203	5.9386	4.1806
#2	264850.	24.645	.2623	850.43	21.435	3.0605	6.4846
#3	267140.	24.550	.2913	858.70	21.632	3.4537	3.6196

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**5.1780**	**.8910**	**4.0236**	**-.57826**	**34.999**
Stddev	.6707	.5768	.9341	.40177	.066
%RSD	12.952	64.74	23.216	69.479	.18916
#1	5.8570	1.557	4.7381	-.23744	35.064
#2	4.5159	.5656	2.9666	-.47610	34.932
#3	5.1612	.5504	4.3662	-1.0212	35.002

Sample Name: SEQ-IFA@ICSA01 Acquired: 5/24/2012 23:02:00 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4205.2**	**1129.5**	**1900.0**	**24668.**	**10302.**
Stddev	11.1	2.7	3.6	23.	88.
%RSD	.26353	.23503	.18972	.09380	.85212
#1	4217.8	1128.0	1902.0	24648.	10381.
#2	4201.2	1132.6	1902.2	24664.	10317.
#3	4196.8	1128.0	1895.9	24693.	10208.

Sample Name: SEQ-IFB@ICSAB01 Acquired: 5/24/2012 23:06:21 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**231.78**	**254120.**	**107.25**	**18.38**	**550.38**	**545.10**	**265610.**
Stddev	2.76	5389.	1.02	1.05	4.32	4.51	2194.
%RSD	1.1921	2.1207	.94962	5.697	.78490	.82698	.82602
#1	228.75	248160.	107.39	17.53	548.67	540.54	263730.
#2	232.42	255540.	108.20	18.07	547.17	545.20	265090.
#3	234.16	258650.	106.17	19.55	555.29	549.55	268020.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1042.8**	**519.85**	**561.48**	**533.83**	**107120.**	**96.351**	**2.145**
Stddev	1.1	1.41	4.18	2.69	1329.	17.936	.796
%RSD	.10429	.27155	.74495	.50357	1.2402	18.615	37.10
#1	1041.6	518.24	557.61	533.73	105740.	78.312	1.460
#2	1043.7	520.87	560.91	536.57	107250.	96.559	1.957
#3	1043.0	520.44	565.92	531.20	108380.	114.18	3.018

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**262350.**	**558.63**	**.1629**	**842.98**	**1178.1**	**57.520**	**636.80**
Stddev	2765.	4.04	.1757	3.52	1.6	1.872	2.30
%RSD	1.0541	.72348	107.9	.41770	.13553	3.2540	.36117
#1	260000.	554.51	.0516	843.07	1178.0	59.652	636.86
#2	261640.	558.78	.0716	839.42	1179.8	56.760	634.48
#3	265400.	562.59	.3654	846.46	1176.6	56.148	639.08

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**54.408**	**.9379**	**108.56**	**541.07**	**1148.5**
Stddev	.654	.2529	.24	3.49	3.4
%RSD	1.2021	26.97	.21774	.64558	.29483
#1	54.138	.6521	108.39	537.15	1148.4
#2	55.154	1.029	108.45	542.22	1151.9
#3	53.931	1.133	108.83	543.84	1145.1

Sample Name: SEQ-IFB@ICSAB01 Acquired: 5/24/2012 23:06:21 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4283.2**	**1126.8**	**1912.0**	**24856.**	**10386.**
Stddev	3.6	1.8	2.0	36.	54.
%RSD	.08443	.16365	.10262	.14662	.51720
#1	4279.4	1126.4	1914.2	24831.	10385.
#2	4283.5	1125.2	1910.3	24897.	10440.
#3	4286.6	1128.8	1911.5	24839.	10333.

RMB 6/5/12

Sample Name: SEQ-CCV@CCV01 Acquired: 5/24/2012 23:10:36 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1065.6**	**19729.**	**1962.7**	**2077.**	**16940.**	**421.01**	**52142.**	**1059.1**
Stddev	13.5	267.	12.7	32.	190.	6.55	555.	.9
%RSD	1.2699	1.3535	.64822	1.541	1.1200	1.5553	1.0650	.08894
#1	1050.0	19428.	1948.9	2041.	16945.	413.46	51533.	1059.5
#2	1074.7	19823.	1974.0	2087.	17127.	425.13	52273.	1058.1
#3	1072.0	19937.	1965.2	2103.	16748.	424.44	52620.	1059.8

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2621.2**	**2028.1**	**4985.8**	**21305.**	**49530.**	**1035.**	**50470.**	**3084.7**
Stddev	3.8	35.6	8.1	300.	382.	12.	397.	52.6
%RSD	.14625	1.7529	.16172	1.4099	.77036	1.118	.78598	1.7054
#1	2618.6	1987.1	4990.9	20973.	49104.	1022.	50039.	3024.0
#2	2619.4	2048.4	4976.5	21387.	49644.	1039.	50554.	3114.5
#3	2625.6	2048.9	4990.1	21556.	49841.	1044.	50819.	3115.6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1044.**	**50031.**	**4253.2**	**1897.1**	**4171.9**	**3643.1**	**2100.**	**4137.1**
Stddev	3.	567.	25.1	10.9	22.8	11.9	3.	11.5
%RSD	.2682	1.1328	.59084	.57665	.54600	.32725	.1618	.27822
#1	1041.	49396.	4226.3	1885.0	4147.5	3629.5	2097.	4128.3
#2	1044.	50210.	4276.1	1906.2	4175.9	3647.6	2100.	4133.0
#3	1046.	50486.	4257.3	1900.2	4192.5	3652.0	2103.	4150.2

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**4135.6**	**8148.0**
Stddev	71.0	28.7
%RSD	1.7179	.35224
#1	4053.6	8116.8
#2	4173.4	8173.3
#3	4179.7	8154.0

RHB 6/5/12

Sample Name: SEQ-CCV@CCV01 Acquired: 5/24/2012 23:10:36 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4761.2**	**1301.6**	**2013.7**	**26307.**	**10749.**
Stddev	6.4	7.0	3.9	69.	31.
%RSD	.13498	.53531	.19370	.26264	.29125
#1	4760.4	1309.3	2017.8	26341.	10714.
#2	4767.9	1295.7	2013.1	26227.	10776.
#3	4755.2	1299.9	2010.1	26353.	10757.

Sample Name: SEQ-CCB@CCB01 Acquired: 5/24/2012 23:14:44 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.68078**	**-10.263**	**1.1220**	**3.852**	**4.7099**	**.18110**	**-10.657**	**.22938**
Stddev	1.5037	4.316	.1308	.191	2.4093	.07668	6.029	.04996
%RSD	220.87	42.056	11.659	4.953	51.154	42.342	56.572	21.779
#1	2.0757	-15.236	1.1658	4.001	1.9395	.09533	-14.958	.27527
#2	-.91199	-7.4877	.97485	3.918	6.3148	.24302	-13.248	.23670
#3	.87861	-8.0660	1.2252	3.637	5.8754	.20494	-3.7658	.17617

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.46593**	**1.1964**	**1.6515**	**-4.6241**	**66.048**	**-.4150**	**-11.679**	**1.1632**
Stddev	.06815	.2314	.3146	5.7043	2.079	.4552	6.355	.0902
%RSD	14.627	19.341	19.047	123.36	3.1469	109.7	54.419	7.7565
#1	.44312	1.3363	2.0016	.61347	66.217	-.4623	-18.158	1.0984
#2	.54256	1.3236	1.5602	-3.7838	68.037	-.8448	-11.424	1.2662
#3	.41211	.92929	1.3927	-10.702	63.890	.0620	-5.4547	1.1249

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.479**	**16.252**	**.93278**	**-2.2129**	**.85061**	**1.1866**	**.4845**	**1.2491**
Stddev	.435	4.968	.21991	.4802	.52063	1.5998	.2568	.3805
%RSD	29.42	30.566	23.575	21.701	61.207	134.82	53.00	30.465
#1	1.976	11.827	.94302	-2.0917	.95451	2.0720	.2982	1.4865
#2	1.294	15.304	1.1474	-1.8049	1.3115	2.1479	.3779	1.4507
#3	1.167	21.626	.70794	-2.7422	.28587	-.66019	.7775	.81020

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1.2079**	**1.7026**
Stddev	1.8534	.3430
%RSD	153.44	20.147
#1	-.58906	2.0718
#2	3.1129	1.6423
#3	1.0998	1.3938

PDM 6/6/12

Sample Name: SEQ-CCB@CCB01 Acquired: 5/24/2012 23:14:44 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5606.5**	**1464.8**	**2154.4**	**28326.**	**11001.**
Stddev	13.4	3.9	4.4	95.	30.
%RSD	.23835	.26371	.20525	.33503	.27175
#1	5619.0	1468.6	2159.3	28217.	10976.
#2	5608.0	1464.8	2150.7	28385.	11034.
#3	5592.4	1460.9	2153.2	28377.	10993.

Sample Name: SEQ-CCV@CCV02 Acquired: 5/24/2012 23:23:16 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1074.2**	**20098.**	**1942.2**	**2094.**	**16910.**	**421.94**	**52961.**	**1064.0**
Stddev	8.7	288.	4.0	9.	557.	2.54	399.	1.8
%RSD	.81247	1.4332	.20429	.4217	3.2930	.60281	.75303	.16881
#1	1064.2	19781.	1938.8	2084.	16296.	419.02	52500.	1062.4
#2	1078.0	20171.	1941.2	2096.	17381.	423.69	53200.	1063.8
#3	1080.4	20343.	1946.6	2102.	17054.	423.10	53182.	1066.0

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2650.3**	**2039.7**	**5095.5**	**21866.**	**50352.**	**1049.**	**51033.**	**3119.0**
Stddev	5.1	16.9	15.8	306.	346.	9.	339.	32.5
%RSD	.19257	.82866	.30946	1.3995	.68804	.8616	.66338	1.0410
#1	2645.3	2020.2	5088.9	21538.	49970.	1039.	50642.	3081.8
#2	2649.9	2050.3	5084.0	21914.	50437.	1052.	51209.	3133.9
#3	2655.5	2048.6	5113.4	22145.	50647.	1057.	51247.	3141.4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1048.**	**51201.**	**4235.5**	**1882.7**	**4148.0**	**3642.1**	**2107.**	**4163.1**
Stddev	3.	554.	7.8	6.5	18.0	9.9	3.	15.9
%RSD	.2835	1.0813	.18508	.34580	.43327	.27226	.1261	.38234
#1	1045.	50589.	4226.5	1875.5	4128.9	3630.8	2104.	4146.2
#2	1048.	51350.	4240.9	1884.5	4150.7	3646.1	2108.	4165.3
#3	1051.	51666.	4239.1	1888.2	4164.5	3649.4	2109.	4177.9

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**4174.6**	**8110.0**
Stddev	37.5	12.0
%RSD	.89758	.14807
#1	4131.3	8096.3
#2	4196.2	8118.6
#3	4196.2	8115.1

Sample Name: SEQ-CCV@CCV02 Acquired: 5/24/2012 23:23:16 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4687.9**	**1303.6**	**2003.4**	**26312.**	**10611.**
Stddev	19.5	2.4	3.2	77.	4.
%RSD	.41507	.18408	.16143	.29345	.03378
#1	4701.9	1306.1	2006.2	26250.	10613.
#2	4696.2	1303.2	2004.1	26287.	10612.
#3	4665.7	1301.4	1999.8	26398.	10607.

Sample Name: SEQ-CCB@CCB02 Acquired: 5/24/2012 23:27:29 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.52624**	**-35.700**	**-.28811**	**3.984**	**1.1705**	**.05260**	**-57.549**	**.01569**
Stddev	1.2749	10.846	.87732	1.044	.7609	.06202	15.877	.03338
%RSD	242.27	30.382	304.51	26.21	65.007	117.92	27.588	212.79
#1	-1.9858	-23.178	-1.2447	4.932	2.0473	.09645	-39.291	.00874
#2	.36994	-42.174	-.09874	4.156	.78262	.07972	-68.110	.05199
#3	.03715	-41.748	.47906	2.865	.68173	-.01836	-65.246	-.01367

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.05027**	**.59441**	**-.15718**	**-32.197**	**7.9011**	**-.2882**	**-42.400**	**-.20079**
Stddev	.14119	.97790	.27493	13.992	21.181	.3699	5.626	.61710
%RSD	280.84	164.52	174.91	43.457	268.07	128.4	13.269	307.34
#1	-.21232	1.1419	-.11764	-16.045	20.186	-.1171	-36.016	.51075
#2	.01526	-.53460	.09584	-39.971	20.074	-.0348	-44.553	-.52351
#3	.04624	1.1759	-.44974	-40.576	-16.556	-.7127	-46.633	-.58960

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.523**	**-8.3409**	**-.05660**	**-4.1459**	**.38080**	**.04319**	**.1390**	**.20596**
Stddev	.335	8.1182	.16100	.2323	.72112	.58568	.1632	.29987
%RSD	22.03	97.329	284.46	5.6042	189.37	1356.0	117.4	145.59
#1	1.854	.61328	-.04088	-3.8968	-.44487	-.07317	.1651	.53261
#2	1.530	-10.416	-.22488	-4.1841	.70025	-.47558	.2876	-.05683
#3	1.183	-15.220	.09597	-4.3567	.88702	.67832	-.0357	.14210

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.76796**	**-.12139**
Stddev	.53735	.09696
%RSD	69.971	79.870
#1	.21969	-.15256
#2	1.2937	-.01269
#3	.79050	-.19893

Sample Name: SEQ-CCB@CCB02 Acquired: 5/24/2012 23:27:29 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5557.8**	**1474.1**	**2157.1**	**28245.**	**10909.**
Stddev	6.2	9.0	7.7	5.	26.
%RSD	.11142	.61330	.35641	.01895	.23631
#1	5563.9	1483.4	2161.4	28246.	10881.
#2	5558.0	1473.6	2161.7	28239.	10932.
#3	5551.5	1465.4	2148.2	28249.	10914.

Sample Name: 1205175-01RE1 Acquired: 5/24/2012 23:31:50 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4 SDG: MF5WC4 CASE: 42562
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.42668**	**-38.075**	**-.55480**	**698.5**	**1.1058**	**-.01546**	**406.93**
#1	-1.1805	-32.078	-.64561	688.4	1.5296	.01019	406.76
#2	2.9572	-37.506	-1.5850	704.4	.87507	-.05032	406.63
#3	-.49673	-44.641	.56625	702.8	.91263	-.00624	407.39

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.04180**	**-.26010**	**-1.0972**	**-.36235**	**-29.292**	**369.38**	**9.222**
#1	-.04448	-.13445	-.35716	-.51274	-17.528	384.90	9.284
#2	.00581	-.36636	-.74529	-.19011	-34.958	352.21	8.347
#3	-.08671	-.27949	-2.1893	-.38419	-35.391	371.02	10.04

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**93.252**	**1.0847**	**.6986**	**103470.**	**-.64302**	**-3.2281**	**-.30009**
#1	90.413	1.6785	.7088	100650.	-.50692	-2.9572	.10064
#2	101.08	.77617	.7452	104640.	-.67676	-3.8452	-1.7629
#3	88.264	.79929	.6417	105130.	-.74538	-2.8819	.76197

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-.81536**	**-.1389**	**-.08276**	**.00201**	**.26193**
#1	-.62790	-.0673	-.46295	.62131	.24345
#2	-2.2557	-.3000	-.68210	.17232	.22499
#3	.43757	-.0493	.89677	-.78761	.31736

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5035.8**	**1330.1**	**2055.7**	**26666.**	**10657.**
#1	5047.8	1336.7	2061.7	26664.	10721.
#2	5032.9	1326.5	2052.7	26611.	10632.
#3	5026.8	1327.2	2052.6	26724.	10618.

Sample Name: 2052308-MS2 Acquired: 5/24/2012 23:36:17 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MFSWC45 SDG: MFSWC4 CASE: 42562
Comment: @5X Na

BMS
6/5/12

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.057**	**373.01**	**7.6248**	**597.1**	**458.44**	**10.913**	**355.89**	**11.402**
#1	11.044	375.74	7.9661	590.4	459.15	10.749	361.69	11.336
#2	13.491	369.09	8.1641	601.3	457.98	11.032	350.35	11.376
#3	8.6373	374.20	6.7442	599.7	458.20	10.958	355.64	11.494

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**111.54**	**41.595**	**49.114**	**200.65**	**359.30**	**7.960**	**77.594**	**103.99**
#1	111.34	40.245	49.137	218.33	348.84	8.075	91.737	103.43
#2	111.33	42.915	48.608	190.99	376.74	7.963	69.948	105.03
#3	111.95	41.623	49.598	192.63	352.31	7.843	71.097	103.49

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2799**	**90481.**	**113.30**	**.82442**	**21.289**	**10.499**	**.1549**	**10.653**
#1	.3359	91033.	113.04	1.4276	21.669	10.189	.2255	10.115
#2	.2432	88164.	112.48	1.2022	20.905	10.729	.1795	11.502
#3	.2607	92246.	114.37	-.15657	21.292	10.580	.0596	10.342

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**106.28**	**115.04**
#1	105.15	114.62
#2	106.62	114.81
#3	107.08	115.68

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4985.8**	**1312.9**	**2026.4**	**26449.**	**10466.**
#1	4997.8	1315.5	2032.3	26553.	10369.
#2	4998.8	1318.1	2028.7	26376.	10582.
#3	4960.9	1305.1	2018.3	26417.	10446.

Sample Name: 2052308-DUP2 Acquired: 5/24/2012 23:40:39 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4D SDG: MF5WC4 CASE: 42562
Comment: @5X Na

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.2222**	**-35.724**	**-.15157**	**671.2**	**.94539**	**-.04582**	**393.22**
#1	1.5455	-29.332	.36808	665.1	1.2976	-.04278	388.77
#2	.15088	-41.628	-.32406	671.5	.69901	-.00568	374.62
#3	1.9701	-36.211	-.49874	677.0	.83960	-.08900	416.28

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.07186**	**-.18818**	**-.62424**	**-.00709**	**-29.384**	**395.68**	**8.838**
#1	-.04511	-.27454	-.02054	-.07319	-17.227	403.21	8.075
#2	-.10436	.10511	-.16193	.02892	-34.917	383.49	9.444
#3	-.06612	-.39510	-1.6903	.02300	-36.009	400.32	8.995

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**86.112**	**.85599**	**.2618**	**102860.**	**-.46760**	**-3.0858**	**-.18019**
#1	87.187	1.4216	.2216	100410.	-.58379	-1.9491	.73594
#2	83.410	.55824	.3439	103360.	-.57708	-4.2083	-1.1026
#3	87.740	.58817	.2200	104790.	-.24195	-3.0998	-.17393

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-.89447**	**-.0737**	**-.29502**	**.18469**	**-.11322**
#1	-.18697	-.0842	-.41237	.68225	.00930
#2	-1.0067	.0596	-.58770	.36739	-.28510
#3	-1.4898	-.1964	.11500	-.49557	-.06386

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4889.1**	**1293.8**	**2003.6**	**25975.**	**10346.**
#1	4909.8	1296.0	2005.4	25966.	10402.
#2	4890.4	1292.5	2005.1	25975.	10309.
#3	4867.2	1292.8	2000.4	25984.	10329.

Sample Name: SEQ-SRD2 Acquired: 5/24/2012 23:45:06 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC4L SDG: MF5WC4 CASE: 42562
Comment: @25X Na

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.25586**	**-39.547**	**.06211**	**122.8**	**-.35145**	**.00252**	**35.013**	**-.07866**
#1	-2.4228	-30.108	-.40671	120.7	.10978	.00793	54.963	-.04345
#2	1.0912	-45.314	.22208	123.7	-.51574	-.00416	11.661	-.11222
#3	.56407	-43.218	.37097	124.1	-.64841	.00379	38.416	-.08029

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.21183**	**.21215**	**-.34154**	**-33.829**	**84.352**	**1.451**	**-29.621**	**-.03678**
#1	-.32953	.68703	-.15673	-17.311	96.822	1.979	-24.373	.69618
#2	-.17856	.29177	-.56778	-41.112	70.134	1.433	-18.858	-.47819
#3	-.12740	-.34235	-.30012	-43.064	86.101	.9398	-45.631	-.32833

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0073**	**19231.**	**-.74279**	**-4.3822**	**-.76005**	**-.96068**	**-.1487**	**-.61453**
#1	-.0449	18778.	-.72745	-4.0563	-.97332	-.55746	-.1230	-.87841
#2	.0920	19389.	-1.0226	-4.7791	.00889	-1.5511	-.3392	-.42085
#3	-.0691	19528.	-.47831	-4.3111	-1.3157	-.77352	.0162	-.54434

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.30728**	**-.53388**
#1	-.13304	-.60499
#2	-.00919	-.52143
#3	-.77962	-.47522

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5407.8**	**1440.9**	**2138.7**	**27940.**	**10944.**
#1	5434.2	1443.4	2148.6	27894.	11083.
#2	5408.7	1443.8	2137.3	28052.	10887.
#3	5380.4	1435.6	2130.1	27873.	10861.

Sample Name: 1205175-02RE1 Acquired: 5/24/2012 23:49:26 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC5 SDG: MF5WC4 CASE: 42562
Comment: @5X Na

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.72324**	**-38.620**	**-1.3126**	**560.6**	**.84722**	**-.03494**	**337.37**	**-.05762**
#1	.14061	-26.919	-1.6119	553.0	1.2921	-.05540	351.72	-.05568
#2	1.1718	-40.319	-1.3457	565.2	.63608	-.03135	330.49	-.02564
#3	.85727	-48.623	-.98027	563.5	.61345	-.01806	329.90	-.09155

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.15601**	**-.23661**	**-.44410**	**-27.626**	**302.96**	**7.902**	**66.031**	**.74500**
#1	-.02901	.53683	-.21789	-11.917	334.54	7.687	77.692	1.2953
#2	-.14623	-.30241	-.45774	-34.121	284.59	7.994	58.533	.43756
#3	-.29278	-.94426	-.65667	-36.838	289.76	8.024	61.869	.50218

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0482**	**88399.**	**-.65327**	**-2.7544**	**-1.1077**	**-1.3840**	**.0868**	**.03522**
#1	-.0620	88390.	-.79418	-2.3743	-1.1169	-1.5440	.1319	-.02259
#2	.0646	88596.	-.60174	-3.6887	-.71814	-2.7660	.2289	.40561
#3	.1422	88210.	-.56389	-2.2002	-1.4881	.15806	-.1004	-.27735

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.91875**	**-.23969**
#1	-.72783	-.10555
#2	-1.2957	-.18972
#3	-.73276	-.42380

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4961.0**	**1318.5**	**2026.0**	**26465.**	**10393.**
#1	4952.7	1327.4	2034.2	26792.	10289.
#2	4957.0	1312.9	2022.2	26369.	10435.
#3	4973.4	1315.2	2021.5	26235.	10456.

Sample Name: 1205175-03RE1 Acquired: 5/24/2012 23:53:48 Type: Unk
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: MF5WC6 SDG: MF5WC4 CASE: 42562
Comment: @5X Na

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.05290**	**-39.630**	**-.41455**	**763.4**	**5.1555**	**-.00480**	**1161.9**
#1	-1.4985	-30.235	-.44504	751.6	5.3046	.02232	1153.5
#2	.98270	-47.061	.07798	768.5	5.1422	-.00893	1160.5
#3	.67451	-41.595	-.87658	770.0	5.0198	-.02779	1171.6

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.07639**	**-.28426**	**-.55332**	**-.16161**	**33.761**	**605.26**	**13.65**
#1	-.06841	-.19725	-1.0271	.04625	43.287	612.98	13.08
#2	-.08260	-.35470	-.89873	-.39581	28.887	583.30	13.56
#3	-.07817	-.30083	.26588	-.13527	29.110	619.51	14.31

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**753.00**	**3.0885**	**.1062**	**162070.**	**-.46969**	**-4.3373**	**-.46771**
#1	743.25	3.2784	.1058	161280.	-.10990	-4.8498	.23937
#2	752.26	3.0199	.0285	160820.	-.54608	-3.4243	-1.4075
#3	763.50	2.9670	.1842	164120.	-.75309	-4.7377	-.23496

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**.12397**	**-.3387**	**-.27587**	**-1.2383**	**2.3461**
#1	.05520	-.3099	-.58775	-2.8250	2.1297
#2	.26300	-.4477	-.67695	-.07571	2.3486
#3	.05372	-.2586	.43710	-.81408	2.5601

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4922.0**	**1291.5**	**2035.8**	**26315.**	**10688.**
#1	4920.7	1291.1	2039.5	26371.	10722.
#2	4925.6	1295.6	2036.7	26350.	10688.
#3	4919.7	1287.7	2031.3	26225.	10653.

Sample Name: SEQ-CCV@CCV03 Acquired: 5/24/2012 23:58:16 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **1110.0**	**20298.**	**2037.1**	**2166.**	**17456.**	F **440.03**	**53538.**
Stddev	23.4	296.	13.1	23.	403.	6.96	502.
%RSD	2.1119	1.4572	.64303	1.065	2.3059	1.5822	.93691
#1	1083.2	19957.	2028.7	2140.	16993.	432.07	52963.
#2	1126.8	20457.	2030.5	2176.	17729.	444.98	53887.
#3	1119.9	20480.	2052.2	2182.	17644.	443.04	53764.

Elem	Cd2144	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1099.1**	**2696.0**	**2089.8**	**5121.2**	**21662.**	**50834.**	**1074.**
Stddev	2.7	7.7	25.5	28.0	238.	438.	13.
%RSD	.24269	.28472	1.2188	.54706	1.0987	.86213	1.186
#1	1097.5	2689.7	2061.3	5153.5	21387.	50328.	1059.
#2	1097.6	2693.7	2110.4	5103.3	21812.	51113.	1079.
#3	1102.2	2704.5	2097.6	5106.8	21785.	51060.	1083.

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52636.**	**3171.6**	**1076.**	**50855.**	F **4432.0**	**1982.0**	**4293.4**
Stddev	616.	51.4	5.	472.	21.9	7.2	13.8
%RSD	1.1711	1.6203	.4266	.92867	.49362	.36372	.32139
#1	51924.	3113.6	1072.	50312.	4417.2	1977.6	4282.1
#2	53005.	3211.6	1074.	51089.	4421.7	1978.2	4289.3
#3	52978.	3189.5	1081.	51165.	4457.2	1990.3	4308.8

Elem	Se1960	Sn1899	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb
Avg	**3732.4**	**2179.**	**4273.1**	**4259.0**	**8574.9**
Stddev	17.3	7.	21.3	67.9	32.8
%RSD	.46276	.3156	.49857	1.5954	.38206
#1	3718.5	2173.	4249.0	4182.8	8548.0
#2	3727.0	2177.	4280.9	4313.3	8565.4
#3	3751.8	2186.	4289.4	4280.8	8611.4

Sample Name: SEQ-CCV@CCV03 Acquired: 5/24/2012 23:58:16 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4692.1**	**1268.0**	**1972.1**	**25814.**	**10607.**
Stddev	21.1	5.3	5.9	100.	13.
%RSD	.44993	.41797	.29996	.38826	.12477
#1	4715.4	1272.1	1976.2	25901.	10595.
#2	4686.7	1269.8	1974.7	25704.	10621.
#3	4674.2	1262.0	1965.3	25837.	10604.

Sample Name: SEQ-CCB@CCB03 Acquired: 5/25/2012 0:02:28 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3131	Ca3181	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.1318**	**-36.285**	**.32868**	**6.055**	**.77817**	**.01324**	**-45.059**	**-.03202**
Stddev	1.4075	11.238	.79319	.489	.68473	.03167	7.346	.05541
%RSD	124.36	30.972	241.32	8.073	87.992	239.17	16.304	173.05
#1	1.9420	-25.597	1.2386	6.542	1.5141	-.01235	-37.675	-.07289
#2	1.9468	-35.255	-.21653	6.059	.66050	.04866	-52.366	-.05420
#3	-.49349	-48.002	-.03606	5.564	.15990	.00342	-45.136	.03104

Elem	Co2286	Cr2677	Cu3247	Fe2382	K_7664	Li6707	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.11963**	**.07053**	**-.16917**	**-34.998**	**41.844**	**.2229**	**-41.647**	**-.20947**
Stddev	.01486	.45817	.25630	12.262	6.913	.3982	3.292	.47128
%RSD	12.418	649.60	151.51	35.037	16.521	178.6	7.9051	224.99
#1	.13399	.40338	.12522	-20.867	46.239	-.2124	-40.580	.31362
#2	.10432	-.45203	-.29001	-41.284	45.418	.5687	-45.340	-.34106
#3	.12057	.26025	-.34270	-42.842	33.876	.3124	-39.020	-.60097

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.225**	**24.608**	**-.18382**	**-4.4446**	**-.23919**	**-.40372**	**.0494**	**-.84438**
Stddev	.219	8.308	.18429	.3943	.74551	.67607	.0810	.23959
%RSD	17.88	33.761	100.26	8.8725	311.69	167.46	164.0	28.375
#1	1.469	32.725	-.22439	-4.7826	-.25677	-.75048	.1420	-1.0714
#2	1.158	24.977	-.34444	-4.0113	-.97575	-.83606	-.0082	-.59391
#3	1.046	16.122	.01738	-4.5399	.51496	.37537	.0143	-.86787

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.11896**	**-.15107**
Stddev	.69761	.22380
%RSD	586.45	148.15
#1	.28422	-.36989
#2	-.64645	-.16071
#3	.71909	.07740

Sample Name: SEQ-CCB@CCB03 Acquired: 5/25/2012 0:02:28 Type: QC
Method: ISM1.3_2th_MDLs_2012(v11) Mode: CONC Corr. Factor: 1.000000
User: MSB2 EPA ID: SDG: CASE:
Comment:

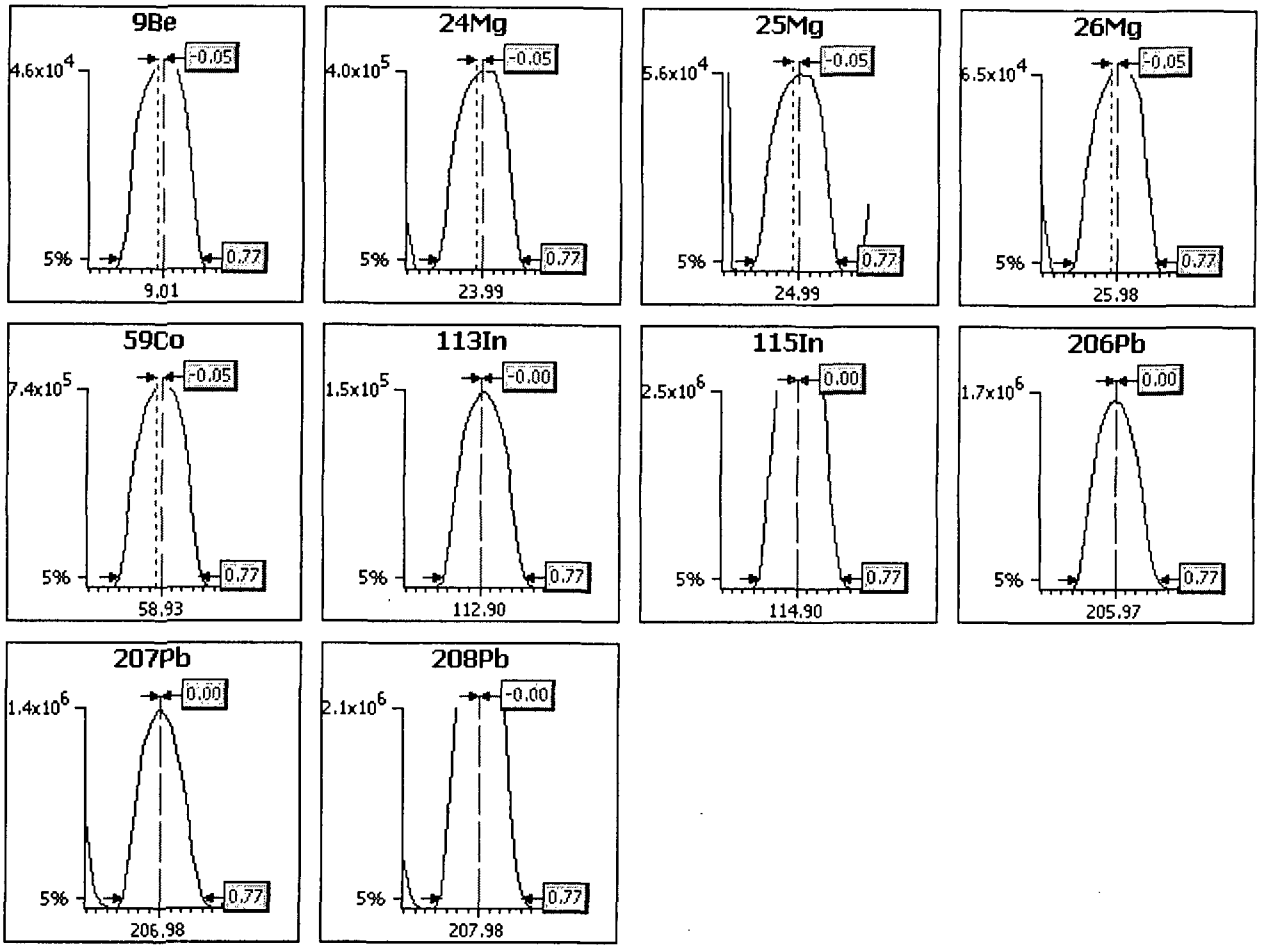
Int. Std.	In2306	Sc2273	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5595.3**	**1458.3**	**2157.0**	**28455.**	**11098.**
Stddev	19.0	9.1	12.0	47.	124.
%RSD	.33935	.62730	.55562	.16550	1.1207
#1	5613.6	1466.3	2166.0	28503.	11225.
#2	5596.7	1460.2	2161.6	28451.	10976.
#3	5575.7	1448.3	2143.4	28409.	11094.

Performance Report

Sample details
Sample name : SEQ-TUN1@TUNE01
Acquired at : 5/23/2012 8:47:33 AM
Report name : 200_8 TEST [11/20/2010 12:03:08 PM]

Mass Calibration verification

Acquisition parameters
Sweeps : 30
Dwell : 10.0 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	0.10	0.77	-0.05
24Mg	0.85	0.65	0.10	0.77	-0.05
25Mg	0.85	0.65	0.10	0.77	-0.05
26Mg	0.85	0.65	0.10	0.77	-0.05
59Co	0.85	0.65	0.10	0.77	-0.05
113In	0.85	0.65	0.10	0.77	-0.00
115In	0.85	0.65	0.10	0.77	0.00
206Pb	0.85	0.65	0.10	0.77	0.00
207Pb	0.85	0.65	0.10	0.77	0.00
208Pb	0.85	0.65	0.10	0.77	-0.00

Sample details
Sample name : SEQ-TUN1@TUNE01
Acquired at : 5/23/2012 8:47:33 AM
Report name : 200_8 TEST [11/20/2010 12:03:08 PM]

Tune conditions

Major	
Extraction	-102
Lens 1	0.3
Focus	14.3
D1	-45.5
Pole Bias	0.5
Hexapole Bias	-3.0
Nebuliser	0.83
Sampling Depth	130

Minor	
Lens 2	-26.7
Lens 3	-188.2
Forward power	1404
Horizontal	35
Vertical	500
D2	-160
DA	-25.9
Cool	13.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
CCT 7% h2/He	0.00
Dont touch this F'n thing	0.00

Sensitivity and stability results

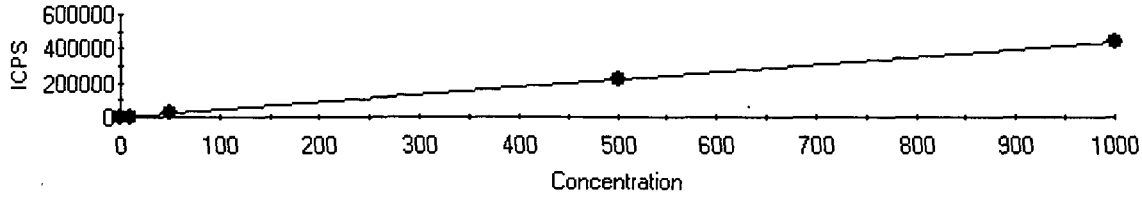
Acquisition parameters
Sweeps : 30

Run	Time	9Be	24Mg	25Mg	26Mg	59Co	113In	115In	206Pb	207Pb	208Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
	Countrate	>20000	>50000	>30000	>30000	>50000	>50000	>50000	>50000	>50000	>50000
1	8:49:13 AM	50295.412	401459.50	55646.456	68245.200	787604.42	167797.76	4124971.7	1734443.9	1418390.0	3495957.2
2	8:49:18 AM	50020.569	407283.50	55244.013	68309.009	792700.03	169617.73	4128305.1	1753075.6	1431588.8	3501497.2
3	8:49:24 AM	49410.580	403705.77	54469.359	69931.274	790885.04	170497.29	4173094.7	1772191.8	1430049.0	3472484.2
4	8:49:30 AM	49893.205	406280.06	56307.172	68960.568	804549.55	170660.31	4166744.4	1755600.4	1434506.2	3511096.5
5	8:49:36 AM	48760.417	408848.10	55374.805	68429.914	791015.71	170127.12	4123600.4	1755648.5	1428575.3	3482513.4
x		49676.037	405515.39	55408.361	68775.193	793350.95	169740.04	4143343.3	1754192.0	1428621.8	3492709.7
σ		603.80	2938.66	666.04	705.04	6526.66	1157.32	24424.40	13410.19	6126.95	15320.56
%RSD		1.2155	0.7247	1.2020	1.0251	0.8227	0.6818	0.5895	0.7645	0.4289	0.4386

Result : The performance report passed.

