HAZARD RANKING SYSTEM (HRS) PACKAGE
WAPPINGER CREEK
DOWNSTREAM OF WAPPINGERS FALLS
WAPPINGER FALLS, NY

EPA ID No.: NYN000201758

VOLUME 13 OF 14

EPA Contract No. EP-S13-08-01
TDD No. 0004/1508-06
Document Control No. W0269.1A.00815

March 2016

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:
Weston Solutions, Inc.
Edison, New Jersey 08837

411963

REFERENCE 62

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC763

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC763	QK13012-001	X		X	
MBC794	QK13012-002	X		X	
MBC795	QK13012-003	X		X	
MBC796	QK13012-004	X		X	
MBC797	QK13012-005	X		X	
MBC798	QK13012-006	X		X	
MBC799	QK13012-007	X		X	
MBC7A0	QK13012-008	X		X	
MBC7A1	QK13012-009	X		X	
MBC7A2	QK13012-010	X		X	
MBC7A3	QK13012-011	X		X	
MBC7A4	QK13012-012	X		X	
MBC7A5	QK13012-014	X		X	
MBC7A6	QK13012-015	X		X	
MBC7A7	QK13012-016	X		X	
MBC7A8	QK13012-017	X		X	
MBC7A9	QK13012-018	X		X	
MBC7B0	QK13012-019	X		X	
MBC7D0	QK13012-020	X		X	
MBC7H9	QK13012-013	X		X	

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

Signature: Robert Name: Robert Zhu

Date: 12/3/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC763	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC763	Last Sample Received in SDG	MBC7H9
First Sample Receipt Date	11/13/2015	Last Sample Receipt Date	11/13/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID		Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC763	Water	ICP AES, Hg	N/A	N/A
2	MBC794	Sediment	ICP AES, Hg	N/A	N/A
3	MBC795	Sediment	ICP AES, Hg	N/A	N/A
4	MBC796	Sediment	ICP AES, Hg	N/A	N/A
5	MBC797	Sediment	ICP AES, Hg	N/A	N/A
6	MBC798	Sediment	ICP AES, Hg	N/A	N/A
7	MBC799	Sediment	ICP AES, Hg	N/A	N/A
8	MBC7A0	Sediment	ICP AES, Hg	N/A	N/A
9	MBC7A1	Sediment	ICP AES, Hg	N/A	N/A
10	MBC7A2	Sediment	ICP AES, Hg	N/A	N/A
11	MBC7A3	Sediment	ICP AES, Hg	N/A	N/A
12	MBC7A4	Sediment	ICP AES, Hg	N/A	N/A
13	MBC7A5	Sediment	ICP AES, Hg	N/A	N/A
14	MBC7A6	Sediment	ICP AES, Hg	N/A	N/A
15	MBC7A7	Sediment	ICP AES, Hg	N/A	N/A
16	MBC7A8	Sediment	ICP AES, Hg	N/A	N/A
17	MBC7A9	Sediment	ICP AES, Hg	N/A	N/A
18	MBC7B0	Sediment	ICP AES, Hg	N/A	N/A
19	MBC7D0	Sediment	ICP AES, Hg	N/A	N/A
20	MBC7H9	Sediment	ICP AES, Hg	N/A	N/A

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/17/15

MBC 763
MBC 775

USEPA CLP COC (LAB COPY)

Date Shipped: 11/12/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2093

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111215-170016-0015

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-RIN04	MBC763	DI Water/ Region 2 SAT	Grab	TAL(7)	1407 (HNO3 to pH<2) (1)	N/A	11/12/2015 08:00	
0269-SED06-0-6	MBC790	Sediment/ Region 2 SAT	Grab	TAL(7)	1218 (4 C) (1)	0269-SED06	11/12/2015 10:00	
0269-SED06-12-24	MBC791	Sediment/ Region 2 SAT	Grab	TAL(7)	1226 (4 C) (1)	0269-SED06	11/12/2015 10:20	
0269-SED06-6-12	MBC792	Sediment/ Region 2 SAT	Grab	TAL(7)	1222 (4 C) (1)	0269-SED06	11/12/2015 10:10	
0269-SED07-0-6	MBC793	Sediment/ Region 2 SAT	Grab	TAL(7)	1230 (4 C) (1)	0269-SED07	11/12/2015 10:45	
0269-SED07-12-24	MBC794	Sediment/ Region 2 SAT	Grab	TAL(7)	1242 (4 C) (1)	0269-SED07	11/12/2015 11:10	
0269-SED07-6-12	MBC795	Sediment/ Region 2 SAT	Grab	TAL(7)	1238 (4 C) (1)	0269-SED07	11/12/2015 10:55	
0269-SED08-0-6	MBC796	Sediment/ Region 2 SAT	Grab	TAL(7)	1246 (4 C) (1)	0269-SED08	11/12/2015 11:30	
0269-SED08-12-24	MBC797	Sediment/ Region 2 SAT	Grab	TAL(7)	1254 (4 C) (1)	0269-SED08	11/12/2015 11:50	
0269-SED08-6-12	MBC798	Sediment/ Region 2 SAT	Grab	TAL(7)	1250 (4 C) (2)	0269-SED08	11/12/2015 11:40	

Sample(s) to be used for Lab QC: 0269-SED08-6-12 Tag 1250	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/12/15 1800	FEDEX	11/12/15 1800	
	COPY ORIGINAL DOCUMENTS INCLUDED IN CSF 45717 MBC775			11/13/15 0916	ok

Signature
11/16/15
Date

T=6.6

MBC769

MBC763

US EPA CLP COC (LAB COPY)

Date Shipped: 11/12/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2093

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111215-171101-0016

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED11-0-6	MBC7A5	Sediment/ Region 2 SAT	Grab	TAL(7)	1282 (4 C) (1)	0269-SED11	11/12/2015 15:00	
0269-SED11-12-24	MBC7A6	Sediment/ Region 2 SAT	Grab	TAL(7)	1290 (4 C) (1)	0269-SED11	11/12/2015 15:20	
0269-SED11-6-12	MBC7A7	Sediment/ Region 2 SAT	Grab	TAL(7)	1286 (4 C) (1)	0269-SED11	11/12/2015 15:10	
0269-SED12-0-6	MBC7A8	Sediment/ Region 2 SAT	Grab	TAL(7)	1294 (4 C) (1)	0269-SED12	11/12/2015 16:00	
0269-SED12-12-24	MBC7A9	Sediment/ Region 2 SAT	Grab	TAL(7)	1302 (4 C) (1)	0269-SED12	11/12/2015 16:20	
0269-SED12-6-12	MBC7B0	Sediment/ Region 2 SAT	Grab	TAL(7)	1298 (4 C) (1)	0269-SED12	11/12/2015 16:10	
0269-SED19-0-6	MBC7C9	Sediment/ Region 2 SAT	Grab	TAL(7)	1378 (4 C) (2)	0269-SED19	11/12/2015 15:30	
0269-SED19-12-24	MBC7D0	Sediment/ Region 2 SAT	Grab	TAL(7)	1386 (4 C) (1)	0269-SED19	11/12/2015 15:50	
0269-SED19-6-12	MBC7D1	Sediment/ Region 2 SAT	Grab	TAL(7)	1382 (4 C) (1)	0269-SED19	11/12/2015 15:40	

Sample(s) to be used for Lab QC: 0269-SED19-0-6 Tag 1378 - Special Instructions: MS/MSD: 0269-SED19-0-6 CLP No.: MBC7C9	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green/WESTON	11/12/15 1800	FEDEX	11/12/15 1800	
			[illegible]	11/13/15 0916	ok

T=3.7

MBC763

USEPA CLP COC (LAB COPY)

Date Shipped: 11/12/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2093

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111215-170016-0015

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED09-0-6	MBC799	Sediment/ Region 2 SAT	Grab	TAL(7)	1258 (4 C) (1)	0269-SED09	11/12/2015 12:10	
0269-SED09-12-24	MBC7A0	Sediment/ Region 2 SAT	Grab	TAL(7)	1266 (4 C) (1)	0269-SED09	11/12/2015 12:30	
0269-SED09-6-12	MBC7A1	Sediment/ Region 2 SAT	Grab	TAL(7)	1262 (4 C) (1)	0269-SED09	11/12/2015 12:20	
0269-SED10-0-6	MBC7A2	Sediment/ Region 2 SAT	Grab	TAL(7)	1270 (4 C) (1)	0269-SED10	11/12/2015 14:15	
0269-SED10-12-24	MBC7A3	Sediment/ Region 2 SAT	Grab	TAL(7)	1278 (4 C) (1)	0269-SED10	11/12/2015 14:35	
0269-SED10-6-12	MBC7A4	Sediment/ Region 2 SAT	Grab	TAL(7)	1274 (4 C) (1)	0269-SED10	11/12/2015 14:25	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green/WESTON	11/12/15 1800	FEDEX	11/12/15 1800	
				11/13/15 0916	ok

T=6.6

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC775/MBC763	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	7817058 24167
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	6.6
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC763	1.0	NA	QK13012-001	ok
2	MBC790			QK13011-017	
3	MBC791			-018	
4	MBC792			-019	
5	MBC793			-020	
6	MBC794			QK13012-002	
7	MBC795			-003	
8	MBC796			-004	
9	MBC797			-005	
10	MBC798			-006	
11	MBC799		mcm 11/13/15	-007	
12	MBC7A0			-008	
13	MBC7A1			-009	
14	MBC7A2			-010	
15	MBC7A3			-011	
16	MBC7A4			-012	
17	MBC7A9			-013	not listed on COC
18					
19					
20			mcm 11/13/15		
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.	45717 MBC775
Date	Logbook Page No.	

COPY
ORIGINAL DOCUMENTS INCLUDED IN C57

Signature
11/16/15

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Meriela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC763, MBC769	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8044677522093
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	3.7
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7A5			QK13012-014	OK
2	MBC7A6			-015	
3	MBC7A7			-016	
4	MBC7A8			-017	
5	MBC7A9			-018	
6	MBC7B0		mcm 11/13/15	-019	
7	MBC769 ~~MBC7B9~~		QK13013-001	~~QK13012-020~~ mcm 11/13/15	
8	MBC00			QK13012-020	
9	MBC01			QK13013-002	
10					
11					
12					
13					
14					
15			mcm 11/13/15		
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	RB	Logbook No.	MM
Date	11/16/15	Logbook Page No.	

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

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC763

MA NO. NA

SOW NO. ISM02.2

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	3		
2.	Traffic Report/Chain of Custody Record(s)	4	7		
3.	Sample Log-In Sheet (DC-1)	8	9		
4.	CSF Inventory Sheet (DC-2)	10	13		
5.	SDG Narrative	14	16		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	17	39	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	40	43	X	
8.	Blanks (Form 3-IN)	44	45	X	
9.	ICP Interference Check Sample (Form 4-IN)	46	46	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	47	48	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	49	49	X	
12.	Duplicates (Form 6-IN)	50	51	X	
13.	Laboratory Control Sample (Form 7-IN)	52	53	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	54	55	X	
15.	Method Detection Limit (Form 9-IN)	56	57	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	58	58	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	59	62	X	
18.	Analysis Log (Form 12-IN)	63	66	X	
19.	Initial Calibration (Form 15-IN)	67	70	X	

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
20.	Initial Calibration Summary (Form 16-IN)	71	71	X	
21.	ICP-AES Raw Data	72	463	X	
22.	ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	464	487	X	
ICP-MS					
23.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25.	Blanks (Form 3-IN)	N/A	N/A	X	
26.	ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29.	Duplicates (Form 6-IN)	N/A	N/A	X	
30.	Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33.	ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34.	Analysis Log (Form 12-IN)	N/A	N/A	X	
35.	ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36.	ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
38.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39.	ICP-MS Raw Data	N/A	N/A	X	
40.	ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury		N/A	N/A	X	
41.	Inorganic Analysis Data Sheet (Form 1-IN)	488	509	X	
42.	Initial and Continuing Calibration Verification (Form 2-IN)	510	522	X	
43.	Blanks (Form 3-IN)	523	531	X	
44.	Matrix Spike Sample Recovery (Form 5A-IN)	532	533	X	
45.	Duplicates (Form 6-IN)	534	535	X	
46.	Method Detection Limit (Form 9-IN)	536	537	X	
47.	Analysis Log (Form 12-IN)	538	545	X	
48.	Initial Calibration (Form 15-IN)	546	551	X	

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

49.	Initial Calibration Summary (Form 16-IN)	552	554	X	
50.	Mercury Raw Data	555	568	X	
51.	Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	569	583	X	
Cyanide		N/A	N/A	X	
52.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54.	Blanks (Form 3-IN)	N/A	N/A	X	
55.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57.	Duplicates (Form 6-IN)	N/A	N/A	X	
58.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59.	Analysis Log (Form 12-IN)	N/A	N/A	X	
60.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
61.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62.	Cyanide Raw Data	N/A	N/A	X	
63.	Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional		584	594	X	
64.	Percent Solids Determination Log	585	586	X	
65.	EPA Shipping/Receiving Documents	N/A	N/A		
	Airbill (No. of Shipments 1)	587	589	X	
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	590	591	X	
66.	Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	592	594	X	
68.	Other Records (describe or list)				
	Communication Logs	N/A	N/A		

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

69. Comments:

Completed by:
(CLP Lab)

(Signature)	(Print Name & Title)	(Date)
	Robert Zhu, Technical Director	12/03/2015

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 12/02/2015
Case 45717
SDG MBC763
SOW ISM02.2
Contract Number: EPW14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The nineteen (19) soil and one (1) water samples in this SDG were received in sealed shipping containers on November 13, 2015 with temperatures of 3.7˚C and 6.6˚C.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes

Sodium	Yes
Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
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ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
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ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC763

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC763	QK13012-001	X			
MBC763D	QK13012-001DU	X			
MBC763S	QK13012-001MS	X			
MBC794	QK13012-002	X			
MBC795	QK13012-003	X			
MBC796	QK13012-004	X			
MBC797	QK13012-005	X			
MBC798	QK13012-006	X			
MBC798D	QK13012-006DU	X			
MBC798S	QK13012-006MS	X			
MBC799	QK13012-007	X			
MBC7A0	QK13012-008	X			
MBC7A1	QK13012-009	X			
MBC7A2	QK13012-010	X			
MBC7A3	QK13012-011	X			
MBC7A4	QK13012-012	X			
MBC7A5	QK13012-014	X			
MBC7A6	QK13012-015	X			
MBC7A7	QK13012-016	X			
MBC7A8	QK13012-017	X			
MBC7A9	QK13012-018	X			
MBC7B0	QK13012-019	X			
MBC7D0	QK13012-020	X			
MBC7H9	QK13012-013	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert Zhu Name: Robert Zhu

Date: 12/3/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC763

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Lab Sample ID: QK13012-001

% Solids: Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	16:28:46
7440-36-0	Antimony	60.0		U	11/21/2015	16:28:46
7440-38-2	Arsenic	10.0		U	11/21/2015	16:28:46
7440-39-3	Barium	200		U	11/21/2015	16:28:46
7440-41-7	Beryllium	5.0		U	11/21/2015	16:28:46
7440-43-9	Cadmium	5.0		U	11/21/2015	16:28:46
7440-70-2	Calcium	5000		U	11/21/2015	16:28:46
7440-47-3	Chromium	10.0		U	11/21/2015	16:28:46
7440-48-4	Cobalt	50.0		U	11/21/2015	16:28:46
7440-50-8	Copper	25.0		U	11/21/2015	16:28:46
7439-89-6	Iron	58.3		J	11/21/2015	16:28:46
7439-92-1	Lead	10.0		U	11/21/2015	16:28:46
7439-95-4	Magnesium	5000		U	11/21/2015	16:28:46
7439-96-5	Manganese	1.6		J	11/21/2015	16:28:46
7440-02-0	Nickel	1.2		J	11/21/2015	16:28:46
7440-09-7	Potassium	5000		U	11/21/2015	16:28:46
7782-49-2	Selenium	35.0		U	11/21/2015	16:28:46
7440-22-4	Silver	10.0		U	11/21/2015	16:28:46
7440-23-5	Sodium	5000		U	11/21/2015	16:28:46
7440-28-0	Thallium	25.0		U	11/21/2015	16:28:46
7440-62-2	Vanadium	50.0		U	11/21/2015	16:28:46
7440-66-6	Zinc	60.0		U	11/21/2015	16:28:46

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC794

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-002

% Solids: 68.5 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11500		*	11/21/2015	17:12:19
7440-36-0	Antimony	16.2		U*D	11/21/2015	21:29:49
7440-38-2	Arsenic	2.6		*	11/21/2015	17:12:19
7440-39-3	Barium	27.4		*	11/21/2015	17:12:19
7440-41-7	Beryllium	0.40		J	11/21/2015	17:12:19
7440-43-9	Cadmium	1.3		U*D	11/21/2015	21:29:49
7440-70-2	Calcium	1400		*	11/21/2015	17:12:19
7440-47-3	Chromium	14.7		*	11/21/2015	17:12:19
7440-48-4	Cobalt	6.4		J	11/21/2015	17:12:19
7440-50-8	Copper	15.4		*D	11/21/2015	21:29:49
7439-89-6	Iron	24300		*D	11/21/2015	21:29:49
7439-92-1	Lead	8.7		*D	11/21/2015	21:29:49
7439-95-4	Magnesium	6140		*	11/21/2015	17:12:19
7439-96-5	Manganese	193		*	11/21/2015	17:12:19
7440-02-0	Nickel	19.8		D	11/21/2015	21:29:49
7440-09-7	Potassium	790			11/21/2015	17:12:19
7782-49-2	Selenium	4.7		U	11/21/2015	17:12:19
7440-22-4	Silver	1.3		U	11/21/2015	17:12:19
7440-23-5	Sodium	58.7		J	11/21/2015	17:12:19
7440-28-0	Thallium	3.4		U	11/21/2015	17:12:19
7440-62-2	Vanadium	12.5			11/21/2015	17:12:19
7440-66-6	Zinc	55.9		*	11/21/2015	17:12:19