Fully Quant Calibration

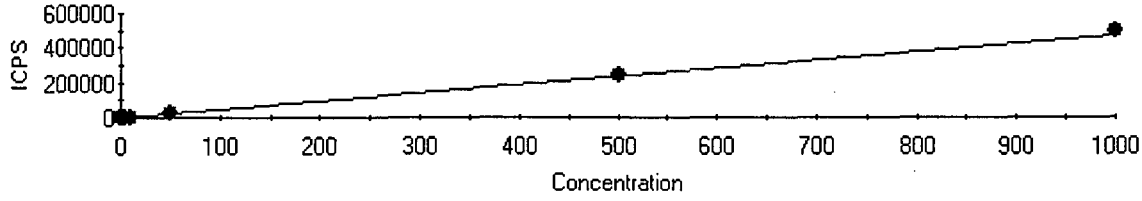
9Be FQ Block 1



Intercept CPS=17.477925 Intercept Conc=0.039358
Sensitivity=444.071797 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	-0.002	0.002	16.64	0.00
SEQ-CAL3@S	1.000	0.989	0.011	456.81	1.07
SEQ-CAL4@S	10.000	10.164	0.164	4531.10	1.64
SEQ-CAL5@S	50.000	51.103	1.103	22710.77	2.21
SEQ-CAL6@S	500.000	502.181	2.181	223021.69	0.44
SEQ-CAL7@S	1000.000	987.847	12.153	438692.35	1.22

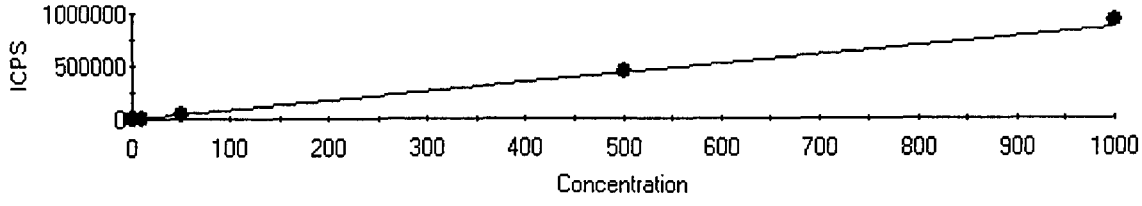
51V FQ Block 1



Intercept CPS=793.848239 Intercept Conc=1.685899
Sensitivity=470.875424 Correlation Coeff=0.999861

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	-0.028	0.028	780.61	0.00
SEQ-CAL3@S	5.000	5.107	0.107	3198.61	2.14
SEQ-CAL4@S	10.000	9.899	0.101	5455.03	1.01
SEQ-CAL5@S	50.000	48.652	1.348	23702.66	2.70
SEQ-CAL6@S	500.000	506.819	6.819	239442.53	1.36
SEQ-CAL7@S	1000.000	1050.859	50.859	495617.70	5.09

52Cr FQ Block 1

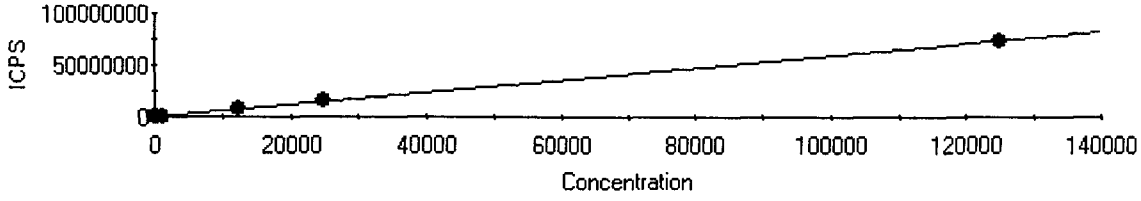


Intercept CPS=80.214222 Intercept Conc=0.093649
Sensitivity=856.544324 Correlation Coeff=0.999883

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.002	0.002	81.78	0.00
SEQ-CAL3@S	2.000	1.915	0.085	1720.68	4.24
SEQ-CAL4@S	10.000	10.053	0.053	8691.33	0.53

SEQ-CAL5@S	50.000	49.834	0.166	42764.91	0.33
SEQ-CAL6@S	500.000	519.999	19.999	445482.18	4.00
SEQ-CAL7@S	1000.000	1074.944	74.944	920817.04	7.49

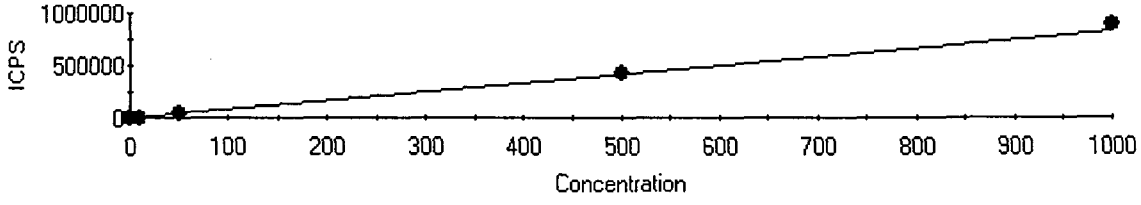
54Fe FQ Block 1



Intercept CPS=13414.942219 Intercept Conc=22.722257
Sensitivity=590.387763 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.493	0.493	13706.00	0.00
SEQ-CAL3@S	200.000	199.801	0.199	131374.99	0.10
SEQ-CAL4@S	250.000	258.738	8.738	166170.68	3.50
SEQ-CAL5@S	1250.000	1283.719	33.719	771307.06	2.70
SEQ-CAL6@S	12500.000	12558.854	58.854	7428008.69	0.47
SEQ-CAL7@S	25000.000	24951.550	48.450	14744504.77	0.19
SEQ-CAL9@S	125000.000	123207.613	1792.387	72753682.01	1.43

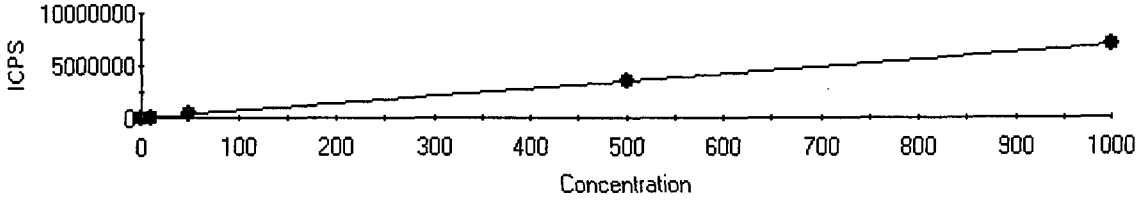
55Mn FQ Block 1



Intercept CPS=67.223961 Intercept Conc=0.081127
Sensitivity=828.623320 Correlation Coeff=0.999908

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.013	0.013	77.82	0.00
SEQ-CAL3@S	1.000	0.960	0.040	862.87	3.98
SEQ-CAL4@S	10.000	10.100	0.100	8436.71	1.00
SEQ-CAL5@S	50.000	49.075	0.925	40731.68	1.85
SEQ-CAL6@S	500.000	520.208	20.208	431124.10	4.04
SEQ-CAL7@S	1000.000	1071.145	71.145	887643.11	7.11

59Co FQ Block 1

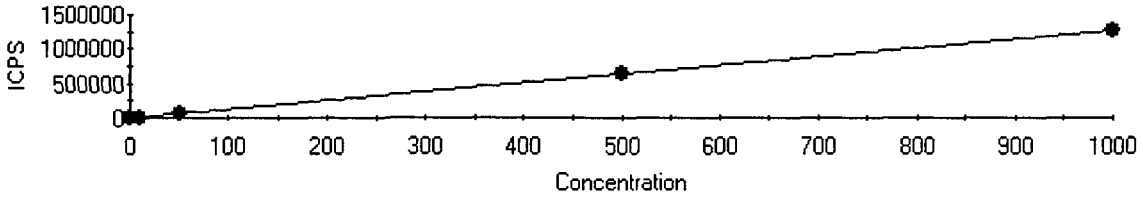


Intercept CPS=238.606397 Intercept Conc=0.034396
Sensitivity=6937.136295 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error

SEQ-CAL1@S0	0.000	0.007	0.007	289.91	0.00
SEQ-CAL3@S	1.000	0.953	0.047	6849.26	4.71
SEQ-CAL4@S	10.000	10.251	0.251	71353.30	2.51
SEQ-CAL5@S	50.000	50.459	0.459	350276.88	0.92
SEQ-CAL6@S	500.000	499.769	0.231	3467205.73	0.05
SEQ-CAL7@S	1000.000	997.422	2.578	6919490.48	0.26

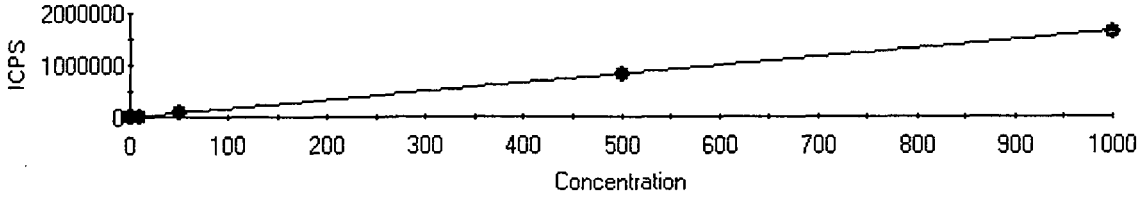
60Ni FQ Block 1



Intercept CPS=86.387684 Intercept Conc=0.067885
Sensitivity=1272.556183 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	-0.002	0.002	84.43	0.00
SEQ-CAL3@S	1.000	0.990	0.010	1346.07	1.01
SEQ-CAL4@S	10.000	10.341	0.341	13245.80	3.41
SEQ-CAL5@S	50.000	50.472	0.472	64314.25	0.94
SEQ-CAL6@S	500.000	497.963	2.037	633772.88	0.41
SEQ-CAL7@S	1000.000	987.017	12.983	1256121.58	1.30

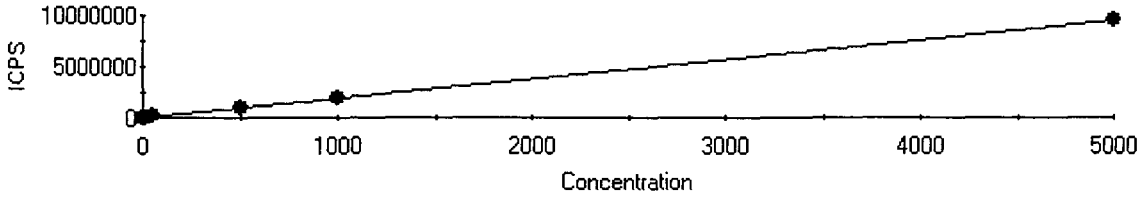
65Cu FQ Block 1



Intercept CPS=283.579352 Intercept Conc=0.171888
Sensitivity=1649.790113 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	-0.006	0.006	273.30	0.00
SEQ-CAL3@S	2.000	2.058	0.058	3679.50	2.92
SEQ-CAL4@S	10.000	10.389	0.389	17423.50	3.89
SEQ-CAL5@S	50.000	50.513	0.513	83619.98	1.03
SEQ-CAL6@S	500.000	496.995	3.005	820220.29	0.60
SEQ-CAL7@S	1000.000	982.617	17.383	1621395.22	1.74

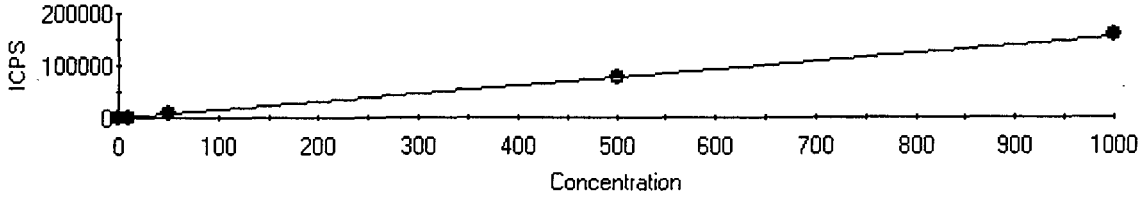
66Zn FQ Block 1



Intercept CPS=464.497134 Intercept Conc=0.245090
Sensitivity=1895.209550 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	-0.014	0.014	437.84	0.00
SEQ-CAL3@S	2.000	2.026	0.026	4303.28	1.28
SEQ-CAL4@S	10.000	10.600	0.600	20553.66	6.00
SEQ-CAL5@S	50.000	51.309	1.309	97706.44	2.62
SEQ-CAL6@S	500.000	513.441	13.441	973542.14	2.69
SEQ-CAL7@S	1000.000	1008.279	8.279	1911364.46	0.83
SEQ-CAL8@S	5000.000	4990.994	9.006	9459443.97	0.18

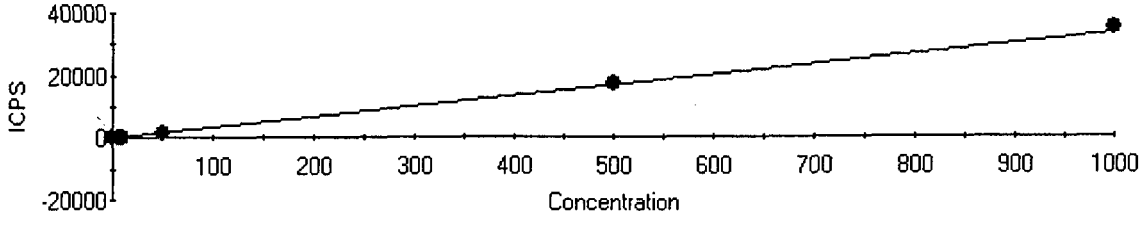
75As FQ Block 1



Intercept CPS=10.405926 Intercept Conc=0.068153
Sensitivity=152.685231 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.017	0.017	12.98	0.00
SEQ-CAL3@S	1.000	0.910	0.090	149.38	8.98
SEQ-CAL4@S	10.000	10.076	0.076	1548.90	0.76
SEQ-CAL5@S	50.000	49.257	0.743	7531.20	1.49
SEQ-CAL6@S	500.000	505.760	5.760	77232.47	1.15
SEQ-CAL7@S	1000.000	1021.489	21.489	155976.61	2.15

78Se FQ Block 1

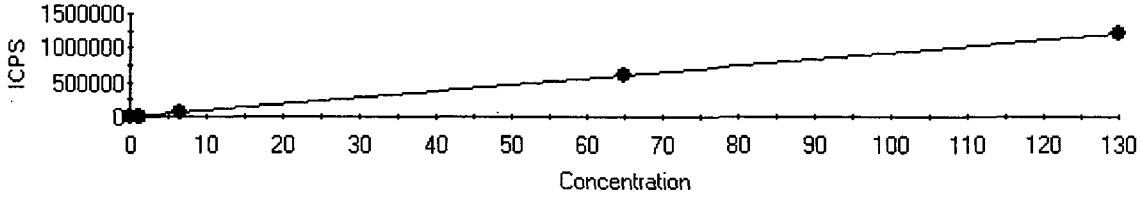


Intercept CPS=-1.040041 Intercept Conc=-0.030783
Sensitivity=33.786585 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.129	0.129	3.33	0.00
SEQ-CAL3@S	5.000	4.782	0.218	160.53	4.36
SEQ-CAL4@S	10.000	10.495	0.495	353.55	4.95
SEQ-CAL5@S	50.000	51.457	1.457	1737.51	2.91

SEQ-CAL6@S	500.000	513.006	13.006	17331.67	2.60
SEQ-CAL7@S	1000.000	1027.459	27.459	34713.30	2.75

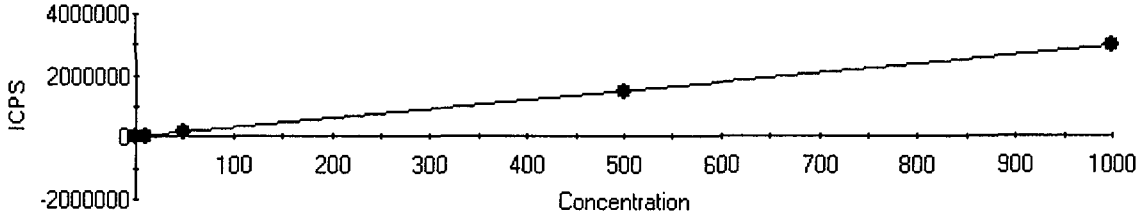
107Ag FQ Block 1



Intercept CPS=20.757598 Intercept Conc=0.002238
Sensitivity=9276.727966 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.000	0.000	24.45	0.00
SEQ-CAL3@S	1.000	0.979	0.021	9106.25	2.06
SEQ-CAL4@S	1.300	1.343	0.043	12480.62	3.32
SEQ-CAL5@S	6.500	6.594	0.094	61186.96	1.44
SEQ-CAL6@S	65.000	65.404	0.404	606755.07	0.62
SEQ-CAL7@S	130.000	129.169	0.831	1198288.43	0.64

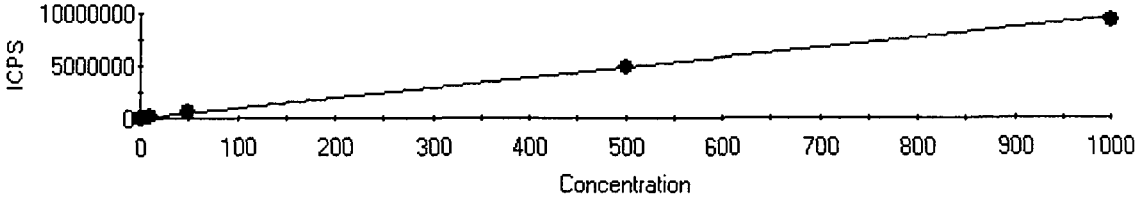
111Cd FQ Block 1



Intercept CPS=-17.820512 Intercept Conc=-0.006071
Sensitivity=2935.187068 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.043	0.043	108.64	0.00
SEQ-CAL2@S	0.200	0.197	0.003	560.11	1.55
SEQ-CAL3@S	1.000	0.963	0.037	2809.13	3.69
SEQ-CAL4@S	10.000	9.989	0.011	29302.23	0.11
SEQ-CAL5@S	50.000	48.966	1.034	143707.64	2.07
SEQ-CAL6@S	500.000	505.514	5.514	1483759.73	1.10
SEQ-CAL7@S	1000.000	1017.175	17.175	2985582.42	1.72

121Sb FQ Block 1

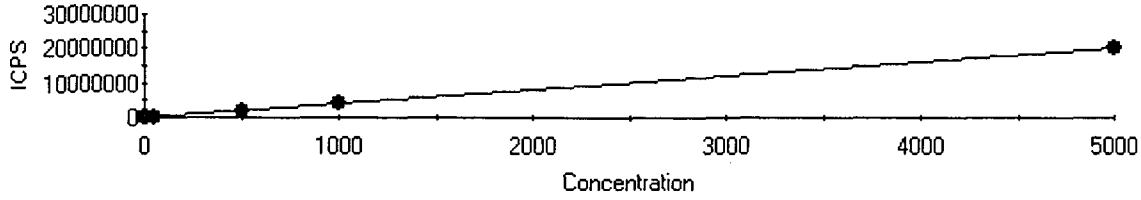


Intercept CPS=5377.179674 Intercept Conc=0.564066
Sensitivity=9532.883110 Correlation Coeff=0.999822

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.013	0.013	5498.38	0.00

SEQ-CAL3@S	2.000	1.895	0.105	23438.92	5.27
SEQ-CAL4@S	10.000	10.205	0.205	102657.62	2.05
SEQ-CAL5@S	50.000	50.138	0.138	483341.24	0.28
SEQ-CAL6@S	500.000	498.820	1.180	4760573.31	0.24
SEQ-CAL7@S	1000.000	958.824	41.176	9145737.68	4.12

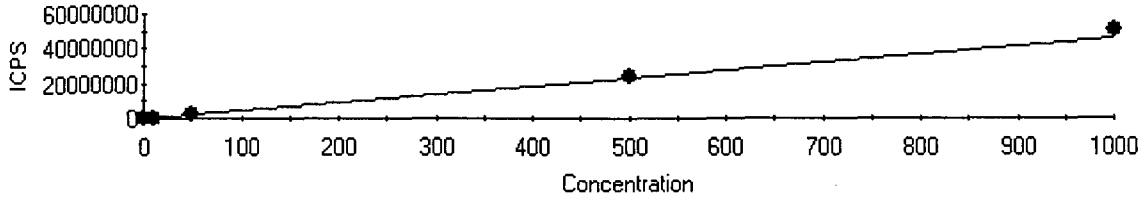
137Ba FQ Block 1



Intercept CPS=204.834456 Intercept Conc=0.050686
Sensitivity=4041.279812 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.002	0.002	211.03	0.00
SEQ-CAL4@S	10.000	9.771	0.229	39693.02	2.29
SEQ-CAL5@S	50.000	47.812	2.188	193425.34	4.38
SEQ-CAL6@S	500.000	496.749	3.251	2007705.09	0.65
SEQ-CAL7@S	1000.000	971.916	28.084	3927989.31	2.81
SEQ-CAL8@S	5000.000	5001.116	1.116	20211112.90	0.02

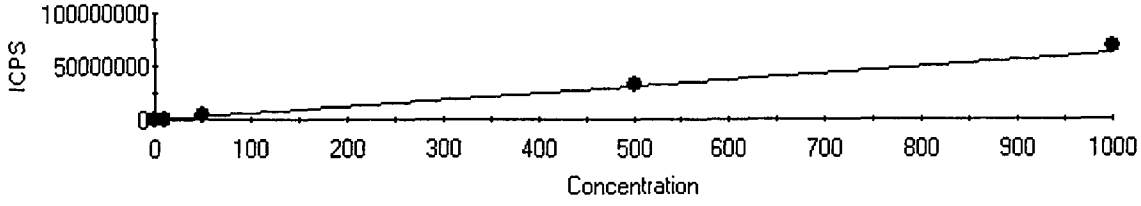
205Tl FQ Block 1



Intercept CPS=2116.693391 Intercept Conc=0.045368
Sensitivity=46655.702962 Correlation Coeff=0.999911

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.010	0.010	2561.47	0.00
SEQ-CAL3@S	1.000	0.899	0.101	44047.63	10.13
SEQ-CAL4@S	10.000	9.719	0.281	455563.71	2.81
SEQ-CAL5@S	50.000	50.070	0.070	2338158.27	0.14
SEQ-CAL6@S	500.000	527.186	27.186	24598359.10	5.44
SEQ-CAL7@S	1000.000	1085.241	85.241	50634777.39	8.52

208Pb FQ Block 1



Intercept CPS=3071.292658 Intercept Conc=0.049202
Sensitivity=62421.605255 Correlation Coeff=0.999956

Label	Defined	Measured	Error	Mean CPS	% Error
SEQ-CAL1@S0	0.000	0.001	0.001	3103.57	0.00
SEQ-CAL3@S	1.000	0.895	0.105	58960.44	10.47
SEQ-CAL4@S	10.000	9.875	0.125	619499.32	1.25
SEQ-CAL5@S	50.000	49.924	0.076	3119434.12	0.15
SEQ-CAL6@S	500.000	521.102	21.102	32531080.95	4.22
SEQ-CAL7@S	1000.000	1063.307	63.307	66376401.75	6.33

Dilution Corrected Concentrations

SEQ-CAL1@S0 5/23/2012 9:00:22 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:38	99.4%	-0.0243	100.4%	0.0295	-0.0247	-0.0008	-7.5570	0.1579	0.0358	0.0025	0.0079	-0.0004	-0.0291	0.0194	0.0040	0.1956	0.0338	-0.4000
2	09:00:54	100.3%	0.0130	101.0%	-0.0302	0.0420	0.0046	22.6500	0.4984	0.0042	0.0149	-0.0053	0.0014	-0.0083	0.0274	-0.0077	0.0640	0.0152	-0.2477
3	09:01:09	100.4%	0.0056	98.6%	0.0007	-0.1016	0.0017	-15.0900	0.8226	-0.0017	0.0048	-0.0072	-0.0196	-0.0048	0.0037	0.0038	0.1282	-0.0490	0.6478
x		100.0%	-0.0019	100.0%	0.0000	-0.0281	0.0018	-0.0000	0.4930	0.0128	0.0074	-0.0015	-0.0062	-0.0141	0.0168	0.0000	0.1293	0.0000	0.0000
σ		0.5%	0.0197	1.2%	0.0298	0.0719	0.0027	19.9700	0.3324	0.0202	0.0066	0.0082	0.0116	0.0131	0.0121	0.0067	0.0658	0.0434	0.5661
%RSD		0.5	1046.0000	1.2	0.0000	255.6000	147.7000	0.0000	67.4200	157.7000	88.6800	535.2000	186.6000	93.4000	71.5500	0.0000	50.9200	0.0000	0.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:38	99.9%	-0.0002	-0.0081	-0.0039	-0.0003	-0.0046	99.7%	0.0017	0.0017	-0.0004	0.0379	-0.0061	-0.0068	99.5%	99.1%	0.0109	-0.0001	100.1%
2	09:00:54	99.5%	-0.0007	0.0025	-0.0016	-0.0014	0.0050	99.0%	0.0040	-0.0004	-0.0004	0.0334	0.0307	0.0039	99.8%	100.8%	0.0104	0.0009	99.9%
3	09:01:09	100.6%	0.0009	0.0056	0.0055	0.0017	-0.0005	101.3%	-0.0057	-0.0001	0.0009	0.0579	0.0136	0.0075	100.6%	100.1%	0.0072	0.0008	100.0%
x		100.0%	0.0000	-0.0000	-0.0000	0.0000	-0.0000	100.0%	-0.0000	0.0004	-0.0000	0.0431	0.0127	0.0015	100.0%	100.0%	0.0095	0.0005	100.0%
σ		0.6%	0.0008	0.0072	0.0049	0.0016	0.0048	1.1%	0.0051	0.0012	0.0008	0.0131	0.0184	0.0075	0.6%	0.8%	0.0020	0.0005	0.1%
%RSD		0.6	0.0000	0.0000	0.0000	0.0000	0.0000	1.1	0.0000	291.2000	0.0000	30.3200	144.8000	485.9000	0.6	0.8	20.9900	105.7000	0.1

SEQ-CAL2@5 5/23/2012 9:04:41 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:04:57	99.8%	0.1862	99.6%	-0.0148	0.9161	0.3086	40.6300	38.7700	0.1144	0.1616	0.1637	0.3094	1.5040	0.2567	0.0618	0.7485	0.0333	-0.5487
2	09:05:13	100.5%	0.1701	98.2%	-0.0104	1.0530	0.3355	6.2520	40.4400	0.1748	0.1586	0.1632	0.3007	1.5850	0.1670	0.0158	0.9606	-0.0032	0.2089
3	09:05:29	100.5%	0.1627	98.5%	0.0009	1.0180	0.3269	15.7700	39.0900	0.1007	0.1617	0.1581	0.3613	1.5280	0.1320	0.0152	1.3560	0.0425	-0.3937
x		100.3%	0.1730	98.8%	-0.0081	0.9959	0.3237	20.8900	39.4300	0.1300	0.1606	0.1617	0.3238	1.5390	0.1852	0.0309	1.0220	0.0242	-0.2445
σ		0.4%	0.0121	0.8%	0.0081	0.0713	0.0137	17.7500	0.8847	0.0394	0.0018	0.0031	0.0328	0.0420	0.0643	0.0267	0.3081	0.0242	0.4002
%RSD		0.4	6.9660	0.8	99.7300	7.1550	4.2420	84.9900	2.2430	30.3400	1.0960	1.9010	10.1300	2.7270	34.7100	86.3100	30.1600	100.1000	163.7000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:04:57	99.3%	-0.0056	-0.0222	-0.0197	-0.0096	-0.0303	100.8%	-0.0002	0.1819	0.0090	0.1913	0.3126	1.7420	99.3%	99.7%	0.1441	0.1419	100.2%
2	09:05:13	99.5%	-0.0032	-0.0228	-0.0169	-0.0074	-0.0305	99.0%	0.0004	0.1936	0.0069	0.1918	0.3461	1.7360	100.0%	100.7%	0.1474	0.1434	99.6%
3	09:05:29	98.6%	-0.0055	-0.0221	-0.0203	-0.0079	-0.0222	101.8%	0.0042	0.1882	0.0070	0.2076	0.3334	1.7340	100.4%	99.9%	0.1518	0.1414	99.3%
x		99.2%	-0.0047	-0.0223	-0.0189	-0.0083	-0.0276	100.5%	0.0015	0.1879	0.0076	0.1969	0.3307	1.7370	99.9%	100.1%	0.1478	0.1422	99.7%
σ		0.5%	0.0014	0.0004	0.0018	0.0011	0.0047	1.4%	0.0024	0.0059	0.0012	0.0093	0.0169	0.0043	0.6%	0.5%	0.0039	0.0011	0.5%
%RSD		0.5	28.9300	1.5850	9.5500	13.8200	17.1700	1.4	164.2000	3.1200	15.2900	4.7130	5.1200	0.2454	0.6	0.5	2.6100	0.7405	0.5

SEQ-CAL3@5 5/23/2012 9:09:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:09:17	99.4%	0.8911	97.3%	0.0054	5.1540	1.8960	224.0000	199.9000	1.0020	0.9395	1.0660	2.0010	2.0430	0.9041	0.1105	4.8240	0.1870	0.0722
2	09:09:33	99.7%	0.9938	97.9%	-0.0064	5.0520	1.9170	214.6000	199.9000	0.9521	0.9487	0.9336	2.0810	2.0620	0.9400	0.2285	4.6860	0.2627	-0.0867
3	09:09:49	99.0%	1.0830	98.5%	-0.0408	5.1150	1.9330	211.0000	199.6000	0.9265	0.9706	0.9701	2.0930	1.9720	0.8866	0.2245	4.8360	0.2494	0.2194
x		99.4%	0.9893	97.9%	-0.0140	5.1070	1.9150	216.5000	199.8000	0.9602	0.9529	0.9899	2.0580	2.0260	0.9102	0.1878	4.7820	0.2330	0.0683
σ		0.3%	0.0961	0.6%	0.0240	0.0515	0.0181	6.7110	0.1724	0.0384	0.0160	0.0684	0.0498	0.0475	0.0272	0.0670	0.0830	0.0404	0.1531
%RSD		0.3	9.7110	0.6	172.1000	1.0090	0.9448	3.1000	0.0863	3.9980	1.6780	6.9100	2.4190	2.3450	2.9900	35.6700	1.7360	17.3500	224.2000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:09:17	97.8%	-0.0079	-0.0251	-0.0185	-0.0100	-0.0298	98.8%	0.0456	0.9731	0.0369	0.9664	1.8990	9.3610	100.6%	100.7%	0.9067	0.9046	99.9%
2	09:09:33	98.4%	-0.0055	-0.0251	-0.0151	-0.0123	-0.0252	98.9%	0.0337	0.9787	0.0360	0.9485	1.8550	9.3130	100.5%	101.0%	0.8951	0.8906	99.2%
3	09:09:49	98.3%	-0.0073	-0.0221	-0.0191	-0.0095	-0.0259	100.6%	0.0352	0.9863	0.0348	0.9744	1.9300	9.2340	100.1%	100.0%	0.8944	0.8909	99.6%
x		98.2%	-0.0069	-0.0241	-0.0176	-0.0106	-0.0269	99.4%	0.0382	0.9794	0.0359	0.9631	1.8950	9.3030	100.4%	100.6%	0.8987	0.8953	99.6%
σ		0.3%	0.0013	0.0017	0.0022	0.0015	0.0025	1.0%	0.0065	0.0066	0.0011	0.0133	0.0376	0.0641	0.2%	0.6%	0.0069	0.0080	0.3%
%RSD		0.3	18.2000	7.1020	12.2800	13.9700	9.2330	1.0	16.9400	0.6732	2.9980	1.3780	1.9840	0.6888	0.2	0.5	0.7694	0.8917	0.3

SEQ-CAL4@5 5/23/2012 9:13:22 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:37	100.7%	9.9320	100.0%	0.0112	9.9030	9.9780	1147.0000	255.0000	10.3300	10.0600	10.4100	10.3900	10.5800	10.1800	0.3877	11.3600	0.4644	-0.4011
2	09:13:53	100.2%	10.1300	99.5%	-0.0110	9.8390	10.0500	1131.0000	261.0000	9.7850	10.3900	10.4200	10.5300	10.5200	10.0900	0.2235	10.1200	0.4247	-0.2481
3	09:14:09	99.9%	10.4300	99.4%	0.0190	9.9550	10.1300	1130.0000	260.3000	10.1800	10.3100	10.2000	10.2500	10.7000	9.9640	0.4494	10.0000	0.5673	-0.0972
x		100.3%	10.1600	99.6%	0.0064	9.8990	10.0500	1136.0000	258.7000	10.1000	10.2500	10.3400	10.3900	10.6000	10.0800	0.3536	10.4900	0.4855	-0.2488
σ		0.4%	0.2513	0.3%	0.0156	0.0584	0.0746	9.3690	3.2820	0.2829	0.1689	0.1261	0.1398	0.0945	0.1068	0.1168	0.7505	0.0736	0.1519
%RSD		0.4	2.4720	0.3	243.7000	0.5894	0.7421	0.8247	1.2680	2.8010	1.6470	1.2200	1.3450	0.8912	1.0600	33.0300	7.1510	15.1600	61.0600

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:13:37	100.3%	0.0064	-0.0222	-0.0169	-0.0140	-0.0295	100.4%	0.5289	1.3580	0.3858	9.9550	10.1300	9.6210	102.0%	101.5%	9.6980	9.8350	101.3%
2	09:13:53	99.8%	-0.0038	-0.0228	-0.0220	-0.0113	-0.0313	101.0%	0.5435	1.3240	0.3665	9.9540	10.2100	9.9080	102.7%	102.0%	9.7040	9.9060	101.6%
3	09:14:09	99.8%	-0.0026	-0.0234	-0.0192	-0.0069	-0.0285	102.2%	0.5300	1.3470	0.3828	10.0600	10.2800	9.7840	101.7%	101.5%	9.7560	9.8840	102.1%
x		99.9%	-0.0000	-0.0228	-0.0194	-0.0107	-0.0298	101.2%	0.5342	1.3430	0.3784	9.9890	10.2000	9.7710	102.1%	101.7%	9.7190	9.8750	101.7%
σ		0.3%	0.0056	0.0006	0.0025	0.0036	0.0014	0.9%	0.0081	0.0173	0.0104	0.0605	0.0747	0.1441	0.5%	0.3%	0.0320	0.0364	0.4%
%RSD		0.3	26450.0000	2.5120	13.0600	33.4400	4.7880	0.9	1.5240	1.2850	2.7390	0.6052	0.7322	1.4750	0.5	0.3	0.3293	0.3686	0.4