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC795

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-003

% Solids: 81.5 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10100	▪	*	11/21/2015	17:17:03
7440-36-0	Antimony	10.8	▪	U*D	11/21/2015	21:34:34
7440-38-2	Arsenic	2.7	▪	*	11/21/2015	17:17:03
7440-39-3	Barium	26.5	▪	*	11/21/2015	17:17:03
7440-41-7	Beryllium	0.30	▪	J	11/21/2015	17:17:03
7440-43-9	Cadmium	0.096	▪	J*D	11/21/2015	21:34:34
7440-70-2	Calcium	914	▪	*	11/21/2015	17:17:03
7440-47-3	Chromium	14.8	▪	*	11/21/2015	17:17:03
7440-48-4	Cobalt	7.1	▪		11/21/2015	17:17:03
7440-50-8	Copper	12.5	▪	*D	11/21/2015	21:34:34
7439-89-6	Iron	21100	▪	*D	11/21/2015	21:34:34
7439-92-1	Lead	15.4	▪	*D	11/21/2015	21:34:34
7439-95-4	Magnesium	5280	▪	*	11/21/2015	17:17:03
7439-96-5	Manganese	233	▪	*	11/21/2015	17:17:03
7440-02-0	Nickel	16.4	▪	D	11/21/2015	21:34:34
7440-09-7	Potassium	635	▪		11/21/2015	17:17:03
7782-49-2	Selenium	3.1	▪	U	11/21/2015	17:17:03
7440-22-4	Silver	0.90	▪	U	11/21/2015	17:17:03
7440-23-5	Sodium	45.3	▪	J	11/21/2015	17:17:03
7440-28-0	Thallium	2.2	▪	U	11/21/2015	17:17:03
7440-62-2	Vanadium	10.7	▪		11/21/2015	17:17:03
7440-66-6	Zinc	61.6	▪	*	11/21/2015	17:17:03

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC796

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-004

% Solids: 32.0 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12700	*	11/21/2015	17:21:56
7440-36-0	Antimony	26.9	*	11/21/2015	17:21:56
7440-38-2	Arsenic	85.8	*	11/21/2015	17:21:56
7440-39-3	Barium	66.2	*	11/21/2015	17:21:56
7440-41-7	Beryllium	0.56	J	11/21/2015	17:21:56
7440-43-9	Cadmium	17.6	*	11/21/2015	17:21:56
7440-70-2	Calcium	3360	*	11/21/2015	17:21:56
7440-47-3	Chromium	1590	*	11/21/2015	17:21:56
7440-48-4	Cobalt	9.4	J	11/21/2015	17:21:56
7440-50-8	Copper	244	*	11/21/2015	17:21:56
7439-89-6	Iron	21600	*	11/21/2015	17:21:56
7439-92-1	Lead	323	*	11/21/2015	17:21:56
7439-95-4	Magnesium	4990	*	11/21/2015	17:21:56
7439-96-5	Manganese	289	*	11/21/2015	17:21:56
7440-02-0	Nickel	18.6		11/21/2015	17:21:56
7440-09-7	Potassium	1160	J	11/21/2015	17:21:56
7782-49-2	Selenium	10.1	U	11/21/2015	17:21:56
7440-22-4	Silver	2.9	U	11/21/2015	17:21:56
7440-23-5	Sodium	153	J	11/21/2015	17:21:56
7440-28-0	Thallium	7.2	U	11/21/2015	17:21:56
7440-62-2	Vanadium	15.3		11/21/2015	17:21:56
7440-66-6	Zinc	1540	*	11/21/2015	17:21:56

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC797

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-005

% Solids: 37.7 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20400		*	11/21/2015	17:26:40
7440-36-0	Antimony	14.1		U*	11/21/2015	17:26:40
7440-38-2	Arsenic	5.4		*	11/21/2015	17:26:40
7440-39-3	Barium	111		*	11/21/2015	17:26:40
7440-41-7	Beryllium	0.80		J	11/21/2015	17:26:40
7440-43-9	Cadmium	0.17		J*	11/21/2015	17:26:40
7440-70-2	Calcium	4870		*	11/21/2015	17:26:40
7440-47-3	Chromium	80.6		*	11/21/2015	17:26:40
7440-48-4	Cobalt	10.3		J	11/21/2015	17:26:40
7440-50-8	Copper	31.6		*	11/21/2015	17:26:40
7439-89-6	Iron	24100		*	11/21/2015	17:26:40
7439-92-1	Lead	83.5		*	11/21/2015	17:26:40
7439-95-4	Magnesium	6360		*	11/21/2015	17:26:40
7439-96-5	Manganese	372		*	11/21/2015	17:26:40
7440-02-0	Nickel	23.5			11/21/2015	17:26:40
7440-09-7	Potassium	1790			11/21/2015	17:26:40
7782-49-2	Selenium	8.2		U	11/21/2015	17:26:40
7440-22-4	Silver	2.4		U	11/21/2015	17:26:40
7440-23-5	Sodium	180		J	11/21/2015	17:26:40
7440-28-0	Thallium	5.9		U	11/21/2015	17:26:40
7440-62-2	Vanadium	22.0			11/21/2015	17:26:40
7440-66-6	Zinc	86.2		*	11/21/2015	17:26:40

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC798

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-006

% Solids: 39.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11800		*	11/21/2015	17:31:24
7440-36-0	Antimony	14.8		U*	11/21/2015	17:31:24
7440-38-2	Arsenic	19.0		*	11/21/2015	17:31:24
7440-39-3	Barium	63.0		*	11/21/2015	17:31:24
7440-41-7	Beryllium	0.46		J	11/21/2015	17:31:24
7440-43-9	Cadmium	1.8		*	11/21/2015	17:31:24
7440-70-2	Calcium	2560		*	11/21/2015	17:31:24
7440-47-3	Chromium	612		*	11/21/2015	17:31:24
7440-48-4	Cobalt	6.6		J	11/21/2015	17:31:24
7440-50-8	Copper	59.7		*	11/21/2015	17:31:24
7439-89-6	Iron	14600		*	11/21/2015	17:31:24
7439-92-1	Lead	134		*	11/21/2015	17:31:24
7439-95-4	Magnesium	3720		*	11/21/2015	17:31:24
7439-96-5	Manganese	223		*	11/21/2015	17:31:24
7440-02-0	Nickel	14.4			11/21/2015	17:31:24
7440-09-7	Potassium	945		J	11/21/2015	17:31:24
7782-49-2	Selenium	8.6		U	11/21/2015	17:31:24
7440-22-4	Silver	2.5		U	11/21/2015	17:31:24
7440-23-5	Sodium	109		J	11/21/2015	17:31:24
7440-28-0	Thallium	6.1		U	11/21/2015	17:31:24
7440-62-2	Vanadium	13.8			11/21/2015	17:31:24
7440-66-6	Zinc	247		*	11/21/2015	17:31:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC799

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-007

% Solids: 33.7 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	17000		*	11/21/2015	17:55:11
7440-36-0	Antimony	1.3		J*	11/21/2015	17:55:11
7440-38-2	Arsenic	6.3		*	11/21/2015	17:55:11
7440-39-3	Barium	82.8		*	11/21/2015	17:55:11
7440-41-7	Beryllium	0.69		J	11/21/2015	17:55:11
7440-43-9	Cadmium	3.6		*	11/21/2015	17:55:11
7440-70-2	Calcium	5410		*	11/21/2015	17:55:11
7440-47-3	Chromium	209		*	11/21/2015	17:55:11
7440-48-4	Cobalt	11.9			11/21/2015	17:55:11
7440-50-8	Copper	150		*	11/21/2015	17:55:11
7439-89-6	Iron	24000		*	11/21/2015	17:55:11
7439-92-1	Lead	277		*	11/21/2015	17:55:11
7439-95-4	Magnesium	6340		*	11/21/2015	17:55:11
7439-96-5	Manganese	316		*	11/21/2015	17:55:11
7440-02-0	Nickel	29.4			11/21/2015	17:55:11
7440-09-7	Potassium	1900			11/21/2015	17:55:11
7782-49-2	Selenium	1.5		J	11/21/2015	17:55:11
7440-22-4	Silver	2.0		U	11/21/2015	17:55:11
7440-23-5	Sodium	214		J	11/21/2015	17:55:11
7440-28-0	Thallium	5.1		U	11/21/2015	17:55:11
7440-62-2	Vanadium	22.8			11/21/2015	17:55:11
7440-66-6	Zinc	433		*	11/21/2015	17:55:11

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-008

% Solids: 36.5 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11000	*	11/21/2015	17:59:57
7440-36-0	Antimony	12.9	U*	11/21/2015	17:59:57
7440-38-2	Arsenic	14.5	*	11/21/2015	17:59:57
7440-39-3	Barium	58.6	*	11/21/2015	17:59:57
7440-41-7	Beryllium	0.42	J	11/21/2015	17:59:57
7440-43-9	Cadmium	0.21	J*	11/21/2015	17:59:57
7440-70-2	Calcium	2610	*	11/21/2015	17:59:57
7440-47-3	Chromium	629	*	11/21/2015	17:59:57
7440-48-4	Cobalt	6.5	J	11/21/2015	17:59:57
7440-50-8	Copper	67.1	*	11/21/2015	17:59:57
7439-89-6	Iron	14000	*	11/21/2015	17:59:57
7439-92-1	Lead	140	*	11/21/2015	17:59:57
7439-95-4	Magnesium	3570	*	11/21/2015	17:59:57
7439-96-5	Manganese	194	*	11/21/2015	17:59:57
7440-02-0	Nickel	13.7		11/21/2015	17:59:57
7440-09-7	Potassium	917	J	11/21/2015	17:59:57
7782-49-2	Selenium	7.5	U	11/21/2015	17:59:57
7440-22-4	Silver	2.1	U	11/21/2015	17:59:57
7440-23-5	Sodium	132	J	11/21/2015	17:59:57
7440-28-0	Thallium	5.4	U	11/21/2015	17:59:57
7440-62-2	Vanadium	12.0		11/21/2015	17:59:57
7440-66-6	Zinc	90.0	*	11/21/2015	17:59:57

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-009

% Solids: 35.6 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12100		*	11/21/2015	18:04:42
7440-36-0	Antimony	15.2		*	11/21/2015	18:04:42
7440-38-2	Arsenic	48.4		*	11/21/2015	18:04:42
7440-39-3	Barium	62.0		*	11/21/2015	18:04:42
7440-41-7	Beryllium	0.48		J	11/21/2015	18:04:42
7440-43-9	Cadmium	10.6		*	11/21/2015	18:04:42
7440-70-2	Calcium	2880		*	11/21/2015	18:04:42
7440-47-3	Chromium	1680		*	11/21/2015	18:04:42
7440-48-4	Cobalt	7.5		J	11/21/2015	18:04:42
7440-50-8	Copper	196		*	11/21/2015	18:04:42
7439-89-6	Iron	17000		*	11/21/2015	18:04:42
7439-92-1	Lead	299		*	11/21/2015	18:04:42
7439-95-4	Magnesium	3840		*	11/21/2015	18:04:42
7439-96-5	Manganese	203		*	11/21/2015	18:04:42
7440-02-0	Nickel	15.7			11/21/2015	18:04:42
7440-09-7	Potassium	1140			11/21/2015	18:04:42
7782-49-2	Selenium	1.8		J	11/21/2015	18:04:42
7440-22-4	Silver	2.1		U	11/21/2015	18:04:42
7440-23-5	Sodium	152		J	11/21/2015	18:04:42
7440-28-0	Thallium	5.2		U	11/21/2015	18:04:42
7440-62-2	Vanadium	14.3			11/21/2015	18:04:42
7440-66-6	Zinc	938		*	11/21/2015	18:04:42

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-010

% Solids: 22.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	16300		*	11/21/2015	18:09:25
7440-36-0	Antimony	24.6		U*	11/21/2015	18:09:25
7440-38-2	Arsenic	4.9		*	11/21/2015	18:09:25
7440-39-3	Barium	96.2		*	11/21/2015	18:09:25
7440-41-7	Beryllium	0.63		J	11/21/2015	18:09:25
7440-43-9	Cadmium	0.80		J*	11/21/2015	18:09:25
7440-70-2	Calcium	10300		*	11/21/2015	18:09:25
7440-47-3	Chromium	26.9		*	11/21/2015	18:09:25
7440-48-4	Cobalt	9.8		J	11/21/2015	18:09:25
7440-50-8	Copper	51.1		*	11/21/2015	18:09:25
7439-89-6	Iron	24500		*	11/21/2015	18:09:25
7439-92-1	Lead	112		*	11/21/2015	18:09:25
7439-95-4	Magnesium	8440		*	11/21/2015	18:09:25
7439-96-5	Manganese	623		*	11/21/2015	18:09:25
7440-02-0	Nickel	24.1			11/21/2015	18:09:25
7440-09-7	Potassium	1930		J	11/21/2015	18:09:25
7782-49-2	Selenium	14.3		U	11/21/2015	18:09:25
7440-22-4	Silver	4.1		U	11/21/2015	18:09:25
7440-23-5	Sodium	390		J	11/21/2015	18:09:25
7440-28-0	Thallium	10.2		U	11/21/2015	18:09:25
7440-62-2	Vanadium	24.8			11/21/2015	18:09:25
7440-66-6	Zinc	201		*	11/21/2015	18:09:25

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-011

% Solids: 44.3 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14800	▪	*	11/21/2015	18:14:11
7440-36-0	Antimony	1.2	▪	J*	11/21/2015	18:14:11
7440-38-2	Arsenic	5.5	▪	*	11/21/2015	18:14:11
7440-39-3	Barium	104	▪	*	11/21/2015	18:14:11
7440-41-7	Beryllium	0.59	▪	J	11/21/2015	18:14:11
7440-43-9	Cadmium	2.0	▪	*	11/21/2015	18:14:11
7440-70-2	Calcium	7510	▪	*	11/21/2015	18:14:11
7440-47-3	Chromium	58.6	▪	*	11/21/2015	18:14:11
7440-48-4	Cobalt	10.0	▪		11/21/2015	18:14:11
7440-50-8	Copper	92.8	▪	*	11/21/2015	18:14:11
7439-89-6	Iron	24500	▪	*	11/21/2015	18:14:11
7439-92-1	Lead	178	▪	*	11/21/2015	18:14:11
7439-95-4	Magnesium	7040	▪	*	11/21/2015	18:14:11
7439-96-5	Manganese	441	▪	*	11/21/2015	18:14:11
7440-02-0	Nickel	28.2	▪		11/21/2015	18:14:11
7440-09-7	Potassium	1650	▪		11/21/2015	18:14:11
7782-49-2	Selenium	1.4	▪	J	11/21/2015	18:14:11
7440-22-4	Silver	1.3	▪	J	11/21/2015	18:14:11
7440-23-5	Sodium	179	▪	J	11/21/2015	18:14:11
7440-28-0	Thallium	4.3	▪	U	11/21/2015	18:14:11
7440-62-2	Vanadium	24.5	▪		11/21/2015	18:14:11
7440-66-6	Zinc	327	▪	*	11/21/2015	18:14:11

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-012

% Solids: 32.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15300	▪	*	11/21/2015	18:19:04
7440-36-0	Antimony	1.5	▪	J*	11/21/2015	18:19:04
7440-38-2	Arsenic	5.5	▪	*	11/21/2015	18:19:04
7440-39-3	Barium	98.6	▪	*	11/21/2015	18:19:04
7440-41-7	Beryllium	0.61	▪	J	11/21/2015	18:19:04
7440-43-9	Cadmium	1.8	▪	*	11/21/2015	18:19:04
7440-70-2	Calcium	8520	▪	*	11/21/2015	18:19:04
7440-47-3	Chromium	55.6	▪	*	11/21/2015	18:19:04
7440-48-4	Cobalt	9.7	▪	J	11/21/2015	18:19:04
7440-50-8	Copper	76.7	▪	*	11/21/2015	18:19:04
7439-89-6	Iron	24900	▪	*	11/21/2015	18:19:04
7439-92-1	Lead	118	▪	*	11/21/2015	18:19:04
7439-95-4	Magnesium	7620	▪	*	11/21/2015	18:19:04
7439-96-5	Manganese	594	▪	*	11/21/2015	18:19:04
7440-02-0	Nickel	33.8	▪		11/21/2015	18:19:04
7440-09-7	Potassium	1730	▪		11/21/2015	18:19:04
7782-49-2	Selenium	2.0	▪	J	11/21/2015	18:19:04
7440-22-4	Silver	1.2	▪	J	11/21/2015	18:19:04
7440-23-5	Sodium	246	▪	J	11/21/2015	18:19:04
7440-28-0	Thallium	7.6	▪	U	11/21/2015	18:19:04
7440-62-2	Vanadium	27.6	▪		11/21/2015	18:19:04
7440-66-6	Zinc	319	▪	*	11/21/2015	18:19:04

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-014

% Solids: 76.7 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10900		*	11/21/2015	18:28:50
7440-36-0	Antimony	12.8		U*D	11/21/2015	21:44:05
7440-38-2	Arsenic	4.4		*	11/21/2015	18:28:50
7440-39-3	Barium	31.8		*	11/21/2015	18:28:50
7440-41-7	Beryllium	0.40		J	11/21/2015	18:28:50
7440-43-9	Cadmium	0.32		J*D	11/21/2015	21:44:05
7440-70-2	Calcium	3480		*	11/21/2015	18:28:50
7440-47-3	Chromium	25.2		*	11/21/2015	18:28:50
7440-48-4	Cobalt	8.3			11/21/2015	18:28:50
7440-50-8	Copper	21.3		*D	11/21/2015	21:44:05
7439-89-6	Iron	23500		*D	11/21/2015	21:44:05
7439-92-1	Lead	26.5		*D	11/21/2015	21:44:05
7439-95-4	Magnesium	6320		*	11/21/2015	18:28:50
7439-96-5	Manganese	242		*	11/21/2015	18:28:50
7440-02-0	Nickel	19.2		D	11/21/2015	21:44:05
7440-09-7	Potassium	1060			11/21/2015	18:28:50
7782-49-2	Selenium	3.7		U	11/21/2015	18:28:50
7440-22-4	Silver	1.1		U	11/21/2015	18:28:50
7440-23-5	Sodium	87.8		J	11/21/2015	18:28:50
7440-28-0	Thallium	2.7		U	11/21/2015	18:28:50
7440-62-2	Vanadium	14.4			11/21/2015	18:28:50
7440-66-6	Zinc	115		*	11/21/2015	18:28:50

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-015

% Solids: 86.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12300		*	11/21/2015	18:33:42
7440-36-0	Antimony	26.9		U*D	11/21/2015	21:48:51
7440-38-2	Arsenic	1.7		*	11/21/2015	18:33:42
7440-39-3	Barium	24.5		*	11/21/2015	18:33:42
7440-41-7	Beryllium	0.41		J	11/21/2015	18:33:42
7440-43-9	Cadmium	0.24		J*D	11/21/2015	21:48:51
7440-70-2	Calcium	1280		*	11/21/2015	18:33:42
7440-47-3	Chromium	18.9		*	11/21/2015	18:33:42
7440-48-4	Cobalt	8.4			11/21/2015	18:33:42
7440-50-8	Copper	15.9		*D	11/21/2015	21:48:51
7439-89-6	Iron	26800		*D	11/21/2015	21:48:51
7439-92-1	Lead	13.3		*D	11/21/2015	21:48:51
7439-95-4	Magnesium	6310		*	11/21/2015	18:33:42
7439-96-5	Manganese	216		*	11/21/2015	18:33:42
7440-02-0	Nickel	22.4		D	11/21/2015	21:48:51
7440-09-7	Potassium	882			11/21/2015	18:33:42
7782-49-2	Selenium	3.1		U	11/21/2015	18:33:42
7440-22-4	Silver	0.90		U	11/21/2015	18:33:42
7440-23-5	Sodium	39.7		J	11/21/2015	18:33:42
7440-28-0	Thallium	2.2		U	11/21/2015	18:33:42
7440-62-2	Vanadium	12.4			11/21/2015	18:33:42
7440-66-6	Zinc	89.6		*	11/21/2015	18:33:42

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-016

% Solids: 89.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11400	*	11/21/2015	18:48:37
7440-36-0	Antimony	23.7	U*D	11/21/2015	21:53:37
7440-38-2	Arsenic	1.9	*	11/21/2015	18:48:37
7440-39-3	Barium	18.6	*	11/21/2015	18:48:37
7440-41-7	Beryllium	0.42		11/21/2015	18:48:37
7440-43-9	Cadmium	2.0	U*D	11/21/2015	21:53:37
7440-70-2	Calcium	1370	*	11/21/2015	18:48:37
7440-47-3	Chromium	15.7	*	11/21/2015	18:48:37
7440-48-4	Cobalt	7.1		11/21/2015	18:48:37
7440-50-8	Copper	26.2	*D	11/21/2015	21:53:37
7439-89-6	Iron	28400	*D	11/21/2015	21:53:37
7439-92-1	Lead	13.4	*D	11/21/2015	21:53:37
7439-95-4	Magnesium	6260	*	11/21/2015	18:48:37
7439-96-5	Manganese	204	*	11/21/2015	18:48:37
7440-02-0	Nickel	21.5	D	11/21/2015	21:53:37
7440-09-7	Potassium	648		11/21/2015	18:48:37
7782-49-2	Selenium	2.8	U	11/21/2015	18:48:37
7440-22-4	Silver	0.79	U	11/21/2015	18:48:37
7440-23-5	Sodium	35.2	J	11/21/2015	18:48:37
7440-28-0	Thallium	0.40	J	11/21/2015	18:48:37
7440-62-2	Vanadium	12.7		11/21/2015	18:48:37
7440-66-6	Zinc	96.6	*	11/21/2015	18:48:37

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-017

% Solids: 67.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11400		*	11/21/2015	18:53:29
7440-36-0	Antimony	33.5		U*D	11/21/2015	21:58:22
7440-38-2	Arsenic	6.3		*	11/21/2015	18:53:29
7440-39-3	Barium	99.5		*	11/21/2015	18:53:29
7440-41-7	Beryllium	0.56			11/21/2015	18:53:29
7440-43-9	Cadmium	0.26		J*D	11/21/2015	21:58:22
7440-70-2	Calcium	53000		*D	11/21/2015	21:58:22
7440-47-3	Chromium	18.9		*	11/21/2015	18:53:29
7440-48-4	Cobalt	7.6			11/21/2015	18:53:29
7440-50-8	Copper	47.5		*D	11/21/2015	21:58:22
7439-89-6	Iron	36000		*D	11/21/2015	21:58:22
7439-92-1	Lead	125		*D	11/21/2015	21:58:22
7439-95-4	Magnesium	29600		*	11/21/2015	18:53:29
7439-96-5	Manganese	523		*	11/21/2015	18:53:29
7440-02-0	Nickel	24.7		D	11/21/2015	21:58:22
7440-09-7	Potassium	1190			11/21/2015	18:53:29
7782-49-2	Selenium	0.73		J	11/21/2015	18:53:29
7440-22-4	Silver	1.1		U	11/21/2015	18:53:29
7440-23-5	Sodium	117		J	11/21/2015	18:53:29
7440-28-0	Thallium	0.73		J	11/21/2015	18:53:29
7440-62-2	Vanadium	17.6			11/21/2015	18:53:29
7440-66-6	Zinc	113		*	11/21/2015	18:53:29

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-018

% Solids: 60.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	16900		*	11/21/2015	18:58:28
7440-36-0	Antimony	36.3		U*D	11/21/2015	22:03:08
7440-38-2	Arsenic	6.3		*	11/21/2015	18:58:28
7440-39-3	Barium	70.6		*	11/21/2015	18:58:28
7440-41-7	Beryllium	0.71			11/21/2015	18:58:28
7440-43-9	Cadmium	0.38		J*D	11/21/2015	22:03:08
7440-70-2	Calcium	22900		*	11/21/2015	18:58:28
7440-47-3	Chromium	25.5		*	11/21/2015	18:58:28
7440-48-4	Cobalt	11.5			11/21/2015	18:58:28
7440-50-8	Copper	46.3		*D	11/21/2015	22:03:08
7439-89-6	Iron	39600		*D	11/21/2015	22:03:08
7439-92-1	Lead	100		*D	11/21/2015	22:03:08
7439-95-4	Magnesium	18500		*	11/21/2015	18:58:28
7439-96-5	Manganese	638		*	11/21/2015	18:58:28
7440-02-0	Nickel	31.6		D	11/21/2015	22:03:08
7440-09-7	Potassium	1310			11/21/2015	18:58:28
7782-49-2	Selenium	1.1		J	11/21/2015	18:58:28
7440-22-4	Silver	1.2		U	11/21/2015	18:58:28
7440-23-5	Sodium	250		J	11/21/2015	18:58:28
7440-28-0	Thallium	0.91		J	11/21/2015	18:58:28
7440-62-2	Vanadium	23.3			11/21/2015	18:58:28
7440-66-6	Zinc	162		*	11/21/2015	18:58:28

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-019

% Solids: 62.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12700		*	11/21/2015	19:03:24
7440-36-0	Antimony	18.5		U*D	11/21/2015	22:07:55
7440-38-2	Arsenic	6.0		*	11/21/2015	19:03:24
7440-39-3	Barium	52.1		*	11/21/2015	19:03:24
7440-41-7	Beryllium	0.58		J	11/21/2015	19:03:24
7440-43-9	Cadmium	0.20		J*D	11/21/2015	22:07:55
7440-70-2	Calcium	7690		*	11/21/2015	19:03:24
7440-47-3	Chromium	18.7		*	11/21/2015	19:03:24
7440-48-4	Cobalt	8.6			11/21/2015	19:03:24
7440-50-8	Copper	33.2		*D	11/21/2015	22:07:55
7439-89-6	Iron	30900		*D	11/21/2015	22:07:55
7439-92-1	Lead	71.9		*D	11/21/2015	22:07:55
7439-95-4	Magnesium	9500		*	11/21/2015	19:03:24
7439-96-5	Manganese	371		*	11/21/2015	19:03:24
7440-02-0	Nickel	25.6		D	11/21/2015	22:07:55
7440-09-7	Potassium	1160			11/21/2015	19:03:24
7782-49-2	Selenium	5.4		U	11/21/2015	19:03:24
7440-22-4	Silver	1.5		U	11/21/2015	19:03:24
7440-23-5	Sodium	89.1		J	11/21/2015	19:03:24
7440-28-0	Thallium	3.8		U	11/21/2015	19:03:24
7440-62-2	Vanadium	19.2			11/21/2015	19:03:24
7440-66-6	Zinc	130		*	11/21/2015	19:03:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-020

% Solids: 77.6 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13500	▪	*	11/21/2015	19:08:17
7440-36-0	Antimony	2.1	▪	J*D	11/21/2015	22:12:42
7440-38-2	Arsenic	5.0	▪	*	11/21/2015	19:08:17
7440-39-3	Barium	43.8	▪	*	11/21/2015	19:08:17
7440-41-7	Beryllium	0.47	▪	J	11/21/2015	19:08:17
7440-43-9	Cadmium	1.9	▪	*D	11/21/2015	22:12:42
7440-70-2	Calcium	4530	▪	*	11/21/2015	19:08:17
7440-47-3	Chromium	37.0	▪	*	11/21/2015	19:08:17
7440-48-4	Cobalt	9.1	▪		11/21/2015	19:08:17
7440-50-8	Copper	58.6	▪	*D	11/21/2015	22:12:42
7439-89-6	Iron	30400	▪	*D	11/21/2015	22:12:42
7439-92-1	Lead	178	▪	*D	11/21/2015	22:12:42
7439-95-4	Magnesium	8660	▪	*	11/21/2015	19:08:17
7439-96-5	Manganese	341	▪	*	11/21/2015	19:08:17
7440-02-0	Nickel	25.3	▪	D	11/21/2015	22:12:42
7440-09-7	Potassium	753	▪		11/21/2015	19:08:17
7782-49-2	Selenium	4.5	▪	U	11/21/2015	19:08:17
7440-22-4	Silver	1.3	▪	U	11/21/2015	19:08:17
7440-23-5	Sodium	57.1	▪	J	11/21/2015	19:08:17
7440-28-0	Thallium	0.54	▪	J	11/21/2015	19:08:17
7440-62-2	Vanadium	15.9	▪		11/21/2015	19:08:17
7440-66-6	Zinc	275	▪	*	11/21/2015	19:08:17

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-013

% Solids: 79.0 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10200		*	11/21/2015	18:23:57
7440-36-0	Antimony	13.2		U*D	11/21/2015	21:39:20
7440-38-2	Arsenic	2.6		*	11/21/2015	18:23:57
7440-39-3	Barium	28.7		*	11/21/2015	18:23:57
7440-41-7	Beryllium	0.34		J	11/21/2015	18:23:57
7440-43-9	Cadmium	1.1		U*D	11/21/2015	21:39:20
7440-70-2	Calcium	887		*	11/21/2015	18:23:57
7440-47-3	Chromium	13.8		*	11/21/2015	18:23:57
7440-48-4	Cobalt	7.7			11/21/2015	18:23:57
7440-50-8	Copper	12.3		*D	11/21/2015	21:39:20
7439-89-6	Iron	22000		*D	11/21/2015	21:39:20
7439-92-1	Lead	13.7		*D	11/21/2015	21:39:20
7439-95-4	Magnesium	4610		*	11/21/2015	18:23:57
7439-96-5	Manganese	239		*	11/21/2015	18:23:57
7440-02-0	Nickel	16.4		D	11/21/2015	21:39:20
7440-09-7	Potassium	765			11/21/2015	18:23:57
7782-49-2	Selenium	3.9		U	11/21/2015	18:23:57
7440-22-4	Silver	1.1		U	11/21/2015	18:23:57
7440-23-5	Sodium	52.2		J	11/21/2015	18:23:57
7440-28-0	Thallium	2.8		U	11/21/2015	18:23:57
7440-62-2	Vanadium	10.6			11/21/2015	18:23:57
7440-66-6	Zinc	57.8		*	11/21/2015	18:23:57

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

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2740	109	1	50000	51900	104	0	50700	101	0
Antimony	994	980	99	0	2500	2450	98	0	2450	98	0
Arsenic	999	1000	100	0	2500	2500	100	0	2490	100	0
Barium	497	511	103	0	10000	9980	100	3	10000	100	4
Beryllium	495	499	101	1	1000	1050	105	3	1010	101	1
Cadmium	496	480	97	0	1000	987	99	0	983	98	0
Calcium	10000	10800	108	0	50000	52300	105	0	51600	103	0
Chromium	490	504	103	2	10000	10300	103	3	9990	100	1
Cobalt	499	484	97	0	5000	4820	96	0	4810	96	0
Copper	492	488	99	1	12500	12200	98	3	11900	95	2
Iron	5080	5350	105	0	25000	26000	104	0	25500	102	0
Lead	1000	937	94	1	10000	9450	95	0	9400	94	0
Magnesium	6070	6440	106	0	50000	52400	105	0	51400	103	0
Manganese	499	517	104	1	5000	5040	101	2	4910	98	2
Nickel	503	488	97	0	5000	4800	96	0	4770	95	0
Potassium	10000	10600	106	0	37500	38700	103	0	38300	102	1
Selenium	1030	987	96	0	1250	1240	99	0	1240	99	0
Silver	501	502	100	1	750	759	101	3	739	99	1
Sodium	10100	11000	109	0	25000	26500	106	0	26400	106	0
Thallium	1030	989	96	1	1000	934	93	0	925	93	0
Vanadium	501	504	101	1	2500	2550	102	3	2480	99	1
Zinc	1030	1000	98	0	5000	4970	99	0	4950	99	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	51000	102	0	51900	104	0
Antimony					2500	2440	98	0	2500	100	0
Arsenic					2500	2480	99	0	2560	102	0
Barium					10000	9920	99	1	10500	105	3
Beryllium					1000	1050	105	1	1050	105	2
Cadmium					1000	980	98	0	993	99	0
Calcium					50000	52000	104	0	52600	105	0
Chromium					10000	10200	102	2	9970	100	3
Cobalt					5000	4790	96	0	4870	97	0
Copper					12500	12200	98	1	12200	98	2
Iron					25000	25500	102	1	25500	102	0
Lead					10000	9350	94	0	9540	95	0
Magnesium					50000	51200	102	1	50900	102	0
Manganese					5000	5030	101	2	5040	101	2
Nickel					5000	4770	95	0	4910	98	0
Potassium					37500	39400	105	1	41000	109	0
Selenium					1250	1240	99	0	1280	102	0
Silver					750	754	101	2	735	98	3
Sodium					25000	26900	108	1	27300	109	0
Thallium					1000	920	92	0	929	93	0
Vanadium					2500	2540	102	2	2520	101	3
Zinc					5000	4910	98	0	5030	101	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	50500	101	1			
Antimony					2500	2420	97	0			
Arsenic					2500	2480	99	0			
Barium					10000	10200	102	2			
Beryllium					1000	1040	104	2			
Cadmium					1000	960	96	0			
Calcium					50000	51200	102	1			
Chromium					10000	9900	99	2			
Cobalt					5000	4720	94	0			
Copper					12500	12400	99	1			
Iron					25000	24600	98	1			
Lead					10000	9250	93	0			
Magnesium					50000	49000	98	1			
Manganese					5000	4990	100	1			
Nickel					5000	4770	95	0			
Potassium					37500	40700	109	0			
Selenium					1250	1240	99	0			
Silver					750	730	97	2			
Sodium					25000	26800	107	0			
Thallium					1000	900	90	0			
Vanadium					2500	2510	100	2			
Zinc					5000	4860	97	0			

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix: WATER

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

Analytical Method: ICP-AES Preparation Batch: 89995

Run Batch: I5112115A ISM Preparation Method 200.7

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBW001	Q
Aluminum	200	U	200	U	200	U	200	U	200	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Barium	200	U	200	U	200	U	200	U	200	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Calcium	5000	U	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
Iron	100	U	100	U	100	U	100	U	100	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	15.0	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	136	J	105	J	5000	U	5000	U	5000	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	5000	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: ICP-AES Preparation Batch: 89825