SEQ-CAL5@S 5/23/2012 9:17:39 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:17:55	100.1%	51.4200	97.9%	-0.0217	48.6000	49.6600	5405.0000	1280.0000	48.9500	50.2500	50.2400	50.1600	51.1900	49.3600	1.8780	51.5300	2.3160	-0.0963
2	09:18:10	98.3%	51.4300	98.4%	0.0047	49.1700	50.2300	5282.0000	1281.0000	48.7700	50.2400	50.3000	50.4300	50.6200	48.5400	1.8630	50.0500	2.4720	-0.5484
3	09:18:26	98.4%	50.4600	98.6%	-0.0106	48.1900	49.6200	5519.0000	1289.0000	49.5100	50.8900	50.8700	50.9500	52.1200	49.8700	1.7480	52.8000	2.4210	0.8301
x		98.9%	51.1000	98.3%	-0.0092	48.6500	49.8300	5402.0000	1284.0000	49.0700	50.4600	50.4700	50.5100	51.3100	49.2600	1.8300	51.4600	2.4030	0.0618
σ		1.0%	0.5591	0.4%	0.0132	0.4900	0.3402	118.4000	4.8600	0.3893	0.3705	0.3468	0.4003	0.7549	0.6711	0.0707	1.3740	0.0791	0.7027
%RSD		1.0	1.0940	0.4	144.0000	1.0070	0.6826	2.1920	0.3786	0.7933	0.7343	0.6872	0.7926	1.4710	1.3630	3.8650	2.6710	3.2930	1138.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:17:55	99.9%	-0.0068	-0.0239	-0.0186	-0.0140	-0.0271	99.8%	2.6510	6.5420	1.8510	48.5000	49.7000	47.4800	100.5%	101.9%	49.9100	49.7100	101.2%
2	09:18:10	99.4%	-0.0044	-0.0216	-0.0163	-0.0085	-0.0275	99.9%	2.6770	6.5880	1.8970	48.9800	50.1000	47.7600	100.9%	100.7%	50.0700	49.8100	100.9%
3	09:18:26	98.4%	-0.0055	-0.0233	-0.0134	-0.0106	-0.0310	99.8%	2.6050	6.6500	1.8490	49.4200	50.6100	48.2000	101.2%	100.9%	50.2400	50.2600	100.0%
x		99.2%	-0.0056	-0.0229	-0.0161	-0.0110	-0.0286	99.8%	2.6440	6.5940	1.8650	48.9700	50.1400	47.8100	100.9%	101.2%	50.0700	49.9200	100.7%
σ		0.8%	0.0012	0.0012	0.0026	0.0028	0.0021	0.1%	0.0360	0.0543	0.0270	0.4615	0.4546	0.3627	0.3%	0.6%	0.1645	0.2911	0.6%
%RSD		0.8	22.2000	5.3220	16.2600	25.1300	7.3550	0.1	1.3620	0.8236	1.4480	0.9426	0.9067	0.7586	0.3	0.6	0.3286	0.5831	0.6

SEQ-CAL6@S 5/23/2012 9:21:57 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:13	91.8%	504.6000	90.7%	0.0102	501.1000	516.2000	55490.0000	τ12390.0000	518.1000	τ492.3000	494.3000	493.8000	508.7000	497.3000	17.7100	505.3000	24.1100	2.7740
2	09:22:29	91.8%	504.2000	89.9%	0.0357	505.5000	516.0000	55360.0000	τ12670.0000	512.3000	τ501.3000	501.1000	498.8000	515.4000	502.5000	19.0300	505.8000	23.7100	1.3100
3	09:22:45	92.3%	497.8000	89.9%	-0.0099	513.9000	527.8000	56730.0000	τ12620.0000	530.3000	τ505.7000	498.5000	498.4000	516.2000	517.5000	19.1000	527.9000	25.2900	1.6650
x		92.0%	502.2000	90.2%	0.0120	506.8000	520.0000	55860.0000	τ12560.0000	520.2000	τ499.8000	498.0000	497.0000	513.4000	505.8000	18.6100	513.0000	24.3700	1.9170
σ		0.3%	3.8420	0.5%	0.0229	6.5030	6.7880	755.5000	τ147.2000	9.2010	τ6.8640	3.3980	2.7710	4.1260	10.4600	0.7824	12.8900	0.8231	0.7639
%RSD		0.3	0.7650	0.5	191.2000	1.2830	1.3050	1.3520	τ1.1720	1.7690	τ1.3740	0.6823	0.5575	0.8036	2.0670	4.2040	2.5120	3.3770	39.8600

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:22:13	91.4%	-0.0066	-0.0147	0.0102	-0.0070	-0.0174	90.1%	25.8800	64.8300	18.2800	504.0000	τ494.9000	τ490.8000	94.9%	95.5%	τ525.2000	τ518.3000	91.9%
2	09:22:29	90.6%	0.0034	-0.0140	0.0155	-0.0039	-0.0127	89.9%	25.8800	65.7100	18.6900	503.8000	τ501.4000	τ497.5000	94.5%	95.3%	τ529.4000	τ521.9000	91.4%
3	09:22:45	89.6%	0.0023	-0.0151	0.0071	-0.0037	-0.0155	87.8%	26.5400	65.6700	18.4700	508.7000	τ500.2000	τ501.9000	93.1%	94.9%	τ526.9000	τ523.1000	90.7%
x		90.5%	-0.0003	-0.0146	0.0109	-0.0048	-0.0152	89.2%	26.1000	65.4000	18.4800	505.5000	τ498.8000	τ496.7000	94.2%	95.2%	τ527.2000	τ521.1000	91.3%
σ		0.9%	0.0055	0.0006	0.0042	0.0018	0.0024	1.3%	0.3834	0.4994	0.2016	2.7930	τ3.4280	τ5.6000	1.0%	0.3%	τ2.1180	τ2.5030	0.6%
%RSD		1.0	1918.0000	4.0110	38.6100	38.0500	15.7200	1.4	1.4690	0.7636	1.0910	0.5525	τ0.6873	τ1.1270	1.0	0.3	τ0.4018	τ0.4803	0.7

SEQ-CAL7@S 5/23/2012 9:26:17 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83K
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppl
1	09:26:32	89.3%	980.9000	87.4%	0.0385	μ1044.0000	μ1062.0000	112600.0000	τ24810.0000	μ1054.0000	τ990.4000	981.1000	972.4000	999.9000	μ1011.0000	35.5800	μ1007.0000	47.6900	4.985
2	09:26:48	89.0%	988.6000	87.8%	0.0678	μ1043.0000	μ1070.0000	114400.0000	τ24970.0000	μ1068.0000	TM1001.0000	993.8000	985.9000	1014.0000	μ1016.0000	37.1100	μ1028.0000	49.5200	2.958
3	09:27:04	88.4%	994.1000	88.0%	0.0208	μ1066.0000	μ1093.0000	116700.0000	τ25070.0000	μ1091.0000	TM1001.0000	986.2000	989.6000	1011.0000	μ1037.0000	36.5500	μ1047.0000	52.0600	3.843
x		88.9%	987.8000	87.7%	0.0424	μ1051.0000	μ1075.0000	114600.0000	τ24950.0000	μ1071.0000	TM997.4000	987.0000	982.6000	1008.0000	μ1021.0000	36.4100	μ1027.0000	49.7600	3.929
σ		0.5%	6.6470	0.3%	0.0237	μ13.1200	μ16.4500	2063.0000	τ131.1000	μ18.8400	TM6.1260	6.3700	9.0830	7.3140	μ13.9500	0.7722	μ19.5800	2.1950	1.016
%RSD		0.6	0.6728	0.4	56.0200	μ1.2480	μ1.5300	1.8010	τ0.5255	μ1.7590	TM0.6142	0.6454	0.9244	0.7254	μ1.3650	2.1200	μ1.9050	4.4120	25.870

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209B
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppl
1	09:26:32	87.7%	0.0247	-0.0063	0.0377	-0.0009	0.0028	87.1%	50.1300	127.1000	35.5000	μ1007.0000	τ949.4000	τ959.7000	τ94.6%	91.2%	TM1077.0000	TM1055.0000	86.1%
2	09:26:48	86.7%	0.0209	0.0040	0.0383	-0.0014	0.0035	86.7%	51.2900	129.1000	35.8300	μ1016.0000	τ951.7000	τ962.9000	τ94.8%	91.2%	TM1089.0000	TM1072.0000	85.5%
3	09:27:04	86.3%	0.0219	0.0056	0.0435	0.0057	0.0038	85.3%	51.9300	μ131.3000	36.4500	μ1029.0000	τ975.3000	τ993.2000	90.4%	91.7%	TM1090.0000	TM1063.0000	85.5%
x		86.9%	0.0225	0.0011	0.0398	0.0011	0.0034	86.4%	51.1200	μ129.2000	35.9200	μ1017.0000	τ958.8000	τ971.9000	τ93.3%	91.3%	TM1085.0000	TM1063.0000	85.7%
σ		0.7%	0.0019	0.0064	0.0031	0.0040	0.0005	0.9%	0.9152	μ2.0600	0.4810	μ11.2600	τ14.3200	τ18.5000	τ2.5%	0.3%	TM7.0750	TM8.1890	0.3%
%RSD		0.8	8.6340	580.3000	7.9030	352.7000	14.2700	1.1	1.7900	μ1.5950	1.3390	μ1.1070	τ1.4930	τ1.9030	τ2.7	0.3	TM0.6519	TM0.7702	0.

SEQ-CAL8@S 5/23/2012 9:30:37 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:53	95.9%	0.0782	94.0%	-0.0161	-0.8888	-0.0108	-206.3000	3.5370	TM5237.0000	0.0460	0.0125	0.9770	τ4986.0000	0.0510	0.0042	0.1654	0.0824	-0.5352
2	09:31:09	95.5%	0.1022	95.4%	0.0263	-0.8131	-0.0224	-201.3000	3.5300	TM5291.0000	0.0442	0.0475	0.9237	τ4990.0000	0.0366	-0.0077	0.3351	-0.0421	0.2538
3	09:31:25	95.9%	0.0624	95.7%	0.0065	-0.8602	-0.0391	-238.1000	3.5890	TM5247.0000	0.0383	0.0250	0.8850	τ4997.0000	-0.0386	-0.0077	0.0975	-0.0417	0.0864
x		95.8%	0.0809	95.1%	0.0055	-0.8540	-0.0241	-215.2000	3.5520	TM5258.0000	0.0428	0.0283	0.9286	τ4991.0000	0.0163	-0.0038	0.1994	-0.0005	-0.0650
σ		0.2%	0.0200	0.9%	0.0212	0.0382	0.0143	19.9900	0.0321	TM28.4600	0.0040	0.0177	0.0462	τ5.7560	0.0481	0.0069	0.1223	0.0717	0.4157
%RSD		0.3	24.7300	0.9	382.9000	4.4730	59.0800	9.2890	0.9047	TM0.5412	9.4410	62.5300	4.9770	τ0.1153	294.6000	183.4000	61.3700	15240.0000	639.5000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:30:53	95.3%	-0.0058	-0.0054	-0.0183	-0.0097	-0.0282	97.7%	0.0257	0.0210	0.0093	0.0911	1.1720	τ4998.0000	97.8%	98.3%	0.6798	0.0417	98.4%
2	09:31:09	95.2%	-0.0039	-0.0134	-0.0172	-0.0057	-0.0282	97.3%	0.0220	0.0229	0.0128	0.0840	1.1940	TM5002.0000	98.0%	97.3%	0.6687	0.0293	98.6%
3	09:31:25	96.3%	-0.0059	-0.0184	-0.0190	-0.0104	-0.0308	98.5%	0.0251	0.0193	0.0051	0.0646	1.1970	TM5002.0000	98.5%	97.9%	0.6281	0.0266	98.7%
x		95.6%	-0.0052	-0.0124	-0.0182	-0.0086	-0.0291	97.8%	0.0243	0.0210	0.0091	0.0799	1.1880	TM5001.0000	98.1%	97.8%	0.6589	0.0325	98.6%
σ		0.6%	0.0011	0.0065	0.0009	0.0025	0.0015	0.6%	0.0020	0.0018	0.0039	0.0137	0.0137	TM2.2770	0.3%	0.5%	0.0272	0.0081	0.2%
%RSD		0.6	21.9700	52.6400	5.1060	29.2100	5.1140	0.7	8.1180	8.5040	42.5600	17.1800	1.1570	TM0.0455	0.3	0.5	4.1280	24.7800	0.2

SEQ-ICV@ICV01 5/23/2012 9:39:22 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:38	90.6%	104.9000	89.4%	-0.0222	99.6300	101.7000	10640.0000	1103.0000	102.0000	105.5000	106.2000	105.2000	211.4000	204.6000	7.2970	210.0000	10.1600	1.2860
2	09:39:54	91.4%	103.2000	90.9%	0.0223	98.6100	100.3000	10470.0000	1097.0000	99.1900	104.9000	105.3000	104.1000	207.2000	201.6000	7.3640	205.2000	9.4400	0.2931
3	09:40:09	91.6%	102.7000	91.0%	0.0140	98.8700	101.1000	10620.0000	1099.0000	101.3000	104.7000	105.4000	102.9000	209.2000	204.0000	7.6500	209.2000	9.6570	0.9491
x		91.2%	103.6000	90.4%	0.0047	99.0400	101.0000	10580.0000	1099.0000	100.8000	105.1000	105.6000	104.1000	209.3000	203.4000	7.4370	208.1000	9.7510	0.8429
σ		0.5%	1.1410	0.9%	0.0237	0.5294	0.7146	92.3300	2.9290	1.4830	0.4267	0.5081	1.1900	2.1000	1.5800	0.1873	2.5490	0.3672	0.5051
%RSD		0.6	1.1020	1.0	503.3000	0.5345	0.7073	0.8730	0.2665	1.4710	0.4060	0.4811	1.1430	1.0040	0.7766	2.5190	1.2250	3.7660	59.9300

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:39:38	91.8%	0.0065	-0.0186	-0.0083	-0.0035	-0.0274	93.1%	5.2630	104.3000	3.8170	99.4300	209.7000	99.1900	95.0%	95.5%	r211.9000	r204.4000	96.6%
2	09:39:54	92.2%	0.0083	-0.0161	-0.0102	-0.0088	-0.0240	94.5%	5.3030	105.5000	3.7300	99.9000	213.2000	99.0200	95.7%	96.3%	r210.2000	r210.6000	96.9%
3	09:40:09	92.0%	0.0097	-0.0186	-0.0120	-0.0088	-0.0261	94.3%	5.3090	107.3000	3.7850	101.1000	214.8000	99.5500	95.6%	95.1%	r211.1000	r210.3000	96.6%
x		92.0%	0.0082	-0.0177	-0.0102	-0.0070	-0.0259	94.0%	5.2920	105.7000	3.7770	100.1000	212.6000	99.2600	95.4%	95.6%	r211.1000	r208.4000	96.7%
σ		0.2%	0.0016	0.0014	0.0019	0.0031	0.0017	0.7%	0.0252	1.5020	0.0442	0.8382	2.5860	0.2696	0.4%	0.6%	r0.8272	r3.5150	0.2%
%RSD		0.2	19.7700	8.1380	18.2000	43.9500	6.5990	0.8	0.4770	1.4210	1.1690	0.8371	1.2170	0.2716	0.4	0.7	r0.3920	r1.6870	0.2

SEQ-ICB@ICB01 5/23/2012 9:43:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:44:05	93.1%	-0.0313	92.5%	0.0007	-0.5993	-0.0500	-106.9000	0.2568	-0.0435	-0.0152	-0.0112	-0.0297	-0.0337	0.0074	-0.0077	0.2357	-0.0043	-0.3621
2	09:44:20	93.5%	-0.0153	92.5%	0.0209	-0.5455	-0.0490	-130.4000	0.4236	-0.0234	-0.0173	0.0085	-0.0520	-0.0515	-0.0309	-0.0077	0.0645	0.0254	0.1213
3	09:44:36	92.9%	-0.0232	92.1%	0.0010	-0.5992	-0.0502	-126.8000	1.4760	-0.0104	-0.0261	-0.0140	-0.0014	0.0155	-0.0004	0.0164	0.1669	-0.0520	0.4464
x		93.2%	-0.0233	92.4%	0.0075	-0.5813	-0.0497	-121.4000	0.7188	-0.0258	-0.0195	-0.0056	-0.0277	-0.0232	-0.0079	0.0003	0.1557	-0.0103	0.0686
σ		0.3%	0.0080	0.2%	0.0116	0.0310	0.0006	12.6600	0.6610	0.0167	0.0058	0.0122	0.0254	0.0347	0.0202	0.0140	0.0862	0.0390	0.4068
%RSD		0.3	34.5000	0.3	153.6000	5.3390	1.2710	10.4300	91.9600	64.8700	29.6700	219.3000	91.5000	149.5000	255.2000	4494.0000	55.3400	379.3000	593.5000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:44:05	92.2%	-0.0067	-0.0123	-0.0169	-0.0100	-0.0358	96.3%	0.0011	0.0170	-0.0011	0.0194	0.3344	-0.0152	96.7%	96.6%	0.0549	-0.0186	97.9%
2	09:44:20	92.8%	-0.0094	-0.0218	-0.0218	-0.0031	-0.0293	97.6%	-0.0120	0.0131	-0.0011	0.0157	0.3635	-0.0109	96.4%	96.7%	0.0592	-0.0231	97.1%
3	09:44:36	92.8%	-0.0068	-0.0168	-0.0176	-0.0048	-0.0311	96.6%	-0.0015	0.0204	-0.0011	0.0181	0.3632	-0.0128	97.0%	96.7%	0.0572	-0.0255	98.1%
x		92.6%	-0.0076	-0.0170	-0.0188	-0.0060	-0.0321	96.8%	-0.0041	0.0168	-0.0011	0.0178	0.3537	-0.0129	96.7%	96.7%	0.0571	-0.0224	97.7%
σ		0.4%	0.0015	0.0048	0.0027	0.0036	0.0034	0.7%	0.0069	0.0036	0.0000	0.0019	0.0168	0.0022	0.3%	0.1%	0.0021	0.0035	0.5%
%RSD		0.4	19.8900	28.0300	14.1300	60.6100	10.5000	0.7	167.9000	21.5700	0.0000	10.4800	4.7380	16.7400	0.3	0.1	3.7450	15.5400	0.5

SEQ-IFA@ICSA01 5/23/2012 9:48:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:31	81.6%	0.1814	81.7%	1222.0000	-2.6860	21.5700	2092.0000	r100100.0000	8.7660	1.1940	5.6670	8.1050	10.8000	0.2835	-0.0077	0.1144	-0.0303	-0.2874
2	09:48:48	81.8%	0.1898	82.6%	1234.0000	-2.6360	21.4600	2056.0000	r100200.0000	8.4410	1.0880	5.4270	8.1430	10.8300	0.2992	-0.0077	0.2798	-0.0530	0.2714
3	09:49:04	80.8%	0.2574	82.9%	1230.0000	-2.7000	21.1200	2099.0000	r100200.0000	8.1230	1.1930	5.6800	7.9660	10.7600	0.2973	-0.0077	0.0721	0.0293	-0.2933
x		81.4%	0.2095	82.4%	1229.0000	-2.6740	21.3800	2083.0000	r100200.0000	8.4430	1.1590	5.5910	8.0710	10.7900	0.2933	-0.0077	0.1554	-0.0180	-0.1031
σ		0.6%	0.0417	0.6%	6.2660	0.0337	0.2354	23.1800	r76.1300	0.3217	0.0610	0.1423	0.0930	0.0349	0.0086	0.0000	0.1098	0.0425	0.3243
%RSD		0.7	19.9100	0.8	0.5100	1.2610	1.1010	1.1130	r0.0760	3.8100	5.2620	2.5450	1.1520	0.3232	2.9230	0.0000	70.6300	235.9000	314.6000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:48:31	79.7%	599.5000	r980.1000	r1032.0000	r628.7000	r1501.0000	78.6%	-0.0001	0.0115	0.8928	0.6173	0.9936	1.4100	84.6%	84.1%	0.0565	4.3310	76.3%
2	09:48:48	80.0%	603.7000	r997.7000	r1040.0000	r633.4000	r1516.0000	79.2%	-0.0028	0.0102	0.8898	0.5650	0.9996	1.4890	84.2%	83.9%	0.0617	4.3630	76.3%
3	09:49:04	80.5%	603.9000	r989.3000	r1034.0000	636.1000	r1504.0000	79.7%	-0.0090	0.0097	0.8601	0.5268	1.0530	1.4430	84.0%	83.9%	0.0654	4.3850	75.9%
x		80.1%	602.3000	r989.0000	r1035.0000	r632.7000	r1507.0000	79.2%	-0.0040	0.0105	0.8809	0.5697	1.0150	1.4470	84.2%	83.9%	0.0612	4.3600	76.1%
σ		0.4%	2.5010	r8.8370	r4.0920	r3.7230	r7.6820	0.5%	0.0046	0.0010	0.0181	0.0454	0.0328	0.0400	0.3%	0.1%	0.0045	0.0271	0.2%
%RSD		0.5	0.4152	r0.8935	r0.3952	r0.5885	r0.5098	0.6	116.2000	9.1250	2.0530	7.9740	3.2310	2.7610	0.4	0.1	7.3250	0.6214	0.3

SEQ-IFB@ICSAB01 5/23/2012 9:52:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:52:58	81.6%	17.7800	83.1%	1223.0000	19.0800	42.9200	4434.0000	r99900.0000	31.0600	20.4300	23.4000	25.3400	28.3300	19.4700	0.8608	16.6900	0.8594	-0.1133
2	09:53:13	80.7%	18.6000	83.3%	1227.0000	18.7900	43.7700	4532.0000	r100900.0000	30.2400	20.8200	23.9200	26.8300	29.2400	19.7900	0.5359	19.0600	1.1060	-0.1132
3	09:53:29	79.4%	18.5500	83.0%	1240.0000	19.0700	43.2700	4490.0000	r101700.0000	31.4100	20.8800	23.5900	25.9500	28.9400	19.6800	0.5952	17.3300	0.8118	0.4451
x		80.6%	18.3100	83.1%	1230.0000	18.9800	43.3200	4485.0000	r100800.0000	30.9000	20.7100	23.6400	26.0400	28.8400	19.6500	0.6639	17.6900	0.9258	0.0729
σ		1.1%	0.4602	0.2%	8.5970	0.1655	0.4269	48.9600	r904.0000	0.5967	0.2412	0.2604	0.7510	0.4670	0.1665	0.1731	1.2230	0.1580	0.3224
%RSD		1.4	2.5130	0.2	0.6989	0.8719	0.9854	1.0910	r0.8966	1.9310	1.1640	1.1020	2.8840	1.6200	0.8477	26.0600	6.9130	17.0700	442.3000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:52:58	81.3%	601.5000	r979.0000	r1017.0000	627.8000	r1496.0000	79.4%	0.9420	17.3200	1.4590	18.0800	20.7900	22.0700	84.1%	84.6%	19.6200	25.3100	76.6%
2	09:53:13	81.2%	607.7000	r999.4000	r1044.0000	637.5000	r1504.0000	79.5%	0.9513	17.2700	1.5310	18.1500	20.6100	22.1200	84.6%	84.6%	20.1500	25.6700	75.9%
3	09:53:29	80.9%	608.9000	r1000.0000	r1034.0000	635.1000	r1511.0000	79.4%	0.9279	17.5900	1.5290	18.3900	21.0900	21.6700	84.6%	84.3%	20.3800	25.7500	75.3%
x		81.1%	606.0000	r993.0000	r1032.0000	633.5000	r1504.0000	79.4%	0.9404	17.3900	1.5060	18.2100	20.8300	21.9500	84.4%	84.5%	20.0500	25.5800	75.9%
σ		0.2%	3.9880	r12.1000	r13.9300	5.0880	r7.4700	0.1%	0.0118	0.1755	0.0409	0.1654	0.2423	0.2442	0.3%	0.2%	0.3926	0.2337	0.7%
%RSD		0.2	0.6580	r1.2190	r1.3500	0.8031	r0.4968	0.1	1.2540	1.0090	2.7160	0.9082	1.1630	1.1120	0.4	0.2	1.9580	0.9137	0.9

SEQ-CCV@CCV01 5/23/2012 9:57:04 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:57:20	85.1%	482.5000	87.1%	0.1838	490.4000	507.1000	55030.0000	r12310.0000	513.4000	526.0000	484.0000	483.4000	r2303.0000	500.3000	17.8400	513.1000	24.0000	2.4850
2	09:57:37	85.2%	485.3000	88.3%	0.1176	485.2000	503.5000	54420.0000	r12230.0000	506.9000	526.2000	484.1000	483.2000	r2307.0000	490.9000	18.1700	507.5000	24.1200	0.9925
3	09:57:52	85.7%	486.7000	88.3%	0.0712	481.2000	499.7000	53550.0000	r12320.0000	506.7000	528.2000	486.5000	486.8000	r2329.0000	492.6000	17.7400	504.2000	23.0900	0.5033
x		85.4%	484.8000	87.9%	0.1242	485.6000	503.4000	54330.0000	r12290.0000	509.0000	526.8000	484.9000	484.5000	r2313.0000	494.6000	17.9100	508.3000	23.7300	1.3270
σ		0.3%	2.1170	0.7%	0.0566	4.6180	3.7010	739.6000	r48.3200	3.8210	1.2230	1.4110	2.0240	r13.8800	5.0410	0.2248	4.5260	0.5641	1.0320
%RSD		0.4	0.4366	0.8	45.6100	0.9509	0.7353	1.3610	r0.3933	0.7507	0.2321	0.2910	0.4177	r0.6002	1.0190	1.2550	0.8905	2.3770	77.7900

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:57:20	90.7%	0.2116	0.3371	0.3637	0.1930	0.4954	89.7%	25.3200	63.1600	17.9000	490.1000	r483.9000	r2400.0000	94.6%	95.2%	r511.3000	r506.1000	92.3%
2	09:57:37	90.0%	0.2092	0.3306	0.3625	0.2083	0.4701	90.9%	25.4600	63.1200	17.8500	493.5000	r488.4000	r2398.0000	95.1%	94.9%	r515.7000	r507.7000	92.1%
3	09:57:52	88.9%	0.2570	0.3487	0.3508	0.1911	0.5368	92.0%	25.4300	64.7300	18.2500	499.4000	r488.5000	r2412.0000	95.5%	95.3%	r512.0000	r506.5000	92.5%
x		89.9%	0.2259	0.3388	0.3590	0.1975	0.5008	90.9%	25.4000	63.6700	18.0000	494.3000	r486.9000	r2403.0000	95.1%	95.1%	r513.0000	r506.7000	92.3%
σ		0.9%	0.0269	0.0092	0.0072	0.0094	0.0337	1.2%	0.0755	0.9172	0.2223	4.7230	r2.6390	r7.3180	0.5%	0.2%	r2.3650	r0.8238	0.2%
%RSD		1.0	11.9200	2.7110	1.9930	4.7630	6.7280	1.3	0.2970	1.4410	1.2350	0.9555	r0.5419	r0.3045	0.5	0.2	r0.4610	r0.1626	0.2

SEQ-CCB@CCB01 5/23/2012 10:01:30 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:01:46	91.2%	0.0345	94.6%	0.0112	-0.6886	-0.0399	-147.4000	2.0070	-0.0248	0.0101	0.0203	0.0636	0.1426	0.0047	0.0039	0.1295	-0.0037	-0.2234
2	10:02:02	92.1%	0.0095	93.8%	-0.0002	-0.5685	-0.0390	-173.3000	1.3960	0.0049	-0.0004	-0.0071	0.0511	0.1078	0.0059	-0.0077	0.1647	-0.0227	0.0856
3	10:02:18	91.3%	-0.0066	94.0%	-0.0161	-0.6236	-0.0291	-138.2000	2.2600	-0.0160	-0.0074	0.0097	-0.0182	0.0745	-0.0240	0.0041	0.0973	-0.0417	-0.0611
x		91.5%	0.0125	94.2%	-0.0017	-0.6269	-0.0360	-153.0000	1.8880	-0.0120	0.0007	0.0076	0.0322	0.1083	-0.0045	0.0001	0.1305	-0.0227	-0.0663
σ		0.5%	0.0207	0.4%	0.0137	0.0601	0.0060	18.2100	0.4442	0.0152	0.0088	0.0138	0.0440	0.0340	0.0169	0.0068	0.0337	0.0190	0.1546
%RSD		0.5	165.8000	0.4	798.4000	9.5860	16.7000	11.9000	23.5300	127.5000	1179.0000	180.7000	136.8000	31.4300	379.8000	7811.0000	25.8200	83.6300	233.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:01:46	96.0%	0.0293	0.0338	0.0460	0.0247	0.0605	99.9%	0.0016	0.0163	0.0016	0.0562	0.4747	0.1454	100.2%	100.0%	0.6709	-0.0007	100.2%
2	10:02:02	96.7%	0.0371	0.0641	0.0577	0.0390	0.0644	98.2%	-0.0096	0.0088	0.0003	0.0397	0.4703	0.1178	99.9%	100.1%	0.6538	-0.0052	99.6%
3	10:02:18	95.4%	0.0505	0.0574	0.0654	0.0352	0.0722	98.8%	-0.0047	0.0116	-0.0004	0.0295	0.4842	0.0975	99.2%	98.0%	0.6063	-0.0088	100.3%
x		96.0%	0.0390	0.0518	0.0564	0.0329	0.0657	99.0%	-0.0042	0.0122	0.0005	0.0418	0.4764	0.1203	99.8%	99.4%	0.6437	-0.0049	100.0%
σ		0.7%	0.0107	0.0159	0.0098	0.0074	0.0060	0.9%	0.0056	0.0038	0.0010	0.0135	0.0071	0.0241	0.5%	1.2%	0.0335	0.0040	0.3%
%RSD		0.7	27.5000	30.7600	17.3100	22.5400	9.0770	0.9	131.4000	30.8700	212.4000	32.2600	1.4960	20.0100	0.5	1.2	5.2000	82.2900	0.3

2052309-BLK1@PBW01@MF5WC4@42562 5/23/2012 10:20:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:20:31	100.3%	-0.0020	103.0%	0.0054	-0.4619	-0.0704	-94.5600	-0.5182	-0.0473	-0.0325	-0.0400	0.0160	-0.0646	-0.0342	0.0141	0.0615	-0.0037	-0.7060
2	10:20:46	98.7%	-0.0166	102.6%	0.0056	-0.3687	-0.0378	-81.3400	-0.4457	-0.0586	-0.0330	-0.0375	-0.0217	-0.0482	-0.0410	0.0140	0.2146	0.0228	-0.5633
3	10:21:02	99.3%	-0.0394	104.4%	-0.0204	-0.3176	-0.0620	-102.5000	-0.0568	-0.0440	-0.0312	-0.0378	-0.0052	-0.0646	-0.0279	-0.0077	0.0915	-0.0031	-0.2737
x		99.5%	-0.0193	103.4%	-0.0031	-0.3827	-0.0568	-92.8100	-0.3402	-0.0500	-0.0322	-0.0384	-0.0037	-0.0591	-0.0344	0.0068	0.1225	0.0054	-0.5143
σ		0.8%	0.0188	0.9%	0.0150	0.0732	0.0169	10.7000	0.2481	0.0077	0.0010	0.0014	0.0189	0.0095	0.0066	0.0126	0.0812	0.0151	0.2203
%RSD		0.8	97.3000	0.9	478.4000	19.1200	29.8300	11.5300	72.9400	15.3400	2.9480	3.5670	516.7000	16.0300	19.1700	185.7000	66.2400	282.5000	42.8400

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:20:31	103.5%	-0.0031	-0.0173	-0.0085	-0.0063	-0.0191	107.2%	-0.0124	-0.0012	-0.0011	0.0071	0.6872	-0.0365	105.5%	104.4%	0.0293	-0.0387	104.9%
2	10:20:46	104.7%	-0.0056	-0.0169	-0.0124	-0.0054	-0.0210	107.3%	-0.0261	0.0005	-0.0011	0.0071	0.7154	-0.0358	105.2%	105.1%	0.0346	-0.0392	103.4%
3	10:21:02	104.1%	0.0073	-0.0179	-0.0118	-0.0064	-0.0233	108.4%	0.0038	0.0005	-0.0011	0.0061	0.6859	-0.0397	105.8%	105.7%	0.0403	-0.0393	103.5%
x		104.1%	-0.0005	-0.0174	-0.0109	-0.0060	-0.0212	107.6%	-0.0116	-0.0001	-0.0011	0.0068	0.6962	-0.0373	105.5%	105.1%	0.0347	-0.0391	103.9%
σ		0.6%	0.0068	0.0005	0.0021	0.0005	0.0021	0.6%	0.0150	0.0010	0.0000	0.0006	0.0166	0.0021	0.3%	0.7%	0.0055	0.0003	0.9%
%RSD		0.6	1453.0000	3.0940	19.4100	9.1290	9.9620	0.6	129.3000	1602.0000	0.0000	9.2410	2.3910	5.6180	0.3	0.7	15.7600	0.8218	0.8

2052309-BS1@LCS01 5/23/2012 10:24:38 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:24:54	100.7%	1.9900	104.6%	0.0080	9.3330	3.7800	350.4000	378.5000	1.7770	1.9100	1.9460	3.7650	3.7480	1.8260	0.4098	9.8550	0.4712	-0.2778
2	10:25:09	101.7%	1.9940	104.6%	-0.0062	9.5070	3.8300	353.0000	389.2000	1.7820	1.9020	1.9940	3.8600	3.6520	1.5690	0.5179	9.9870	0.4206	0.1558
3	10:25:25	100.4%	1.9890	103.8%	-0.0131	9.4670	3.7790	309.7000	391.7000	1.7930	1.9120	1.8290	3.8610	3.8080	1.9380	0.3283	9.2480	0.4430	0.4341
x		100.9%	1.9910	104.3%	-0.0038	9.4360	3.7960	337.7000	386.5000	1.7840	1.9080	1.9230	3.8290	3.7360	1.7770	0.4187	9.6970	0.4450	0.1040
σ		0.7%	0.0027	0.4%	0.0108	0.0913	0.0290	24.2400	7.0400	0.0083	0.0053	0.0848	0.0555	0.0783	0.1890	0.0951	0.3946	0.0253	0.3588
%RSD		0.7	0.1332	0.4	286.0000	0.9672	0.7636	7.1780	1.8220	0.4647	0.2766	4.4110	1.4500	2.0960	10.6400	22.7100	4.0690	5.6920	344.9000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:24:54	104.9%	0.0030	-0.0135	-0.0097	-0.0039	-0.0215	109.1%	0.0836	1.8590	0.0713	1.9090	4.3020	17.9800	106.2%	105.7%	1.8740	1.7910	105.1%
2	10:25:09	104.5%	-0.0073	-0.0191	-0.0146	0.0019	-0.0184	106.7%	0.0975	1.9340	0.0607	1.8820	4.3060	18.5200	106.2%	106.2%	1.8580	1.7990	105.5%
3	10:25:25	105.6%	-0.0011	-0.0131	-0.0082	-0.0034	-0.0174	107.8%	0.0918	1.9070	0.0608	1.8530	4.3150	18.1200	106.2%	105.1%	1.8700	1.8110	104.5%
x		105.0%	-0.0018	-0.0152	-0.0108	-0.0018	-0.0191	107.9%	0.0910	1.9000	0.0643	1.8810	4.3080	18.2100	106.2%	105.7%	1.8670	1.8000	105.0%
σ		0.5%	0.0052	0.0033	0.0033	0.0032	0.0021	1.2%	0.0070	0.0380	0.0061	0.0276	0.0064	0.2784	0.0%	0.6%	0.0083	0.0100	0.5%
%RSD		0.5	294.5000	21.9300	30.4500	178.5000	11.2400	1.1	7.6710	1.9990	9.4600	1.4690	0.1481	1.5290	0.0	0.5	0.4461	0.5553	0.5