Run Batch: I5112115A ISM Preparation Method 3050B

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID:	Q	ID: PBS002	Q
Aluminum			200	U	200	U			20.0	U
Antimony			60.0	U	60.0	U			6.0	U
Arsenic			10.0	U	10.0	U			1.0	U
Barium			200	U	200	U			20.0	U
Beryllium			5.0	U	5.0	U			0.50	U
Cadmium			5.0	U	5.0	U			0.50	U
Calcium			5000	U	5000	U			500	U
Chromium			10.0	U	10.0	U			1.0	U
Cobalt			50.0	U	50.0	U			5.0	U
Copper			25.0	U	25.0	U			2.5	U
Iron			100	U	100	U			10.0	U
Lead			10.0	U	10.0	U			1.0	U
Magnesium			5000	U	5000	U			500	U
Manganese			15.0	U	15.0	U			1.5	U
Nickel			40.0	U	40.0	U			4.0	U
Potassium			5000	U	5000	U			500	U
Selenium			35.0	U	35.0	U			3.5	U
Silver			10.0	U	10.0	U			1.0	U
Sodium			5000	U	5000	U			500	U
Thallium			25.0	U	25.0	U			2.5	U
Vanadium			50.0	U	50.0	U			5.0	U
Zinc			60.0	U	60.0	U			6.0	U

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112115A ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	265000	104	267000	108
Antimony	0.00	618	4.8	0	597	97
Arsenic	0.00	104	-4.2	0	97.3	94
Barium	6.0	537	8.4	140	538	100
Beryllium	0.0000	495	0.24	0	546	110
Cadmium	1.0	972	1.2	120	1010	104
Calcium	245000	235000	263000	108	262000	112
Chromium	52.0	542	60.0	115	580	107
Cobalt	0.000	476	-0.53	0	468	98
Copper	2.0	511	-3.9	-195	506	99
Iron	101000	99300	104000	103	105000	106
Lead	0.00	49.0	-0.41	0	45.5	93
Magnesium	255000	248000	272000	106	273000	110
Manganese	7.0	507	18.3	261	554	109
Nickel	2.0	954	3.0	150	936	98
Selenium	0.00	46.0	-0.43	0	51.0	111
Silver	0.00	201	0.20	0	214	106
Thallium	0.00	108	-2.0	0	88.6	82
Vanadium	0.00	491	1.8	0	519	106
Zinc	0.00	952	1.2	0	982	103

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC763S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: Solid SDG No.: MBC763

Matrix: WATER Analytical Method: ICP-AES

% Solids for Sample:

Concentration Units (ug/L, mg/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
Aluminum	75 - 125	2240		200	U	2000	112	
Antimony	75 - 125	101		60.0	U	100	101	
Arsenic	75 - 125	41.1		10.0	U	40.0	103	
Barium	75 - 125	2030		200	U	2000	102	
Beryllium	75 - 125	50.9		5.0	U	50.0	102	
Cadmium	75 - 125	48.5		5.0	U	50.0	97	
Chromium	75 - 125	208		10.0	U	200	104	
Cobalt	75 - 125	495		50.0	U	500	99	
Copper	75 - 125	252		25.0	U	250	101	
Iron	75 - 125	1100		58.3	J	1000	104	
Lead	75 - 125	20.6		10.0	U	20.0	103	
Manganese	75 - 125	538		1.6	J	500	107	
Nickel	75 - 125	496		1.2	J	500	99	
Selenium	75 - 125	101		35.0	U	100	101	
Silver	75 - 125	52.9		10.0	U	50.0	106	
Thallium	75 - 125	52.4		25.0	U	50.0	105	
Vanadium	75 - 125	498		50.0	U	500	100	
Zinc	75 - 125	506		60.0	U	500	101	

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC798S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 39.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	11.8	J	14.4	U	47.9	25	*
Arsenic	75 - 125	63.8		19.0		19.2	233	*
Barium	75 - 125	999		63.0		958	98	
Beryllium	75 - 125	24.4		0.46	J	24.0	100	
Cadmium	75 - 125	26.3		1.8		24.0	102	
Chromium		1440		612		95.8	864	
Cobalt	75 - 125	225		6.6	J	240	91	
Copper	75 - 125	257		59.7		120	164	*
Lead		272		134		9.6	1438	
Manganese	75 - 125	618		223		240	165	*
Nickel	75 - 125	237		14.4		240	93	
Selenium	75 - 125	43.7		8.4	U	47.9	91	
Silver	75 - 125	22.2		2.4	U	24.0	93	
Thallium	75 - 125	21.5		6.0	U	24.0	90	
Vanadium	75 - 125	245		13.8		240	96	
Zinc	75 - 125	821		247		240	239	*

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC798A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: ICP4 ISM02.2

% Solids:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		117		60.0	U	120	98	
Arsenic		94.9		77.1		20.0	89	
Copper		284		243		50.0	82	
Manganese		911		907		30.0	13	
Zinc		1090		1000		120	75	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC763D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Analytical Method: ICP-AES

% Solids:

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		200	U	200	U		
Antimony		60.0	U	60.0	U		
Arsenic		10.0	U	10.0	U		
Barium		200	U	200	U		
Beryllium		5.0	U	5.0	U		
Cadmium		5.0	U	5.0	U		
Calcium		5000	U	5000	U		
Chromium		10.0	U	10.0	U		
Cobalt		50.0	U	50.0	U		
Copper		25.0	U	25.0	U		
Iron		58.3	J	35.6	J		
Lead		10.0	U	10.0	U		
Magnesium		5000	U	5000	U		
Manganese		1.6	J	1.5	J		
Nickel		1.2	J	1.1	J		
Potassium		5000	U	5000	U		
Selenium		35.0	U	35.0	U		
Silver		10.0	U	10.0	U		
Sodium		5000	U	5000	U		
Thallium		25.0	U	25.0	U		
Vanadium		50.0	U	50.0	U		
Zinc		60.0	U	60.0	U		

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC798D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 39.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		11800		21600		59	*
Antimony		14.9	U	14.9	U		
Arsenic		19.0		43.3		78	*
Barium	49.7	63.0		116		59	*
Beryllium		0.46	J	0.80	J		
Cadmium	1.2	1.8		5.2		97	*
Calcium	1240	2560		4430		54	*
Chromium		612		1560		87	*
Cobalt		6.6	J	11.2	J		
Copper		59.7		128		73	*
Iron		14600		25400		54	*
Lead		134		262		65	*
Magnesium	1240	3720		6370		53	*
Manganese		223		372		50	*
Nickel	9.9	14.4		24.1		50	
Potassium	1240	945	J	2100		76	
Selenium		8.7	U	2.0	J		
Silver		2.5	U	2.5	U		
Sodium		109	J	197	J		
Thallium		6.2	U	6.2	U		
Vanadium	12.4	13.8		24.6		56	
Zinc		247		647		89	*

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS002

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 89825

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

Analyte	True	Found	%R
Aluminum	40.0	41.7	104
Antimony	12.0	11.3	94
Arsenic	2.0	1.8	90
Barium	40.0	38.6	97
Beryllium	1.0	1.0	100
Cadmium	1.0	0.89	89
Calcium	1000	1030	103
Chromium	2.0	2.0	100
Cobalt	10.0	9.3	93
Copper	5.0	4.8	96
Iron	20.0	20.6	103
Lead	2.0	1.7	85
Magnesium	1000	1030	103
Manganese	3.0	3.0	100
Nickel	8.0	7.4	92
Potassium	1000	1020	102
Selenium	7.0	6.7	96
Silver	2.0	1.9	95
Sodium	1000	1060	106
Thallium	5.0	4.6	92
Vanadium	10.0	9.6	96
Zinc	12.0	11.4	95

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS001

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Preparation Method: 200.7

Analytical Method: ICP-AES Preparation Batch: 89995

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

Analyte	True	Found	%R
Aluminum	400	386	97
Antimony	120	120	100
Arsenic	20.0	21.3	107
Barium	400	389	97
Beryllium	10.0	10.0	100
Cadmium	10.0	9.2	92
Calcium	10000	10300	103
Chromium	20.0	20.2	101
Cobalt	100	94.7	95
Copper	50.0	47.4	95
Iron	200	220	110
Lead	20.0	17.3	87
Magnesium	10000	10500	105
Manganese	30.0	30.9	103
Nickel	80.0	75.3	94
Potassium	10000	10200	102
Selenium	70.0	71.3	102
Silver	20.0	20.4	102
Sodium	10000	10700	107
Thallium	50.0	49.6	99
Vanadium	100	97.7	98
Zinc	120	118	98

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC763L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	200	U	1000	U		
Antimony	60.0	U	300	U		
Arsenic	10.0	U	50.0	U		
Barium	200	U	1000	U		
Beryllium	5.0	U	25.0	U		
Cadmium	5.0	U	25.0	U		
Calcium	5000	U	25000	U		
Chromium	10.0	U	50.0	U		
Cobalt	50.0	U	250	U		
Copper	25.0	U	125	U		
Iron	58.3	J	500	U		
Lead	10.0	U	50.0	U		
Magnesium	5000	U	25000	U		
Manganese	1.6	J	75.0	U		
Nickel	1.2	J	200	U		
Potassium	5000	U	25000	U		
Selenium	35.0	U	175	U		
Silver	10.0	U	50.0	U		
Sodium	5000	U	25000	U		
Thallium	25.0	U	125	U		
Vanadium	50.0	U	250	U		
Zinc	60.0	U	300	U		

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC798L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	47900		51800		8	
Antimony	6.0	U	4.6	J		
Arsenic	77.1		77.1		0	
Barium	256		276		8	
Beryllium	1.9		2.0	J	5	
Cadmium	7.5		6.7		11	*
Calcium	10400		11200		8	
Chromium	2490		2480		0	
Cobalt	26.8		27.3		2	
Copper	243		247		2	
Iron	59500		64200		8	
Lead	543		560		3	
Magnesium	15100		16400		9	
Manganese	907		917		1	
Nickel	58.6		60.8		4	
Potassium	3840		3960		3	
Selenium	4.6		4.9	J	7	
Silver	1.0	U	5.0	U		
Sodium	445	J	413	J	7	
Thallium	1.7	J	5.9	J	247	
Vanadium	56.1		56.6		1	
Zinc	1000		1010		1	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

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

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	95.0	02/07/2015
Antimony	206.83	7.8	02/07/2015
Arsenic	189.04	3.9	02/07/2015
Barium	455.40	19.0	02/07/2015
Beryllium	313.04	0.052	02/07/2015
Cadmium	228.80	0.60	02/07/2015
Calcium	422.67	503	02/07/2015
Chromium	267.72	1.8	02/07/2015
Cobalt	228.62	0.25	02/07/2015
Copper	327.40	5.0	02/07/2015
Iron	261.19	19.0	02/07/2015
Lead	220.35	3.5	02/07/2015
Magnesium	285.21	51.0	02/07/2015
Manganese	257.61	0.43	02/07/2015
Nickel	231.60	1.1	02/07/2015
Potassium	766.49	90.0	02/07/2015
Selenium	196.09	5.5	02/07/2015
Silver	328.07	1.6	02/07/2015
Sodium	589.59	516	02/07/2015
Thallium	190.86	3.8	02/07/2015
Vanadium	292.40	1.1	02/07/2015
Zinc	206.20	6.6	02/07/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 200.7

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

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	95.0	02/07/2015
Antimony	206.83	7.8	02/07/2015
Arsenic	189.04	3.9	02/07/2015
Barium	455.40	19.0	02/07/2015
Beryllium	313.04	0.052	02/07/2015
Cadmium	228.80	0.60	02/07/2015
Calcium	422.67	503	02/07/2015
Chromium	267.72	1.8	02/07/2015
Cobalt	228.62	0.25	02/07/2015
Copper	327.40	5.0	02/07/2015
Iron	261.19	19.0	02/07/2015
Lead	220.35	3.5	02/07/2015
Magnesium	285.21	51.0	02/07/2015
Manganese	257.61	0.43	02/07/2015
Nickel	231.60	1.1	02/07/2015
Potassium	766.49	90.0	02/07/2015
Selenium	196.09	5.5	02/07/2015
Silver	328.07	1.6	02/07/2015
Sodium	589.59	516	02/07/2015
Thallium	190.86	3.8	02/07/2015
Vanadium	292.40	1.1	02/07/2015
Zinc	206.20	6.6	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

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	1348	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1353	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1407		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1413		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1418	X						X				X		X				X			X						
S07	1.0	1423	X						X				X		X													
S08	1.0	1428																	X			X						
S09	1.0	1433																				X						
S10	1.0	1437																	X									
ICV	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1447	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1452	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1457	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW001	1.0	1512	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS001	1.0	1516	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1521																										
ZZZZZZ	5.0	1526																										
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1535																										
ZZZZZZ	1.0	1540																										
ZZZZZZ	1.0	1545																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1555																										
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	5.0	1609																										
ZZZZZZ	1.0	1614																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1623																										
MBC763	1.0	1628	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC763L	5.0	1633	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC763D	1.0	1638	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC763S	1.0	1643	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
ZZZZZZ	1.0	1647																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

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		
CCV002	1.0	1652	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB002	1.0	1657	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS002	1.0	1702	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS002	1.0	1707	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC794	1.0	1712	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC795	1.0	1717	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC796	1.0	1721	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC797	1.0	1726	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC798	1.0	1731	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC798L	5.0	1736	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC798D	1.0	1740	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC798S	1.0	1745		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MBC798A	1.0	1750		X	X							X				X									X			
MBC799	1.0	1755	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A0	1.0	1759	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A1	1.0	1804	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A2	1.0	1809	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A3	1.0	1814	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A4	1.0	1819	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7H9	1.0	1823	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7A5	1.0	1828	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7A6	1.0	1833	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
CCV003	1.0	1838	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB003	1.0	1843	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7A7	1.0	1848	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7A8	1.0	1853	X		X	X	X			X	X				X	X			X	X	X	X	X	X	X			
MBC7A9	1.0	1858	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B0	1.0	1903	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D0	1.0	1908	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
ZZZZZZ	1.0	1913																										
ZZZZZZ	5.0	1917																										
ZZZZZZ	1.0	1922																										
ZZZZZZ	1.0	1927																										
ZZZZZZ	1.0	1932																										
ZZZZZZ	1.0	1936																										
ZZZZZZ	1.0	1941																										
ZZZZZZ	1.0	1946																										
ZZZZZZ	5.0	1951																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

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		
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	2000																										
ZZZZZZ	1.0	2005																										
ZZZZZZ	1.0	2010																										
ZZZZZZ	1.0	2015																										
ZZZZZZ	1.0	2020																										
CCV004	1.0	2025	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	2030	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	2035																										
ZZZZZZ	1.0	2040																										
ZZZZZZ	1.0	2045																										
ZZZZZZ	1.0	2049																										
ZZZZZZ	1.0	2054																										
ZZZZZZ	5.0	2059																										
ZZZZZZ	1.0	2104																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2114																										
ZZZZZZ	1.0	2119																										
ZZZZZZ	1.0	2124																										
MBC794	2.0	2129		X				X				X	X	X				X										
MBC795	2.0	2134		X				X				X	X	X				X										
MBC7H9	2.0	2139		X				X				X	X	X				X										
MBC7A5	2.0	2144		X				X				X	X	X				X										
MBC7A6	5.0	2148		X				X				X	X	X				X										
MBC7A7	5.0	2153		X				X				X	X	X				X										
MBC7A8	5.0	2158		X				X	X			X	X	X				X										
MBC7A9	5.0	2203		X				X				X	X	X				X										
MBC7B0	2.0	2207		X				X				X	X	X				X										
MBC7D0	2.0	2212		X				X				X	X	X				X										
CCV005	1.0	2217	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB005	1.0	2222	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	2.0	2227																										
ZZZZZZ	10	2232																										
ZZZZZZ	2.0	2237																										
ZZZZZZ	2.0	2241																										
ZZZZZZ	2.0	2246																										
ZZZZZZ	2.0	2251																										
ZZZZZZ	2.0	2256																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