1205175-01@MF5WC4 5/23/2012 10:28:58 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:14	92.8%	-0.0233	101.2%	0.6022	1.0300	0.1233	314.9000	47.0200	7.1400	-0.0262	0.1965	0.6682	1.7520	0.0981	-0.0077	0.1059	0.0380	-0.2246
2	10:29:30	93.2%	-0.0314	101.7%	0.5845	1.1010	0.1236	246.1000	47.4900	6.9050	-0.0247	0.2599	0.6115	1.7290	0.0209	0.0182	0.3234	-0.0252	0.0947
3	10:29:45	92.9%	-0.0153	100.8%	0.6196	1.1030	0.0830	282.3000	48.0400	7.0460	-0.0212	0.1264	0.7222	1.8390	0.0205	0.0052	0.0672	-0.0149	-0.0590
x		93.0%	-0.0233	101.2%	0.6021	1.0780	0.1100	281.1000	47.5100	7.0300	-0.0240	0.1943	0.6673	1.7730	0.0465	0.0052	0.1655	-0.0007	-0.0630
σ		0.2%	0.0080	0.4%	0.0175	0.0414	0.0234	34.4000	0.5131	0.1186	0.0025	0.0668	0.0554	0.0583	0.0447	0.0130	0.1381	0.0339	0.1597
%RSD		0.2	34.5200	0.4	2.9100	3.8430	21.2600	12.2400	1.0800	1.6880	10.5400	34.3600	8.2970	3.2880	96.2000	248.8000	83.4400	4951.0000	253.7000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:29:14	95.2%	0.2173	0.3658	0.3942	0.2452	0.5631	87.5%	-0.0013	0.0012	-0.0004	0.0079	6.0170	6.0160	95.1%	95.8%	0.0427	0.2601	77.1%
2	10:29:30	94.5%	0.2222	0.3947	0.4092	0.2506	0.5592	89.9%	-0.0033	0.0023	0.0017	0.0103	6.2150	6.1800	94.9%	95.8%	0.0416	0.2472	77.1%
3	10:29:45	94.1%	0.2373	0.3566	0.3796	0.2614	0.6124	90.3%	-0.0160	0.0031	0.0081	0.0068	6.2000	6.2470	95.3%	95.2%	0.0477	0.2441	77.4%
x		94.6%	0.2256	0.3724	0.3944	0.2524	0.5782	89.3%	-0.0069	0.0022	0.0031	0.0083	6.1440	6.1480	95.1%	95.6%	0.0440	0.2505	77.2%
σ		0.6%	0.0104	0.0199	0.0148	0.0082	0.0296	1.5%	0.0080	0.0010	0.0044	0.0018	0.1106	0.1188	0.2%	0.3%	0.0033	0.0085	0.2%
%RSD		0.6	4.6240	5.3390	3.7490	3.2680	5.1200	1.7	115.7000	44.4300	141.2000	21.7000	1.7990	1.9320	0.2	0.3	7.4480	3.3890	0.2

2052309-MS1@MF5WC4S 5/23/2012 10:33:17 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:33:33	95.0%	42.7900	104.3%	0.5035	591.7000	223.1000	24440.0000	97.0100	546.0000	r464.5000	r412.6000	209.9000	390.6000	39.1200	2.9970	91.8700	4.3760	0.0600
2	10:33:49	93.9%	43.9000	105.5%	0.5787	598.0000	226.1000	24230.0000	97.5400	551.0000	r464.8000	r409.0000	211.4000	391.3000	41.0400	3.2030	91.4500	4.3190	0.0594
3	10:34:05	94.2%	42.6500	105.9%	0.6259	590.9000	221.6000	24270.0000	97.4200	546.7000	r463.4000	r406.0000	210.9000	392.2000	39.7000	3.2670	86.5100	4.1920	-0.0965
x		94.4%	43.1100	105.2%	0.5694	593.5000	223.6000	24310.0000	97.3200	547.9000	r464.2000	r409.2000	210.8000	391.4000	39.9600	3.1560	89.9400	4.2960	0.0077
σ		0.6%	0.6874	0.9%	0.0617	3.8890	2.2790	109.4000	0.2779	2.6910	r0.7214	r3.3080	0.7967	0.7878	0.9869	0.1412	2.9790	0.0940	0.0902
%RSD		0.6	1.5940	0.8	10.8400	0.6552	1.0190	0.4498	0.2855	0.4911	r0.1554	r0.8085	0.3780	0.2013	2.4700	4.4750	3.3120	2.1880	1177.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:33:33	98.2%	0.2472	0.3648	0.3875	0.2224	0.5394	90.2%	2.1590	41.9300	1.5880	40.7500	100.8000	r1952.0000	97.1%	97.2%	49.5100	21.5800	78.3%
2	10:33:49	98.1%	0.2425	0.3645	0.3775	0.2120	0.5634	89.9%	2.1490	42.5100	1.5460	40.8400	101.0000	r1960.0000	97.1%	95.9%	50.8700	21.7400	77.9%
3	10:34:05	98.7%	0.2539	0.3795	0.3769	0.2339	0.5786	91.7%	2.1650	42.1300	1.6140	40.9100	101.0000	r1950.0000	97.8%	97.7%	51.5700	21.5900	78.6%
x		98.4%	0.2479	0.3696	0.3806	0.2227	0.5605	90.6%	2.1580	42.1900	1.5830	40.8300	100.9000	r1954.0000	97.3%	97.0%	50.6500	21.6400	78.3%
σ		0.3%	0.0057	0.0085	0.0060	0.0110	0.0198	1.0%	0.0079	0.2956	0.0344	0.0796	0.1264	r5.6750	0.4%	0.9%	1.0470	0.0887	0.3%
%RSD		0.3	2.3100	2.3120	1.5640	4.9150	3.5280	1.1	0.3672	0.7006	2.1700	0.1950	0.1252	r0.2905	0.4	1.0	2.0680	0.4101	0.4

2052309-DUP1@MF5WC4D 5/23/2012 10:37:39 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:54	98.3%	-0.0242	108.4%	0.5374	0.8424	0.1487	238.3000	47.6800	7.1210	0.0060	0.1701	0.7152	2.1300	0.0783	0.0046	0.1004	-0.0038	0.0362
2	10:38:10	97.7%	-0.0165	110.1%	0.5354	0.8082	0.1701	300.3000	46.7800	6.9850	0.0037	0.1672	0.6597	2.0230	0.0894	0.0681	0.1020	0.0463	-0.4108
3	10:38:26	98.0%	-0.0318	109.5%	0.6108	0.9197	0.1707	261.2000	48.3200	7.1860	-0.0055	0.1272	0.8172	1.8870	0.0868	-0.0077	0.1008	-0.0045	-0.4057
x		98.0%	-0.0242	109.3%	0.5612	0.8568	0.1632	266.6000	47.6000	7.0970	0.0014	0.1548	0.7307	2.0130	0.0848	0.0217	0.1011	0.0126	-0.2601
σ		0.3%	0.0076	0.8%	0.0429	0.0571	0.0125	31.3300	0.7745	0.1024	0.0061	0.0240	0.0799	0.1216	0.0058	0.0407	0.0008	0.0291	0.2567
%RSD		0.3	31.5800	0.8	7.6490	6.6650	7.6870	11.7500	1.6270	1.4430	428.5000	15.5000	10.9300	6.0420	6.8700	187.9000	0.8004	230.4000	98.6800

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:37:54	100.7%	0.2550	0.3534	0.3708	0.2239	0.5767	94.4%	-0.0133	0.0067	0.0049	0.0124	7.6320	6.2240	98.1%	97.3%	0.7095	0.2464	78.9%
2	10:38:10	101.3%	0.3339	0.3838	0.4027	0.2244	0.5412	92.4%	-0.0107	0.0028	0.0075	0.0100	7.7270	6.3210	99.3%	98.9%	0.6625	0.2476	79.1%
3	10:38:26	100.1%	0.2124	0.3569	0.3687	0.2336	0.5944	93.9%	0.0019	0.0050	0.0036	0.0067	7.9860	6.1860	97.7%	98.1%	0.6374	0.2487	78.8%
x		100.7%	0.2671	0.3647	0.3807	0.2273	0.5708	93.6%	-0.0074	0.0048	0.0053	0.0097	7.7820	6.2440	98.3%	98.1%	0.6698	0.2476	78.9%
σ		0.6%	0.0617	0.0166	0.0191	0.0054	0.0271	1.1%	0.0081	0.0020	0.0020	0.0029	0.1832	0.0699	0.8%	0.8%	0.0366	0.0012	0.2%
%RSD		0.6	23.0800	4.5590	5.0130	2.3940	4.7490	1.1	110.0000	41.4200	37.3600	29.4600	2.3550	1.1200	0.8	0.8	5.4690	0.4758	0.2

SEQ-SRD1@MF5WC4L 5/23/2012 10:42:00 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:42:16	102.8%	-0.0176	110.8%	0.2133	0.0453	-0.0303	-3.3690	9.7040	1.3510	-0.0309	0.0134	0.1980	0.4977	-0.0194	0.0146	0.1252	0.0233	-0.5725
2	10:42:32	103.5%	-0.0321	110.9%	0.3007	-0.1010	-0.0243	-27.1300	9.2780	1.1010	-0.0274	0.0085	0.1216	0.4432	0.0215	0.0033	0.0931	0.0058	-0.1562
3	10:42:48	103.9%	-0.0322	110.4%	0.2008	-0.0442	-0.0077	-12.6100	9.5060	1.1630	-0.0309	0.0280	0.1305	0.4887	-0.0197	0.0034	0.1873	0.0055	-0.4320
x		103.4%	-0.0273	110.7%	0.2383	-0.0333	-0.0208	-14.3700	9.4960	1.2050	-0.0297	0.0166	0.1501	0.4765	-0.0059	0.0071	0.1352	0.0115	-0.3869
σ		0.6%	0.0084	0.3%	0.0544	0.0738	0.0117	11.9800	0.2131	0.1302	0.0020	0.0102	0.0418	0.0292	0.0237	0.0065	0.0479	0.0102	0.2118
%RSD		0.6	30.8500	0.2	22.8400	221.6000	56.3700	83.3500	2.2440	10.8000	6.7750	61.2700	27.8400	6.1310	404.3000	91.5900	35.4200	88.4800	54.7400

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:42:16	107.4%	0.0382	0.0619	0.0605	0.0457	0.0708	104.5%	-0.0112	0.0005	-0.0005	0.0070	2.3230	1.1980	105.6%	105.9%	0.1380	0.0118	96.1%
2	10:42:32	107.8%	0.0464	0.0545	0.0623	0.0439	0.0889	105.5%	-0.0113	0.0001	-0.0011	0.0070	2.4560	1.2020	106.2%	106.3%	0.1518	0.0145	96.2%
3	10:42:48	107.2%	0.0411	0.0626	0.0479	0.0284	0.0868	105.1%	-0.0192	0.0011	0.0020	0.0059	2.4460	1.2180	106.2%	106.4%	0.1593	0.0136	96.3%
x		107.5%	0.0419	0.0596	0.0569	0.0393	0.0822	105.0%	-0.0139	0.0006	0.0001	0.0067	2.4080	1.2060	106.0%	106.2%	0.1497	0.0133	96.2%
σ		0.3%	0.0042	0.0045	0.0078	0.0095	0.0099	0.5%	0.0046	0.0005	0.0017	0.0006	0.0739	0.0109	0.4%	0.3%	0.0108	0.0014	0.1%
%RSD		0.3	9.9610	7.4940	13.7200	24.1200	12.0100	0.5	32.7500	92.5100	1189.0000	9.2470	3.0680	0.8995	0.3	0.2	7.1960	10.2600	0.1

1205175-02@MF5WC5 5/23/2012 10:46:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:46:37	100.7%	-0.0246	110.3%	0.6426	0.8552	0.2419	277.4000	47.9000	6.7350	-0.0197	0.2413	0.5873	2.1950	0.0308	0.0534	0.0996	0.0347	-0.7063
2	10:46:53	100.7%	-0.0320	112.0%	0.6222	0.8024	0.2605	247.2000	47.8900	6.5510	-0.0225	0.2070	0.6472	2.1280	0.0997	0.0535	0.1687	-0.0040	-0.1269
3	10:47:09	100.5%	-0.0097	111.2%	0.7755	0.9062	0.2246	311.7000	48.2900	6.9360	-0.0207	0.2202	0.6609	2.1030	0.1460	0.0168	0.1691	-0.0323	0.8853
x		100.6%	-0.0221	111.2%	0.6801	0.8546	0.2423	278.8000	48.0300	6.7410	-0.0209	0.2228	0.6318	2.1420	0.0922	0.0412	0.1458	-0.0005	0.0174
σ		0.1%	0.0113	0.9%	0.0832	0.0519	0.0180	32.2800	0.2257	0.1927	0.0014	0.0173	0.0391	0.0477	0.0580	0.0211	0.0400	0.0336	0.8056
%RSD		0.1	51.3900	0.8	12.2400	6.0710	7.4100	11.5800	0.4700	2.8580	6.7810	7.7720	6.1910	2.2250	62.8800	51.2900	27.4400	6424.0000	4638.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:46:37	102.7%	0.2145	0.3803	0.4394	0.2149	0.5698	95.6%	-0.0025	0.0017	0.0061	0.0066	7.7570	6.0490	98.1%	99.2%	0.1119	0.2304	79.5%
2	10:46:53	102.6%	0.2233	0.3840	0.3867	0.2115	0.5470	95.4%	-0.0152	0.0006	0.0061	0.0089	7.6450	6.1890	99.6%	99.3%	0.1134	0.2443	79.7%
3	10:47:09	102.9%	0.2475	0.3791	0.3692	0.2110	0.5588	95.1%	-0.0055	0.0002	0.0054	0.0089	7.8590	6.1340	99.6%	99.7%	0.1224	0.2355	79.1%
x		102.7%	0.2285	0.3811	0.3985	0.2124	0.5585	95.4%	-0.0077	0.0008	0.0059	0.0081	7.7540	6.1240	99.1%	99.4%	0.1159	0.2367	79.4%
σ		0.1%	0.0171	0.0026	0.0366	0.0021	0.0114	0.2%	0.0066	0.0007	0.0004	0.0013	0.1067	0.0707	0.8%	0.3%	0.0057	0.0070	0.3%
%RSD		0.1	7.4780	0.6782	9.1720	1.0090	2.0380	0.2	85.3700	90.2900	6.6670	15.8400	1.3750	1.1540	0.9	0.3	4.8880	2.9730	0.4

1205175-03@MF5WC6 5/23/2012 10:50:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:50:57	99.8%	-0.0319	112.9%	0.6339	0.9902	0.1287	245.1000	290.2000	18.7200	0.0008	0.1749	1.0310	8.6100	0.0289	0.0312	0.1405	0.1319	0.1670
2	10:51:13	99.2%	-0.0394	113.4%	0.6410	1.0180	0.1438	254.1000	292.9000	18.4400	0.0043	0.1195	1.0440	8.6250	0.0772	-0.0077	0.1767	0.1318	0.3180
3	10:51:29	99.1%	-0.0319	112.8%	0.5352	0.9916	0.1126	316.6000	295.6000	18.6400	0.0014	0.1376	1.1720	8.9470	0.1478	-0.0077	0.2115	0.0583	0.3273
x		99.4%	-0.0344	113.1%	0.6034	1.0000	0.1284	271.9000	292.9000	18.6000	0.0022	0.1440	1.0820	8.7270	0.0847	0.0052	0.1762	0.1073	0.2708
σ		0.4%	0.0043	0.3%	0.0591	0.0157	0.0156	38.9100	2.6990	0.1428	0.0019	0.0283	0.0778	0.1906	0.0598	0.0225	0.0355	0.0425	0.0900
%RSD		0.4	12.5600	0.3	9.7980	1.5720	12.1800	14.3100	0.9216	0.7678	85.5400	19.6200	7.1910	2.1840	70.6500	429.5000	20.1600	39.5800	33.2300

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:50:57	102.0%	0.1949	0.3219	0.3252	0.1835	0.4369	89.9%	-0.0127	0.0017	0.0029	0.0113	9.9410	24.5700	96.2%	95.3%	0.0698	0.0706	73.1%
2	10:51:13	101.4%	0.1788	0.3112	0.3228	0.2047	0.4653	90.1%	-0.0061	0.0021	0.0130	0.0090	9.6310	24.8000	95.6%	95.1%	0.0852	0.0789	72.8%
3	10:51:29	100.6%	0.1857	0.3174	0.3283	0.1873	0.4939	91.0%	-0.0052	-0.0004	0.0097	0.0125	9.8640	24.9400	95.5%	95.0%	0.0819	0.0722	72.8%
x		101.3%	0.1865	0.3168	0.3254	0.1918	0.4654	90.4%	-0.0080	0.0011	0.0085	0.0109	9.8120	24.7700	95.8%	95.1%	0.0789	0.0739	72.9%
σ		0.7%	0.0081	0.0053	0.0027	0.0113	0.0285	0.5%	0.0041	0.0013	0.0051	0.0018	0.1613	0.1878	0.4%	0.1%	0.0081	0.0044	0.2%
%RSD		0.7	4.3310	1.6850	0.8417	5.9040	6.1190	0.6	51.0900	120.9000	60.4000	16.0500	1.6430	0.7580	0.4	0.2	10.2600	6.0090	0.3

SEQ-IBL@ZZZZZZ 5/23/2012 10:55:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:55:18	111.2%	-0.0259	117.5%	0.1566	0.1520	-0.0324	61.4000	-5.7360	-0.0236	-0.0315	-0.0158	0.0565	0.2447	-0.0096	0.0027	0.2659	-0.0021	0.2144
2	10:55:34	111.0%	-0.0192	117.2%	0.1411	0.2060	-0.0436	65.6900	-5.8860	0.0004	-0.0336	0.0134	0.0624	0.2757	0.0088	0.0334	0.2046	-0.0352	0.2027
3	10:55:49	111.3%	-0.0259	117.5%	0.1501	0.2877	-0.0362	82.0600	-5.3370	0.0335	-0.0311	0.0043	0.0710	0.2254	-0.0293	-0.0077	0.2064	0.0061	0.0726
x		111.2%	-0.0237	117.4%	0.1493	0.2152	-0.0374	69.7100	-5.6530	0.0034	-0.0321	0.0007	0.0633	0.2486	-0.0100	0.0095	0.2257	-0.0104	0.1632
σ		0.2%	0.0039	0.2%	0.0078	0.0683	0.0057	10.9000	0.2837	0.0286	0.0013	0.0149	0.0073	0.0254	0.0190	0.0214	0.0349	0.0219	0.0787
%RSD		0.2	16.5200	0.1	5.2370	31.7400	15.2000	15.6400	5.0190	838.9000	4.1540	2282.0000	11.5800	10.2100	189.7000	226.4000	15.4700	209.8000	48.2100

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:55:18	112.2%	-0.0046	-0.0165	-0.0172	-0.0072	-0.0285	111.9%	-0.0073	-0.0003	-0.0011	0.0071	3.9060	-0.0401	108.3%	107.7%	-0.0166	-0.0392	106.8%
2	10:55:34	113.7%	0.0390	-0.0151	-0.0013	-0.0050	-0.0288	113.5%	-0.0097	-0.0003	-0.0011	0.0081	4.0410	-0.0388	109.5%	108.3%	-0.0144	-0.0396	106.3%
3	10:55:49	113.4%	-0.0074	-0.0176	-0.0188	-0.0064	-0.0284	112.4%	-0.0077	-0.0006	-0.0005	0.0081	4.1660	-0.0387	108.7%	107.9%	-0.0133	-0.0400	106.7%
x		113.1%	0.0090	-0.0164	-0.0124	-0.0062	-0.0286	112.6%	-0.0082	-0.0004	-0.0009	0.0077	4.0370	-0.0392	108.8%	108.0%	-0.0148	-0.0396	106.6%
σ		0.8%	0.0260	0.0013	0.0096	0.0011	0.0002	0.8%	0.0013	0.0002	0.0003	0.0006	0.1299	0.0008	0.6%	0.3%	0.0017	0.0004	0.2%
%RSD		0.7	290.4000	7.7860	77.5700	18.3100	0.7412	0.7	15.3900	44.8700	37.7300	7.4690	3.2180	2.0720	0.5	0.2	11.3600	1.0610	0.2

SEQ-IBL@ZZZZZZ 5/23/2012 10:59:25 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:59:41	111.2%	-0.0259	115.4%	0.1830	-0.8296	-0.0552	-180.0000	-6.8410	-0.0161	-0.0336	-0.0015	0.0601	0.1667	-0.0616	-0.0077	0.0898	0.0222	-0.5851
2	10:59:57	109.6%	-0.0189	115.3%	0.1733	-0.7894	-0.0598	-192.6000	-6.3850	-0.0204	-0.0327	-0.0039	0.0064	0.2100	-0.0617	0.0026	0.2061	-0.0274	0.0752
3	11:00:13	109.7%	-0.0325	115.7%	0.1727	-0.6990	-0.0618	-195.6000	-6.6650	-0.0311	-0.0323	0.0054	0.0621	0.1501	-0.0358	0.0130	0.2353	0.0225	-0.1830
x		110.2%	-0.0258	115.5%	0.1763	-0.7727	-0.0589	-189.4000	-6.6310	-0.0225	-0.0329	-0.0000	0.0428	0.1756	-0.0531	0.0026	0.1771	0.0058	-0.2310
σ		0.9%	0.0068	0.2%	0.0058	0.0669	0.0034	8.2700	0.2297	0.0077	0.0006	0.0048	0.0316	0.0309	0.0149	0.0104	0.0770	0.0287	0.3328
%RSD		0.8	26.4900	0.2	3.2670	8.6600	5.7380	4.3670	3.4640	34.2200	1.9500	24270.0000	73.6500	17.6100	28.1100	394.8000	43.4600	497.9000	144.1000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	10:59:41	112.6%	-0.0063	-0.0165	-0.0172	-0.0078	-0.0339	111.4%	-0.0126	-0.0010	-0.0011	0.0081	-0.1787	-0.0395	109.3%	108.8%	-0.0208	-0.0396	107.3%
2	10:59:57	113.4%	-0.0058	-0.0140	-0.0193	-0.0108	-0.0331	112.5%	-0.0090	-0.0003	-0.0011	0.0081	-0.1854	-0.0425	109.7%	109.7%	-0.0166	-0.0417	107.3%
3	11:00:13	112.0%	-0.0030	-0.0123	-0.0172	-0.0038	-0.0298	112.6%	-0.0074	-0.0006	-0.0005	0.0061	-0.2020	-0.0357	109.4%	108.3%	-0.0192	-0.0390	106.4%
x		112.7%	-0.0050	-0.0143	-0.0179	-0.0075	-0.0323	112.2%	-0.0097	-0.0006	-0.0009	0.0074	-0.1887	-0.0392	109.5%	108.9%	-0.0189	-0.0401	107.0%
σ		0.7%	0.0018	0.0021	0.0012	0.0035	0.0022	0.7%	0.0027	0.0003	0.0003	0.0012	0.0120	0.0034	0.2%	0.7%	0.0021	0.0015	0.5%
%RSD		0.6	35.2900	14.9100	6.6460	46.6300	6.8350	0.6	27.6300	50.0400	38.0500	15.8600	6.3630	8.6610	0.2	0.7	11.3000	3.6220	0.5

SEQ-IBL@ZZZZZZ 5/23/2012 11:05:11 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:05:27	107.1%	-0.0324	113.4%	0.1411	-1.2900	-0.0724	-345.1000	-3.4270	-0.0298	-0.0331	0.3117	0.0442	0.5251	-0.0682	0.0029	0.1506	0.0142	-0.3100
2	11:05:43	106.6%	-0.0324	114.0%	0.1565	-1.3590	-0.0671	-333.5000	-4.0580	-0.0450	-0.0331	0.3378	0.0415	0.4939	-0.0616	-0.0077	0.1785	-0.0196	-0.1767
3	11:05:59	107.4%	-0.0324	112.7%	0.1424	-1.3170	-0.0797	-339.3000	-3.9130	-0.0344	-0.0323	0.3042	0.0742	0.5128	-0.0682	-0.0077	0.1778	0.0226	-0.1727
x		107.1%	-0.0324	113.3%	0.1467	-1.3220	-0.0731	-339.3000	-3.7990	-0.0364	-0.0328	0.3179	0.0533	0.5106	-0.0660	-0.0042	0.1690	0.0057	-0.2198
σ		0.4%	0.0000	0.7%	0.0085	0.0351	0.0064	5.7900	0.3303	0.0078	0.0005	0.0176	0.0181	0.0157	0.0038	0.0061	0.0159	0.0223	0.0781
%RSD		0.4	0.0664	0.6	5.8060	2.6540	8.6940	1.7060	8.6920	21.3900	1.5260	5.5500	33.9600	3.0830	5.7210	146.2000	9.4120	389.8000	35.5400

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:05:27	110.8%	-0.0039	-0.0169	-0.0171	-0.0091	-0.0307	109.8%	-0.0037	-0.0003	-0.0005	0.0081	-0.5468	-0.0446	107.2%	107.2%	0.0407	-0.0372	105.2%
2	11:05:43	111.1%	-0.0023	-0.0148	-0.0192	-0.0076	-0.0290	111.3%	-0.0102	-0.0009	-0.0011	0.0061	-0.5481	-0.0423	107.0%	107.6%	0.0462	-0.0375	105.4%
3	11:05:59	110.5%	-0.0050	-0.0116	-0.0176	-0.0061	-0.0301	111.8%	-0.0076	-0.0006	-0.0011	0.0071	-0.5491	-0.0364	108.9%	106.9%	0.0408	-0.0363	105.1%
x		110.8%	-0.0038	-0.0144	-0.0180	-0.0076	-0.0299	111.0%	-0.0072	-0.0006	-0.0009	0.0071	-0.5480	-0.0411	107.7%	107.2%	0.0425	-0.0370	105.3%
σ		0.3%	0.0014	0.0027	0.0011	0.0015	0.0008	1.1%	0.0033	0.0003	0.0004	0.0010	0.0012	0.0042	1.0%	0.3%	0.0032	0.0006	0.1%
%RSD		0.3	35.9400	18.5300	5.9660	19.5300	2.8390	1.0	45.7800	54.3400	38.7000	14.6300	0.2135	10.3400	1.0	0.3	7.4130	1.6470	0.1

SEQ-IBL@ZZZZZZ 5/23/2012 11:09:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:09:49	107.7%	-0.0255	112.0%	0.0869	-1.1290	-0.0733	-263.3000	-7.3130	-0.0448	-0.0331	-0.0209	0.0132	0.1988	-0.0353	-0.0077	0.2684	0.0391	-0.7157
2	11:10:05	107.0%	-0.0114	113.7%	0.1175	-1.1390	-0.0692	-255.7000	-7.4990	-0.0197	-0.0335	0.0110	-0.0014	0.1739	-0.0682	-0.0077	0.1194	-0.0446	0.0927
3	11:10:21	107.5%	-0.0255	113.6%	0.1705	-1.0970	-0.0672	-286.3000	-7.5790	-0.0343	-0.0327	-0.0002	0.0704	0.1550	-0.0682	0.0027	0.0897	-0.0439	0.5140
x		107.4%	-0.0208	113.1%	0.1250	-1.1220	-0.0699	-268.5000	-7.4640	-0.0329	-0.0331	-0.0034	0.0274	0.1759	-0.0572	-0.0043	0.1592	-0.0165	-0.0364
σ		0.4%	0.0081	1.0%	0.0423	0.0215	0.0031	15.9400	0.1363	0.0126	0.0004	0.0162	0.0379	0.0220	0.0190	0.0060	0.0958	0.0481	0.6249
%RSD		0.3	38.9700	0.9	33.8300	1.9190	4.4460	5.9360	1.8260	38.2900	1.2990	482.3000	138.5000	12.5100	33.1700	141.7000	60.1700	291.9000	1718.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:09:49	110.7%	-0.0067	-0.0169	-0.0176	-0.0105	-0.0327	110.7%	-0.0056	-0.0013	-0.0011	0.0071	-0.3396	-0.0370	107.6%	107.3%	-0.0270	-0.0388	105.4%
2	11:10:05	111.2%	-0.0089	-0.0137	-0.0176	-0.0047	-0.0317	111.3%	-0.0077	-0.0009	-0.0011	0.0071	-0.3239	-0.0385	107.3%	107.1%	-0.0249	-0.0396	105.5%
3	11:10:21	109.7%	-0.0071	-0.0168	-0.0191	-0.0085	-0.0305	111.7%	-0.0112	-0.0009	-0.0005	0.0081	-0.3152	-0.0423	107.1%	106.9%	-0.0259	-0.0395	106.9%
x		110.5%	-0.0076	-0.0158	-0.0181	-0.0079	-0.0316	111.2%	-0.0081	-0.0010	-0.0009	0.0074	-0.3262	-0.0393	107.3%	107.1%	-0.0259	-0.0393	105.9%
σ		0.8%	0.0012	0.0018	0.0009	0.0030	0.0011	0.5%	0.0028	0.0002	0.0004	0.0006	0.0124	0.0027	0.2%	0.2%	0.0010	0.0004	0.9%
%RSD		0.7	15.5000	11.2300	4.7080	37.7300	3.3520	0.4	34.5100	18.4200	39.0600	8.1840	3.7950	6.9130	0.2	0.2	4.0220	1.1280	0.8

SEQ-IBL@ZZZZZZ 5/23/2012 11:13:54 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:10	106.2%	0.0099	111.8%	0.1139	-1.4610	-0.0879	-360.8000	-7.9170	-0.0440	-0.0340	0.0006	0.0088	0.2398	-0.0614	-0.0077	0.0915	0.0143	-0.3029
2	11:14:25	106.8%	-0.0253	110.6%	0.1358	-1.4520	-0.0772	-363.6000	-8.1410	-0.0553	-0.0327	0.0221	0.0308	0.2064	-0.0682	-0.0077	0.0912	-0.0284	0.1003
3	11:14:41	107.4%	-0.0324	109.9%	0.1338	-1.5090	-0.0797	-354.2000	-7.7050	-0.0487	-0.0305	0.0302	0.0628	0.2618	-0.0486	-0.0077	0.1192	-0.0111	-0.1603
x		106.8%	-0.0159	110.8%	0.1279	-1.4740	-0.0816	-359.5000	-7.9210	-0.0493	-0.0324	0.0176	0.0342	0.2360	-0.0594	-0.0077	0.1006	-0.0084	-0.1210
σ		0.6%	0.0227	1.0%	0.0121	0.0304	0.0056	4.8390	0.2176	0.0057	0.0018	0.0153	0.0271	0.0279	0.0099	0.0000	0.0161	0.0215	0.2045
%RSD		0.6	142.3000	0.9	9.4610	2.0650	6.8550	1.3460	2.7470	11.4700	5.4940	86.9000	79.4700	11.8100	16.7400	0.0000	16.0000	255.6000	169.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:14:10	109.4%	-0.0010	-0.0210	-0.0129	-0.0059	-0.0311	108.4%	-0.0111	-0.0019	-0.0011	0.0061	-0.5495	-0.0423	107.0%	106.5%	-0.0313	-0.0413	102.4%
2	11:14:25	110.6%	0.0525	-0.0142	-0.0166	-0.0056	-0.0321	108.9%	-0.0055	-0.0013	-0.0011	0.0071	-0.5512	-0.0377	106.6%	106.6%	-0.0317	-0.0409	104.5%
3	11:14:41	108.7%	-0.0065	-0.0140	-0.0165	-0.0074	-0.0319	111.6%	-0.0156	-0.0006	-0.0005	0.0092	-0.5482	-0.0392	107.5%	107.4%	-0.0295	-0.0395	105.3%
x		109.6%	0.0150	-0.0164	-0.0153	-0.0063	-0.0317	109.6%	-0.0107	-0.0012	-0.0009	0.0075	-0.5497	-0.0397	107.1%	106.8%	-0.0308	-0.0406	104.1%
σ		1.0%	0.0326	0.0040	0.0021	0.0010	0.0005	1.7%	0.0050	0.0007	0.0004	0.0016	0.0015	0.0023	0.4%	0.5%	0.0012	0.0010	1.5%
%RSD		0.9	217.4000	24.3800	13.7300	15.0900	1.6540	1.6	46.8400	53.2400	39.3300	21.4600	0.2726	5.8710	0.4	0.5	3.8010	2.3940	1.4

SEQ-CCV@CCV02 5/23/2012 11:18:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:18:31	104.5%	491.0000	107.8%	0.0477	526.0000	534.6000	57640.0000	r12220.0000	532.1000	r497.6000	r464.9000	492.9000	r2318.0000	524.8000	18.7600	527.2000	25.3200	1.6120
2	11:18:47	102.6%	502.0000	106.3%	0.0492	523.3000	532.9000	57150.0000	r12460.0000	535.2000	r501.3000	r468.3000	495.9000	r2335.0000	525.5000	19.0700	533.2000	25.2900	1.3250
3	11:19:02	102.4%	497.1000	106.1%	0.0985	528.9000	539.9000	57900.0000	r12400.0000	532.5000	r501.7000	r469.4000	499.4000	r2346.0000	528.5000	18.7300	537.7000	26.3100	2.7480
x		103.2%	496.7000	106.8%	0.0651	526.1000	535.8000	57560.0000	r12360.0000	533.2000	r500.2000	r467.5000	496.1000	r2333.0000	526.3000	18.8500	532.7000	25.6400	1.8950
σ		1.2%	5.5250	0.9%	0.0289	2.8270	3.6690	380.7000	r125.6000	1.6740	r2.2620	r2.3240	3.2760	r14.0400	1.9680	0.1851	5.2490	0.5799	0.7523
%RSD		1.1	1.1120	0.9	44.4100	0.5374	0.6847	0.6615	r1.0160	0.3140	r0.4521	r0.4971	0.6604	r0.6019	0.3739	0.9819	0.9853	2.2620	39.7000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:18:31	103.2%	0.0193	0.0037	0.0185	0.0060	0.0120	100.1%	25.6800	64.4600	17.9900	494.6000	r495.3000	r2471.0000	102.0%	102.6%	r516.9000	r512.9000	96.9%
2	11:18:47	103.3%	0.0139	0.0088	0.0249	0.0117	0.0151	101.0%	25.4600	63.9900	17.8600	494.3000	r496.0000	r2458.0000	103.4%	102.2%	r521.0000	r512.6000	96.4%
3	11:19:02	104.2%	0.0143	0.0074	0.0322	0.0052	0.0182	100.1%	25.5500	64.2800	18.0000	492.3000	r495.3000	r2464.0000	102.5%	101.3%	r519.8000	r513.7000	96.7%
x		103.6%	0.0158	0.0066	0.0252	0.0076	0.0151	100.4%	25.5600	64.2400	17.9500	493.8000	r495.5000	r2464.0000	102.6%	102.1%	r519.3000	r513.1000	96.7%
σ		0.6%	0.0030	0.0026	0.0069	0.0036	0.0031	0.5%	0.1100	0.2392	0.0795	1.2410	r0.4319	r6.6440	0.7%	0.6%	r2.1160	r0.5498	0.3%
%RSD		0.6	18.8700	39.3000	27.2100	46.7400	20.3100	0.5	0.4302	0.3723	0.4430	0.2513	r0.0872	r0.2696	0.7	0.6	r0.4074	r0.1071	0.3

SEQ-CCB@CCB02 5/23/2012 11:22:40 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:22:55	108.8%	0.0295	111.1%	0.0344	-0.4200	-0.0305	-107.2000	2.1630	-0.0173	0.0028	-0.0273	0.0166	0.1043	-0.0003	-0.0077	0.2762	0.0146	-0.1536
2	11:23:11	108.1%	0.0507	111.1%	0.0445	-0.3527	-0.0288	-113.2000	0.7540	-0.0513	-0.0043	-0.0036	0.0273	0.1823	0.0060	0.0247	0.0917	0.0054	-0.4343
3	11:23:27	107.9%	0.0162	111.3%	0.0443	-0.3608	-0.0317	-99.2200	1.8850	-0.0223	-0.0091	-0.0108	0.0360	0.1074	-0.0149	0.0029	0.1511	0.0228	-0.2973
x		108.3%	0.0321	111.1%	0.0411	-0.3778	-0.0303	-106.5000	1.6010	-0.0303	-0.0035	-0.0139	0.0266	0.1313	-0.0031	0.0066	0.1730	0.0143	-0.2951
σ		0.5%	0.0174	0.1%	0.0058	0.0367	0.0015	7.0270	0.7465	0.0184	0.0060	0.0122	0.0097	0.0442	0.0107	0.0165	0.0942	0.0087	0.1404
%RSD		0.4	54.1500	0.1	14.0000	9.7200	4.8520	6.5960	46.6300	60.6300	169.6000	87.5600	36.3600	33.6100	349.9000	249.5000	54.4500	60.8700	47.5700

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	11:22:55	107.3%	0.0354	-0.0193	-0.0148	-0.0093	-0.0316	107.2%	0.0006	0.0132	-0.0005	0.0389	0.8122	0.1306	106.8%	106.1%	0.6833	-0.0032	104.0%
2	11:23:11	107.8%	-0.0025	-0.0188	-0.0206	-0.0012	-0.0325	108.0%	-0.0120	0.0125	0.0008	0.0378	0.8469	0.0858	106.6%	105.0%	0.6680	-0.0080	104.1%
3	11:23:27	108.2%	0.1055	-0.0150	-0.0175	-0.0043	-0.0302	109.3%	0.0024	0.0141	-0.0011	0.0293	0.8492	0.1038	106.1%	105.5%	0.6248	-0.0109	104.5%
x		107.7%	0.0461	-0.0177	-0.0176	-0.0049	-0.0314	108.2%	-0.0030	0.0133	-0.0003	0.0353	0.8361	0.1067	106.5%	105.5%	0.6587	-0.0074	104.2%
σ		0.4%	0.0548	0.0023	0.0029	0.0041	0.0012	1.1%	0.0079	0.0008	0.0010	0.0053	0.0208	0.0225	0.3%	0.5%	0.0304	0.0039	0.3%
%RSD		0.4	118.8000	13.1900	16.5000	82.7600	3.7740	1.0	262.8000	6.2100	338.0000	14.9000	2.4820	21.1000	0.3	0.5	4.6080	52.9100	0.3

Mass Uncorrected ICPS

SEQ-CAL1@S0 5/23/2012 9:00:22 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	09:00:38	117322.1900	6.6667	201549.7300	80.0004	944.7158	79.3337	411.3426	13550.0910	96.6672	256.6703	96.6672	283.3378	410.0093	13.3333	3.3333	5.5556	20.0000	10.0000
2	09:00:54	118335.2000	23.3334	202739.0800	26.6667	980.7196	83.3337	438.0106	13803.8050	70.0003	343.3398	80.0004	286.6712	450.0111	14.4445	0.0000	1.1111	16.6667	13.3333
3	09:01:09	118456.7600	20.0000	198006.4600	53.3335	919.3798	82.6670	410.0093	13767.0830	66.6669	270.0040	76.6670	250.0034	453.3446	11.1111	3.3333	3.3333	13.3333	33.3334
x		118038.0500	16.6667	200765.0900	53.3335	948.2717	81.7781	419.7875	13706.9930	77.7781	290.0047	84.4448	273.3375	437.7883	12.9630	2.2222	3.3333	16.6667	18.8889
σ		622.9240	8.8192	2461.9403	26.6668	30.8241	2.1431	15.7957	137.1163	16.4431	46.6682	10.7153	20.2765	24.1151	1.6973	1.9245	2.2222	3.3333	12.6198
%RSD		0.5277	52.9151	1.2263	50.0001	3.2506	2.6206	3.7628	1.0003	21.1410	16.0922	12.6891	7.4181	5.5084	13.0931	86.6025	66.6667	20.0000	66.8108

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	09:00:38	207375.2400	90.0004	110.0007	120.0008	116.6674	193.3354	57226.2180	210.0024	36.6667	3.3333	93.3338	5304.8807	176.6684	607056.9700	658634.9200	2627.0462	1616.8104	472199.7300
2	09:00:54	206454.6400	86.6671	170.0016	133.3343	110.0007	256.6703	56803.5800	220.0027	16.6667	3.3333	80.0004	5648.4209	220.0027	608833.4000	669722.6700	2603.7061	1686.8231	471389.2500
3	09:01:09	208834.7500	96.6672	190.0020	176.6684	130.0009	223.3361	58095.0360	176.6684	20.0000	10.0000	153.3346	5541.6886	236.6698	613854.7700	664746.6100	2453.6644	1713.4948	471480.4700
x		207554.8800	91.1116	156.6681	143.3345	118.8897	224.4473	57374.9440	202.2245	24.4445	5.5556	108.8896	5498.3300	211.1136	609915.0500	664368.0700	2561.4722	1672.3761	471689.8100
σ		1200.1820	5.0918	41.6340	29.6278	10.1836	31.6821	658.4485	22.6900	10.7152	3.8490	39.0636	175.8264	30.9726	3525.6226	5553.5574	94.0908	49.9350	443.9469
%RSD		0.5782	5.5885	26.5747	20.6704	8.5656	14.1156	1.1476	11.2202	43.8348	69.2821	35.8745	3.1978	14.6711	0.5781	0.8359	3.6733	2.9859	0.0941

SEQ-CAL2@S 5/23/2012 9:04:41 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	
1	09:04:57	117842.1900	100.0006	200023.2300	40.0001	1420.7777	347.3400	464.0118	36161.7790	163.3348	1353.4341	293.3381	790.0343	3297.2645	50.0001	20.0000	24.4445	16.6667	
2	09:05:13	118662.7600	93.3338	197117.4500	43.3334	1446.1150	364.0073	422.0098	36720.6800	210.0024	1320.0958	290.0046	770.0326	3427.3126	35.5556	6.6667	31.1112	20.0000	2
3	09:05:29	118588.4700	90.0004	197665.8400	53.3335	1473.4527	366.6741	443.3441	35950.9460	153.3346	1340.0988	283.3378	866.7080	3310.6027	31.1112	6.6667	45.5557	23.3334	1
x		118364.4700	94.4449	198268.8400	45.5557	1446.7818	359.3404	443.1219	36277.8020	175.5573	1337.8762	288.8935	808.9250	3345.0599	38.8890	11.1111	33.7038	20.0000	1
σ		453.8328	5.0918	1543.8906	6.9389	26.3439	10.4779	21.0019	397.7669	30.2465	16.7799	5.0919	51.0311	71.5444	9.8758	7.6980	10.7917	3.3333	
%RSD		0.3834	5.3913	0.7787	15.2317	1.8209	2.9159	4.7395	1.0964	17.2289	1.2542	1.7626	6.3085	2.1388	25.3949	69.2821	32.0194	16.6667	6

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	
1	09:04:57	206202.3400	60.0002	30.0000	26.6667	60.0002	33.3334	57840.0840	200.0022	1696.8250	50.0001	540.0160	8300.4543	7196.1804	605647.4600	662540.6500	8857.6464	6165.4233	47275
2	09:05:13	206502.3700	73.3336	26.6667	43.3334	73.3336	33.3334	56820.3510	203.3356	1810.1802	40.0001	543.3496	8654.1172	7209.5243	610182.8500	668791.0200	8964.4177	6275.4986	46976
3	09:05:29	204668.2500	60.0002	30.0000	23.3334	70.0003	83.3337	58396.9610	220.0027	1750.1685	40.0001	586.6856	8507.3121	7202.8523	612536.8500	663973.0300	9144.5970	6335.5402	46858
x		205790.9900	64.4447	28.8889	31.1112	67.7780	50.0002	57685.7990	207.7802	1752.3912	43.3334	556.6837	8487.2945	7202.8523	609455.7200	665101.5700	8988.8870	6258.8207	47036
σ		983.8218	7.6981	1.9245	10.7152	6.9389	28.8677	799.5487	10.7154	56.7103	5.7735	26.0358	177.6792	6.6719	3501.7797	3274.4469	145.0318	86.2760	214
%RSD		0.4781	11.9452	6.6617	34.4417	10.2377	57.7352	1.3860	5.1571	3.2362	13.3235	4.6769	2.0935	0.0926	0.5746	0.4923	1.6135	1.3785	

SEQ-CAL3@S 5/23/2012 9:09:02 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	09:09:17	117325.5700	410.0093	195431.6400	56.6668	3435.9825	1684.1560	634.6888	128092.7800	886.7099	6585.7179	1406.7755	3497.3393	4230.9843	146.6679	33.3334	160.0014	83.3337
2	09:09:33	117632.8400	456.6781	196589.5400	46.6668	3387.9645	1702.8261	626.0216	128893.9900	846.7061	6689.1267	1250.0859	3647.3982	4291.0125	152.2235	66.6669	155.5569	106.6673
3	09:09:49	116873.1300	493.3467	197727.1500	16.6667	3475.3308	1746.1677	633.3554	129276.0200	840.0388	6862.5893	1300.0930	3677.4103	4134.2732	146.6679	66.6669	163.3348	110.0007
x		117277.1800	453.3447	196582.7800	40.0001	3433.0926	1711.0499	631.3553	128754.2600	857.8183	6712.4780	1318.9848	3607.3826	4218.7567	148.5197	55.5557	159.6310	100.0006
σ		382.1571	41.7686	1147.7703	20.8167	43.7548	31.8133	4.6670	603.8676	25.2420	139.9050	80.0349	96.4745	79.0818	3.2076	19.2451	3.9022	14.5298
%RSD		0.3259	9.2134	0.5839	52.0417	1.2745	1.8593	0.7392	0.4690	2.9426	2.0843	6.0679	2.6744	1.8745	2.1597	34.6411	2.4445	14.5297

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb
1	09:09:17	202960.6000	46.6668	13.3333	33.3334	56.6668	36.6667	56686.1830	410.0093	8911.0319	186.6686	2780.4251	23249.6920	37908.8750	613277.7100	669113.5100	44408.2010	32173.4980
2	09:09:33	204279.6600	60.0002	13.3333	53.3335	43.3334	63.3336	56739.8500	356.6737	9004.4572	183.3352	2740.4130	22915.5120	37778.3330	612957.1400	671231.4100	43607.6730	30654.9310
3	09:09:49	204061.5100	50.0001	30.0000	30.0000	60.0002	60.0002	57726.0290	363.3406	9057.8435	176.6684	2810.4344	23570.5170	37353.2490	610660.0100	664112.7000	43674.6600	30745.2350
x		203767.2600	52.2224	18.8889	38.8890	53.3335	53.3335	57050.6880	376.6745	8991.1109	182.2241	2777.0908	23245.2400	37680.1520	612298.2900	668152.5400	43896.8440	31191.2220
σ		707.0463	6.9389	9.6225	12.6199	8.8192	14.5297	585.4784	29.0606	74.3102	5.0919	35.1296	327.5251	290.5335	1427.8142	3655.3517	444.1123	851.8741
%RSD		0.3470	13.2873	50.9427	32.4510	16.5360	27.2432	1.0262	7.7150	0.8265	2.7943	1.2650	1.4090	0.7711	0.2332	0.5471	1.0117	2.7311

SEQ-CAL4@S 5/23/2012 9:13:22 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	
1	09:13:37	118818.1000	4454.4244	200667.1900	63.3336	6108.0513	8665.4613	1566.1349	164209.7900	8667.4632	70072.3540	13339.7800	17433.3660	20533.1620	1571.2469	113.3340	384.4526	1
2	09:13:53	118250.7800	4521.1240	199747.2600	43.3334	6106.7170	8782.9073	1559.4671	166972.7700	8260.4179	71983.8680	13289.7070	17590.3350	20322.6900	1566.8017	66.6669	344.4510	1
3	09:14:09	117940.1100	4644.5195	199648.4600	70.0003	6233.4697	8948.4019	1576.8034	166521.2700	8694.1554	71412.7240	13002.6250	17126.1170	20666.7980	1565.6904	133.3343	344.4510	2
x		118336.3300	4540.0226	200020.9700	58.8891	6149.4127	8798.9235	1567.4685	165901.2800	8540.6788	71156.3150	13210.7040	17383.2730	20507.5500	1567.9130	104.4451	357.7848	1
σ		445.2030	96.4464	561.8194	13.8779	72.7986	142.1486	8.7448	1482.1640	243.0798	981.2139	181.9324	236.1286	173.4778	2.9402	34.2110	23.0949	
%RSD		0.3762	2.1244	0.2809	23.5661	1.1838	1.6155	0.5579	0.8934	2.8461	1.3790	1.3772	1.3584	0.8459	0.1875	32.7551	6.4550	

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	
1	09:13:37	208094.7400	126.6676	30.0000	43.3334	33.3334	36.6667	57632.1030	2707.0697	12708.8770	1943.5411	29434.2400	102979.9800	39649.6100	622079.9600	674626.0600	460537.0100	3295
2	09:13:53	207095.6400	70.0003	26.6667	13.3333	50.0001	26.6667	57970.9140	2770.4221	12368.4080	1843.5202	29394.1110	103832.9400	40948.6830	626205.9500	677695.5700	462398.0000	3363
3	09:14:09	207088.8200	76.6670	23.3334	30.0000	76.6670	43.3334	58645.2180	2700.4010	12548.6550	1920.2028	29618.1700	104008.2600	40181.9400	620365.1900	674048.8500	466433.1700	3366
x		207426.4000	91.1116	26.6667	28.8889	53.3335	35.5556	58082.7450	2725.9642	12541.9800	1902.4214	29482.1730	103607.0600	40260.0780	622883.7000	675456.8300	463122.7300	3341
σ		578.8073	30.9722	3.3333	15.0309	21.8583	8.3887	515.7326	38.6457	170.3327	52.3276	119.4729	550.0929	653.0519	3002.1867	1960.1690	3014.1479	40
%RSD		0.2790	33.9937	12.5000	52.0299	40.9841	23.5933	0.8879	1.4177	1.3581	2.7506	0.4052	0.5309	1.6221	0.4820	0.2902	0.6508	

SEQ-CAL5@S 5/23/2012 9:17:39 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78S
1	09:17:55	118115.7000	22828.6270	196518.0200	33.3334	25932.2670	42515.1830	5774.5001	757341.3200	40530.1470	343658.4000	63098.2190	82028.4140	96327.6560	7529.7837	536.6825	1735.721
2	09:18:10	116089.8600	22477.7540	197573.8700	56.6668	26197.0250	43077.1520	5663.7638	760517.4100	40453.1390	344309.0000	63299.6120	82539.6770	95344.0350	7417.4692	533.3490	1689.045
3	09:18:26	116181.0100	22073.4320	197907.6800	43.3334	25792.5370	42490.4010	5889.9074	764461.8800	41008.9540	347998.9200	63856.8220	83064.4240	97735.9010	7608.7383	500.0138	1779.062
x		116795.5200	22459.9380	197333.1900	44.4446	25973.9430	42694.2450	5776.0571	760773.5400	40664.0800	345322.1100	63418.2170	82544.1720	96469.1980	7518.6638	523.3484	1734.610
σ		1144.2168	377.9126	725.4214	11.7063	205.4390	331.8387	113.0799	3567.1806	301.1414	2340.9027	392.9631	518.0197	1202.1984	96.1182	20.2770	45.018
%RSD		0.9797	1.6826	0.3676	26.3392	0.7909	0.7772	1.9577	0.4689	0.7406	0.6779	0.6196	0.6276	1.2462	1.2784	3.8745	2.595

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205T
1	09:17:55	207317.2700	53.3335	20.0000	33.3334	33.3334	53.3335	57239.6350	12668.8210	60742.2530	9241.3614	142460.8900	480041.5000	192697.5300	613163.7300	676784.6500	2359227.400
2	09:18:10	206386.4500	66.6669	33.3334	46.6668	66.6669	50.0001	57343.6210	12758.9470	61020.7760	9448.2406	143595.1900	483539.7900	194093.4200	615507.7900	668880.6000	2357810.800
3	09:18:26	204197.8500	60.0002	23.3334	63.3336	53.3335	30.0000	57256.4070	12331.6920	61148.2950	9144.5970	143940.5900	486037.8600	195506.5600	616997.1700	670453.7100	2347704.200
x		205967.1900	60.0002	25.5556	47.7779	51.1113	44.4446	57279.8880	12586.4870	60970.4420	9278.0663	143332.2200	483206.3800	194099.1700	615222.9000	672039.6600	2354914.100
σ		1601.4156	6.6667	6.9389	15.0309	16.7775	12.6199	55.8279	225.2134	207.6479	155.1138	774.1087	3012.0464	1404.5234	1932.5345	4183.8870	6284.044
%RSD		0.7775	11.1111	27.1522	31.4600	32.8254	28.3946	0.0975	1.7893	0.3406	1.6718	0.5401	0.6233	0.7236	0.3141	0.6226	0.266

SEQ-CAL6@S 5/23/2012 9:21:57 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77S
1	09:22:13	108365.3700	205523.9000	182102.4500	56.6668	233298.2900	398372.7300	50032.6350	τ 6668664.6000	386804.2100	τ 3104832.7000	572070.5000	741624.8700	877914.4800	68422.0770	4554.47
2	09:22:29	108419.3500	205319.3600	180480.5900	76.6670	234508.8400	397228.2500	49789.9750	τ 6756315.1000	381486.4300	τ 3133681.3000	574730.6700	742469.8400	881603.8400	68948.2520	4881.31
3	09:22:45	108911.8500	203577.5000	180494.1900	40.0001	233014.4800	396900.3900	49826.1720	τ 6716330.6000	385740.4100	τ 3151356.9000	569790.4400	738476.7700	878713.0400	69356.8990	4784.59
x		108565.5200	204806.9200	181025.7400	57.7780	233607.2000	397500.4600	49882.9270	τ 6713770.1000	384677.0200	τ 3129956.9000	572197.2000	740857.1600	879410.4500	68909.0760	4740.12
σ		301.1374	1069.6085	932.4838	18.3587	793.6326	772.9969	130.9077	τ 43881.3000	2813.8597	τ 23484.6240	2472.5485	2104.3250	1941.0387	468.6406	167.89
%RSD		0.2774	0.5223	0.5151	31.7745	0.3397	0.1945	0.2624	τ 0.6536	0.7315	τ 0.7503	0.4321	0.2840	0.2207	0.6801	3.54

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165H
1	09:22:13	189630.7100	50.0001	66.6669	186.6686	70.0003	106.6673	51689.8680	112380.3500	554836.6900	84174.5660	1367640.7000	τ 4390994.4000	τ 1860386.2000	579016.9000	634727.56
2	09:22:29	187973.4900	100.0006	70.0003	213.3358	86.6671	136.6677	51555.7770	111486.1000	558136.4400	85379.0530	1357195.2000	τ 4418244.8000	τ 1874868.3000	576554.2100	632835.58
3	09:22:45	186027.4000	93.3338	63.3336	166.6682	86.6671	120.0008	50359.0970	113038.4300	551283.3300	83417.6360	1354108.3000	τ 4351877.3000	τ 1865686.1000	567688.1800	630330.19
x		187877.2000	81.1115	66.6669	188.8909	81.1115	121.1119	51201.5800	112301.6300	554752.1600	84323.7520	1359648.1000	τ 4387038.8000	τ 1866980.2000	574419.7600	632631.11
σ		1803.5841	27.1486	3.3334	23.4131	9.6226	15.0310	732.6863	779.1516	3427.3370	989.1821	7091.8235	τ 33360.1290	τ 7327.2770	5958.3464	2205.80
%RSD		0.9600	33.4708	5.0000	12.3950	11.8634	12.4109	1.4310	0.6938	0.6178	1.1731	0.5216	τ 0.7604	τ 0.3925	1.0373	0.34

SEQ-CAL7@S 5/23/2012 9:26:17 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As
1	09:26:32	105458.1500	388455.7800	175375.4500	76.6670	μ 467814.8500	μ 792179.4500	97751.4000	τ 12839939.0000	μ 760774.2900	τ 6008479.8000	1092037.0000	1403847.3000	1658700.1000	μ 134419.8200
2	09:26:48	105060.2500	390281.5300	176231.7700	100.0006	μ 466144.9400	μ 794641.0000	98922.6340	τ 12941745.0000	μ 767546.2200	TM 6070074.9000	1105613.8000	1420191.4000	1677039.1000	μ 134605.8700
3	09:27:04	104301.5900	389958.0900	176751.7200	63.3336	μ 468731.6500	μ 799276.1000	99269.0460	τ 13013462.0000	μ 771779.7700	TM 6076523.6000	1097391.2000	1424539.5000	1671576.8000	μ 135158.4300
x		104940.0000	389565.1300	176119.6500	80.0004	μ 467563.8100	μ 795365.5200	98647.6930	τ 12931715.0000	μ 766700.0900	TM 6051692.8000	1098347.4000	1416192.7000	1669105.3000	μ 134728.0400
σ		587.5836	974.2466	694.9533	18.5594	μ 1311.5015	μ 3603.3729	795.3029	τ 87195.2580	μ 5551.3118	TM 37562.1940	6838.6843	10910.2470	9416.0174	μ 384.1600
%RSD		0.5599	0.2501	0.3946	23.1991	μ 0.2805	μ 0.4530	0.8062	τ 0.6743	μ 0.7241	TM 0.6207	0.6226	0.7704	0.5641	μ 0.2851

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb
1	09:26:32	181963.0400	200.0022	106.6673	323.3391	100.0006	223.3361	49970.2940	210516.2100	1053902.0000	158360.7200	μ 2650959.9000	τ 8214214.1000	τ 3579813.3000	τ 576932.6900
2	09:26:48	180008.0200	180.0018	156.6680	323.3391	96.6672	223.3361	49759.1400	213729.9000	1061986.7000	158621.8800	μ 2657767.1000	τ 8192825.1000	τ 3584743.3000	τ 578311.6500
3	09:27:04	179100.3600	183.3352	163.3348	346.6733	133.3343	226.6695	48961.4930	213173.7400	μ 1063058.4000	158784.6900	μ 2643444.3000	τ 8195930.6000	τ 3573876.6000	551085.1800
x		180357.1400	187.7797	142.2234	331.1172	110.0007	224.4472	49563.6420	212473.2800	μ 1059649.1000	158589.1000	μ 2650723.8000	τ 8200989.9000	τ 3579477.7000	τ 568776.5100
σ		1462.9235	10.7154	30.9724	13.4720	20.2761	1.9245	532.0564	1717.5377	μ 5005.8347	213.8761	μ 7164.3480	τ 11557.2360	τ 5441.1230	τ 15336.6490
%RSD		0.8111	5.7064	21.7773	4.0687	18.4327	0.8575	1.0735	0.8084	μ 0.4724	0.1349	μ 0.2703	τ 0.1409	τ 0.1520	τ 2.6964

SEQ-CAL8@S 5/23/2012 9:30:37 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82S
1	09:30:53	113213.9300	50.0001	188807.1600	36.6667	450.6778	69.3336	210.0024	14621.7490	TM 4239401.1000	526.6819	96.6672	1793.5102	τ 8944666.8000	17.7778	3.3333	4.4444	33.333
2	09:31:09	112690.8200	60.0002	191621.8100	73.3336	485.3463	59.3335	214.0025	14788.6860	TM 4264176.2000	520.0149	140.0011	1723.4967	τ 9017208.8000	15.5556	0.0000	10.0000	6.666
3	09:31:25	113193.6800	43.3334	192108.5900	56.6668	455.3447	46.0001	180.6685	14885.5100	TM 4283557.2000	483.3462	113.3340	1673.4873	τ 9091940.9000	4.4444	0.0000	2.2222	3.333
x		113032.8100	51.1113	190845.8600	55.5557	463.7896	58.2224	201.5578	14765.3150	TM 4262378.2000	510.0143	116.6674	1730.1648	τ 9017938.9000	12.5926	1.1111	5.5556	14.444
σ		296.3428	8.3888	1782.2561	18.3587	18.8139	11.7064	18.2009	133.4245	TM 22132.8980	23.3346	21.8584	60.2886	τ 73639.7610	7.1435	1.9245	4.0062	16.443
%RSD		0.2622	16.4127	0.9339	33.0455	4.0566	20.1063	0.9301	0.9036	TM 0.5193	4.5753	18.7357	3.4846	τ 0.8166	56.7274	173.2051	72.1110	113.835

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208P
1	09:30:53	197863.4000	56.6668	120.0008	33.3334	56.6668	43.3334	56048.9170	310.0053	206.6690	50.0001	240.0032	15960.6650	τ 19596945.0000	596519.2400	653002.9300	33277.4620	2920.469
2	09:31:09	197689.6800	66.6669	76.6670	40.0001	80.0004	46.6668	55807.4380	293.3381	223.3361	66.6669	220.0027	16174.3760	TM 19640309.0000	598009.1700	646705.8200	32812.4430	2550.357
3	09:31:25	199941.4600	56.6668	50.0001	30.0000	53.3335	30.0000	56528.5400	310.0053	193.3354	30.0000	166.6682	16334.6620	TM 19767875.0000	600534.4200	650299.0600	30989.3960	2573.697
x		198498.1800	60.0002	82.2226	34.4445	63.3336	40.0001	56128.2980	304.4496	207.7802	48.8890	208.8913	16156.5680	TM 19668376.0000	598354.2800	650002.6100	32359.7670	2681.508
σ		1252.9337	5.7735	35.3295	5.0918	14.5298	8.8192	367.0461	9.6228	15.0312	18.3587	37.9091	187.6333	TM 88854.3260	2029.7152	3159.0047	1209.3380	207.275
%RSD		0.6312	9.6225	42.9681	14.7825	22.9417	22.0480	0.6539	3.1607	7.2342	37.5517	18.1478	1.1613	TM 0.4518	0.3392	0.4860	3.7372	7.729

SEQ-ICV@ICV01 5/23/2012 9:39:22 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	
1	09:39:38	106942.0000	42174.2670	179430.1000	30.0000	48502.3760	81172.7850	10226.4150	599261.0400	78783.2340	660181.2700	121962.6700	157322.9300	363068.0700	29096.4890	1940.2070	6603.
2	09:39:54	107862.7800	41876.2270	182405.1000	66.6669	48698.7550	81213.1430	10219.7410	604576.2300	77700.6430	664707.2100	122371.4400	157400.9300	359652.9300	29093.1450	1986.8838	6549.
3	09:40:09	108125.8800	41782.4640	182653.3400	60.0002	48787.2270	81733.7780	10343.8810	606035.4100	79213.6170	663614.9100	122594.4100	155468.1000	363172.1100	29386.3080	2060.2334	6664.
x		107643.5600	41944.3200	181496.1800	52.2224	48662.7860	81373.2360	10263.3460	603290.8900	78565.8320	662834.4600	122309.5100	156730.6500	361964.3700	29191.9810	1995.7747	6605.
σ		621.6422	204.5844	1793.5787	19.5317	145.7923	312.8904	69.8255	3565.4008	779.5640	2361.7527	320.3941	1094.1019	2002.4408	168.3006	60.5051	57.
%RSD		0.5775	0.4878	0.9882	37.4009	0.2996	0.3845	0.6803	0.5910	0.9922	0.3563	0.2620	0.6981	0.5532	0.5765	3.0317	0.

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	2
1	09:39:38	190576.8500	116.6674	46.6668	86.6671	90.0004	46.6668	53413.1200	23089.2840	896019.5900	17643.7720	270797.3600	1869339.0000	376883.6200	579339.8700	634713.2800	τ9543776.
2	09:39:54	191342.6900	126.6676	60.0002	76.6670	60.0002	66.6669	54197.7430	23376.6840	910971.7400	17326.4960	273465.4700	1910714.1000	378700.1500	583841.2600	640030.7000	τ9502257.
3	09:40:09	191053.3700	133.3343	46.6668	66.6669	60.0002	56.6668	54103.8530	23370.0000	924773.0300	17553.5970	276206.5000	1922098.3000	380065.3900	582779.6200	631547.1100	τ9504967.
x		190990.9700	125.5564	51.1113	76.6670	70.0003	56.6668	53904.9050	23278.6560	910588.1200	17507.9550	273489.7800	1900717.1000	378549.7200	581986.9200	635430.3600	τ9517000.
σ		386.7125	8.3888	7.6980	10.0001	17.3207	10.0001	428.4782	164.0349	14380.5580	163.4884	2704.6495	27764.0130	1596.2120	2353.0651	4287.0098	τ23228.
%RSD		0.2025	6.6813	15.0614	13.0435	24.7437	17.6471	0.7949	0.7047	1.5793	0.9338	0.9889	1.4607	0.4217	0.4043	0.6747	τ0.

SEQ-ICB@ICB01 5/23/2012 9:43:49 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	09:44:05	109944.1600	3.3333	185782.4600	50.0001	613.3540	36.0001	302.0050	12545.3170	30.0000	123.3342	66.6669	216.6693	370.0075	11.1111	0.0000	6.6667	6.6667	10.0000
2	09:44:20	110365.8900	10.0000	185806.2800	66.6669	637.3557	37.3334	283.3378	12655.4690	46.6668	110.0007	90.0004	183.3352	340.0064	5.5556	0.0000	1.1111	26.6667	20.0000
3	09:44:36	109708.0000	6.6667	184966.0700	50.0001	608.0203	36.0001	284.0044	13182.8850	56.6668	53.3335	63.3336	260.0037	456.6781	10.0000	6.6667	4.4444	6.6667	26.6667
x		110006.0200	6.6667	185518.2700	55.5557	619.5767	36.4445	289.7824	12794.5570	44.4446	95.5561	73.3336	220.0027	388.8973	8.8889	2.2222	4.0741	13.3333	18.8889
σ		333.2791	3.3333	478.3688	9.6226	15.6263	0.7698	10.5903	340.7818	13.4716	37.1686	14.5298	38.4428	60.5863	2.9397	3.8490	2.7962	11.5470	8.3887
%RSD		0.3030	50.0000	0.2579	17.3206	2.5221	2.1123	3.6546	2.6635	30.3110	38.8972	19.8133	17.4738	15.5790	33.0719	173.2051	68.6349	86.6026	44.4108

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	09:44:05	191329.0800	50.0001	80.0004	40.0001	53.3335	0.0000	55233.9520	193.3354	166.6682	0.0000	36.6667	8066.9109	136.6677	589741.0700	641670.4500	4574.4840	996.7213	461700.5300
2	09:44:20	192656.6800	36.6667	30.0000	13.3333	93.3338	36.6667	55988.5470	136.6677	133.3343	0.0000	26.6667	8350.5001	153.3346	588096.1400	642345.7300	4734.5659	856.7070	457937.1600
3	09:44:36	192653.2700	50.0001	56.6668	36.6667	83.3337	26.6667	55435.1710	183.3352	196.6688	0.0000	33.3334	8370.5185	146.6679	591734.5600	642570.8300	4687.8750	746.6973	462559.2400
x		192213.0100	45.5557	55.5557	30.0001	76.6670	21.1111	55552.5570	171.1128	165.5571	0.0000	32.2223	8262.6432	145.5567	589857.2600	642195.6700	4665.6416	866.7086	460732.3100
σ		765.5093	7.6980	25.0187	14.5297	20.8168	18.9542	390.7530	30.2464	31.6819	0.0000	5.0918	169.8044	8.3888	1821.9905	468.5711	82.3244	125.3117	2458.4510
%RSD		0.3983	16.8981	45.0334	48.4323	27.1523	89.7828	0.7034	17.6763	19.1365	0.0000	15.8020	2.0551	5.7633	0.3089	0.0730	1.7645	14.4583	0.5336

SEQ-IFA@ICSA01 5/23/2012 9:48:15 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se
1	09:48:31	96388.2940	80.0004	164097.8000	891550.6100	415.3428	14591.7010	1964.2122	τ48070095.0000	5765.1608	6912.6271	5915.2572	11036.6950	16902.3650	42.2223	0.0000
2	09:48:48	96664.5370	83.3337	165872.9100	910008.7500	426.0100	14625.0880	1950.8760	τ48592996.0000	5595.0546	6368.8968	5715.1292	11170.1920	17072.6830	44.4446	0.0000
3	09:49:04	95408.0350	106.6673	166507.6900	910431.4200	418.0096	14471.5090	1995.5523	τ48768800.0000	5414.9455	6996.0242	6005.3162	10986.6350	17049.3060	44.4446	0.0000
x		96153.6220	90.0005	165492.8000	903996.9300	419.7875	14562.7660	1970.2135	τ48477297.0000	5591.7203	6759.1827	5878.5675	11064.5070	17008.1180	43.7038	0.0000
σ		660.3052	14.5298	1249.1051	10780.8990	5.5514	80.7746	22.9348	τ363437.4100	175.1314	340.5600	148.5319	94.8863	92.3275	1.2830	0.0000
%RSD		0.6867	16.1442	0.7548	1.1926	1.3224	0.5547	1.1641	τ0.7497	3.1320	5.0385	2.5267	0.8576	0.5428	2.9357	0.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho
1	09:48:31	165516.5000	2645036.2000	τ4482464.4000	τ4890776.3000	τ3085009.0000	τ7622683.8000	45118.3510	163.3348	103.3339	3610.7169	4594.4941	12158.1250	4897.9858	515756.7100	558405.5700
2	09:48:48	166134.2900	2672039.5000	τ4577152.9000	τ4941999.1000	τ3116461.5000	τ7717505.9000	45460.0470	153.3346	93.3338	3604.0476	4537.7989	12204.8540	5154.7944	513338.7900	557491.9800
3	09:49:04	167152.7000	2687859.7000	τ4563100.8000	τ4938981.7000	3146155.9000	τ7697859.8000	45701.2520	130.0009	90.0004	3497.3393	4441.0845	12652.1310	5001.3754	512077.2000	557194.5500
x		166267.8300	2668311.8000	τ4540906.0000	τ4923919.1000	τ3115875.5000	τ7679349.8000	45426.5500	148.8901	95.5561	3570.7013	4524.4592	12338.3700	5018.0518	513724.2300	557697.3700
σ		826.2333	21653.7720	τ51097.2900	τ28742.0700	τ30577.6650	τ50047.7210	292.8905	17.1056	6.9390	63.6208	77.5699	272.7280	129.2139	1869.7917	631.0951
%RSD		0.4969	0.8115	τ1.1253	τ0.5837	τ0.9814	τ0.6517	0.6448	11.4887	7.2617	1.7817	1.7145	2.2104	2.5750	0.3640	0.1132

SEQ-IFB@ICSAB01 5/23/2012 9:52:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	
1	09:52:58	96432.0880	6468.9675	166901.4800	907708.2500	9293.4145	29242.2890	3828.8061	τ48818579.0000	20476.3680	117197.2600	24640.0140	34632.5090	44528.7880	2366.9748	196
2	09:53:13	95364.2460	6699.1341	167298.6800	913026.6900	9232.0186	29878.3520	3913.5088	τ49374487.0000	19981.9360	119601.6100	25214.9200	36697.2520	45999.4170	2411.4309	123
3	09:53:29	93734.0890	6572.3749	166548.4300	918002.3100	9314.1023	29507.8120	3876.8265	τ49577009.0000	20730.2760	119395.5900	24770.3670	35351.9370	45356.1970	2395.8712	136
x		95176.8080	6580.1588	166916.2000	912912.4200	9279.8451	29542.8180	3873.0471	τ49256692.0000	20396.1930	118731.4900	24875.1000	35560.5660	45294.8010	2391.4256	152
σ		1358.7307	115.2806	375.3440	5147.9801	42.6911	319.4733	42.4776	τ392696.7800	380.5575	1332.6643	301.4235	1048.0628	737.2341	22.5590	39
%RSD		1.4276	1.7519	0.2249	0.5639	0.4600	1.0814	1.0967	τ0.7972	1.8658	1.1224	1.2117	2.9473	1.6276	0.9433	25

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	1
1	09:52:58	168680.5400	2700155.0000	τ4553974.2000	τ4897192.8000	3130512.9000	τ7718862.1000	45533.7480	3794.1249	131693.6800	5971.9609	46756.5980	167994.6800	74332.6570	512711.5000	562273.
2	09:53:13	168585.4600	2727927.6000	τ4649043.0000	τ5030193.9000	3179954.0000	τ7764440.5000	45624.2000	3834.1417	131487.4000	6275.4986	47064.8490	167040.6700	74846.8500	516140.9600	562149.
3	09:53:29	168008.2600	2724617.3000	τ4639463.7000	τ4967955.9000	3158322.3000	τ7775033.4000	45583.9990	3734.1001	133621.5100	6248.8136	47544.0000	170500.6900	73253.9530	516165.6300	559843.
x		168424.7500	2717566.6000	τ4614160.3000	τ4965114.2000	3156263.1000	τ7752778.7000	45580.6490	3787.4556	132267.5300	6165.4243	47121.8160	168512.0100	74144.4870	515006.0300	561422.
σ		363.8139	15169.4580	τ52342.2630	τ66546.0750	24784.7890	τ29846.2940	45.3189	50.3532	1177.1088	168.0747	396.7797	1787.0807	812.9487	1987.1615	1368.
%RSD		0.2160	0.5582	τ1.1344	τ1.3403	0.7853	τ0.3850	0.0994	1.3295	0.8899	2.7261	0.8420	1.0605	1.0964	0.3859	0.