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		
ZZZZZZ	5.0	2301																										
ZZZZZZ	5.0	2306																										
ZZZZZZ	5.0	2310																										
ZZZZZZ	5.0	2315																										
ZZZZZZ	2.0	2320																										
ZZZZZZ	2.0	2325																										
ZZZZZZ	10	2330																										
ZZZZZZ	2.0	2334																										
ZZZZZZ	2.0	2339																										
ZZZZZZ	2.0	2344																										
ZZZZZZ	5.0	2349																										
ZZZZZZ	1.0	2354																										
ZZZZZZ	1.0	2359																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.0062	0	200	183	-9	800	871	9
Antimony	0.00	0.0030	0	60.0	60	0	240	232	-3
Arsenic	0.00	0.00017	0	10.0	10	1	40.0	39	-2
Barium	0.00	-0.0032	0	200	206	3	800	787	-2
Beryllium	0.00	-0.00015	0	5.00	5.1	2	20.0	20	1
Cadmium	0.00	0.00090	0	5.00	4.6	-8	20.0	18	-9
Calcium	0.00	-0.86	0	5000	5454	9	20000	20774	4
Chromium	0.00	-0.00058	0	10.0	11	5	40.0	40	1
Cobalt	0.00	0.0052	0	50.0	49	-2	200	187	-6
Copper	0.00	0.0017	0	25.0	25	-1	100	96	-4
Iron	0.00	-0.020	0	100	114	14	400	410	3
Lead	0.00	0.0010	0	10.0	10	5	40.0	35	-12
Magnesium	0.00	-0.73	0	5000	5432	9	20000	20570	3
Manganese	0.00	-0.0011	0	15.0	16	6	60.0	61	2
Nickel	0.00	0.0039	0	40.0	39	-2	160	151	-6
Potassium	0.00	-0.85	0	5000	5361	7	20000	20390	2
Selenium	0.00	0.00034	0	35.0	36	3	140	135	-3
Silver	0.00	0.00041	0	10.0	9.9	-1	40.0	39	-2
Sodium	0.00	-0.73	0	3000	3392	13	12000	12709	6
Thallium	0.00	0.0025	0	25.0	25	1	100	93	-7
Vanadium	0.00	-0.00020	0	50.0	51	2	200	198	-1
Zinc	0.00	0.0012	0	60.0	61	1	240	235	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	51540	3			0			
Antimony	2500	2438	-2	3750	3719	-1	5000	5101	2
Arsenic	2500	2489	0	3750	3690	-2	5000	5073	1
Barium	10000	10071	1	15000	14865	-1	20000	20071	0
Beryllium	1000	1018	2	1500	1482	-1	2000	2000	0
Cadmium	1000	978	-2	1500	1532	2	2000	2104	5
Calcium	50000	52162	4			0			
Chromium	10000	9987	0	15000	14881	-1	20000	20131	1
Cobalt	5000	4775	-5	7500	7491	0	10000	10248	2
Copper	12500	12063	-3	18750	18908	1	25000	25283	1
Iron	25000	25923	4			0			
Lead	10000	9381	-6	15000	15048	0	20000	20576	3
Magnesium	50000	51730	3			0			
Manganese	5000	4938	-1	7500	7474	0	10000	10087	1
Nickel	5000	4778	-4	7500	7491	0	10000	10241	2
Potassium	37500	38530	3			0			
Selenium	1250	1241	-1	1875	1848	-1	2500	2540	2
Silver	750	738	-2	1125	1125	0	1500	1514	1
Sodium	25000	26334	5			0			
Thallium	1000	920	-8	1500	1520	1	2000	2067	3
Vanadium	2500	2477	-1	3750	3733	0	5000	5040	1
Zinc	5000	4945	-1	7500	7454	-1	10000	10107	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151080	1	300000	297320	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	153170	2	300000	293440	-2			
Chromium									
Cobalt									
Copper									
Iron	75000	75827	1	150000	148230	-1			
Lead									
Magnesium	150000	151600	1	300000	295600	-1			
Manganese									
Nickel									
Potassium	112500	110800	-2				56250	55360	-2
Selenium									
Silver									
Sodium	75000	76448	2				37500	38765	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10820	8			
Selenium									
Silver									
Sodium	100000	94852	-5						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

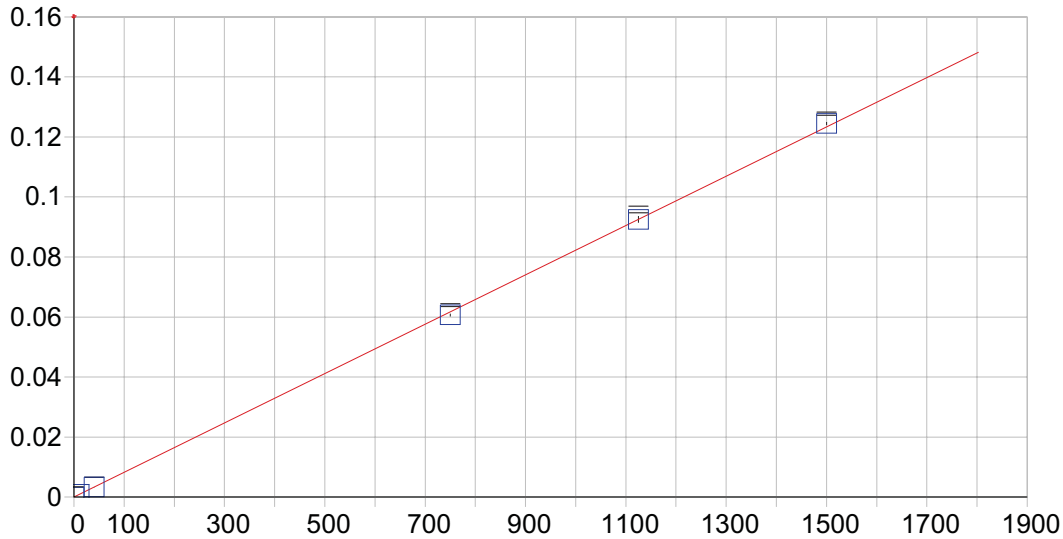
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.994	0.00317	Lin. Req	Inverse Conc
Antimony	0.9998	1.01	-0.000487	Lin. Req	Inverse Conc
Arsenic	0.9999	1.00	-0.000173	Lin. Req	Inverse Conc
Barium	1.0000	1.00	-0.00116	Lin. Req	Inverse Conc
Beryllium	0.9999	0.998	0.000861	Lin. Req	Inverse Conc
Cadmium	0.9996	1.03	-0.000452	Lin. Req	Inverse Conc
Calcium	0.9998	0.985	0.00663	Lin. Req	Inverse Conc
Chromium	1.0000	1.00	0.000177	Lin. Req	Inverse Conc
Cobalt	0.9996	1.01	0.000453	Lin. Req	Inverse Conc
Copper	0.9998	1.01	-0.000141	Lin. Req	Inverse Conc
Iron	0.9999	0.992	0.000660	Lin. Req	Inverse Conc
Lead	0.9994	1.01	-0.000187	Lin. Req	Inverse Conc
Magnesium	0.9999	0.989	-0.000172	Lin. Req	Inverse Conc
Manganese	1.0000	1.00	0.0000050	Lin. Req	Inverse Conc
Nickel	0.9996	1.01	-0.000617	Lin. Req	Inverse Conc
Potassium	0.9999	0.985	-0.00582	Lin. Req	Inverse Conc
Selenium	0.9999	1.00	-0.000170	Lin. Req	Inverse Conc
Silver	1.0000	1.00	0.0000370	Lin. Req	Inverse Conc
Sodium	0.9989	0.974	0.0120	Lin. Req	Inverse Conc
Thallium	0.9991	1.02	-0.000275	Lin. Req	Inverse Conc
Vanadium	1.0000	1.00	0.0000720	Lin. Req	Inverse Conc
Zinc	0.9999	1.00	-0.000340	Lin. Req	Inverse Conc

ICP-AES
Raw Data



Ag 328.068 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.483268		
Predicted MQL:	1.610893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.00004	.000	1
S01 ISM-520	10.000	9.8710	-.129	-1.29	.00085	.000	1
S02 ISM-521	40.000	39.179	-.821	-2.05	.00326	.000	1
S03 ISM-538	750.00	737.51	-12.5	-1.67	.06067	.000	1
S04 ISM-523	1125.0	1124.8	-.195	-.017	.09252	.001	1
S05 ISM-524	1500.0	1513.6	13.6	.909	.12448	.000	1

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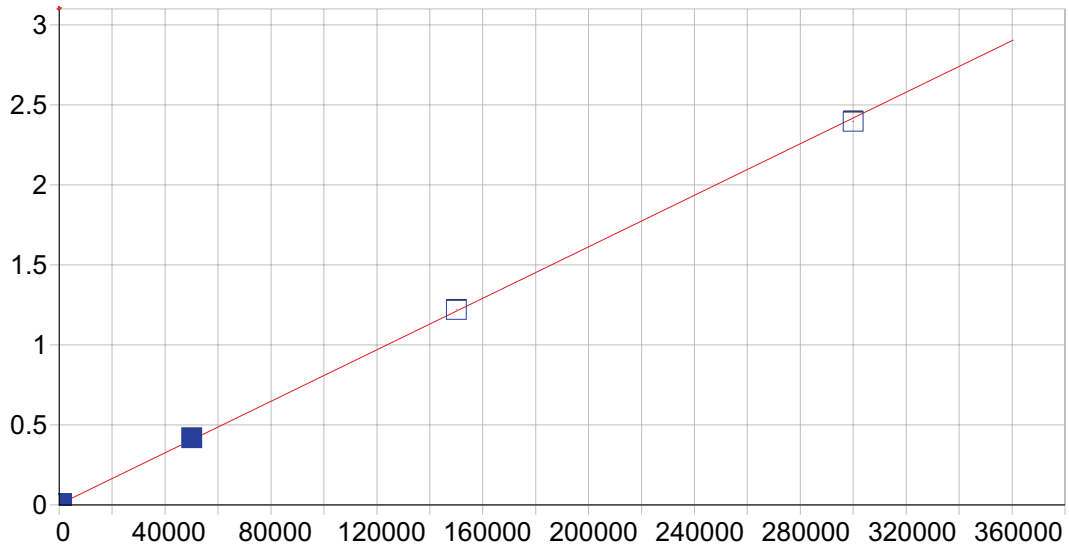

Al 308.215 {109}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003175	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	62.145854		
Predicted MQL:	207.152846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00616	-.006	.000	.00317	.000	1
S01 ISM-520	200.00	182.62	-17.4	-8.69	.00467	.000	1
S02 ISM-521	800.00	870.94	70.9	8.87	.01027	.000	1
S03 ISM-538	50000.	51538.	1540.	3.08	.41909	.002	1
S06 ISM-463	150000.	151080.	1080.	.721	1.2196	.002	1
S07 ISM-464	300000.	297320.	-2680.	-.893	2.3970	.002	1

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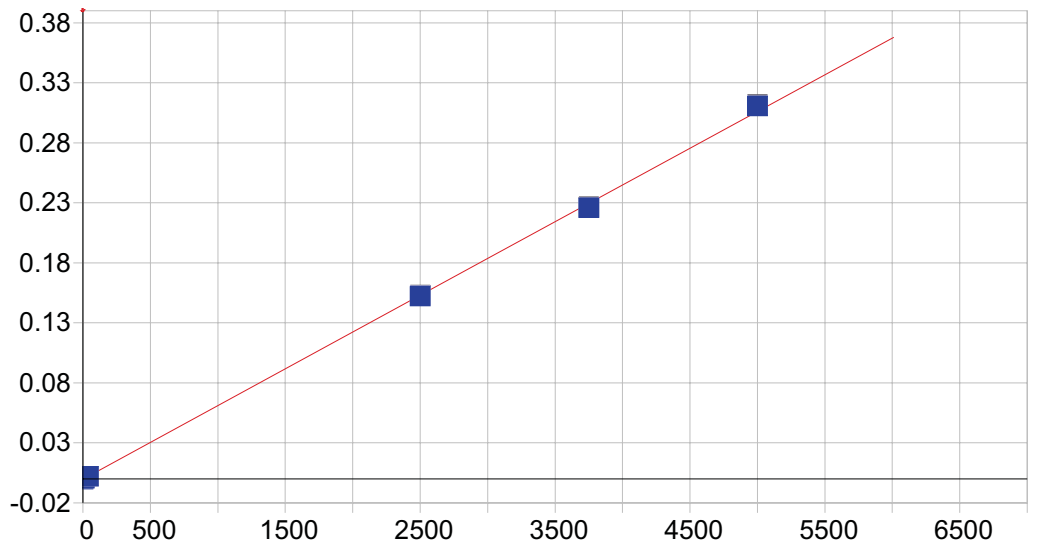

As 189.042 {478}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	1.259893		
Predicted MQL:	4.199644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00017	.000	.000	-.00017	.000	1
S01 ISM-520	10.000	10.113	.113	1.13	.00045	.000	1
S02 ISM-521	40.000	39.124	-.876	-2.19	.00223	.000	1
S03 ISM-538	2500.0	2488.6	-11.4	-.454	.15263	.000	1
S04 ISM-523	3750.0	3689.4	-60.6	-1.62	.22633	.000	1
S05 ISM-524	5000.0	5072.8	72.8	1.46	.31123	.000	1

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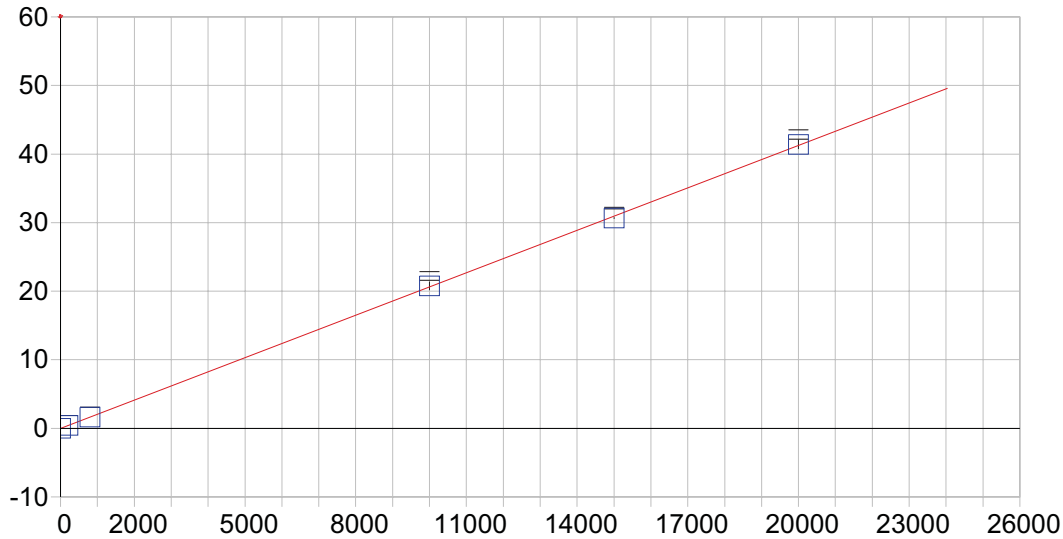


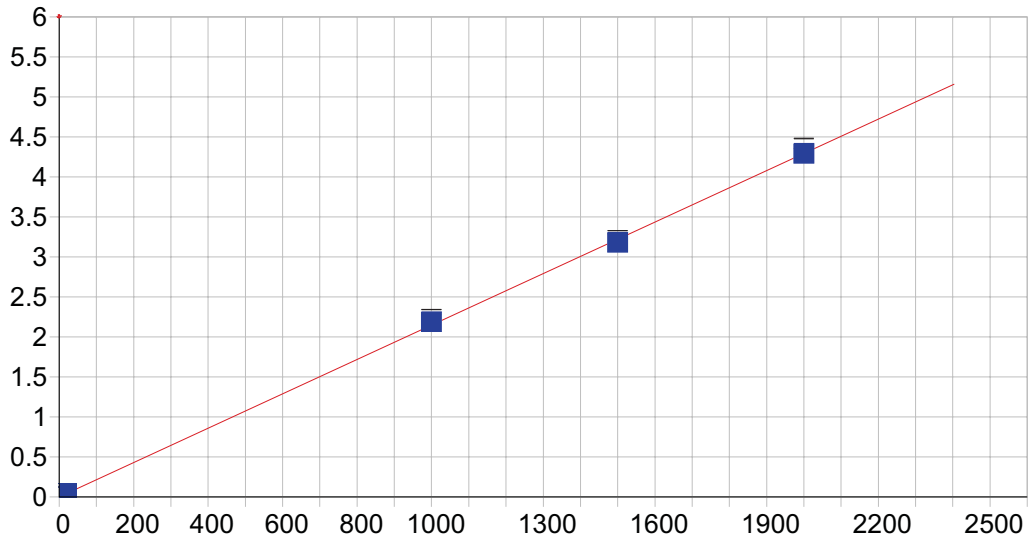
Ba 455.403 { 74}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001162	Re-Slope:	1.000000
A1 (Gain):	0.002063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.001736		
Predicted MDL:	0.631319		
Predicted MQL:	2.104397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00316	-.003	.000	-.00117	.001	1
S01 ISM-520	200.00	206.11	6.11	3.06	.42399	.016	1
S02 ISM-521	800.00	786.88	-13.1	-1.64	1.6219	.002	1
S03 ISM-538	10000.	10071.	70.5	.705	20.771	.643	1
S04 ISM-523	15000.	14865.	-135.	-.898	30.661	.129	1
S05 ISM-524	20000.	20071.	71.2	.356	41.399	.683	1

PDF created with pdfFactory trial version www.pdffactory.com



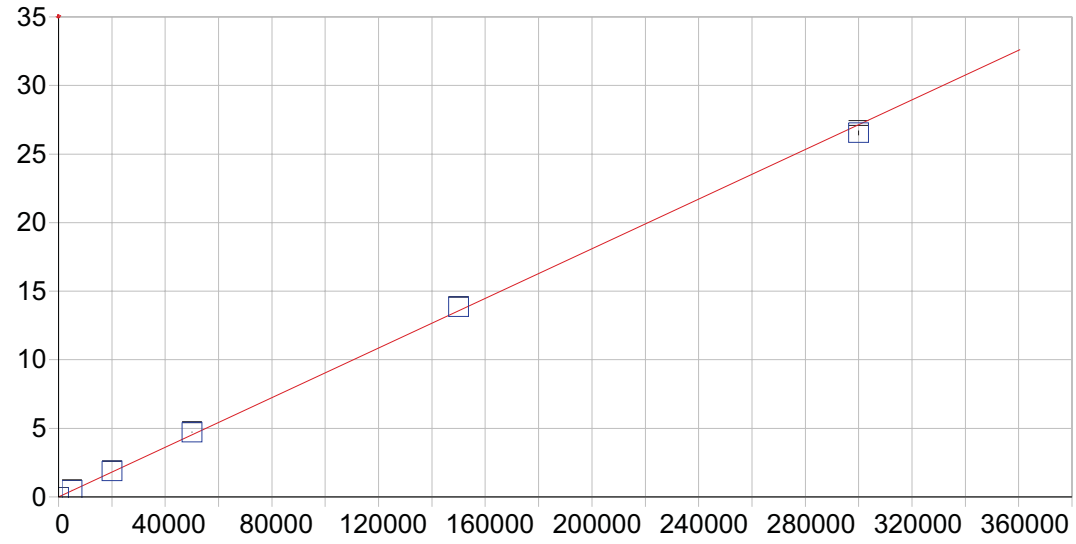
Be 313.042 {108}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000861	Re-Slope:	1.000000
A1 (Gain):	0.002146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.015736		
Predicted MQL:	0.052454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00086	.000	1
S01 ISM-520	5.0000	5.0875	.087	1.75	.01183	.000	1
S02 ISM-521	20.000	20.149	.149	.747	.04429	.000	1
S03 ISM-538	1000.0	1018.2	18.2	1.82	2.1884	.031	1
S04 ISM-523	1500.0	1481.9	-18.1	-1.21	3.1849	.021	1
S05 ISM-524	2000.0	1999.7	-.268	-.013	4.2975	.061	1

PDF created with pdfFactory trial version www.pdffactory.com



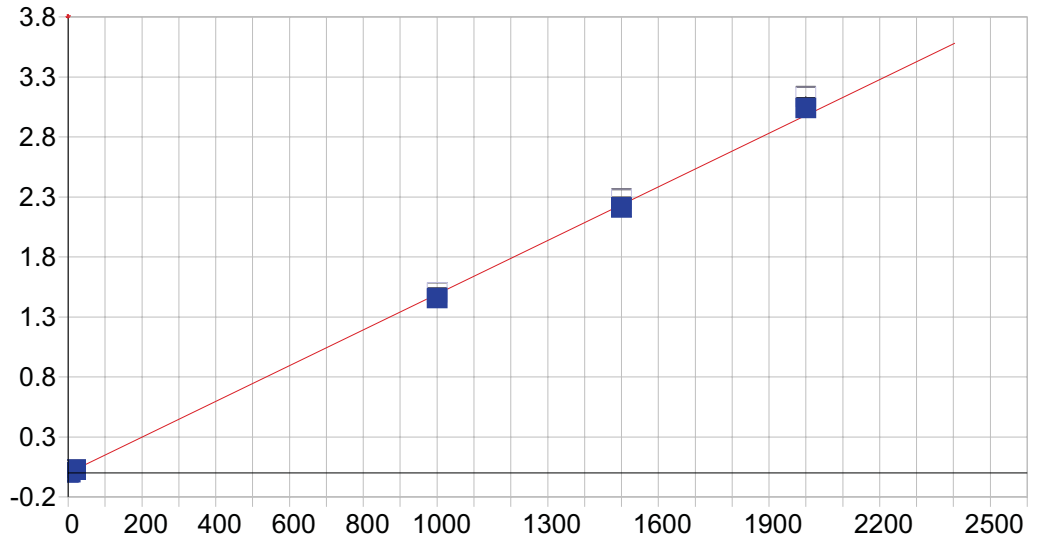
Ca 317.933 {106}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006635	Re-Slope:	1.000000
A1 (Gain):	0.000090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.004793		
Predicted MDL:	6.637735		
Predicted MQL:	22.125783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.86015	-.860	.000	.00656	.000	1
S01 ISM-520	5000.0	5454.1	454.	9.08	.49988	.019	1
S02 ISM-521	20000.	20774.	774.	3.87	1.8853	.005	1
S03 ISM-538	50000.	52162.	2160.	4.32	4.7239	.034	1
S06 ISM-463	150000.	153170.	3170.	2.11	13.858	.005	1
S07 ISM-464	300000.	293440.	-6560.	-2.19	26.544	.171	1

PDF created with pdfFactory trial version www.pdffactory.com



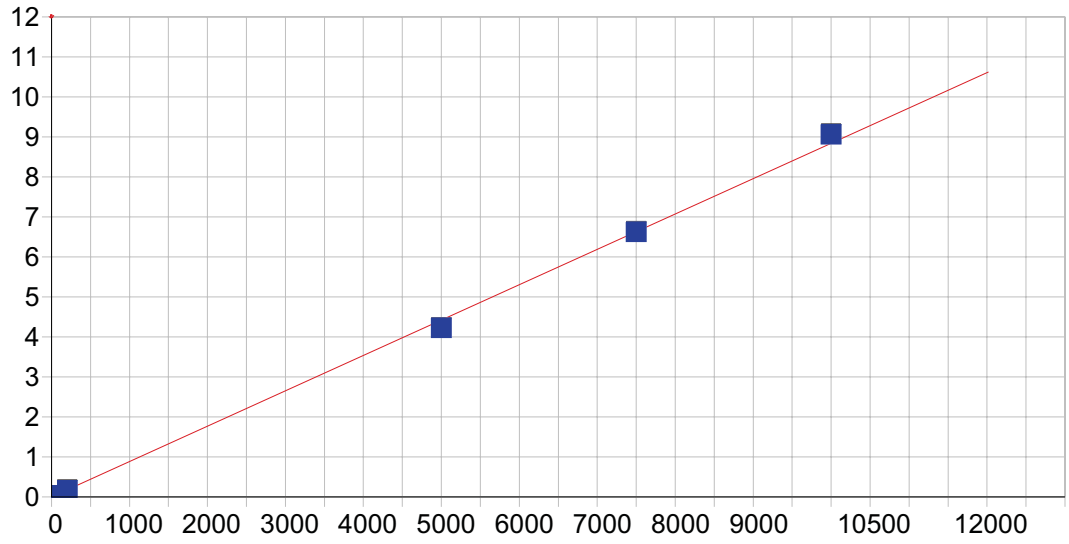
Cd 228.802 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000452	Re-Slope:	1.000000
A1 (Gain):	0.001490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.000167		
Predicted MDL:	0.182839		
Predicted MQL:	0.609463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00090	.001	.000	-.00045	.000	1
S01 ISM-520	5.0000	4.6187	-.381	-7.63	.00662	.000	1
S02 ISM-521	20.000	18.178	-1.82	-9.11	.02739	.000	1
S03 ISM-538	1000.0	977.48	-22.5	-2.25	1.5035	.002	1
S04 ISM-523	1500.0	1484.4	-15.6	-1.04	2.2825	.004	1
S05 ISM-524	2000.0	2040.3	40.3	2.01	3.1344	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



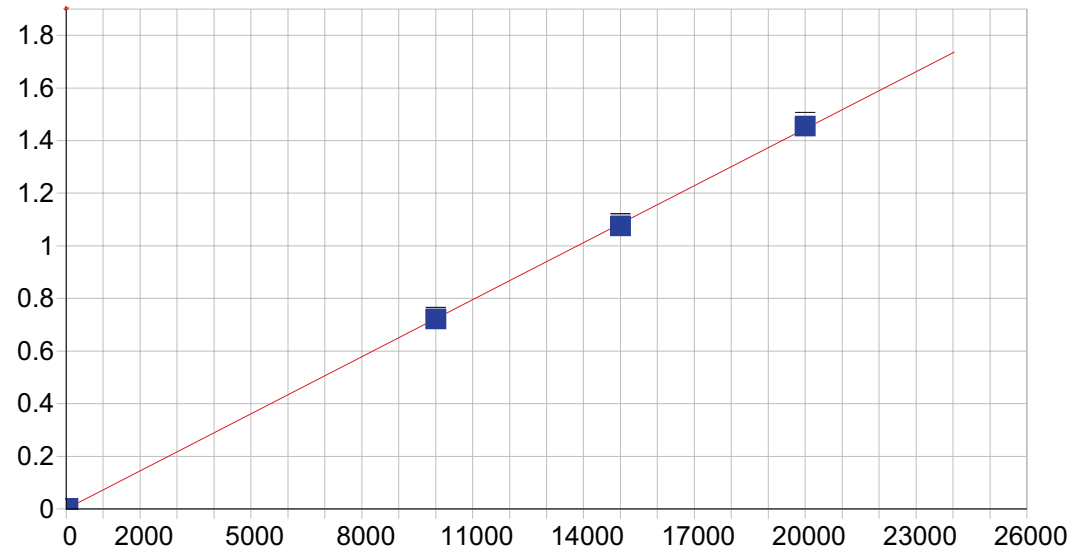
Co 228.616 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000453	Re-Slope:	1.000000
A1 (Gain):	0.000884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999623	Status:	OK.
Std Error of Est:	0.001003		
Predicted MDL:	0.180383		
Predicted MQL:	0.601276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00521	.005	.000	.00046	.000	1
S01 ISM-520	50.000	49.047	-.953	-1.91	.04391	.000	1
S02 ISM-521	200.00	187.26	-12.7	-6.37	.16620	.000	1
S03 ISM-538	5000.0	4774.7	-225.	-4.51	4.2234	.005	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	6.6253	.011	1
S05 ISM-524	10000.	10248.	248.	2.48	9.0644	.011	1

PDF created with pdfFactory trial version www.pdffactory.com



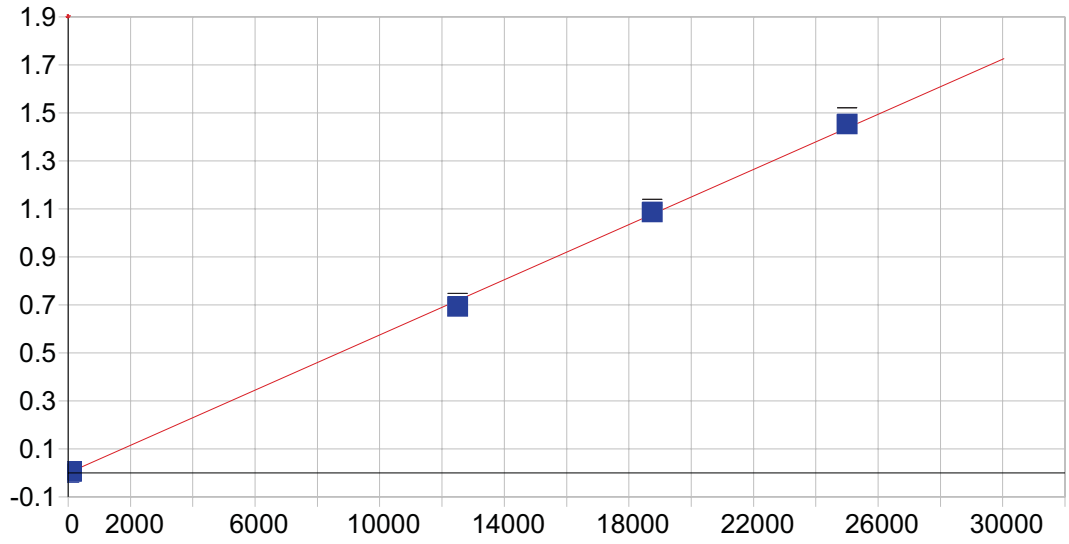
Cr 267.716 {126}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000177	Re-Slope:	1.000000
A1 (Gain):	0.000072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.347563		
Predicted MQL:	1.158543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00058	-.001	.000	.00018	.000	1
S01 ISM-520	10.000	10.511	.511	5.11	.00094	.000	1
S02 ISM-521	40.000	40.392	.392	.981	.00310	.000	1
S03 ISM-538	10000.	9986.6	-13.4	-.134	.72199	.006	1
S04 ISM-523	15000.	14881.	-119.	-.794	1.0757	.009	1
S05 ISM-524	20000.	20132.	132.	.658	1.4552	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



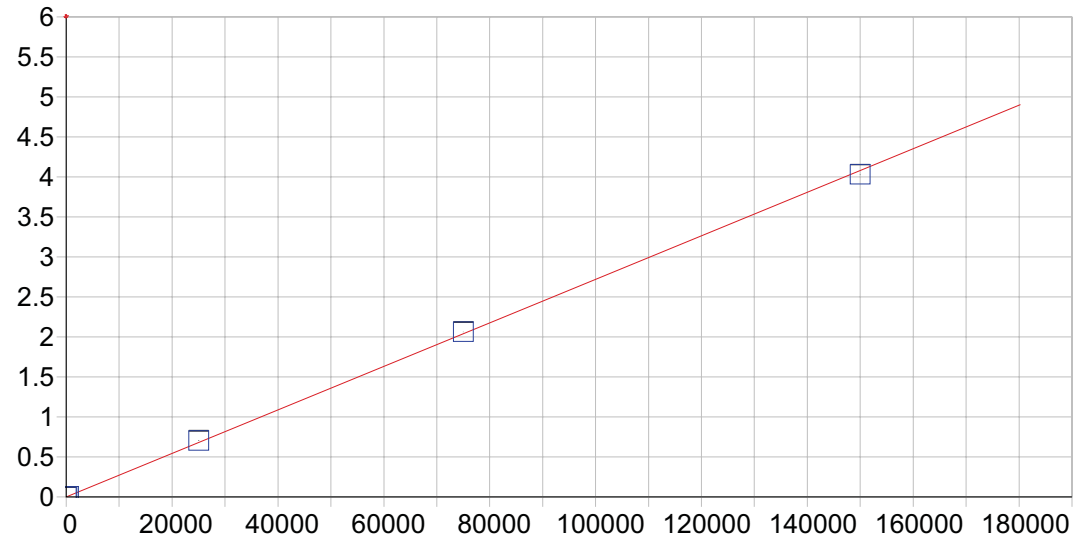
Cu 327.396 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000141	Re-Slope:	1.000000
A1 (Gain):	0.000057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.753977		
Predicted MQL:	2.513258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00168	.002	.000	-.00014	.000	1
S01 ISM-520	25.000	24.739	-.261	-1.04	.00129	.000	1
S02 ISM-521	100.00	95.837	-4.16	-4.16	.00541	.000	1
S03 ISM-538	12500.	12063.	-437.	-3.49	.69350	.013	1
S04 ISM-523	18750.	18908.	158.	.841	1.0869	.012	1
S05 ISM-524	25000.	25283.	283.	1.13	1.4535	.027	1

PDF created with pdfFactory trial version www.pdffactory.com



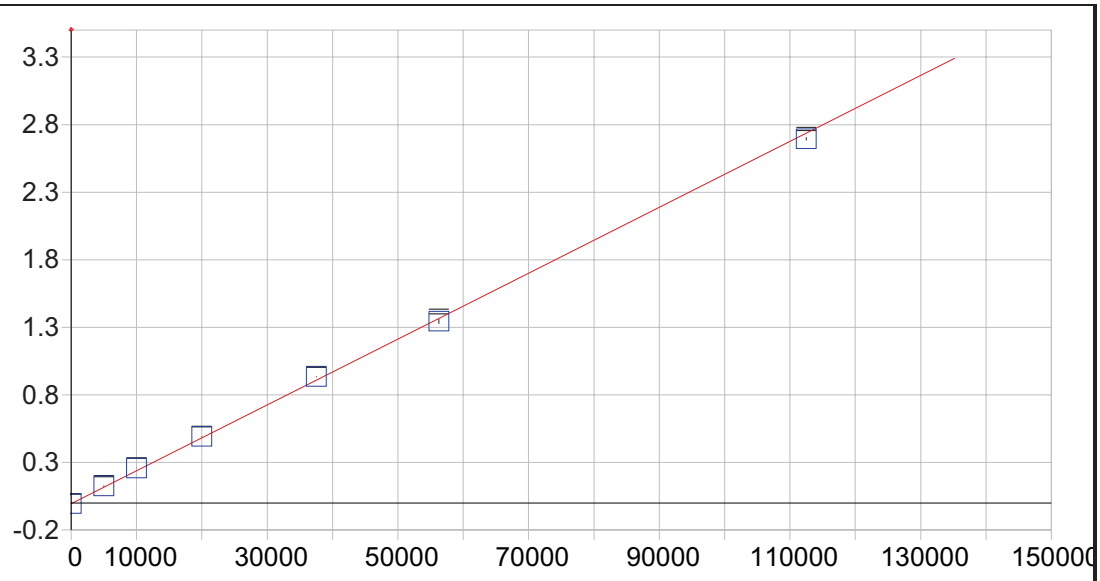
Fe 261.187 {129}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000660	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	12.750488		
Predicted MQL:	42.501625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02009	-.020	.000	.00066	.000	1
S01 ISM-520	100.00	113.94	13.9	13.9	.00376	.000	1
S02 ISM-521	400.00	410.15	10.1	2.54	.01181	.000	1
S03 ISM-538	25000.	25923.	923.	3.69	.70548	.004	1
S06 ISM-463	75000.	75827.	827.	1.10	2.0623	.001	1
S07 ISM-464	150000.	148230.	-1770.	-1.18	4.0307	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