SEQ-CCV@CCV01 5/23/2012 9:57:04 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77
1	09:57:20	100468.7800	182714.5500	174954.1100	190.0020	227487.1000	389486.5000	49377.0650	r 6406518.2000	381455.1600	3219616.9000	543982.6400	707715.2600	r 3875862.7000	68499.3220	4564.47
2	09:57:37	100620.4500	184193.9600	177254.7100	140.0011	228245.0800	392161.2200	49529.2230	r 6422434.9000	381965.9500	3241974.7000	547501.4000	710118.9500	r 3895980.9000	68154.5230	4714.55
3	09:57:52	101196.7900	185700.8200	177312.4800	103.3339	228921.1000	393857.5800	49326.1230	r 6454653.9000	386307.0600	3243076.3000	548095.6500	711709.7500	r 3911029.8000	69205.7530	4657.85
x		100762.0100	184203.1100	176507.1000	144.4457	228217.7600	391835.1000	49410.8040	r 6427869.0000	383242.7200	3234889.3000	546526.5700	709847.9900	r 3894291.1000	68619.8660	4645.63
σ		384.0943	1493.1559	1345.2372	43.5046	717.3888	2203.7102	105.6698	r 24523.6060	2666.0564	13237.7470	2223.0488	2010.9834	r 17644.3060	535.8820	75.78
%RSD		0.3812	0.8106	0.7621	30.1183	0.3143	0.5624	0.2139	r 0.3815	0.6957	0.4092	0.4068	0.2833	r 0.4531	0.7809	1.63

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165H
1	09:57:20	188215.0700	1143.4052	1893.5305	2086.9062	1183.4104	3063.8495	51438.4480	109195.2200	537009.1500	81846.7880	1321559.6000	r 4268131.2000	r 9050969.5000	576845.1600	632153.85
2	09:57:37	186738.4200	1123.4027	1846.8542	2066.9016	1260.0873	2903.7970	52165.9090	109282.9300	534253.7000	81271.6630	1325583.9000	r 4299083.5000	r 9053290.8000	579921.9500	630804.81
3	09:57:52	184540.8900	1346.7664	1920.2028	1983.5497	1153.4065	3250.5810	52786.1400	108297.9100	543611.3900	82499.3130	1332404.8000	r 4281211.3000	r 9098483.2000	582737.0100	633131.85
x		186498.1300	1204.5248	1886.8625	2045.7858	1198.9681	3072.7425	52130.1660	108925.3500	538291.4200	81872.5880	1326516.1000	r 4282808.7000	r 9067581.2000	579834.7100	632030.17
σ		1848.8407	123.5902	37.1261	54.8183	55.0157	173.5630	674.5568	545.1461	4808.8187	614.2317	5482.3648	r 15537.8660	r 26787.0860	2946.8984	1168.44
%RSD		0.9913	10.2605	1.9676	2.6796	4.5886	5.6485	1.2940	0.5005	0.8933	0.7502	0.4133	r 0.3628	r 0.2954	0.5082	0.18

SEQ-CCB@CCB01 5/23/2012 10:01:30 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	8
1	10:01:46	107626.6800	30.0000	189981.2500	60.0002	578.6851	46.0001	273.3374	13857.2200	46.6668	293.3381	106.6673	370.0075	700.0270	11.1111	3.3333	3.3333	10.0000	13.
2	10:02:02	108658.8500	20.0000	188371.6000	50.0001	614.0207	46.0001	243.3366	13443.2660	70.0003	223.3361	73.3336	350.0067	636.6890	11.1111	0.0000	4.4444	10.0000	20.
3	10:02:18	107798.7000	13.3333	188800.3600	36.6667	606.0202	54.6668	279.3376	13910.6350	53.3335	176.6684	93.3338	240.0032	573.3514	6.6667	3.3333	2.2222	0.0000	16.
x		108028.0700	21.1111	189051.0700	48.8890	599.5753	48.8890	265.3372	13737.0400	56.6668	231.1142	91.1116	320.0058	636.6891	9.6296	2.2222	3.3333	6.6667	16.
σ		552.9952	8.3887	833.5961	11.7063	18.5285	5.0037	19.2879	255.8141	12.0186	58.7225	16.7776	70.0023	63.3378	2.5660	1.9245	1.1111	5.7735	3.
%RSD		0.5119	39.7360	0.4409	23.9447	3.0903	10.2349	7.2692	1.8622	21.2092	25.4084	18.4143	21.8753	9.9480	26.6469	86.6025	33.3333	86.6025	20.

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	20
1	10:01:46	199270.3000	243.3366	336.6729	400.0088	260.0037	586.6856	57343.6210	203.3356	166.6682	13.3333	143.3345	9691.8302	783.3671	611076.6600	664395.6300	33464.8140	1580.1373	472427.8
2	10:02:02	200779.6400	286.6712	506.6808	470.0122	346.6733	613.3540	56344.0670	153.3346	100.0006	6.6667	96.6672	9678.4826	673.3583	609249.9600	665294.6000	32521.4000	1456.7834	470028.0
3	10:02:18	197914.4900	353.3402	463.3451	506.6808	320.0056	650.0232	56696.2460	173.3350	123.3342	3.3333	66.6669	9701.8408	586.6856	605134.9600	651139.4700	30420.8130	1326.7635	472940.1
x		199321.4800	294.4493	435.5663	458.9006	308.8942	616.6876	56794.6440	176.6684	130.0010	7.7778	102.2229	9690.7179	681.1370	608487.1900	660276.5600	32135.6760	1454.5614	471798.6
σ		1433.2566	55.4128	88.3426	54.1971	44.3903	31.8001	506.9900	25.1666	33.8301	5.0918	38.6345	11.7188	98.5712	3043.4029	7925.7149	1558.2274	126.7015	1554.6
%RSD		0.7191	18.8191	20.2822	11.8102	14.3707	5.1566	0.8927	14.2451	26.0230	65.4654	37.7944	0.1209	14.4716	0.5002	1.2004	4.8489	8.7106	0.3

2052309-BLK1@PBW01@MF5WC4@42562 5/23/2012 10:20:15 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	10:20:31	118423.0000	16.6667	206839.9200	60.0002	757.3649	21.3334	349.3401	13520.0460	30.0000	13.3333	36.6667	320.0056	353.3402	5.5556	6.6667	1.1111	0.0000	3.3333
2	10:20:46	116522.0000	10.0000	206042.1000	60.0002	811.3695	51.3335	364.0073	13553.4290	20.0000	10.0000	40.0001	256.6703	386.6749	4.4444	6.6667	6.6667	13.3333	6.6667
3	10:21:02	117214.1500	0.0000	209619.1700	36.6667	836.0384	29.3334	344.6732	13964.0500	33.3334	23.3334	40.0001	286.6712	356.6737	6.6667	0.0000	2.2222	10.0000	13.3333
x		117386.3800	8.8889	207500.4000	52.2224	801.5910	34.0001	352.6735	13679.1750	27.7778	15.5556	38.8890	287.7824	365.5629	5.5556	4.4444	3.3333	7.7778	7.7778
σ		962.1300	8.3887	1877.7692	13.4716	40.2380	15.5350	10.0889	247.2728	6.9389	6.9389	1.9245	31.6823	18.3593	1.1111	3.8490	2.9397	6.9389	5.0918
%RSD		0.8196	94.3729	0.9049	25.7966	5.0198	45.6910	2.8607	1.8077	24.9800	44.6072	4.9487	11.0091	5.0222	20.0000	86.6025	88.1917	89.2143	65.4654

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	10:20:31	214917.4100	76.6670	60.0002	96.6672	83.3337	106.6673	61483.8810	150.0012	10.0000	0.0000	3.3333	12458.5310	60.0002	643642.8300	693323.9200	3654.0676	403.3423	494886.6100
2	10:20:46	217323.6100	63.3336	63.3336	73.3336	90.0004	96.6672	61584.5590	83.3337	26.6667	0.0000	3.3333	12795.6650	63.3336	641363.2000	698397.7500	3864.1544	356.6737	487538.4200
3	10:21:02	216070.9400	136.6677	56.6668	76.6670	83.3337	80.0004	62171.8690	230.0029	26.6667	0.0000	0.0000	12498.5860	46.6668	645569.1500	702442.2400	4144.2777	336.6729	488336.2500
x		216103.9900	92.2227	60.0002	82.2226	85.5560	94.4449	61746.7700	154.4460	21.1111	0.0000	2.2222	12584.2610	56.6668	643525.0600	698054.6400	3887.4999	365.5630	490253.7600
σ		1203.4399	39.0635	3.3334	12.6199	3.8490	13.4716	371.5728	73.4355	9.6225	0.0000	1.9245	184.1740	8.8192	2105.4446	4568.8328	245.9375	34.2121	4031.9462
%RSD		0.5569	42.3578	5.5556	15.3485	4.4989	14.2640	0.6018	47.5477	45.5803	0.0000	86.6025	1.4635	15.5633	0.3272	0.6545	6.3264	9.3587	0.8224

2052309-BS1@LCS01 5/23/2012 10:24:38 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82
1	10:24:54	118878.8900	910.0456	209953.4100	63.3336	5997.3109	3620.7209	838.0386	247969.7200	1680.1552	14120.9590	2683.7294	6802.5442	7926.7877	315.5610	130.0009	362.2294	193.3
2	10:25:09	120006.9000	920.0466	209960.2400	50.0001	5951.9478	3585.3735	822.0372	254434.7300	1646.8158	14044.1730	2743.7473	6955.9935	7723.2793	266.6706	160.0014	358.8960	180.0
3	10:25:25	118520.9300	906.7119	208422.1100	43.3334	5972.6280	3574.7027	784.0338	254948.8400	1673.4873	14087.5740	2520.3493	6959.3294	8036.8843	330.0060	103.3339	335.5618	196.6
x		119135.5700	912.2680	209445.2500	52.2224	5973.9622	3593.5990	814.7032	252451.1000	1666.8195	14084.2350	2649.2753	6905.9557	7895.6504	304.0792	131.1121	352.2291	190.0
σ		775.5268	6.9396	886.0746	10.1836	22.7110	24.0866	27.7393	3889.4869	17.6416	38.5014	115.6157	89.5726	159.1043	33.1921	28.3501	14.5302	8.8
%RSD		0.6510	0.7607	0.4231	19.5004	0.3802	0.6703	3.4048	1.5407	1.0584	0.2734	4.3640	1.2970	2.0151	10.9156	21.6228	4.1252	4.6

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208
1	10:24:54	217828.8200	113.3340	83.3337	90.0004	100.0006	93.3338	62611.5380	626.6883	18171.4760	380.0079	5881.9022	48941.3860	77082.0780	647492.2900	702075.4700	94144.9690	63732.6
2	10:25:09	216978.8500	53.3335	50.0001	60.0002	136.6677	113.3340	61212.0560	693.3598	18849.5220	323.3391	5785.1735	48874.3600	79284.2280	647570.9400	705751.0200	93730.7210	64595.3
3	10:25:25	219095.3800	90.0004	86.6671	100.0006	103.3339	120.0008	61826.1900	670.0247	18722.5930	326.6725	5735.1418	49236.3050	77858.6530	647932.0200	698225.2300	93444.4640	64313.3
x		217967.6900	85.5560	73.3336	83.3337	113.3341	108.8896	61883.2610	663.3576	18581.1970	343.3399	5800.7392	49017.3500	78074.9860	647665.0800	702017.2400	93773.3850	64213.7
σ		1065.0768	30.2462	20.2760	20.8168	20.2761	13.8779	701.4846	33.8321	360.4593	31.7992	74.6081	192.5592	1116.9006	234.4961	3763.2356	352.1960	439.8
%RSD		0.4886	35.3525	27.6490	24.9801	17.8906	12.7450	1.1336	5.1001	1.9399	9.2617	1.2862	0.3928	1.4305	0.0362	0.5361	0.3756	0.6

1205175-01@MF5WC4 5/23/2012 10:28:58 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	10:29:14	112984.4300	6.6667	203083.3000	596.6863	1376.1041	162.6681	641.3560	41132.8450	5238.1753	56.6668	333.3394	1363.4356	3717.4266	22.2222	0.0000	2.2222	23.3334
2	10:29:30	113433.3000	3.3333	204105.8200	583.3521	1418.7774	167.3349	597.3530	41504.5290	5204.8229	66.6669	413.3427	1270.0887	3670.7409	12.2222	6.6667	8.8889	10.0000
3	10:29:45	113119.4300	10.0000	202388.0500	610.0205	1439.4473	136.6677	632.6887	41514.5740	5334.8982	90.0004	243.3366	1440.1141	3850.8154	12.2222	3.3333	1.1111	10.0000
x		113179.0500	6.6667	203192.3900	596.6863	1411.4429	155.5569	623.7992	41383.9830	5259.2988	71.1114	330.0063	1357.8794	3746.3276	15.5556	3.3333	4.0741	14.4445
σ		230.2994	3.3333	864.0654	13.3342	32.3022	16.5241	23.3095	217.5496	67.5615	17.1055	85.0521	85.1487	93.4514	5.7735	3.3333	4.2066	7.6980
%RSD		0.2035	50.0000	0.4252	2.2347	2.2886	10.6225	3.7367	0.5257	1.2846	24.0545	25.7729	6.2707	2.4945	37.1154	100.0000	103.2529	53.2939

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb
1	10:29:14	197635.1800	1226.7494	2136.9178	2353.6380	1540.1304	3604.0476	50225.0250	186.6686	30.0000	3.3333	6.6667	59712.1290	23333.2390	580266.2400	636291.4100	3223.9049	7813.3562
2	10:29:30	196078.6800	1243.4184	2276.9518	2420.3221	1560.1339	3554.0279	51589.2990	176.6684	40.0001	13.3333	13.3333	61195.2760	23871.3000	579094.9800	636644.9200	3183.8908	7533.1198
3	10:29:45	195206.8900	1316.7620	2063.5675	2246.9443	1616.8104	3857.4849	51830.6660	120.0008	46.6668	43.3334	3.3333	61000.6420	24148.6980	581040.0600	632742.7800	3420.6434	7723.2793
x		196306.9200	1262.3099	2159.1457	2340.3015	1572.3582	3671.8535	51214.9970	161.1126	38.8890	20.0000	7.7778	60636.0160	23784.4120	580133.7600	635226.3700	3276.1464	7689.9185
σ		1230.1310	47.8877	108.4148	87.4549	39.7748	162.6953	865.7932	35.9532	8.3887	20.8167	5.0918	806.0058	414.6147	979.2844	2158.1014	126.7274	143.0658
%RSD		0.6266	3.7937	5.0212	3.7369	2.5296	4.4309	1.6905	22.3156	21.5710	104.0834	65.4654	1.3293	1.7432	0.1688	0.3397	3.8682	1.8604

2052309-MS1@MF5WC4S 5/23/2012 10:33:17 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se
1	10:33:33	115515.9500	18194.8560	209319.0300	523.3484	260998.9400	172485.6100	22279.2670	77626.6820	408248.7100	r 3296210.5000	r 536404.5500	351562.1600	750421.2800	5398.2690	773.3662
2	10:33:49	114223.1000	18482.1020	211829.5200	600.0198	262580.1700	174097.9100	22009.2770	78665.5550	410395.5400	r 3323190.9000	r 535560.2000	356249.4400	756003.2000	5641.7501	823.3706
3	10:34:05	114506.6300	18004.4780	212580.0800	646.6897	264846.5100	174106.7400	22494.4620	78890.8280	415482.2900	r 3327591.9000	r 533992.1200	357022.2200	761110.7800	5568.3715	856.7070
x		114748.5600	18227.1450	211242.8800	590.0193	262808.5400	173563.4200	22261.0020	78394.3550	411375.5100	r 3315664.4000	r 535318.9600	354944.6100	755845.0900	5536.1302	817.8146
σ		679.5303	240.4434	1707.8382	62.2758	1933.9273	933.4223	243.1078	674.2984	3715.0263	r 16990.6910	r 1224.1762	2954.6593	5346.5071	124.9015	41.9473
%RSD		0.5922	1.3192	0.8085	10.5549	0.7359	0.5378	1.0921	0.8601	0.9031	r 0.5124	r 0.2287	0.8324	0.7074	2.2561	5.1292

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	
1	10:33:33	203918.3500	1426.7786	2196.9321	2386.9800	1450.1156	3570.7011	51763.6190	10142.3210	380965.2400	7759.9772	117048.7000	944106.9900	r 7684433.5000	591958.4500	645815.7700	1
2	10:33:49	203710.4300	1400.1078	2193.5980	2326.9644	1386.7724	3717.4266	51565.8330	10088.9280	385997.6600	7549.8003	117234.4100	945903.4500	r 7717629.4000	592136.1500	637387.6800	1
3	10:34:05	204862.5600	1470.1189	2290.2885	2336.9670	1526.7949	3834.1417	52611.8010	10222.4110	384895.7200	7930.1239	118159.6000	951627.0900	r 7727633.4000	596458.7900	649322.8500	1
x		204163.7800	1432.3351	2226.9395	2350.3038	1454.5610	3707.4231	51980.4180	10151.2200	383952.8700	7746.6338	117480.9000	947212.5100	r 7709898.8000	593517.8000	644175.4400	1
σ		614.0246	35.3347	54.8871	32.1538	70.1170	132.0049	555.6647	67.1846	2645.3771	190.5126	595.0590	3927.2411	r 22613.6760	2548.5242	6134.3365	
%RSD		0.3008	2.4669	2.4647	1.3681	4.8205	3.5606	1.0690	0.6618	0.6890	2.4593	0.5065	0.4146	r 0.2933	0.4294	0.9523	

2052309-DUP1@MF5WC4D 5/23/2012 10:37:39 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	10:37:54	119648.8900	6.6667	217692.2700	576.6850	1372.1035	196.0021	620.0211	44384.7530	5635.0793	296.6715	320.0056	1533.4627	4707.8854	21.1111	3.3333	2.2222	16.6667
2	10:38:10	118936.3000	10.0000	221045.0700	583.3521	1350.1002	208.6691	663.3575	44404.8510	5408.2749	283.3378	320.0056	1453.4495	4544.4689	22.2222	20.0000	2.2222	23.3334
3	10:38:26	119189.5800	3.3333	219826.0400	653.3568	1407.4423	212.6692	638.0224	45071.4530	5655.0917	213.3358	263.3372	1713.4948	4234.3192	22.2222	0.0000	2.2222	6.6667
x		119258.2600	6.6667	219521.1300	604.4646	1376.5487	205.7801	640.4670	44620.3520	5566.1486	264.4484	301.1161	1566.8023	4495.5578	21.8519	7.7778	2.2222	15.5556
σ		361.2261	3.3333	1697.0683	42.4729	28.9283	8.7010	21.7714	390.7937	137.0883	44.7640	32.7176	133.1899	240.5420	0.6415	10.7152	0.0000	8.3887
%RSD		0.3029	50.0000	0.7731	7.0265	2.1015	4.2283	3.3993	0.8758	2.4629	16.9273	10.8654	8.5007	5.3507	2.9357	137.7665	0.0000	53.9274

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb
1	10:37:54	208981.4000	1503.4576	2183.5955	2343.6354	1493.4560	3887.4977	54174.2710	140.0011	83.3337	30.0000	20.0000	77724.1770	25074.5330	598229.6600	646573.5600	28267.2120	7646.5478
2	10:38:10	210284.2600	1953.5432	2373.6432	2550.3577	1506.7915	3684.0797	52994.0110	153.3346	46.6668	43.3334	13.3333	79324.5780	25723.0070	605348.5000	657053.0500	26618.9140	7753.3048
3	10:38:26	207675.3100	1260.0873	2190.2638	2316.9619	1543.4643	3970.8670	53882.5450	210.0024	66.6669	23.3334	3.3333	80662.9440	24807.1340	595879.2400	652030.0200	25555.8700	7786.6667
x		208980.3200	1572.3627	2249.1675	2403.6517	1514.5706	3847.4815	53683.6090	167.7794	65.5558	32.2223	12.2222	79237.2330	25201.5580	599819.1300	651885.5400	26813.9990	7728.8398
σ		1304.4782	351.8255	107.8506	127.7492	25.8958	147.5219	614.7639	37.1690	18.3587	10.1835	8.3887	1471.3295	470.9645	4930.6712	5241.2351	1366.1578	73.1931
%RSD		0.6242	22.3756	4.7951	5.3148	1.7098	3.8342	1.1452	22.1535	28.0047	31.6040	68.6349	1.8569	1.8688	0.8220	0.8040	5.0949	0.9470

SEQ-SRD1@MF5WC4L 5/23/2012 10:42:00 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	10:42:16	122064.0100	10.0000	222489.6800	270.0040	1026.0579	56.6668	435.3438	21081.0810	1240.0846	26.6667	113.3340	666.6911	1536.7966	7.7778	6.6667	3.3333	13.3333
2	10:42:32	122871.4500	3.3333	222592.1400	356.6737	953.3833	62.6669	414.6761	20827.1630	1033.3921	53.3335	106.6673	530.0154	1426.7786	14.4445	3.3333	2.2222	16.6667
3	10:42:48	123418.7900	3.3333	221594.8800	256.6703	983.3865	77.3337	428.0101	20877.2780	1083.3979	26.6667	133.3343	543.3496	1513.4593	7.7778	3.3333	5.5556	10.0000
x		122784.7500	5.5556	222225.5700	294.4493	987.6093	65.5558	426.0100	20928.5080	1118.9582	35.5556	117.7786	580.0187	1492.3448	10.0000	4.4444	3.7037	13.3333
σ		681.5358	3.8490	548.5858	54.2987	36.5208	10.6320	10.4780	134.4874	107.8371	15.3961	13.8780	75.3560	57.9685	3.8490	1.9245	1.6973	3.3333
%RSD		0.5551	69.2821	0.2469	18.4408	3.6979	16.2182	2.4596	0.6426	9.6373	43.3014	11.7831	12.9920	3.8844	38.4900	43.3013	45.8258	25.0000

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	
1	10:42:16	222906.3700	323.3391	546.6831	536.6825	426.6767	720.0285	59960.4220	160.0014	26.6667	3.3333	3.3333	29330.5730	5354.9100	644014.4800	703305.2900	8290.4452	1990.2178	4531
2	10:42:32	223691.9800	373.3410	503.3473	550.0166	416.6762	846.7061	60544.2730	160.0014	23.3334	0.0000	3.3333	30825.5070	5401.6043	647982.0700	705956.0600	8927.7149	2053.5652	4537
3	10:42:48	222458.9400	340.0064	550.0166	456.6781	313.3387	830.0379	60279.1870	120.0008	33.3334	16.6667	0.0000	30624.8300	5461.6401	647814.0400	706582.0000	9278.0655	2040.2289	4544
x		223019.1000	345.5622	533.3490	514.4591	385.5639	798.9242	60261.2940	146.6679	27.7778	6.6667	2.2222	30260.3030	5406.0515	646603.5300	705281.1200	8832.0752	2028.0040	4537
σ		624.2028	25.4597	26.0357	50.4820	62.7484	68.8320	292.3362	23.0944	5.0918	8.8192	1.9245	811.3980	53.5039	2243.7574	1739.5012	500.7082	33.3963	6
%RSD		0.2799	7.3676	4.8815	9.8126	16.2744	8.6156	0.4851	15.7460	18.3303	132.2876	86.6025	2.6814	0.9897	0.3470	0.2466	5.6692	1.6468	

1205175-02@MFSWC5 5/23/2012 10:46:21 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	10:46:37	122618.0600	6.6667	221430.9600	690.0262	1409.4426	274.6708	664.6910	45319.3470	5398.2690	110.0007	423.3432	1336.7649	4928.0020	14.4445	16.6667	2.2222	13.3333
2	10:46:53	122611.3100	3.3333	224925.1900	680.0254	1371.4368	289.3379	634.6888	45858.7080	5241.5106	90.0004	380.0079	1453.4495	4827.9483	24.4445	16.6667	4.4444	13.3333
3	10:47:09	122361.3000	13.3333	223155.7100	826.7043	1438.7805	259.3370	694.0265	45858.7080	5531.6825	103.3339	396.6753	1473.4527	4764.5816	31.1112	6.6667	4.4444	26.6667
x		122530.2200	7.7778	223170.6200	732.2520	1406.5533	274.4486	664.4688	45678.9210	5390.4873	101.1117	400.0088	1421.2224	4840.1773	23.3334	13.3333	3.7037	17.7778
σ		146.3279	5.0918	1747.1617	81.9508	33.7647	15.0017	29.6695	311.4004	145.2424	10.1836	21.8591	73.8230	82.3937	8.3887	5.7735	1.2830	7.6980
%RSD		0.1194	65.4654	0.7829	11.1916	2.4005	5.4661	4.4651	0.6817	2.6944	10.0716	5.4647	5.1943	1.7023	35.9516	43.3013	34.6410	43.3013

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb
1	10:46:37	213180.5600	1303.4268	2380.3116	2800.4313	1463.4511	3907.5063	54834.8800	193.3354	36.6667	36.6667	3.3333	79768.4370	24529.7160	598428.8100	659146.7600	5945.2767	7279.5801
2	10:46:53	212982.6700	1353.4341	2403.6511	2483.6726	1443.4479	3767.4472	54724.2160	133.3343	26.6667	36.6667	10.0000	79216.9790	25351.9670	607583.8100	659927.1000	6015.3228	7759.9772
3	10:47:09	213538.8200	1493.4560	2380.3116	2383.6458	1443.4479	3847.4807	54583.3730	180.0018	23.3334	33.3334	10.0000	81362.4700	25138.0410	607174.4400	662576.4500	6308.8550	7529.7837
x		213234.0200	1383.4389	2388.0914	2555.9165	1450.1157	3840.8114	54714.1570	168.8905	28.8889	35.5556	7.7778	80115.9620	25006.5750	604395.6900	660550.1100	6089.8182	7523.1137
σ		281.9043	98.5038	13.4751	217.5820	11.5489	70.2673	126.0548	31.5060	6.9389	1.9245	3.8490	1114.1646	426.5991	5171.5162	1797.7190	192.8975	240.2680
%RSD		0.1322	7.1202	0.5643	8.5129	0.7964	1.8295	0.2304	18.6547	24.0193	5.4127	49.4872	1.3907	1.7059	0.8557	0.2722	3.1675	3.1937

1205175-03@MFSWC6 5/23/2012 10:50:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se
1	10:50:57	123455.9600	3.3333	226718.9300	696.6934	1372.1035	171.3350	596.6863	204204.6700	14014.1270	266.6706	336.6729	2136.9178	18034.5370	13.3333	10.0000	3.3333	63.3336
2	10:51:13	122661.9800	0.0000	227733.8300	706.6941	1390.1063	183.3352	606.0202	206437.5900	13837.1890	293.3381	260.0037	2160.2566	18051.2370	20.0000	0.0000	4.4444	66.6669
3	10:51:29	122557.2500	3.3333	226507.0800	596.6863	1414.1100	160.6681	668.0245	206921.7500	14114.2820	270.0040	283.3378	2370.3090	18578.9650	30.0000	0.0000	5.5556	43.3334
x		122891.7300	2.2222	226986.6100	666.6913	1392.1066	171.7794	623.5770	205854.6700	13988.5330	276.6709	293.3381	2222.4945	18221.5800	21.1111	3.3333	4.4444	57.7780
σ		491.4318	1.9245	655.7206	60.8320	21.0745	11.3401	38.7746	1449.3026	140.3079	14.5301	39.3007	128.5419	309.6175	8.3887	5.7735	1.1111	12.6199
%RSD		0.3999	86.6025	0.2889	9.1245	1.5139	6.6015	6.2181	0.7040	1.0030	5.2518	13.3978	5.7837	1.6992	39.7360	173.2051	25.0000	21.8420

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb
1	10:50:57	211764.7100	1183.4104	2023.5585	2093.5744	1256.7535	3023.8361	51606.0610	143.3345	36.6667	20.0000	16.6667	99427.4290	97479.8400	586785.3800	632849.8600	4014.2194	2853.7812
2	10:51:13	210495.7400	1086.7316	1950.2092	2066.9016	1380.1047	3183.8908	51716.6870	173.3350	40.0001	70.0003	10.0000	95926.7840	97796.5480	583379.6600	631911.1500	4527.7939	3097.1942
3	10:51:29	208756.3200	1116.7353	1970.2135	2083.5721	1263.4211	3343.9482	52192.7290	176.6684	16.6667	53.3335	20.0000	97617.9780	98025.6630	582499.1400	630940.4200	4414.4049	3003.8295
x		210338.9200	1128.9591	1981.3271	2081.3494	1300.0931	3183.8917	51838.4920	164.4459	31.1112	47.7779	15.5556	97657.3970	97767.3500	584221.3900	631900.4800	4318.8061	2984.9350
σ		1510.3143	49.4850	37.9166	13.4746	69.3722	160.0560	311.7248	18.3589	12.6198	25.4589	5.0918	1750.6554	274.0800	2263.6997	954.7668	269.8037	122.8016
%RSD		0.7180	4.3832	1.9137	0.6474	5.3359	5.0271	0.6013	11.1641	40.5637	53.2859	32.7327	1.7926	0.2803	0.3875	0.1511	6.2472	4.1140

SEQ-IBL@ZZZZZZ 5/23/2012 10:55:02 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	8
1	10:55:18	131254.0600	6.6667	235822.8500	226.6695	1183.4104	58.6669	538.0159	11670.8200	53.3335	23.3334	76.6670	433.3437	1066.7292	10.0000	3.3333	8.8889	23.3334	26.6
2	10:55:34	131007.2100	10.0000	235255.0900	210.0024	1231.4167	48.6668	550.6834	11577.3670	76.6670	6.6667	120.0008	446.6776	1140.0715	13.3333	13.3333	6.6667	10.0000	26.6
3	10:55:49	131429.9100	6.6667	235901.5200	220.0027	1269.4220	55.3335	563.3508	11974.5480	106.6673	26.6667	106.6673	463.3451	1030.0584	6.6667	0.0000	6.6667	23.3334	23.3
x		131230.3900	7.7778	235659.8200	218.8915	1228.0830	54.2224	550.6834	11740.9120	78.8893	18.8889	101.1117	447.7888	1078.9530	10.0000	5.5556	7.4074	18.8889	25.5
σ		212.3430	1.9245	352.7078	8.3889	43.1026	5.0918	12.6674	207.6602	26.7363	10.7152	22.1947	15.0316	56.0160	3.3333	6.9389	1.2830	7.6980	1.9
%RSD		0.1618	24.7436	0.1497	3.8324	3.5097	9.3906	2.3003	1.7687	33.8909	56.7274	21.9506	3.3568	5.1917	33.3333	124.9000	17.3205	40.7542	7.5

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	20
1	10:55:18	232912.5800	73.3336	70.0003	46.6668	83.3337	50.0001	64189.1500	186.6686	20.0000	0.0000	3.3333	47048.0960	46.6668	660839.9700	715799.5600	1436.7802	346.6733	503905.7
2	10:55:34	236004.1300	346.6733	80.0004	153.3346	100.0006	46.6668	65122.4190	176.6684	20.0000	0.0000	6.6667	49051.9790	53.3335	667744.8300	719195.8700	1536.7966	323.3391	501624.5
3	10:55:49	235395.3200	56.6668	63.3336	36.6667	90.0004	50.0001	64461.0640	186.6686	16.6667	3.3333	6.6667	50141.2310	53.3335	662995.4000	716941.1300	1600.1408	296.6715	503226.2
x		234770.6800	158.8913	71.1114	78.8894	91.1116	48.8890	64590.8770	183.3352	18.8889	1.1111	5.5556	48747.1020	51.1113	663860.0700	717312.1800	1524.5725	322.2280	502918.8
σ		1637.6965	162.8374	8.3888	64.6651	8.3888	1.9245	479.9859	5.7736	1.9245	1.9245	1.9245	1568.9433	3.8490	3532.7029	1728.2943	82.3635	25.0194	1171.2
%RSD		0.6976	102.4835	11.7967	81.9693	9.2072	3.9365	0.7431	3.1492	10.1885	173.2051	34.6410	3.2185	7.5307	0.5321	0.2409	5.4024	7.7645	0.2

SEQ-IBL@ZZZZZZ 5/23/2012 10:59:25 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	10:59:41	131284.5000	6.6667	231661.2100	250.0034	556.6837	36.6667	268.6706	10766.3720	60.0002	6.6667	96.6672	436.6772	890.0436	1.1111	0.0000	2.2222	13.3333	6.6667
2	10:59:57	129367.3000	10.0000	231565.4900	240.0032	578.0184	32.6667	257.3370	11086.7560	56.6668	13.3333	93.3338	336.6729	986.7202	1.1111	3.3333	6.6667	10.0000	23.3334
3	11:00:13	129509.3100	3.3333	232276.6200	240.0032	624.6881	30.6667	254.0036	10896.5260	46.6668	16.6667	106.6673	440.0107	853.3734	5.5556	6.6667	7.7778	23.3334	16.6667
x		130053.7000	6.6667	231834.4400	243.3366	586.4634	33.3334	260.0037	10916.5510	54.4446	12.2222	98.8894	404.4536	910.0457	2.5926	3.3333	5.5556	15.5556	15.5556
σ		1068.2613	3.3333	385.9192	5.7737	34.7799	3.0551	7.6886	161.1283	6.9389	5.0918	6.9390	58.7234	68.8869	2.5660	3.3333	2.9397	6.9389	8.3887
%RSD		0.8214	50.0000	0.1665	2.3727	5.9304	9.1652	2.9571	1.4760	12.7449	41.6598	7.0169	14.5192	7.5696	98.9743	100.0000	52.9150	44.6072	53.9274

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	10:59:41	233736.6700	63.3336	70.0003	46.6668	80.0004	10.0000	63923.9580	160.0014	13.3333	0.0000	6.6667	4080.9158	50.0001	666910.1000	722521.3400	1230.0832	300.0050	506183.8500
2	10:59:57	235320.0700	66.6669	86.6671	33.3334	60.0002	16.6667	64571.8460	180.0018	20.0000	0.0000	6.6667	4030.8934	36.6667	668894.9300	728916.1500	1443.4479	230.0029	506243.7100
3	11:00:13	232543.3100	83.3337	96.6672	46.6668	106.6673	40.0001	64581.9170	186.6686	16.6667	3.3333	0.0000	3824.1375	66.6669	667099.9700	719419.2100	1303.4268	343.3398	502082.1800
x		233866.6800	71.1114	84.4448	42.2223	82.2226	22.2223	64359.2400	175.5573	16.6667	1.1111	4.4444	3978.6489	51.1113	667635.0000	723618.9000	1325.6526	291.1159	504836.5800
σ		1392.9403	10.7153	13.4716	7.6980	23.4128	15.7528	376.9992	13.8780	3.3333	1.9245	3.8490	136.1282	15.0309	1095.2555	4842.6662	108.4049	57.1889	2385.5685
%RSD		0.5956	15.0683	15.9532	18.2322	28.4749	70.8873	0.5858	7.9051	20.0000	173.2051	86.6025	3.4215	29.4082	0.1641	0.6692	8.1775	19.6447	0.4725

SEQ-IBL@ZZZZZZ 5/23/2012 11:05:11 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	11:05:27	126439.8800	3.3333	227638.1400	203.3356	238.6698	20.0000	84.6671	12855.7500	46.6668	10.0000	543.3496	400.0088	1636.8140	0.0000	3.3333	4.4444	16.6667	13.3333
2	11:05:43	125861.9400	3.3333	228844.5400	220.0027	210.6691	25.3334	98.6672	12495.2480	33.3334	10.0000	583.3521	396.6753	1576.8034	1.1111	0.0000	5.5556	6.6667	16.6667
3	11:05:59	126808.2900	3.3333	226165.4000	203.3356	231.3363	13.3333	92.6671	12461.8690	43.3334	16.6667	530.0154	453.3446	1603.4747	0.0000	0.0000	5.5556	23.3334	16.6667
x		126370.0400	3.3333	227549.3600	208.8913	226.8917	19.5556	92.0005	12604.2890	41.1112	12.2222	552.2390	416.6763	1605.6974	0.3704	1.1111	5.1852	15.5556	15.5556
σ		477.0246	0.0000	1341.7762	9.6227	14.5198	6.0123	7.0238	218.4103	6.9389	3.8490	27.7573	31.7995	30.0670	0.6415	1.9245	0.6415	8.3887	1.9245
%RSD		0.3775	0.0000	0.5897	4.6066	6.3994	30.7449	7.6346	1.7328	16.8784	31.4919	5.0263	7.6317	1.8725	173.2051	173.2051	12.3718	53.9274	12.3718

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	11:05:27	229938.2900	76.6670	66.6669	46.6668	70.0003	33.3334	62980.7420	203.3356	20.0000	3.3333	6.6667	180.0018	26.6667	653782.7700	712138.0900	4230.9843	450.0111	496293.6200
2	11:05:43	230577.5100	86.6671	80.0004	33.3334	80.0004	43.3334	63870.2490	170.0016	13.3333	0.0000	0.0000	166.6682	36.6667	652745.3900	714658.1200	4511.1190	376.6745	497285.6900
3	11:05:59	229429.0000	70.0003	100.0006	43.3334	90.0004	36.6667	64158.9380	183.3352	16.6667	0.0000	3.3333	156.6680	63.3336	664216.5600	710086.5600	4230.9843	463.3451	495927.7800
x		229981.6000	77.7781	82.2226	41.1112	80.0004	37.7779	63669.9760	185.5575	16.6667	1.1111	3.3333	167.7793	42.2223	656914.9000	712294.2600	4324.3626	430.0103	496502.3600
σ		575.4814	8.3888	16.7776	6.9389	10.0001	5.0918	614.0995	16.7778	3.3333	1.9245	3.3333	11.7065	18.9542	6344.6551	2289.7776	161.7358	46.6688	702.6108
%RSD		0.2502	10.7855	20.4051	16.8784	12.5001	13.4782	0.9645	9.0418	20.0000	173.2051	100.0000	6.9773	44.8915	0.9658	0.3215	3.7401	10.8530	0.1415