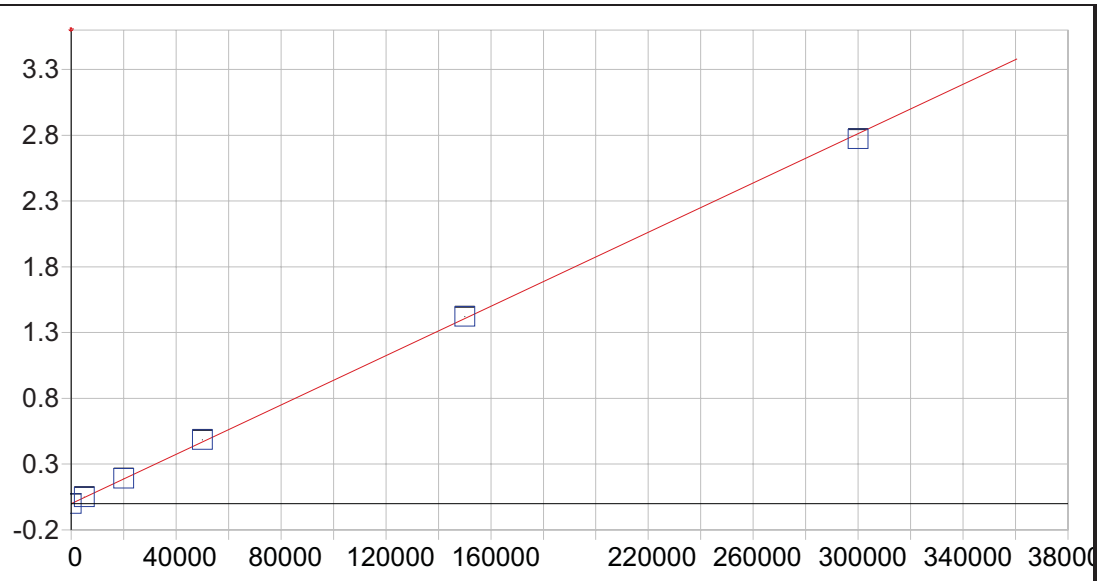
K 766.490 { 44}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005825	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000839		
Predicted MDL:	63.731155		
Predicted MQL:	212.437185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.85059	-.851	.000	-.00585	.002	1
S02 ISM-521	20000.	20394.	394.	1.97	.49133	.002	1
S01 ISM-520	5000.0	5360.6	361.	7.21	.12485	.005	1
S03 ISM-538	37500.	38534.	1030.	2.76	.93352	.005	1
S08 ISM-465	56250.	55359.	-891.	-1.58	1.3437	.018	1
S06 ISM-463	112500.	110780.	-1720.	-1.52	2.6948	.012	1
S10 ISM-457	10000.	10818.	818.	8.18	.25789	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



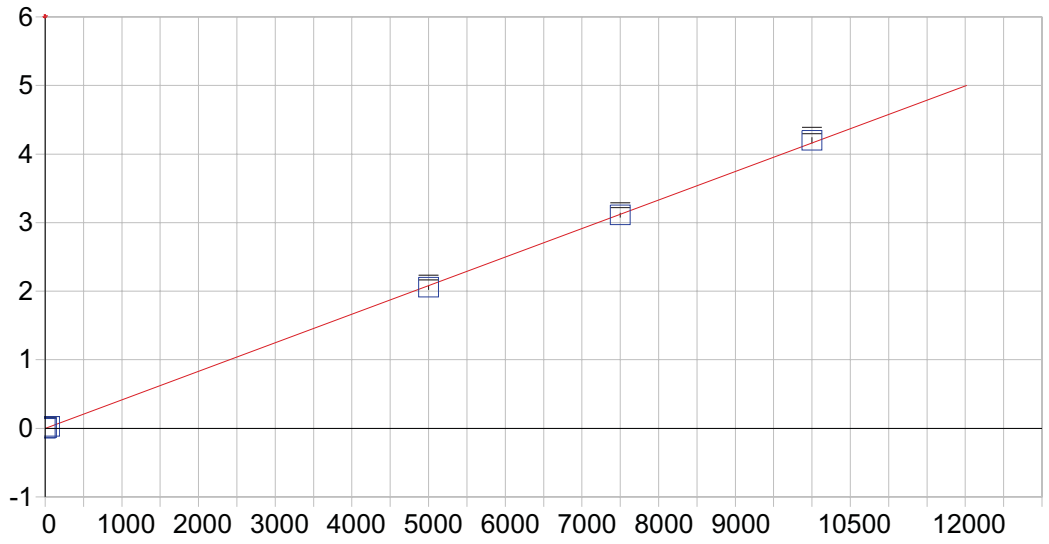
Mg 279.079 {121}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000172	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000358		
Predicted MDL:	33.403479		
Predicted MQL:	111.344929		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.72888	-.729	.000	-.00018	.000	1
S01 ISM-520	5000.0	5432.4	432.	8.65	.05076	.002	1
S02 ISM-521	20000.	20567.	567.	2.84	.19268	.001	1
S03 ISM-538	50000.	51726.	1730.	3.45	.48483	.003	1
S06 ISM-463	150000.	151650.	1650.	1.10	1.4218	.003	1
S07 ISM-464	300000.	295630.	-4370.	-1.46	2.7717	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



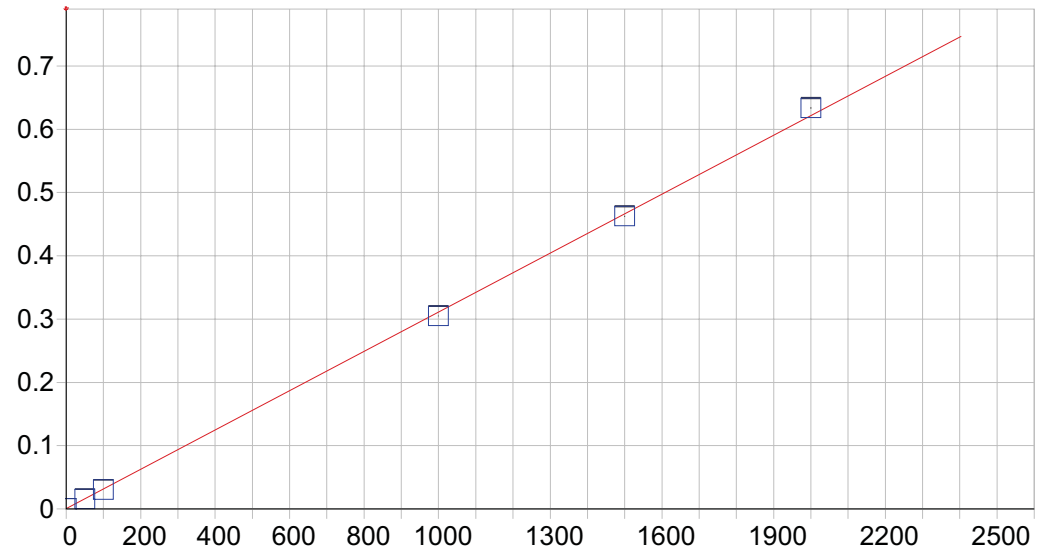
Mn 257.610 {131}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000416	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.058489		
Predicted MQL:	0.194962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00114	-.001	.000	.00000	.000	1
S01 ISM-520	15.000	15.968	.968	6.46	.00665	.000	1
S02 ISM-521	60.000	61.130	1.13	1.88	.02544	.000	1
S03 ISM-538	5000.0	4937.6	-62.4	-1.25	2.0549	.033	1
S04 ISM-523	7500.0	7473.5	-26.5	-.353	3.1103	.035	1
S05 ISM-524	10000.	10087.	86.8	.868	4.1979	.046	1

PDF created with pdfFactory trial version www.pdffactory.com



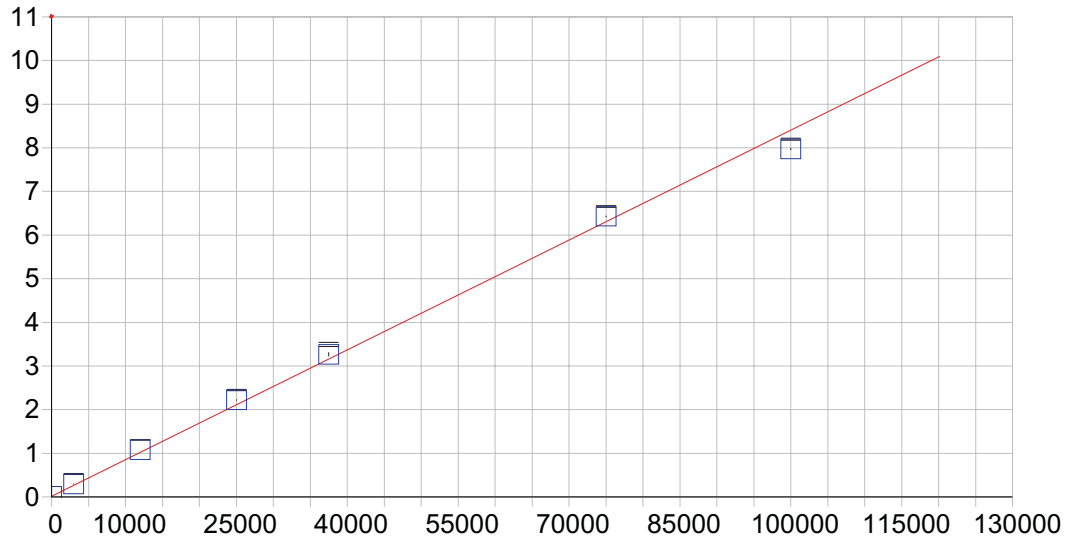
Mo 202.030 {467}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000647	Re-Slope:	1.000000
A1 (Gain):	0.000310	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.284501		
Predicted MQL:	0.948337		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00487	.005	.000	.00065	.000	1
S01 ISM-520	50.000	47.962	-2.04	-4.08	.01554	.000	1
S02 ISM-521	100.00	95.197	-4.80	-4.80	.03020	.000	1
S03 ISM-538	1000.0	980.18	-19.8	-1.98	.30496	.001	1
S04 ISM-523	1500.0	1487.8	-12.2	-.811	.46257	.001	1
S05 ISM-524	2000.0	2038.8	38.8	1.94	.63363	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



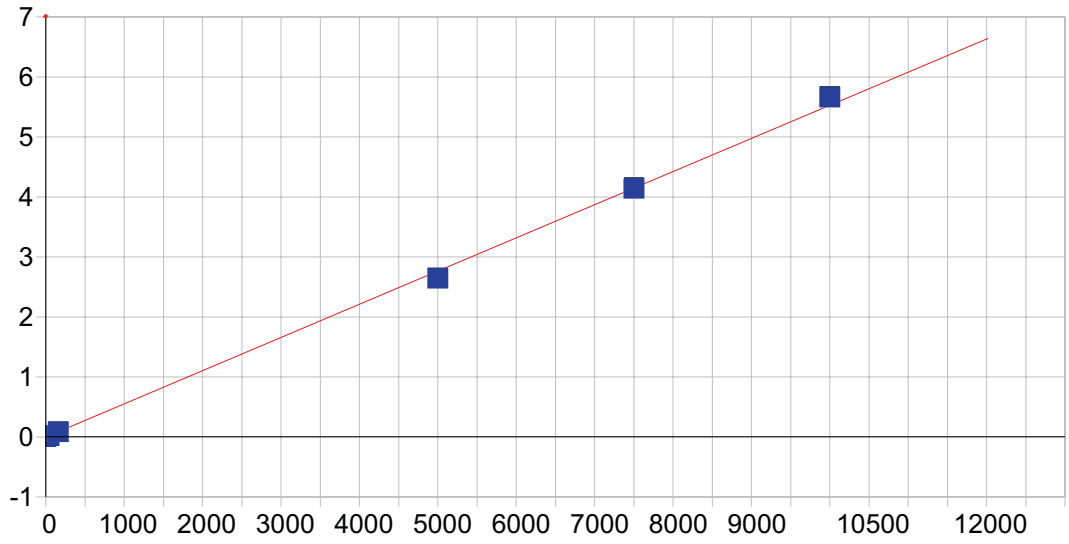
Na 589.592 { 57}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012000	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999010	Status:	OK.
Std Error of Est:	0.003844		
Predicted MDL:	22.751943		
Predicted MQL:	75.839810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.73411	-.734	.000	.01194	.000	1
S01 ISM-520	3000.0	3392.0	392.	13.1	.29668	.010	1
S02 ISM-521	12000.	12709.	709.	5.91	1.0786	.000	1
S03 ISM-538	25000.	26334.	1330.	5.34	2.2221	.013	1
S06 ISM-463	75000.	76448.	1450.	1.93	6.4279	.016	1
S08 ISM-465	37500.	38765.	1270.	3.37	3.2654	.047	1
S09 ISM-456	100000.	94852.	-5150.	-5.15	7.9724	.022	1

PDF created with pdfFactory trial version www.pdffactory.com



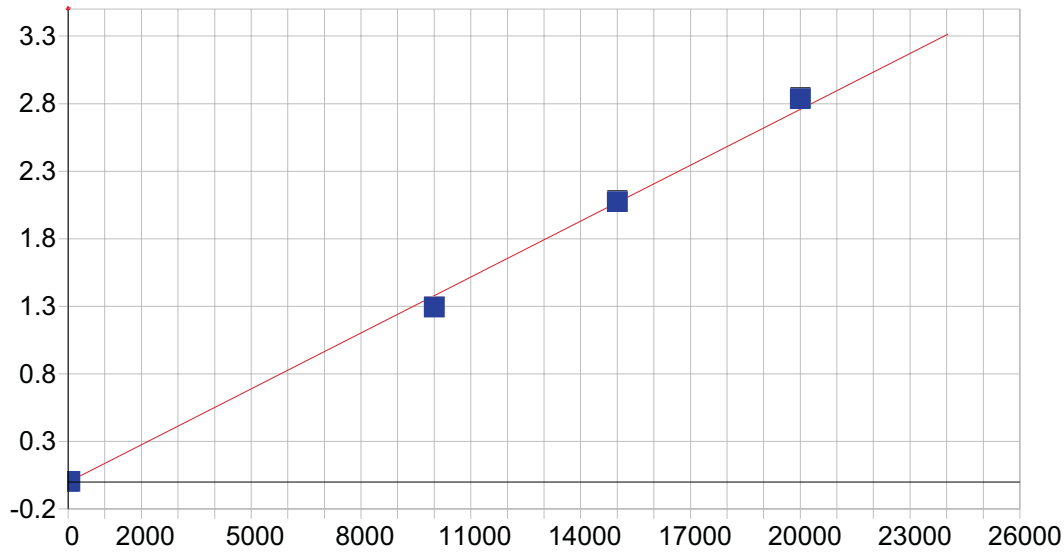
Ni 231.604 {445}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000617	Re-Slope:	1.000000
A1 (Gain):	0.000553	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000545		
Predicted MDL:	0.296618		
Predicted MQL:	0.988726		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00395	.004	.000	-.00062	.000	1
S01 ISM-520	40.000	39.263	-.737	-1.84	.02110	.000	1
S02 ISM-521	160.00	150.57	-9.43	-5.89	.08267	.000	1
S03 ISM-538	5000.0	4778.2	-222.	-4.44	2.6417	.004	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	4.1423	.008	1
S05 ISM-524	10000.	10241.	241.	2.41	5.6636	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



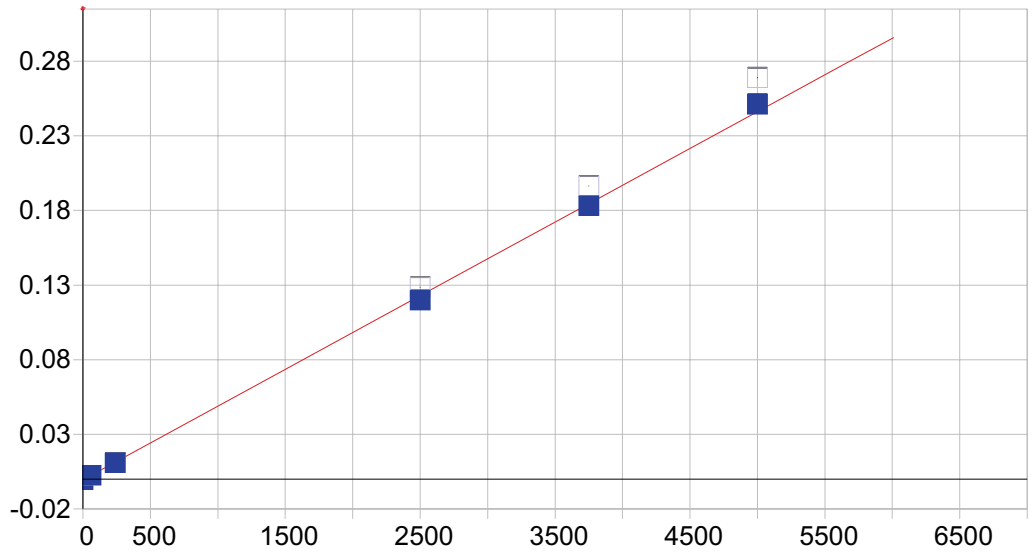
Pb 220.353 {453}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000187	Re-Slope:	1.000000
A1 (Gain):	0.000138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999385	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	1.503113		
Predicted MQL:	5.010378		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00100	.001	.000	-.00019	.000	1
S01 ISM-520	10.000	10.457	.457	4.57	.00127	.000	1
S02 ISM-521	40.000	35.363	-4.64	-11.6	.00475	.000	1
S03 ISM-538	10000.	9381.1	-619.	-6.19	1.2970	.001	1
S04 ISM-523	15000.	15048.	48.2	.321	2.0758	.005	1
S05 ISM-524	20000.	20576.	576.	2.88	2.8384	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