SEQ-IBL@ZZZZZZ 5/23/2012 11:09:33 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	11:09:49	127122.6400	6.6667	224798.7900	146.6679	360.6738	19.3334	175.3350	10162.3440	33.3334	10.0000	66.6669	340.0064	936.7149	5.5556	0.0000	8.8889	16.6667	3.3333
2	11:10:05	126331.7300	13.3333	228335.3000	180.0018	360.6738	23.3334	184.6685	10175.6920	56.6668	6.6667	113.3340	316.6722	893.3772	0.0000	0.0000	3.3333	3.3333	23.3334
3	11:10:21	126916.4500	6.6667	228037.9800	233.3363	370.0075	25.3334	151.3346	10082.2540	43.3334	13.3333	96.6672	446.6776	846.7061	0.0000	3.3333	2.2222	13.3333	33.3334
x		126790.2700	8.8889	227057.3600	186.6687	363.7851	22.6667	170.4461	10140.0970	44.4446	10.0000	92.2227	367.7854	892.2661	1.8519	1.1111	4.8148	11.1111	20.0000
σ		410.2759	3.8490	1961.6206	43.7172	5.3888	3.0551	17.1964	50.5354	11.7063	3.3333	23.6489	69.3117	45.0147	3.2075	1.9245	3.5717	6.9389	15.2753
%RSD		0.3236	43.3013	0.8639	23.4197	1.4813	13.4782	10.0890	0.4984	26.3392	33.3333	25.6432	18.8457	5.0450	173.2051	173.2051	74.1819	62.4500	76.3763

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	11:09:49	229675.0900	60.0002	66.6669	43.3334	60.0002	20.0000	63521.1490	193.3354	10.0000	0.0000	3.3333	2336.9670	60.0002	655968.7900	712728.4400	903.3782	356.6737	496937.4000
2	11:10:05	230799.7100	46.6668	86.6671	43.3334	100.0006	26.6667	63863.5350	183.3352	13.3333	0.0000	3.3333	2503.6780	53.3335	654269.3000	711666.5600	1006.7224	343.3398	497468.6300
3	11:10:21	227590.3000	56.6668	66.6669	33.3334	73.3336	33.3334	64075.0150	163.3348	13.3333	3.3333	6.6667	2573.6976	36.6667	653192.5200	710298.8900	973.3854	363.3406	504373.9600
x		229355.0300	54.4446	73.3336	40.0001	77.7781	26.6667	63819.9000	180.0018	12.2222	1.1111	4.4444	2471.4476	50.0001	654476.8700	711564.6300	961.1620	354.4514	499593.3300
σ		1628.4670	6.9389	11.5471	5.7735	20.3672	6.6667	279.4997	15.2756	1.9245	1.9245	1.9245	121.6119	12.0186	1399.7256	1217.9757	52.7453	10.1839	4148.6594
%RSD		0.7100	12.7449	15.7460	14.4338	26.1863	25.0000	0.4380	8.4863	15.7459	173.2051	43.3013	4.9207	24.0371	0.2139	0.1712	5.4877	2.8731	0.8304

SEQ-IBL@ZZZZZZ 5/23/2012 11:13:54 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	83Kr
1	11:14:10	125358.3900	23.3334	224440.0800	173.3350	141.3344	5.3333	66.6669	9728.5360	33.3334	3.3333	96.6672	330.0060	1016.7235	1.1111	0.0000	2.2222	16.6667	13.3333
2	11:14:25	126057.9700	6.6667	222117.4100	193.3354	145.3345	15.3333	64.0002	9524.9873	23.3334	13.3333	126.6676	370.0075	946.7160	0.0000	0.0000	2.2222	10.0000	23.3334
3	11:14:41	126771.1100	3.3333	220652.3700	190.0020	123.3342	13.3333	76.0003	9721.8622	30.0000	30.0000	136.6677	423.3432	1050.0606	3.3333	0.0000	3.3333	10.0000	16.6667
x		126062.4900	11.1111	222403.2900	185.5575	136.6677	11.3333	68.8892	9658.4618	28.8889	15.5556	120.0008	374.4522	1004.5000	1.4815	0.0000	2.5926	12.2222	17.7778
σ		706.3718	10.7152	1909.9719	10.7154	11.7191	5.2915	6.3011	115.6405	5.0918	13.4715	20.8169	46.8271	52.7455	1.6973	0.0000	0.6415	3.8490	5.0918
%RSD		0.5603	96.4366	0.8588	5.7747	8.5749	46.6897	9.1468	1.1973	17.6253	86.6026	17.3473	12.5055	5.2509	114.5644	0.0000	24.7436	31.4919	28.6411

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	209Bi
1	11:14:10	227026.4600	93.3338	40.0001	73.3336	90.0004	30.0000	62195.3630	163.3348	3.3333	0.0000	0.0000	150.0012	36.6667	652863.4300	707384.2600	676.6919	226.6695	482946.1100
2	11:14:25	229644.3300	420.0097	83.3337	50.0001	93.3338	23.3334	62500.7800	193.3354	10.0000	0.0000	3.3333	133.3343	56.6668	650420.6500	708129.0300	670.0247	286.6712	492758.9100
3	11:14:41	225540.1500	60.0002	83.3337	50.0001	80.0004	23.3334	64028.0190	140.0011	16.6667	3.3333	10.0000	163.3348	50.0001	655485.7500	713387.2200	783.3671	276.6709	496698.1700
x		227403.6500	191.1146	68.8892	57.7780	87.7782	25.5556	62908.0540	165.5571	10.0000	1.1111	4.4444	148.8901	47.7779	652923.2700	709633.5000	710.0279	263.3372	490801.0600
σ		2077.9277	198.9284	25.0187	13.4716	6.9390	3.8490	981.8666	26.7365	6.6667	1.9245	5.0918	15.0311	10.1836	2533.0805	3272.0741	63.6010	32.1464	7081.9965
%RSD		0.9138	104.0886	36.3173	23.3162	7.9051	15.0613	1.5608	16.1494	66.6667	173.2051	114.5644	10.0954	21.3144	0.3880	0.4611	8.9575	12.2073	1.4429

SEQ-CCV@CCV02 5/23/2012 11:18:15 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77
1	11:18:31	123354.5900	228403.6600	216497.5800	103.3339	271919.4500	458660.9800	57749.5110	↑7734240.1000	441552.3600	↑3670523.5000	↑628525.0400	859660.9000	↑4639416.6000	80251.5490	5361.5
2	11:18:47	121165.4500	229442.6700	213419.4000	103.3339	272687.2800	460957.5400	57740.1190	↑7797755.6000	447835.4500	↑3662781.4000	↑627267.1300	858502.0200	↑4638922.0000	81025.0320	5494.9
3	11:19:02	120837.8000	226616.4200	213102.0900	150.0012	273409.1500	463216.8100	58011.1690	↑7769662.5000	441961.5400	↑3673415.5000	↑630230.9800	867670.8900	↑4679811.8000	80921.0050	5354.9
x		121785.9500	228154.2500	214339.6900	118.8897	272671.9600	460945.1100	57833.6000	↑7767219.4000	443783.1100	↑3668906.8000	↑628674.3800	861944.6000	↑4652716.8000	80699.1950	5403.8
σ		1368.3317	1429.5350	1875.5122	26.9434	744.9657	2277.9417	153.8515	↑31828.1850	3515.3837	↑5498.2921	↑1487.5563	4992.8497	↑23466.2980	400.8702	79.0
%RSD		1.1236	0.6266	0.8750	22.6625	0.2732	0.4942	0.2660	↑0.4098	0.7921	↑0.1499	↑0.2366	0.5793	↑0.5044	0.4967	1.4

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165
1	11:18:31	214180.3200	203.3356	183.3352	260.0037	160.0014	313.3387	57454.3160	124418.9500	615226.3300	92306.2570	1492462.8000	↑4850878.2000	↑10220549.0000	621915.9600	681415.4
2	11:18:47	214320.2200	173.3350	213.3358	300.0050	196.6688	336.6729	57934.0130	123854.6600	613267.0300	92023.4110	1499096.2000	↑4892360.5000	↑10268823.0000	630936.8500	679252.2
3	11:19:02	216333.7500	176.6684	206.6690	346.6733	156.6680	360.0071	57457.6710	124902.1800	618857.4500	93151.4800	1498280.0000	↑4889501.8000	↑10258798.0000	625189.4400	673313.9
x		214944.7600	184.4463	201.1133	302.2273	171.1127	336.6729	57615.3330	124391.9300	615783.6000	92493.7160	1496613.0000	↑4877580.2000	↑10249390.0000	626014.0800	677993.8
σ		1204.9290	16.4433	15.7531	43.3775	22.1949	23.3342	275.9897	524.2823	2836.5701	586.9329	3617.3096	↑23168.7060	↑25474.9620	4566.6337	4194.7
%RSD		0.5606	8.9149	7.8329	14.3526	12.9709	6.9308	0.4790	0.4215	0.4606	0.6346	0.2417	↑0.4750	↑0.2486	0.7295	0.6

SEQ-CCB@CCB02 5/23/2012 11:22:40 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	45Sc	47Ti	51V	52Cr	53Cl O	54Fe	55Mn	59Co	60Ni	65Cu	66Zn	75As	77Se	78Se	82Se	8
1	11:22:55	128390.2700	33.3334	222991.7600	93.3338	773.3662	58.0002	336.0062	16204.4290	56.6668	283.3378	56.6668	340.0064	723.3621	11.1111	0.0000	8.8889	20.0000	16.6
2	11:23:11	127653.3300	43.3334	223029.3300	103.3339	810.7028	60.0002	332.0061	15302.8690	26.6667	230.0029	90.0004	360.0071	886.7099	12.2222	10.0000	2.2222	10.0000	10.0
3	11:23:27	127332.2100	26.6667	223398.2200	103.3339	822.7039	58.0002	351.3401	16074.1980	53.3335	193.3354	80.0004	376.6745	733.3629	8.8889	3.3333	4.4444	20.0000	13.3
x		127791.9300	34.4445	223139.7700	100.0006	802.2576	58.6669	339.7841	15860.4990	45.5557	235.5587	75.5559	358.8960	781.1450	10.7407	4.4444	5.1852	16.6667	13.3
σ		542.4764	8.3887	224.6138	5.7736	25.7302	1.1547	10.2057	487.2919	16.4430	45.2577	17.1055	18.3593	91.5586	1.6973	5.0918	3.3945	5.7735	3.3
%RSD		0.4245	24.3544	0.1007	5.7735	3.2072	1.9682	3.0036	3.0724	36.0943	19.2129	22.6395	5.1155	11.7211	15.8020	114.5644	65.4654	34.6410	25.0

Run	Time	89Y	94Mo	95Mo	96Mo	97Mo	98Mo	103Rh	106Cd	107Ag	108Cd	111Cd	121Sb	137Ba	159Tb	165Ho	205Tl	208Pb	20
1	11:22:55	222670.7000	306.6718	50.0001	60.0002	66.6669	26.6667	61500.6600	220.0027	153.3346	3.3333	103.3339	14044.1730	783.3671	651182.3800	704610.8000	35408.8240	1576.8034	490385.6
2	11:23:11	223647.5800	83.3337	53.3335	23.3334	120.0008	20.0000	61957.0770	156.6680	146.6679	10.0000	100.0006	14421.4300	590.0192	650066.6200	697603.4400	34665.9690	1233.4170	490874.2
3	11:23:27	224518.6600	726.6957	76.6670	43.3334	100.0006	36.6667	62725.6540	230.0029	163.3348	0.0000	73.3336	14448.1390	666.6911	647420.7900	701198.1500	32698.7010	1370.1032	492832.7
x		223612.3100	372.2338	60.0002	42.2223	95.5561	27.7778	62061.1300	202.2245	154.4458	4.4444	92.2227	14304.5810	680.0258	649556.6000	701137.4600	34257.8310	1393.4412	491364.2
σ		924.4845	326.6534	14.5298	18.3587	26.9433	8.3887	619.0902	39.7687	8.3888	5.0918	16.4431	225.9145	97.3613	1931.9663	3504.0747	1400.4016	172.8787	1295.0
%RSD		0.4134	87.7549	24.2162	43.4809	28.1963	30.1994	0.9975	19.6656	5.4316	114.5644	17.8298	1.5793	14.3173	0.2974	0.4998	4.0878	12.4066	0.2

WinHg Database 1.5

File Utility Help

Protocol LM01 Dataset/Proto H060412C/LM01

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.76568e-4

C 2.09362e-2

Rho 999913

Type Linear

Calibrated

Accepted

Accept

µ Abs. 33849

Accepted

New

Include S2 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

04-Jun-12 13:35 Conc. 6.000

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.0156	.0156	-31	0	-30		
02	.20000	.2268	.0268	1166	0%	1166		
03	.50000	.4435	-.0565	2393	0%	2393		
04	1.0000	1.000	.0000	5545	0%	5545		
05	2.0000	2.017	.0165	11303	0%	11302		
06	6.0000	5.998	-.0024	33849	0%	33849		

Ready CAP NUM

Start | WinHg Runner 1.5 | WinHg Databas... | WinHG Rack Edito... | Calculator | EN 3:18 PM

Bonner Analytical Testing Co.

Mercury Curve Percent Difference Check

File Name: H060412C
lethod & Instrument: LM01
Analyst: BGB

Standards Prep Date: 6/3/2012
Standards Log Page No.: 4

SDG No.: MF5WC4
Case No.: 42562

ID	Time	Date	Absorbance	Curve Conc.	Calc. Conc.	% Diff
S0	13:17:16	04 Jun 12	-30	0	NA	NA
S0.2	13:21:03	04 Jun 12	1166	0.2	NA	NA
S0.5	13:22:58	04 Jun 12	2393	0.5	0.44346266	11%
S1	13:25:33	04 Jun 12	5545	1	1.00000402	0%
S2	13:28:29	04 Jun 12	11302	2	2.0165042	1%
S6	13:31:56	04 Jun 12	33849	6	5.99757585	0%

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 13:17:16 04 Jun 12 HG

Hg .0000 ppb -30 50

*** Standard: 2 Rep: 1 Seq: 2 13:21:03 04 Jun 12 HG

Hg .2000 ppb 1166 50.2

*** Standard: 3 Rep: 1 Seq: 3 13:22:58 04 Jun 12 HG

Hg .5000 ppb 2393 50.5

*** Standard: 4 Rep: 1 Seq: 4 13:25:33 04 Jun 12 HG

Hg 1.000 ppb 5545 51

*** Standard: 5 Rep: 1 Seq: 5 13:28:29 04 Jun 12 HG

Hg 2.000 ppb 11302 52

*** Standard: 6 Rep: 1 Seq: 6 13:31:56 04 Jun 12 HG

Hg 6.000 ppb 33849 56

*** Check Standard: 2 Ck2SEQ-ICV01 Seq: 7 13:37:08 04 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.73	3.989	4.000	ppb	.0000

*** Sample ID: ICB01 Seq: 8 13:39:29 04 Jun 12 HG

SEQ-ICB01

Hg .0199 ppb .0000 .0199

*** Check Standard: 3 Ck3SEQ-CCV01 Seq: 9 13:41:32 04 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.2	2.044	2.000	ppb	.0000

*** Check Standard: 1 Ck1SEQ-CCB01 Seq: 10 13:44:42 04 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.1348	.2000	ppb	.0000

*** Check Standard: 3 Ck3SEQ-CCV02 Seq: 13 13:50:45 04 Jun 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.2	2.105	2.000	ppb	.0000

*** Check Standard: 1 Ck1SEQ-CCB02 Seq: 14 13:53:27 04 Jun 12 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0418	.2000	ppb	.0000

AKB
6/5/12

```
Line    Conc.  Units      SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------------

*** Sample ID: PBW01                    Seq:  15     13:55:19 04 Jun 12   HG
                            2052901-BLK1
Hg     .1334   ppb        .0000     .1334

===================================================================================
*** Sample ID: MF5WC4                   Seq:  16     13:57:51 04 Jun 12   HG
                            1205175-01
Hg     .9130   ppb        .0000     .9130
                                                                                =
===================================================================================
*** Sample ID: MF5WC4D                  Seq:  17     14:00:16 04 Jun 12   HG
                            2052901-DUP1
Hg     .8921   ppb        .0000     .8921
                                                                                =
===================================================================================
*** Sample ID: MF5WC4S                  Seq:  18     14:02:18 04 Jun 12   HG
                            2052901-MS1
Hg     2.126   ppb        .0000     2.126
                                                                                =
===================================================================================
*** Sample ID: MF5WC5                   Seq:  19     14:05:39 04 Jun 12   HG
                            1205175-02
Hg     .7355   ppb        .0000     .7355
                                                                                =
===================================================================================
*** Sample ID: MF5WC6                   Seq:  20     14:08:05 04 Jun 12   HG
                            1205175-03
Hg     .6801   ppb        .0000     .6801
                                                                                =
*** Check Standard: 3  CK3SEQ-CCV03 Seq:  21     14:10:48 04 Jun 12   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           96.12    1.922   2.000  ppb        .0000
                                                                                =
*** Check Standard: 1  CK1SEQ-CCB03 Seq:  22     14:13:03 04 Jun 12   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg           .0400    .2000    ppb        .0000
                                                                                =
```

DAB
6/5/12

PREPARATION BENCH SHEET

2052308

Bonner Analytical Testing

Analysis: ISM013 - ICP-AES (5-10)
Prepared: 05/22/2012 17:50

CASE: 42562
SDG: MF5WC4
Work Order: 1205175

Matrix: Water

Prepared using: METALS - 200.7

Lab Number	Sample ID	Initial (mL)	Final (mL)	Spike ID	Spike Amount (uL)	Spike ID	Spike Amount (uL)	pH	Color Before	Color After	Clarity Before	Clarity After	Texture	Artifacts
1205175-01	MF5WC4	50	50					< 2	colorless	colorless	clear	clear		
1205175-01RE1	MF5WC4	50	50					< 2	colorless	colorless	clear	clear		
1205175-02	MF5WC5	50	50					< 2	colorless	colorless	clear	clear		
1205175-02RE1	MF5WC5	50	50					< 2	colorless	colorless	clear	clear		
1205175-03	MF5WC6	50	50					< 2	colorless	colorless	clear	clear		
1205175-03RE1	MF5WC6	50	50					< 2	colorless	colorless	clear	clear		
2052308-MS1	MF5WC4S	50	50	B2E0092	50	B2E0091	50	< 2	colorless	colorless	clear	clear		
2052308-MS2	MF5WC4S	50	50	B2E0092	50	B2E0091	50	< 2	colorless	colorless	clear	clear		
2052308-BS1	LCS01	50	50	B2E0093	250			< 2						
2052308-DUP1	MF5WC4D	50	50					< 2	colorless	colorless	clear	clear		
2052308-DUP2	MF5WC4D	50	50					< 2	colorless	colorless	clear	clear		
2052308-BLK1	PBW01	50	50					< 2						

LIMS ID#	Description	Vendor	Vendor Lot#
B2B0002	Hydrochloric Acid - 1:1	Fisher	4111080
B2E0022	Nitric Acid - 1:1	Fisher	K03044
B2E0091	CLPP-SPK-5	Inorganic Venture	B2-MEB263095
B2E0092	CLPP-SPK-1	Inorganic Venture	D2-MEB324145
B2E0093	BA-AES-CRQL-A	Inorganic Venture	E2-MEB368140
B9G0020	Distilled Water	In-House	~~[illegible]~~ NA

SL 6/4/12

Block ID		1					
Temp. Start	Temp. Stop	97	*				
Time Start	Time Stop	17:50	*				

Comments: *Denotes digestion block set to shutoff automatically.

BGB 05/22/2012

Perpared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET

2052309

Bonner Analytical Testing

Analysis: ISM013 - ICPMS (TM)
Prepared: 05/22/2012 17:50

CASE: 42562
SDG: MF5WC4
Work Order 1205175

Matrix: Water

Prepared using: METALS - 200.8

Lab Number	Sample ID	Initial (mL)	Final (mL)	Spike ID	Spike Amount (uL)	Spike ID	Spike Amount (uL)	pH	Color Before	Color After	Clarity Before	Clarity After	Texture	Artifacts
1205175-01	MF5WC4	50	50					< 2	colorless	colorless	clear	clear		
1205175-02	MF5WC5	50	50					< 2	colorless	colorless	clear	clear		
1205175-03	MF5WC6	50	50					< 2	colorless	colorless	clear	clear		
2052309-MS1	MF5WC4S	50	50	B1J0094	500			< 2	colorless	colorless	clear	clear		
2052309-BS1	LCS01	50	50	B2A0070	100			< 2						
2052309-DUP1	MF5WC4D	50	50					< 2	colorless	colorless	clear	clear		
2052309-BLK1	PBW01	50	50					< 2						

Standard ID#	Description	Manufacture Lot#
B1J0094	ICP/MS - CLP-MS-SPK	D2-MEB352099
B2A0070	ICP/MS - ISM - BAT-11	F2-MEB407076
B2B0002	R-Hydrochloric Acid - 1:1	BA-020112JMM
B2E0022	Nitric Acid - 1:1	K03044

Block ID		1					
Temp. Start	Temp. Stop	97	*				
Time Start	Time Stop	17:50	*				

Comments:

*Denotes digestion block set to shutoff automatically.

BGB — 05/22/2012 — Perpared By — Date

Michelle Crawford 6-5-12 — Preparation Reviewed By — Date

PREPARATION BENCH SHEET

2052901

Bonner Analytical Testing

Analysis: ISM013 - Mercury

Prepared: 06/03/2012 04:00

Case: 42562

Matrix: Water

Prepared using: METALS - 7470A

Lab Number	Sample ID	Initial (mL)	Final (mL)	Spike ID	Spike Amount (uL)	Spike ID	Spike Amount (uL)	pH	Color Before	Color After	Clarity Before	Clarity After	Artifacts
1205175-01	MF5WC4	50	50					< 2	colorless	colorless	clear	clear	
1205175-02	MF5WC5	50	50					< 2	colorless	colorless	clear	clear	
1205175-03	MF5WC6	50	50					< 2	colorless	colorless	clear	clear	
2052901-MS1	MF5WC4S	50	50	B0H0016	500			< 2	colorless	colorless	clear	clear	
2052901-DUP1	MF5WC4D	50	50					< 2	colorless	colorless	clear	clear	
2052901-BLK1	PBW01	50	50					< 2					

Reagent ID	Concentration	Vendor	Lot Number
Sulfuric Acid	Neat	Fisher	3110100
Stannous Chloride	NA	BATCO	B2E0159
HNO3	Neat	Fisher	1110120
HCL	2 %	BATCO	B2E0184
SCHS	NA	BATCO	BA-042612JMM-3
Potassium Persulfate	5%	BATCO	B2E0186
Potassium Permanganate	5%	BATCO	B2E0160
DI Water	Neat	BATCO	NA

EPA ID	Std. Discription	WATER		SOIL	
		Spike V. (uL)	F.V. (mL)	Spike V. (uL)	F.V. (mL)
S0/ICB/CCB	Cal Blank/ICB/CCB	0	50	0	100
S0.2/CRI	Cal Std / CRI 0.2 ppb	100	50	200	100
S0.5	Cal Std 0.5 ppb	250	50	500	100
S1	Cal Std 1 ppb	500	50	1000	100
S2/CCV	Cal Std / CCV 2 ppb	1000	50	2000	100
S6	Cal Std 6 ppb	3000	50	6000	100
ICV	ICV 4.0 ppb	500	50	1000	100

These are the spike values used for calibration curves for Water or Soil.
See Matrix type to determine which to be used.

Block ID		8					
Temp. Start	Temp. Stop	97	97				
Time Start	Time Stop	04:00	06:00				

Comments:

BGB 06/03/2012 04:00

Perpared By Date

[illegible] 6-5-12

Preparation Reviewed By Date

189

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8991 9781 6298

Form ID No. 0209

Recipient's Copy

1 From

Date 5/15/12 [redacted]

Sender's Name Craig Weiss Phone 512 731-2604

Company TCEQ

Address 12100 Park 35 Circle MC-136

Dept./Floor/Suite/Room

City Austin State TX ZIP 78753

2 Your Internal Billing Reference 12-10479/4441/70635

3 To

Recipient's Name Patricia Aiken Phone 601 264 2854

Company Bonner Analytical Testing Co.

Address 2703 Oak Grove Rd

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Hattiesburg State MS ZIP 39402

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8991 9781 6298

P.A. 5-16-12 0908

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached *Shipper's Declaration.*
- [ ] Yes — Shipper's Declaration *not required.*
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Chec

Obtain recip. Acct. No. [ ]

[redacted]

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	6 lbs.	$ 100.00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

Rev. Date 11/10 • Part #163135 • ©1994–2010 FedEx • PRINTED IN U.S.A. SRF

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Signature

Date 5/15/2012

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Signature

Date 05/15/2012

WORK ORDER

1205175

Bonner Analytical Testing

Client: Environmental Protection Agency, Region 6
Project: 42562

Project Manager: Chris Bonner
Project Number: 42562

Report To:
Environmental Protection Agency, Region 6
Ray Flores
10625 Fallstone Road
Houston, TC 77099-4303
Phone: (281) 983-2139
Fax: (281) 983-2248

Invoice To:
Environmental Protection Agency, Region 6
Ray Flores
10625 Fallstone Road
Houston, TC 77099-4303
Phone :(281) 983-2139
Fax: (281) 983-2248

Date Due: 06/05/2012 15:00 (14 day TAT)

Received By: Trisha Aiken
Date Received: 05/16/2012 09:08

Logged In By: Trisha Aiken
Date Logged In: 05/16/2012 10:33

Samples Received at: 5°C

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirm	Yes		

Analysis	Due	TAT	Expires	Comments
1205175-01 MF5WC4 [Water] Sampled 05/15/2012 11:27 Central				**QC**
ISM013 - Mercury	06/05/2012 12:00	14	06/05/2012 11:27	
ISM013 - ICPMS (TM)	06/05/2012 12:00	14	06/05/2012 11:27	
ISM013 - ICP-AES (5-10)	06/05/2012 12:00	14	06/05/2012 11:27	
1205175-02 MF5WC5 [Water] Sampled 05/15/2012 11:45 Central				
ISM013 - Mercury	06/05/2012 12:00	14	06/05/2012 11:45	
ISM013 - ICPMS (TM)	06/05/2012 12:00	14	06/05/2012 11:45	
ISM013 - ICP-AES (5-10)	06/05/2012 12:00	14	06/05/2012 11:45	
1205175-03 MF5WC6 [Water] Sampled 05/15/2012 10:14 Central				
ISM013 - Mercury	06/05/2012 12:00	14	06/05/2012 10:14	
ISM013 - ICPMS (TM)	06/05/2012 12:00	14	06/05/2012 10:14	
ISM013 - ICP-AES (5-10)	06/05/2012 12:00	14	06/05/2012 10:14	

M Hornsby
Reviewed By

6-4-12
Date

Bonner Analytical Testing Company

SAMPLE RECEIPT FORM

23051

Client: CLP

Date: 5-16-12

Sample Type: Grab Composite

SDG#: MF5WC4

Case#: 42562

Matrix: SW (stormwater) GW (groundwater) WW (wastewater) DW (drinkingwater) SL (sludge)

SO (soil) AS (asbestos) PE (petroleum) other _____

1) Does this project fall under NPDES, RCRA, CLP, Litigation or other EPA guidelines?	NA	YES	NO
2) Did Cooler come with airbill/sticker? Circle carrier: UPS, FedEx, other: _____ If YES, enter airbill number here: 8991 9781 6298	NA	YES	NO
3) Are custody seals intact? Custody Seal#: N/A Custody Seal#: N/A	NA	YES	NO
4) Are all bottles sealed in separate plastic bags?	NA	YES	NO
5) Are samples requiring no headspace, headspace free?	NA	YES	NO
6) Packing Material: Bubblewrap, peanuts, vermiculite, ice, other: _____		YES	NO
7) Are chains of custody filled out properly? (ink, signed, dates, QC listed, etc.)		YES	NO
8) Are all bottle labels complete and agree with COC? (ID, time, date, preservation)		YES	NO
9) Were all bottles received intact?		YES	NO
10) Were correct containers used for the tests indicated? Who's: BATCO/Client		YES	NO
11) Was a sufficient aliquot of sample sent for tests indicated?		YES	NO
12) Are samples within holding times for requested analysis?		YES	NO
13) Sample Preservation?			
A) If samples were collected within 6 hours of receipt, has chilling begun?	NA	YES	NO
B) If samples were received beyond 6 hours of collection:			
1) Is there a temperature blank?	NA	YES	NO
2) Temperature 5°C			
C) Were correct preservatives added to sample/s?	NA	YES	NO

14) Describe "NO" items for the above if # 1) response is NA or YES

N/A

15) Is there a Corrective Action and/or Client Contact form attached? YES NO

Signature: Patricia Aik

Rev No. 1.4
Date: 07/15/05

Bonner Analytical Testing Co.
Inhouse Chain of Custody
for Samples

SDG Number: MF5WC4 **Case No.:** 42562

Work Order Number: 1205175

1) MF5WC4	7)	13)	19)
2) MF5WC5	8)	14)	20)
3) MF5WC6	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

Sample to be used for QC: MF5WC4

Name	Signature	Date &Time	Purpose
P. Aik	P. Aik	5-16-12 1130	S
Brandon Polk	BBP	5-22-12 1405	Hg
Brandon Polk	BBP	5-22-12 1410	S
Brandon Polk	BBP	5-22-12 1448	TM
Brandon Polk	BBP	5-22-12 1455	S

Purpose: S - Storage; W - Weigh; DP - Disposal; TS - Total Solids; P - Pour

Bonner Analytical Testing Co.
Digestate Chain of Custody
for Samples

SDG Number: MF5WC4 **Case No.:** 42562

Work Order Number: 1205175

1) MF5WC4	7)	13)	19)
2) MF5WC5	8)	14)	20)
3) MF5WC6	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

Sample to be used for QC: MF5WC4

Name	Signature	Date &Time	Purpose
Brandon Bell	BAB	5/22/12 1450	P
Brandon Bell	BAB	5/22/12 1458	S
Brandon Bell	BAB	5-22-12 1780	D
Brandon Bell	BAB	5-23-12 0830	S
[illegible]	[illegible]	5-23-12 @ 1200	A
[illegible]	[illegible]	5-24-12 @ 0030	S

Purpose: S - Storage; A - Analyze; DP - Disposal; D - Digest; W - Weigh; P-Pour

Bonner Analytical Testing Co.
Digestate Chain of Custody
for Samples

SDG Number: MF5WC4 **Case No.:** 42562

Work Order Number: 1205175

1) MF5WC4	7)	13)	19)
2) MF5WC5	8)	14)	20)
3) MF5WC6	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

Sample to be used for QC: MF5WC4

Name: Brandon Bell Signature: BBB Date &Time 5/22/12 1448 Purpose: P
Name: Brandon Bell Signature: BBB Date &Time 5/22/12 1450 Purpose: S
Name: Brandon Bell Signature: BBB Date &Time 5-23-12 1700 Purpose: P
Name: Brandon Bell Signature: BBB Date &Time 5-23-12 0830 Purpose: S
Name: Brandon Bell Signature: BBB Date &Time 5-23-12 @ 0900 Purpose: A
Name: Brandon Bell Signature: BBB Date &Time 5-23-12 @ 1700 Purpose: S
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:
Name: Signature: Date &Time Purpose:

Purpose: S - Storage; A - Analyze; DP - Disposal; D - Digest; W - Weigh; P-Pour

Bonner Analytical Testing Co.
Digestate Chain of Custody
for Samples

SDG Number: MF5WC4 **Case No.:** 42562

Work Order Number: 1205175

1) MF5WC4	7)	13)	19)
2) MF5WC5	8)	14)	20)
3) MF5WC6	9)	15)	21)
4)	10)	16)	22)
5)	11)	17)	23)
6)	12)	18)	24)

Sample to be used for QC: MF5WC4

Name	Signature	Date &Time	Purpose
Brandon Park	BPB	5-22-12 1405	P
Brandon Park	BPB	5-22-12 1410	S
Brandon Park	BPB	6-3-12 0400	D
Brandon Park	BPB	6-3-12 0600	S
Brandon Park	BPB	6-4-12 0317	A
Brandon Park	BPB	6-4-12 0700	DP

Purpose: S - Storage; A - Analyze; DP - Disposal; D - Digest; W - Weigh; P-Pour

Metals Weekly Digestion Block Temperature Verification

Date	5/15/12		5/23/12					
Initials	MSB²		MSB²					
	Temp Read Out	**Thermometer**	**Temp Read Out**	**Thermometer**	**Temp Read Out**	**Thermometer**	**Temp Read Out**	**Thermometer**
ICP Digester 01	94	94	96	95				
ICP Digester 02	113.5	95	113.5	95				
ICP Digester 03	96	96	97	97				
ICP Digester 04	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE				
Reviewed/Date:	[signature]	5/15/12	[signature]	5/23/12				

Date								
Initials								
	Temp Read Out	**Thermometer**	**Temp Read Out**	**Thermometer**	**Temp Read Out**	**Thermometer**	**Temp Read Out**	**Thermometer**
ICP Digester 01								
ICP Digester 02								
ICP Digester 03								
ICP Digester 04								
Reviewed/Date:								

If temperature does not agree with the certified thermometer than either recalibrate the digestion block or use the thermometer to regulate the digestion block and record the thermometer temperature on digestion logs.

A copy of this page must accompany each SDG digested during the week.

Date of certified thermometer: _____
****Cannot exceed 1 year**

~~125~~

REAGENTS PREPARATION LOG
Acidified Water

Lims ID: B2D0074

Prepared By: Max Bonner

Preparation Date: 3/23/2012

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	18800 mL	BATCO	NA	NA	NA
Nitric Acid	Neat	200 mL	Fischer	1110120	3/5/2011	10/1/2013
Hyrdochloric Acid	Neat	1000 mL	Fisher	4110080	6/4/2010	NA

Balance ID: NA

Instrument: ICP-AES (Thermo iCAP)

Final Volume: 20 Liters

Concentration: 1%HNO_3/5%HCl

Used For: Preparation of standards and controls

Expiration Date: 1 year

Comments:

Reviewed By: 3/24/12
Supervisor/Date

REAGENTS PREPARATION LOG

ICP Reference Standards

Lims ID: B1L0026 Batch: BA-122711MSB2

Preparation Date: 12/27/2011 Prepared By: Max Bonner

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	~ 5 gallons	BATCO	NA	NA	NA
Indium (Chloride)	Neat	1.97 g	Sigma-Aldrich	41796T7	8/7/2010	NA
Scandium	1,000	190 mL	SCP Science	S110725007	10/17/2011	3/8/2012
Yttrium	1,000	46.9 mL	SCP Science	S110719029	10/17/2011	3/8/112

Instrument: Thermo - iCAP

Final Volume : 5 gallons

Concentration: In @ 50 ppm; Y @ 2.5 ppm; Sc @ 10 ppm

Used For: Internal Standards for ICP

Expiration Date 1 year

Comments

Reviewed By: 1/9/12
Supervisor/Date

Bonner Analytical Testing Company
ICP-AES
ISM Standard Concentrations

Analyte	Wavelength (nm)	Stock Std. (ppm)	S1 (ppm)	S2 (ppm)	S3 (ppm)	S4/CCV (ppm)	S5 (ppm)	Stock Std. (ppm)	S6 (ppm)	S7 (ppm)	Stock Std. (ppm)	S8 (ppm)	S9 (ppm)	ICV	ICSA	ICSAB	MS Water	MS Soil (mg/kg)	CRQL
Ag	328.0	20	0.005	0.10	0.20	1.0	2.0							501	(0)	206	50	10	10
Al	396.1	400	0.10	2.00	4.00	20.0	40.0	10000	200	400				2521	244100	241100	2000		200
As	198.0	40	0.010	0.20	0.40	2.0	4.0				80		8	999	(0)	101	40	8	10
Ba	455.4	320	0.080	1.60	3.20	16.0	32.0							497	(2)	495	2000	400	200
Be	313.1	8	0.0020	0.04	0.08	0.4	0.8							495	(0)	475	50	10	5
B	249.7	40	0.010	0.20	0.40	2.0	4.0							999	(0)	101	40	8	10
Ca	318.1	1000	0.25	5.00	10.00	50.0	100.0	10000	250	500				10026	234900	231100			5000
Cd	214.4	20	0.0050	0.10	0.20	1.0	2.0							496	(0)	940	50	10	5
Co	228.6	50	0.013	0.25	0.50	2.5	5.0							499	(4)	461	500	100	50
Cr	267.7	40	0.010	0.20	0.40	2.0	4.0				400	12.5	25	490	43	511	200	40	10
Cu	324.7	100	0.025	0.50	1.00	5.0	10.0				250	20	40	492	(23)	548	250	50	25
Fe	238.2	400	0.100	2.00	4.00	20.0	40.0	10000	175	350	10000	200	400	5082	95600	94800	1000		100
K	766.4	1000	0.250	5.00	10.00	50.0	100.0	10000	150	300				10021					5000
Li	670.7	20	0.005	0.10	0.20	1.0	2.0							500	(0)	(0)	200		15
Mg	279.0	1000	0.25	5.00	10.00	50.0	100.0	10000	250	500				6074	247500	251100			5000
Mn	257.6	60	0.015	0.30	0.60	3.0	6.0				250	12.5	25	499	19	502	500	100	15
Na	589.5	1000	0.250	5.00	10.00	50 0	100.0	10000	125	250				10097	(0)				5000
Ni	231.6	80	0.020	0.40	0.80	4.0	8.0							503	(21)	984	500	100	40
Pb	220.3	40	0.010	0.20	0.40	2.0	4.0	1000	12.5	25	100	5	10	1002	10	61	20	4	10
Sb	206.8	80	0.020	0.40	0.80	4.0	8.0							994	(0)	589	100	20	60
Se	196.0	70	0.018	0.35	0.70	3.5	7.0							1029	(0)	53	50	10	35
Sn	189.9	40	0.10	2.00	4.00	20.0	40.0							999	(0)	(0)	100	100	7
Tl	190.8	80	0.020	0.40	0.80	4.0	8.0							1028	(0)	103	50	10	25
V	292.4	80	0.020	0.40	0.80	4.0	8.0							501	(0)	494	500	100	50
Zn	206.2	160	0.040	0.80	1.60	8.0	16.0				250	12.5	25	1025	(28)	1028	500	100	60

Units are in µg/L unless otherwise noted.

() Indicates analyte values that are less than the CRQL, and the value is to be used as a set point for the ± CRQL accptance criteria calculation.

STANDARD & QC LOG (ISM)

~~111~~

for 5/21/12 ICP 01/02/03 Daily Analysis

Description	EPA ID	Amount Spiked	Volume Made	Manufacturer	Lot#	Date Lot Expires	LIMS ID
Initial Calibration High	S9		50 mL	Inorganic Ventures	NA	72 hours	B2D0083
BAT-10		5.0 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Fe 10000 ppm		2.0 mL		Inorganic Ventures	E2-FE03139	Feb-13	
Initial Calibration High	S8		50 mL	Inorganic Ventures	NA	72 hours	B2D0082
BAT-10		2.5 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Fe 10000 ppm		1.0 mL		Inorganic Ventures	E2-FE03139	Feb-13	
Initial Calibration High	S7		50 mL	Inorganic Ventures	NA	72 hours	B2D0081
BAT-9		5.0 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Pb 1000 ppm		1.25 mL		SPC Science	S110714001	Mar-13	
Initial Calibration High	S6		50 mL	Inorganic Ventures	NA	72 hours	B2D0080
BAT-9		2.5 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Pb 1000 ppm		0.625		SPC Science	S110714001	Mar-13	
Initial Calibration High	S5		50 mL	Inorganic Ventures	NA	72 hours	B2D0079
BAT-5		5.0 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		5.0 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Mid	S4/CCV		50 mL	Inorganic Ventures	NA	72 hours	B2D0078
BAT-5		2.5 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		2.5 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Low	S3		50 mL	Inorganic Ventures	NA	72 hours	B2D0077
AT-5		0.5 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		0.5 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Low	S2	5.0 mL	50 mL	Inorganic Ventures	From S4	72 hours	B2D0076
Initial Calibration Low	S1	2.5 mL	50 mL	Inorganic Ventures	From S2	72 hours	B2D0075
Initial Calibration Blank	S0	NA	50 mL	In-house	NA	72 hours	B2D0074
Initial Calibration Verification	ICV	NA	50 mL	Inorganic Ventures	NA	72 hours	B9C0001
ICV-1		5.0mL	Composite	EPA REF Material	0307	NA	
Initial Calibration Blank	ICB	NA	50 mL	In-house	NA	72 hours	
Interelement Check Standard A	ICSA	25 mL	250 mL	EPA REF Material	1206	2 wk	B810015
Interelement Check Standard AB	ICSAB	NA	250 mL	EPA REF Material	NA	2 wk	B810016
ICS PART A		25 mL	Composite	EPA REF Material	1206	NA	
ICS PART B		25 mL		EPA REF Material	0203	NA	
Continuing Calibration Blank	CCB	NA	50 mL	In-house	NA	72 hours	
Matrix Spike	MS	NA	100 mL(soil) 50 mL (water)	Inorganic Ventures	NA	NA	
CLPP-SPK-1		200uL (soil) 50uL (water)	Composite		D2-MEB324145	Nov-12	B1J0026
CLPP-SPK-5					B2-MEB263095	Nov-12	B1J0025
Lab Control Sample	LCS	NA	100 mL(soil) 50 mL (water)	Inorganic Ventures	NA	NA	
BA-AES-CRQL-A		500uL (soil) 250uL (water)	Composite		E2-MEB368140	Dec-12	B1J0097

*Dilutions of standards are made with the same Acid Water as the S0, CCB, & ICB.

Prepared By: _____ Analyst

Reviewed By: _____ 5/21/12 Supervisor/Date

STANDARD & QC LOG (ISM)

~~111~~

for 5/21/12 ICP 01/02/03 Daily Analysis

Description	EPA ID	Amount Spiked	Volume Made	Manufacturer	Lot#	Date Lot Expires	LIMS ID
Initial Calibration High	S9		50 mL	Inorganic Ventures	NA	72 hours	B2D0083
BAT-10		5.0 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Fe 10000 ppm		2.0 mL		Inorganic Ventures	E2-FE03139	Feb-13	
Initial Calibration High	S8		50 mL	Inorganic Ventures	NA	72 hours	B2D0082
BAT-10		2.5 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Fe 10000 ppm		1.0 mL		Inorganic Ventures	E2-FE03139	Feb-13	
Initial Calibration High	S7		50 mL	Inorganic Ventures	NA	72 hours	B2D0081
BAT-9		5.0 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Pb 1000 ppm		1.25 mL		SPC Science	S110714001	Mar-13	
Initial Calibration High	S6		50 mL	Inorganic Ventures	NA	72 hours	B2D0080
BAT-9		2.5 mL	Composite	Inorganic Ventures	F2-MEB414049	Apr-13	
Pb 1000 ppm		0.625		SPC Science	S110714001	Mar-13	
Initial Calibration High	S5		50 mL	Inorganic Ventures	NA	72 hours	B2D0079
BAT-5		5.0 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		5.0 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Mid	S4/CCV		50 mL	Inorganic Ventures	NA	72 hours	B2D0078
BAT-5		2.5 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		2.5 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Low	S3		50 mL	Inorganic Ventures	NA	72 hours	B2D0077
AT-5		0.5 mL	Composite	Inorganic Ventures	F2-MEB408014	Feb-13	
BAT-4		0.5 mL		Inorganic Ventures	F2-MEB408013	Feb-13	
Initial Calibration Low	S2	5.0 mL	50 mL	Inorganic Ventures	From S4	72 hours	B2D0076
Initial Calibration Low	S1	2.5 mL	50 mL	Inorganic Ventures	From S2	72 hours	B2D0075
Initial Calibration Blank	S0	NA	50 mL	In-house	NA	72 hours	B2D0074
Initial Calibration Verification	ICV	NA	50 mL	Inorganic Ventures	NA	72 hours	B9C0001
ICV-1		5.0mL	Composite	EPA REF Material	0307	NA	
Initial Calibration Blank	ICB	NA	50 mL	In-house	NA	72 hours	
Interelement Check Standard A	ICSA	25 mL	250 mL	EPA REF Material	1206	2 wk	B810015
Interelement Check Standard AB	ICSAB	NA	250 mL	EPA REF Material	NA	2 wk	B810016
ICS PART A		25 mL	Composite	EPA REF Material	1206	NA	
ICS PART B		25 mL		EPA REF Material	0203	NA	
Continuing Calibration Blank	CCB	NA	50 mL	In-house	NA	72 hours	
Matrix Spike	MS	NA	100 mL(soil) 50 mL (water)	Inorganic Ventures	NA	NA	
CLPP-SPK-1		200uL (soil) 50uL (water)	Composite		D2-MEB324145	Nov-12	B1J0026
CLPP-SPK-5					B2-MEB263095	Nov-12	B1J0025
Lab Control Sample	LCS	NA	100 mL(soil) 50 mL (water)	Inorganic Ventures	NA	NA	
BA-AES-CRQL-A		500uL (soil) 250uL (water)	Composite		E2-MEB368140	Dec-12	B1J0097

*Dilutions of standards are made with the same Acid Water as the S0, CCB, & ICB.

Prepared By: _____ Analyst

Reviewed By: _____ 5/21/12 Supervisor/Date

BONNER ANALYTICAL TESTING CO.

CLP STANDARDS CONCENTRATION - ISM01.3

Element	Scrql	S10	S50	S500	S1000	S5000	S125000	ICV	LCS (ug/L)	LCS (mg/kg)	ICSA	ICSAB	CCV	MS (ug/L)	MS (mg/kg)
Al	20	260	1300	13000	26000		125000	504	40		(100000)	(100000)	13000		
Ag	1	1.3	6.5	65	130			100	2	1	(0)	18	65	50	5
As	1	10	50	500	1000			200	2	1	(0.1)	19	500	40	4
Ba		10	50	500	1000	5000		99	20	10	(1.2)	22	2500	2000	200
Be	1	10	50	500	1000			99	2	1	(0)	19	500	50	5
Ca	500	250	1250	12500	25000		125000	2005	1000		(100000)	(100000)	12500		
Cd	1	10	50	500	1000			99	2	1	(0.7)	20	500	50	5
Co	1	10	50	500	1000			100	2	1	1	20	500	500	50
Cr	2	10	50	500	1000			98	4	2	21	40	500	200	20
Cu	2	10	50	500	1000			98	4	2	8	25	500	250	25
Fe	200	250	1250	12500	25000		125000	1016	400		(100000)	(100000)	12500		
Mg	500	250	1250	12500	25000		125000	1215	1000		(100000)	(100000)	12500		
Mn	1	10	50	500	1000			100	2	1	7	27	500	500	50
Na	500	250	1250	12500	25000		125000	2019	1000		(100000)	(100000)	12500		
Ni	1	10	50	500	1000			101	2	1	6	24	500	500	50
Pb	1	10	50	500	1000			200	2	1	4	25	500	20	2
K	500	250	1250	12500	25000		125000	2004	1000		(100000)	(100000)	12500		
Sb	2	10	50	500	1000			199	4	2	(1.5)	22	500	100	10
Se	5	10	50	500	1000			206	10	5	(0.3)	19	500	100	10
Tl	1	10	50	500	1000			206	2	1	(0)	21	500	50	5
V	5	10	50	500	1000			100	10	5	(0.5)	19	500	500	50
Zn	2	10	50	500	1000	5000		205	4	2	11	29	2500	500	50

Units are ug/L unless noted otherwise
( ) Indicates analyte values that are less than the crql and the value is to be used as a set point for the +/-2 times the crql acceptance criteria calculations.

ICPMS01 Reference Standard

Lims ID: B2E0026

Preparation Date: 5/4/2012

Prepared By: Brandon G. Beck

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	19780 mL	BATCO	NA	NA	NA
Nitric Acid	Neat	200 mL	Fisher	1110120	4/15/2011	12/1/2013
6020ISS	10	20.0 mL	Inorganic Ventures	E2-MEB398073	5/4/2012	6/1/2013
^{6}Lithium	1,000	1.20 mL	Inorganic Ventures	F2-LI02140	5/4/2012	6/1/2013
Scandium	1,000	0.30 mL	Inorganic Ventures	E2-SC02093	5/4/2012	6/1/2013
Indium	1,000	0.20 mL	Inorganic Ventures	E2-IN01081	5/4/2012	6/1/2013

Balance ID: NA

Instrument: ICPMS01

Final Volume : 20 Liter

Concentration: Bi, Ho, Rh, Tb, Y 10ppb/^{6}Li 70ppb/Sc 25ppb/In 20ppb in 1%HNO_3

Used For: Internal Standards for ICP-MS

Expiration Date 6/1/2013

Comments:

Concentration of internal standard elements should be adjusted to keep the CPS approx. 100,000 - 300,000.

Reviewed By: 5/4/12
Supervisor/Date

REAGENTS PREPARATION LOG

1% HNO_3

Lims ID: B2E0029

Preparation Date: 5/4/2012

Prepared By: Brandon G. Beck

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled H2O	Neat	19800 mL	BATCO	NA	NA	NA
Nitric Acid	Neat	200 mL	Fischer	1110120	4/15/2011	12/1/2013

Balance ID: NA

Instrument: ICPMS01

Final Volume : 5 Gallons

Concentration: 1% HNO_3

Used For: ICV, ICSA. ICSAB,TUNE, Soil Samples

Expiration Date 12 months after preparation date

Comments

Reviewed By: 5/4/12
Supervisor/Date

REAGENTS PREPARATION LOG

2% HNO_3

Lims ID:B2C0101 Batch: BA-032312BGB

Preparation Date: 3/23/2012 Prepared By: Brandon G. Beck

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled H2O	Neat	9800 mL	BATCO	NA	NA	NA
Nitric Acid	Neat	200 mL	Fisher	1110120	NA	NA

Balance ID: NA

Instrument: ICPMS01

Final Volume : 10 Liters

Concentration: 2% HNO_3

Used For: ICP-MS Rinse

Expiration Date 12 months after preparation date

Comments

Reviewed By: 03/29/12
Supervisor/Date

REAGENTS PREPARATION LOG

Acidified Water

Preparation Date: 01/17/12 Prepared By: Brandon Beck Batch No.: B2A0073

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled H2O	Neat	19700 mL	BATCO	NA	NA	NA
Nitric Acid	Neat	200 mL	Fisher	073370	4/15/11	NA
Hydrochloric Acid	Neat	100 mL	Fisher	4111080	8/16/11	NA

Instrument: ICPMS01

Final Volume : 20 Liters

Concentration: 1%HNO_3/0.5%HCL

Used For: Preparation of standards and controls

Expiration Date 1year after preparation date

Comments

Reviewed By: 1/17/12
Reviewer/Date

Bonner Analytical Testing Co.

Instrument: ICPMS01
Serial No: X0494

for 5/23/12 ICPMS01 Daily Analysis

Description	Stock Std Conc.	EPA ID	Amount Spiked	Volume Made	Manufacturer	Lot#	Date Lot Expires	LIMs ID
BAT-11	50ppm Ca,K,Mg,Na 20ppm Fe - 2ppm Al 1ppm Ba - 0.5ppmSe,V 0.2ppm Cr,Cu,Sb,Zn 0.1ppm Ag,As,Be,Cd, Co,Mn,Ni,Pb,Tl.				Inorganic Ventures	F2-MEB407076	Feb-13	B2A0070
BAISM-MIX1	50ppm Al,As, Ba,Be,Cd,Co,Cr, Cu,,Mn,Ni,Pb, Sb,Se,Tl,V,Zn. 6.5ppm Ag				SCP Science	S120416007	Apr-13	B2E0079
BAISM-MIX2	1000ppm Ba, Mn, Zn				Inorganic Ventures	E2-MEB395062	Nov-12	B1J0073
BONNER-1	10000 ppmAl, Ca, Fe, K, Mg, Na				Inorganic Ventures	E2-MEB395063	Nov-12	B1J0072
BONNER-1	10000 ppmAl, Ca, Fe, K, Mg, Na	S125000	0.625 mL	50 mL	Inorganic Ventures	E2-MEB395063	Nov-12	B1J0075
BAISM-MIX2	1000ppm Ba, Mn, Zn	S5000	0.25 mL	50 mL	Inorganic Ventures	E2-MEB395062	Nov-12	B1J0081
BAISM-MIX1	Comp	S1000 / S25000	1.0 mL	50 mL	SCP Science	S120416007	2 Week	B2E0080
BONNER-1			0.125 mL		Inorganic Ventures	E2-MEB395063		
BAISM-MIX1	Comp	S500	25 mL	50 mL	NA	S1000/25000	2 Week	B2E0081
BAISM-MIX1	Comp	S50	2.5 mL	50 mL	NA	S1000/25000	2 Week	B2E0082
BAISM-MIX1	Comp	S10	0.5 mL	50 mL	NA	S1000/25000	2 Week	B2E0083
BAT-11	50ppm Ca,K,Mg,Na 20ppm Fe - 2ppm Al 1ppm Ba - 0.5ppmSe,V 0.2ppm Cr,Cu,Sb,Zn 0.1ppm Ag,As,Be,Cd, Co,Mn,Ni,Pb,Tl.	Scrql	0.05 mL	50 mL	Inorganic Ventures	F2-MEB407076	Feb-13	B2E0084
Calibration Blank		S0	NA	NA	In-house	NA	12 months	B7J0004
ICV-1		ICV	1.0 mL	50 mL	EPA	ICV-1 (0307)	2 weeks	B0I0075
Initial Calibration Blank		ICB	NA	NA	In-house	B0I0065	12 months	
Interelement Check Standard A		ICSA	5.0 mL	50 mL	EPA	ICS-MS (0803)	1 month	B9E0003
Interelement Check Standard AB		ICSAB	5.0 mL of A 5.0 mL of B	50 mL	EPA	ICS-MS (0803)	1 month	B9E0004
Continuing Calibration Verification							2 weeks	
BAISM-MIX1	Comp	CCV	0.5 mL	50 mL	SCP Science	S120416007	2 Week	B2E0079
Ba (1000 ppm)			0.100 mL		SCP Science	S110221022		B1L0177
Zn (1000 ppm)			0.100 mL		Inorganic Ventures	D2-ZN02065		B1F0036
Continuing Calibration Blank		CCB	NA	NA	In-house	B0I0065	12 months	
200.8TS	10ppm Be,Co, In,Mg,Pb	TUNE	0.5 mL	50 mL	Inorganic Ventures	B2-MEB236091	Nov-12	
IV-STOCK-12 (Tune A)	10ppm Ba,Bi,Ce,Co,In,Li, Ni,Pb,U		0.05 mL	50 mL	Inorganic Ventures	E2-MEB372150	Nov-12	
BONNER-CAL-5 (Tune D)	10ppm each		0.5 mL	50 mL	Inorganic Ventures	E2-MEB395065	Nov-12	
CLP-MS-SPK	200ppm Al, Ba 50ppm Co, Mn, Ni, V, Zn 25ppm Cu 20ppm Cr 10ppm Sb, Se 5ppm Ag, Be, Cd, Tl 4 ppm As 2ppm Pb	Matrix Spike	0.5 mL	50	Inorganic Ventures	#REF!	#REF!	B1J0094
BAT-11	50ppm Ca,K,Mg,Na 20ppm Fe - 2ppm Al 1ppm Ba - 0.5ppmSe,V 0.2ppm Cr,Cu,Sb,Zn 0.1ppm Ag,As,Be,Cd, Co,Mn,Ni,Pb,Tl.	LCS	0.1 mL	50 mL	Inorganic Ventures	F2-MEB407076	Feb-13	B2A0070

* Dilutions of calibration stds, CCV, & 200.8TS are made with the same acid water as the S0, ICB & CCB
* Dilutions of ICV, ICSA, ICSAB, Tune A, & Tune D are made with 1% HNO3
* Scrql, S10000 & S125000 are good for 2 Weeks

Prepared By: _____ Analyst/Date

Reviewed By: _____ 5/24/12 Name/Date

STANDARDS LOG

Analyst: 06-03-12 Date: RMB

Description	EPA ID	Amount Spiked	Volume Made	Manufacturer/ ID Number	Initial Conc.	Lot#	Date Lot Expires	Final Conc.
Initial Calibration Working Standard	S-WS-A	0.25 mL	25 mL	Inorganic Ventures E2-HG02085	1000 ppm	BA-0603126616-2	Sep-11	10 ppm
Initial Calibration Working Standard	S-WS-B	1.0 mL	100 mL	S-SW-A	10 ppm	BA-0603126616-1	2 weeks	100 ppb
Initial Calibration Blank	S0	NA	50 mL	In-house	NA	NA	1 Day	NA
Initial Calibration	S0.2	0.1 mL	50 mL	S-SW-B	100 ppb	NA	1 Day	0.2 ppb
Initial Calibration	S0.5	0.25 mL	50 mL	S-SW-B	100 ppb	NA	1 Day	0.5 ppb
Initial Calibration	S1	0.5 mL	50 mL	S-SW-B	100 ppb	NA	1 Day	1.0 ppb
Initial Calibration	S2	1.0 mL	50 mL	S-SW-B	100 ppb	NA	1 Day	2.0 ppb
Initial Calibration	S6	3.0 mL	50 mL	S-SW-B	100 ppb	NA	1 Day	6.0 ppb
Initial Calibration Verification	ICV	0.5 mL	50 mL	EPA ICV 0508	400 ppb	NA	NA	4.0 ppb
Initial Calibration Blank	ICB	NA	50 mL	In-house	NA	NA	1 Day	NA
Continuing Calibration Verification	CCV	1.0 mL	50 mL	B9H0160	100 ppb	NA	1 Day	2.0 ppb
Continuing Calibration Blank	CCB	NA	50 mL	In-house	NA	NA	1 Day	NA

Reviewed By: Michelle Crawford Date: ~~6-2-12~~ MLC 6-4-12

HG Weekly Digestion Block Temperature Verification

Date	4/26/12		5/7/2012		5/15/2012		5/24/12	
Initials	JAM		PBB		PBB		PBB	
	Temp Read Out	Thermometer	Temp Read Out	Thermometer	Temp Read Out	Thermometer	Temp Read Out	Thermometer
HG Digester 01	55	96			N/A	N/A	N/A	N/A
HG Digester 02	53	95	53	96	65	97	62	96
HG Digester 03					N/A	N/A	N/A	N/A
Reviewed/Date:			5-8-12		5/16/12		5-24-12	

Date	6-3-12							
Initials	PBB							
	Temp Read Out	Thermometer	Temp Read Out	Thermometer	Temp Read Out	Thermometer	Temp Read Out	Thermometer
HG Digester 01	N/A	N/A						
HG Digester 02	65	97						
HG Digester 03	N/A	N/A						
Reviewed/Date:		6-4-12						

If temperature does not agree with the certified thermometer than either recalibrate the digestion block or use the thermometer to regulate the digestion block and record the thermometer temperature on digestion logs.

A copy of this page must accompany each SDG digested during the week.

Date of certified thermometer: 7/8/11
**Cannot exceed 1 year

REAGENTS PREPARATION LOG

Stannous Chloride Solution

Preparation Date: 5/31/2012 Prepared By: Brandon G. Bk LIMs ID: B2E0159

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	900mL	BATCO	NA	NA	NA
Stannous Chloride	Neat	100.00g	fisher	112260	10/12/11	NA
Hydrochloric Acid	Neat	100mL	VWR	4111110	4/3/12	12/25/14

Balance ID: Mettler IV

Instrument: Leeman Hydra Hg

Final Volume: 1L

Concentration: NA

Used For: Mercury Prep.

Expiration Date 6 Months

Comments: 100 grams stannous chloride to final volume 1L 10% HCl

Reviewed By: [signature] 5-31-12
Supervisor/Date

Rev 1.1
2/9/2012
BGB

REAGENTS PREPARATION LOG

Sodium Chloride Hydroxylamine Sulfate

000085

Preparation Date: 4/26/12 Prepared By: Jones McClith Batch No.: BA- 042612SMM- 3

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	2000.0 ml	BATCO	NA	NA	NA
Hydroxylamine Sulfate	Neat	240.00 g	Fisher	097120 A	1/20/11	NA
Sodium Chloride	Neat	240.00 g	Fisher	034102	10/19/11	NA

Balance ID Mettler TU

Instrument: Leeman Hydra HG

Final Volume : 2L

Concentration: 24%

Used For: Mercury Preparation

Expiration Date 6 months

Comments

Reviewed By: Michelle Crawford 4-26-12
Supervisor/Date

REAGENTS PREPARATION LOG

Potassium Permanganate Solution

Preparation Date: 5/24/12 Prepared By: Brandon G. Bak LIMs ID: B2E0160

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	2000mL	BATCO	NA	NA	NA
Potassium Permanganate	Neat	100g	Fisher	113843	NA	6/30/13

Balance ID: Sartorius I

Instrument: Leeman Hydra Hg

Final Volume: 2L

Concentration: 5%

Used For: Mercury Prep.

Expiration Date 6 Months

Comments: 100 grams for 2000 mL Deionized Water

Reviewed By: [signature] 5-24-12
Supervisor/Date

REAGENTS PREPARATION LOG

2% Hydrochloric Acid

Preparation Date: 5/22/12 Prepared By: [signature] LIMs ID: B2E0184

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	19600 mL	BATCO	NA	NA	NA
Hyrdochloric Acid	Neat	400 mL	Fisher	4111080	2-DEC	NA

Balance ID: N/A

Instrument: Leeman Hydra Hg

Final Volume : 20L

Concentration: 2%

Used For: Mercury Preparation

Expiration Date Prepare immediately before use

Comments

Reviewed By: [signature] 5-29-12
Supervisor/Date

Rev 1.1
2/9/2012
BGB

REAGENTS PREPARATION LOG

214

Potassium Persulfate Solution

Preparation Date: 5/24/12 Prepared By: [signature] Lims ID: B2E0186

Reagents	Conc. mg/L	Amount	Supplier	Lot Number	Received Date	Expiration Date
Distilled Water	Neat	2000mL	BATCO	NA	NA	NA
Potassium Persulfate	Neat	100g	Fisher	095983	4/26/12	NA

Balance ID: Sartorius I

Instrument: Leeman Hydra Hg

Final Volume: 2L

Concentration: NA

Used For: Mercury Prep.

Expiration Date 6 Months

Comments: 100 grams to 2000 mL of Deionized Water

Reviewed By: [signature] 5-29-12
Supervisor/Date

Rev 1.1
2/9/12
BGB

Bonner Analytical Testing Co. Metals Analytical Run Log

File Name: MF5WC4 SDG No.: MF5WC4 Standards Prep Date: 5/21/12

Instrument: iCAPP02 Case No.: 42562 Standards Log Page No.: 111

Analyst: MSB2

Lab ID	EPA Sample #	Date&Time	Elements circled for S0-S# were used throughout this run unless otherwised noted. Al, As, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn
BF20402-CAL1	S0	5/23/12 14:31	
BF20402-CAL2	S	5/23/12 14:36	
BF20402-CAL3	S	5/23/12 14:40	
BF20402-CAL4	S	5/23/12 14:44	
BF20402-CAL5	S	5/23/12 14:48	
BF20402-CAL6	S	5/23/12 14:52	
BF20402-CAL7	S	5/23/12 14:57	
BF20402-CAL8	S	5/23/12 15:01	
BF20402-CAL9	S	5/23/12 15:06	NA
BF20402-CALA	S	5/23/12 15:10	NA
BF20402-ICV1	ICV01	5/23/12 15:15	
BF20402-ICB1	ICB01	5/23/12 15:19	
BF20402-IFA1	ICSA01	5/23/12 15:23	
BF20402-IFB1	ICSAB01	5/23/12 15:27	
BF20402-CCV1	CCV01	5/23/12 15:31	
BF20402-CCB1	CCB01	5/23/12 15:36	
BF20402-CCV2	CCV02	5/23/12 16:31	
BF20402-CCB2	CCB02	5/23/12 16:35	
2052308-BLK1	PBW01	5/23/12 16:39	
2052308-BS1	LCS01	5/23/12 16:43	
1205175-01	MF5WC4	5/23/12 16:48	Minus Na
2052308-MS1	MF5WC4S	5/23/12 16:52	"
2052308-DUP1	MF5WC4D	5/23/12 16:56	"
BF20402-SRD1	MF5WC4L	5/23/12 17:01	"
1205175-02	MF5WC5	5/23/12 17:05	"
1205175-03	MF5WC6	5/23/12 17:10	"
BF20402-CCV3	CCV03	5/23/12 17:14	
BF20402-CCB3	CCB03	5/23/12 17:18	

Bonner Analytical Testing Co. Metals Analytical Run Log

File Name: MF5WC4 SDG No.: MF5WC4 Standards Prep Date: 5/24/12

Instrument: iCAPP02 Case No.: 42562 Standards Log Page No.: 112

Analyst: MSB2

Lab ID	EPA Sample #	Date&Time	Elements circled for S0-S# were used throughout this run unless otherwised noted. Al, As, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn
2052308-BS1	LCS01	~~5/23/12 16:43~~	
1205175-01	~~MF5WC4~~	~~5/23/12 16:48~~	
~~2052308-MS1~~	MF5WC4S	5/23/12 16:52	
BF20403-CAL1	S0	5/24/12 22:10	
BF20403-CAL2	S	5/24/12 22:14	
BF20403-CAL3	S	5/24/12 22:18	
BF20403-CAL4	S	5/24/12 22:22	
BF20403-CAL5	S	5/24/12 22:27	
BF20403-CAL6	S	5/24/12 22:31	
BF20403-CAL7	S	5/24/12 22:35	
BF20403-CAL8	S	5/24/12 22:40	
BF20403-CAL9	S	5/24/12 22:44	NA
BF20403-CALA	S	5/24/12 22:49	NA
BF20403-ICV1	ICV01	5/24/12 22:53	
BF20403-ICB1	ICB01	5/24/12 22:57	
BF20403-IFA1	ICSA01	5/24/12 23:02	
BF20403-IFB1	ICSAB01	5/24/12 23:06	
BF20403-CCV1	CCV01	5/24/12 23:10	
BF20403-CCB1	CCB01	5/24/12 23:14	
BF20403-CCV2	CCV02	5/24/12 23:23	
BF20403-CCB2	CCB02	5/24/12 23:27	
1205175-01RE1	MF5WC4	5/24/12 23:31	
2052308-MS2	MF5WC4S	5/24/12 23:36	
2052308-DUP2	MF5WC4D	5/24/12 23:40	
BF20403-SRD2	MF5WC4L	5/24/12 23:45	
1205175-02RE1	MF5WC5	5/24/12 23:49	
1205175-03RE1	MF5WC6	5/24/12 23:53	
BF20403-CCV3	CCV03	5/24/12 23:58	
BF20403-CCB3	CCB03	5/25/12 0:02	

File Name: M052312A.tee SDG No.: MF5WC4 Standards Prep Date: 5/23/12

Instrument: ICPMS01 Case No.: 42562 Standards Log Page No.: 39

Analyst: BGB

Lab ID	EPA Sample #	Date&Time	Elements circled for S0-S# were used throughout this run unless otherwised noted. As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Tl, V, Zn
BF20506-TUN1	TUNE01	5/23/12 8:47	
BF20506-CAL1	S0	5/23/12 9:00	
BF20506-CAL2	S	5/23/12 9:04	Cd only
BF20506-CAL3	S	5/23/12 9:09	
BF20506-CAL4	S	5/23/12 9:13	
BF20506-CAL5	S	5/23/12 9:17	
BF20506-CAL6	S	5/23/12 9:21	
BF20506-CAL7	S	5/23/12 9:26	
BF20506-CAL8	S	5/23/12 9:30	Ba & Zn only
BF20506-ICV1	ICV01	5/23/12 9:39	
BF20506-ICB1	ICB01	5/23/12 9:43	
BF20506-IFA1	ICSA01	5/23/12 9:48	
BF20506-IFB1	ICSAB01	5/23/12 9:52	
BF20506-CCV1	CCV01	5/23/12 9:57	
BF20506-CCB1	CCB01	5/23/12 10:01	
2052309-BLK1	PBW01	5/23/12 10:20	
2052309-BS1	LCS01	5/23/12 10:24	
1205175-01	MF5WC4	5/23/12 10:28	
2052309-MS1	MF5WC4S	5/23/12 10:33	
2052309-DUP1	MF5WC4D	5/23/12 10:37	
BF20506-SRD1	MF5WC4L	5/23/12 10:42	
1205175-02	MF5WC5	5/23/12 10:46	
1205175-03	MF5WC6	5/23/12 10:50	
BF20506-IBL1	ZZZZZZ	5/23/12 10:55	
BF20506-IBL2	ZZZZZZ	5/23/12 10:59	
BF20506-IBL3	ZZZZZZ	5/23/12 11:05	
BF20506-IBL4	ZZZZZZ	5/23/12 11:09	
BF20506-IBL5	ZZZZZZ	5/23/12 11:13	
BF20506-CCV2	CCV02	5/23/12 11:18	
BF20506-CCB2	CCB02	5/23/12 11:22	

BBB 6/6/12

File Name: H060412C SDG No.: MF5WC4 Standards Prep Date: 6-3-12

Instrument: LM01 Case No.: 42562 Standards Log Page No.: 4

Analyst: BGB

Lab ID	EPA Sample #	Date&Time	Elements circled for S0-S# were used throughout this run unless otherwised noted. Hg
BF20507-CAL1	S0	6/4/12 13:17	
BF20507-CAL2	S0.2	6/4/12 13:21	
BF20507-CAL3	S0.5	6/4/12 13:22	
BF20507-CAL4	S1	6/4/12 13:25	
BF20507-CAL5	S2	6/4/12 13:28	
BF20507-CAL6	S6	6/4/12 13:31	
BF20507-ICV1	ICV01	6/4/12 13:37	
BF20507-ICB1	ICB01	6/4/12 13:39	
BF20507-CCV1	CCV01	6/4/12 13:41	
BF20507-CCB1	CCB01	6/4/12 13:44	
BF20507-CCV2	CCV02	6/4/12 13:50	
BF20507-CCB2	CCB02	6/4/12 13:53	
2052901-BLK1	PBW01	6/4/12 13:55	
1205175-01	MF5WC4	6/4/12 13:57	
2052901-DUP1	MF5WC4D	6/4/12 14:00	
2052901-MS1	MF5WC4S	6/4/12 14:02	
1205175-02	MF5WC5	6/4/12 14:05	
1205175-03	MF5WC6	6/4/12 14:08	
BF20507-CCV3	CCV03	6/4/12 14:10	
BF20507-CCB3	CCB03	6/4/12 14:13	

Trisha Aiken

From: Trisha Aiken <taiken@batco.com>
Sent: Wednesday, May 16, 2012 10:56 AM
To: Jackie Blackmon (jblackmon3@fedcsc.com)
Cc: maxbonner@batco.com
Subject: Region 6 | Case 42562 | Sample Receipt

Jackie;

On May 16, 2012 we received 3 waters via FedEx air bill 8991 9781 6298. Custody seals were present and intact. Cooler temp was determined to be 5°C. Samples were in good condition with no discrepancies.

Thanks;
Tricia Aiken
Bonner Analytical

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 5/15/2012
CarrierName: FedEx
AirbillNo: 899197816298

CHAIN OF CUSTODY RECORD
MSI
Case #: 42562
Cooler #: 1 of 2

No: 6-051512-133745-0002
Lab: Bonner Analytical Testing Company
Lab Contact: Patricia Aiken
Lab Phone: 601-264-2854

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF5WC4	Ground Water/ Gary Hazelwood	Grab	CN(21), CN(21), TM + Hg(21), TM + Hg(21)	6-456855 (NaOH pH>12), 6-456856 (NaOH pH>12), 6-456857 (HNO3 pH<2), 6-456858 (HNO3 pH<2) (4)	GW-01	05/15/2012 11:27	F5WC4	Field Sample
MF5WC5	Ground Water/ Gary Hazelwood	Grab	CN(21), TM + Hg(21)	6-456864 (NaOH pH>12), 6-456866 (HNO3 pH<2) (2)	GW-02	05/15/2012 11:45	F5WC5	Field Duplicate
MF5WC6	Ground Water/ Gary Hazelwood	Grab	TM + Hg(21), CN(21)	6-456867 (HNO3 pH<2), 6-456873 (NaOH pH>12) (2)	GW-03	05/15/2012 10:14	F5WC6	Field Sample

Sample(s) to be used for Lab QC: MF5WC4 - Special Instructions: Analytes for ICP-MS: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, cyanide, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, zinc.

Analytes for ICP-AES: aluminum, calcium, iron, magnesium, potassium, sodium.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CN=CLP CN ISM01.3, TM + Hg=CLP TAL Metals + Hg ICP AES + MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Clay Watt	5/15/12									