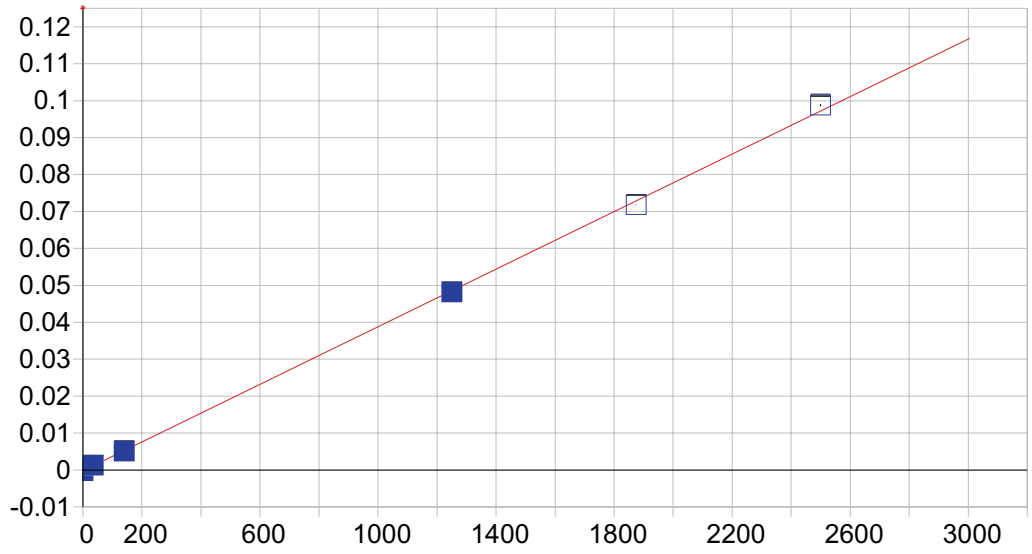
Sb 206.833 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000487	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	2.049779		
Predicted MQL:	6.832597		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00291	.003	.000	-.00049	.000	1
S01 ISM-520	60.000	59.956	-.044	-.074	.00246	.000	1
S02 ISM-521	240.00	231.64	-8.36	-3.49	.01095	.000	1
S03 ISM-538	2500.0	2438.1	-61.9	-2.48	.12864	.000	1
S04 ISM-523	3750.0	3719.2	-30.8	-.821	.19639	.000	1
S05 ISM-524	5000.0	5100.5	100.	2.01	.26899	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



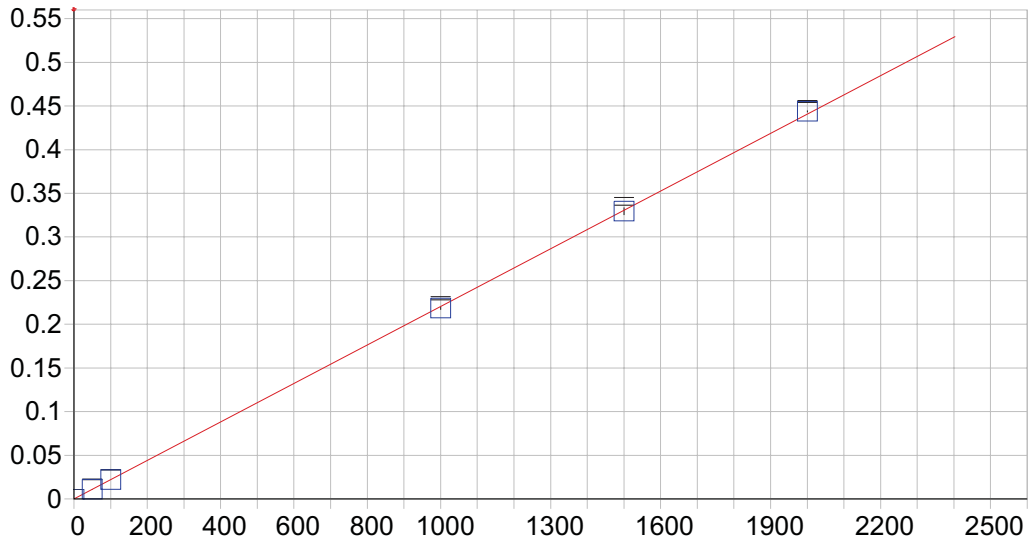
Se 196.090 {472}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.121056		
Predicted MQL:	7.070185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	-.00017	.000	1
S01 ISM-520	35.000	36.016	1.02	2.90	.00123	.000	1
S02 ISM-521	140.00	135.38	-4.62	-3.30	.00510	.000	1
S03 ISM-538	1250.0	1241.3	-8.70	-.696	.04819	.000	1
S04 ISM-523	1875.0	1847.8	-27.2	-1.45	.07181	.000	1
S05 ISM-524	2500.0	2539.5	39.5	1.58	.09875	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



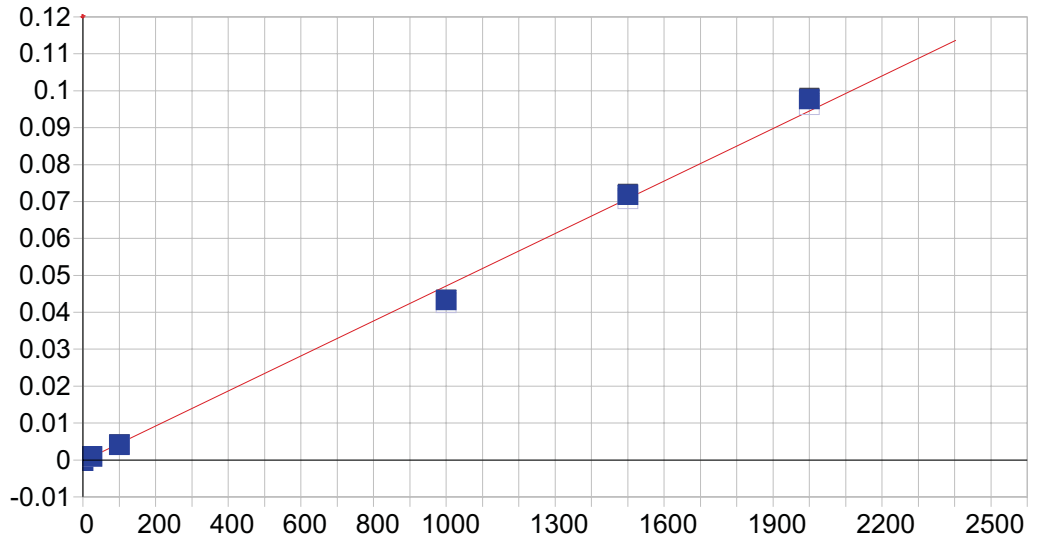
Ti 337.280 {100}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.000220	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.214352		
Predicted MQL:	0.714507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00066	.001	.000	.00010	.000	1
S01 ISM-520	50.000	49.920	-.080	-.161	.01110	.000	1
S02 ISM-521	100.00	99.346	-.654	-.654	.02199	.000	1
S03 ISM-538	1000.0	990.57	-9.43	-.943	.21829	.002	1
S04 ISM-523	1500.0	1495.6	-4.35	-.290	.32954	.004	1
S05 ISM-524	2000.0	2014.5	14.5	.726	.44382	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



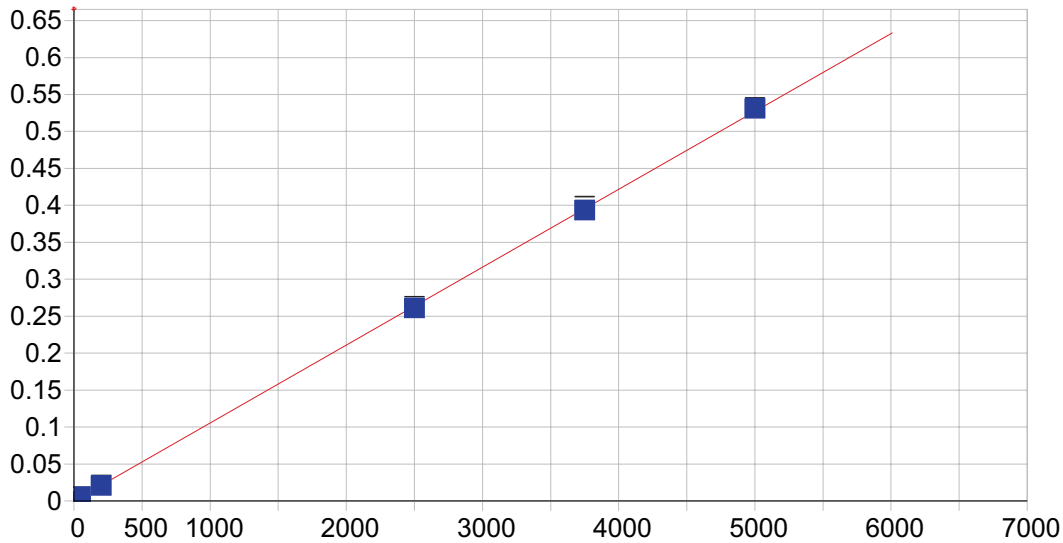
TI 190.856 {477}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998929	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	1.321381		
Predicted MQL:	4.404603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00253	.003	.000	-.00028	.000	1
S01 ISM-520	25.000	25.171	.171	.685	.00090	.000	1
S02 ISM-521	100.00	92.517	-7.48	-7.48	.00402	.000	1
S03 ISM-538	1000.0	919.37	-80.6	-8.06	.04255	.000	1
S04 ISM-523	1500.0	1520.6	20.6	1.37	.07067	.000	1
S05 ISM-524	2000.0	2067.3	67.3	3.37	.09620	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



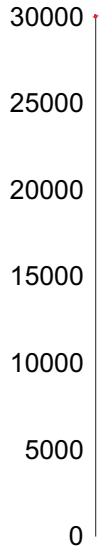
V 292.402 {115}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.337166		
Predicted MQL:	1.123886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00007	.000	1
S01 ISM-520	50.000	50.886	.886	1.77	.00542	.000	1
S02 ISM-521	200.00	198.45	-1.55	-.775	.02095	.000	1
S03 ISM-538	2500.0	2477.4	-22.6	-.903	.26083	.002	1
S04 ISM-523	3750.0	3733.0	-17.0	-.452	.39298	.005	1
S05 ISM-524	5000.0	5040.2	40.2	.804	.53058	.001	1

PDF created with pdfFactory trial version www.pdffactory.com

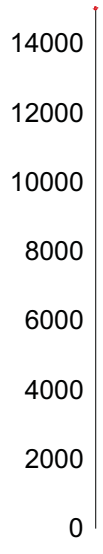


Y 224.306 {450}*

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

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

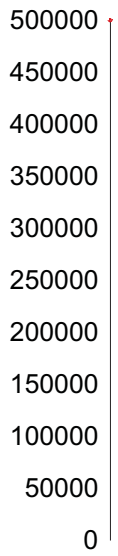
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	28348.	132.	1



Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

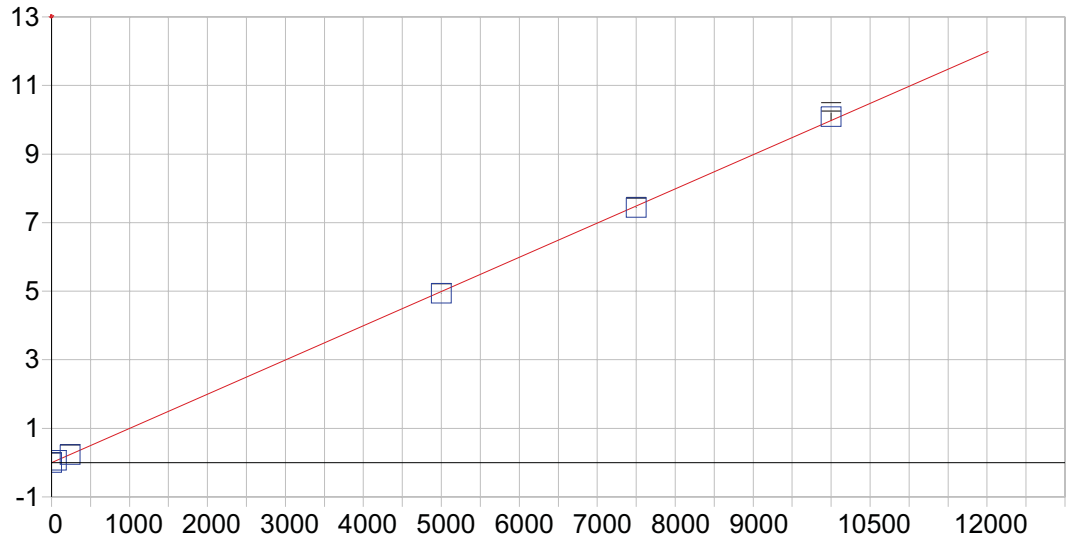
Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	13646.	204.	1



Y 371.030 { 91}2*

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	410170.	6630.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000340	Re-Slope:	1.000000
A1 (Gain):	0.000998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000441		
Predicted MDL:	0.103235		
Predicted MQL:	0.344117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00034	.000	1
S01 ISM-520	60.000	60.510	.510	.850	.06005	.000	1
S02 ISM-521	240.00	234.55	-5.45	-2.27	.23373	.001	1
S03 ISM-538	5000.0	4944.7	-55.3	-1.11	4.9344	.006	1
S04 ISM-523	7500.0	7453.5	-46.5	-.619	7.4382	.011	1
S05 ISM-524	10000.	10107.	107.	1.07	10.086	.122	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00317	-.00017	-.00117	.00086	.00656	-.0005
Stddev	.00004	.00043	.00002	.00052	.00001	.00046	.0002
%RSD	98.848	13.566	14.151	44.431	1.6657	7.0726	53.15
#1	.00008	.00268	-.00015	-.00148	.00087	.00652	-.0006
#2	.00001	.00335	-.00018	-.00057	.00086	.00611	-.0006
#3	.00002	.00349	-.00019	-.00146	.00085	.00704	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00046	.00018	-.00014	.00066	-.0058	-.0002	.00000
Stddev	.00019	.00003	.00003	.00027	.0020	.0004	.00002
%RSD	41.427	14.583	22.318	40.929	33.71	226.3	500.00
#1	.00064	.00015	-.00017	.00066	-.0058	-.0005	.00002
#2	.00047	.00019	-.00015	.00093	-.0039	-.0003	-.00001
#3	.00026	.00019	-.00011	.00039	-.0078	.0003	-.00001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00065	.01194	-.00062	-.00019	-.00049	-.00017	.0001
Stddev	.00007	.00050	.00026	.00015	.00003	.00003	.0000
%RSD	11.358	4.1814	41.737	79.998	7.0730	15.451	32.11
#1	.00056	.01177	-.00035	-.00035	-.00050	-.00015	.0001
#2	.00069	.01155	-.00063	-.00006	-.00051	-.00020	.0001
#3	.00069	.01250	-.00086	-.00015	-.00045	-.00016	.0001

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Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00007	-.00034
Stddev	.00000	.00001	.00002
%RSD	1.1533	19.900	5.8315
#1	-.00028	.00009	-.00033
#2	-.00027	.00007	-.00033
#3	-.00028	.00006	-.00036

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28348.	13646.	410170.
Stddev	132.	204.	6625.
%RSD	.46535	1.4975	1.6153
#1	28453.	13563.	413230.
#2	28392.	13878.	402570.
#3	28200.	13496.	414710.

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Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00085	.00467	.00045	.42399	.01183	.49988	.0066
Stddev	.00005	.00039	.00007	.01566	.00038	.01856	.0003
%RSD	5.4475	8.4113	15.023	3.6941	3.1776	3.7126	4.434
#1	.00088	.00481	.00041	.41253	.01217	.48620	.0070
#2	.00087	.00422	.00041	.44183	.01189	.52101	.0065
#3	.00080	.00497	.00053	.41759	.01142	.49244	.0064

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04391	.00094	.00129	.00376	.1249	.0508	.00665
Stddev	.00019	.00004	.00004	.00045	.0048	.0020	.00024
%RSD	.43025	4.0228	2.9368	11.996	3.866	3.904	3.5461
#1	.04398	.00098	.00132	.00385	.1211	.0496	.00689
#2	.04370	.00093	.00131	.00416	.1303	.0531	.00664
#3	.04406	.00090	.00125	.00327	.1232	.0496	.00642

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01554	.29668	.02110	.00127	.00246	.00123	.0111
Stddev	.00007	.00993	.00013	.00012	.00012	.00006	.0004
%RSD	.47234	3.3455	.60987	9.4894	4.9501	5.1628	3.188
#1	.01562	.29003	.02121	.00132	.00259	.00118	.0115
#2	.01552	.30809	.02096	.00113	.00246	.00122	.0110
#3	.01547	.29191	.02114	.00136	.00234	.00130	.0108

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Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00090	.00542	.06005
Stddev	.00002	.00018	.00019
%RSD	1.7608	3.2817	.31357
#1	.00088	.00559	.06005
#2	.00091	.00542	.05986
#3	.00091	.00523	.06024

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28146.	13832.	408840.
Stddev	144.	543.	15544.
%RSD	.51307	3.9241	3.8021
#1	28028.	14343.	393320.
#2	28307.	13263.	408790.
#3	28104.	13891.	424410.

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Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00326	.01027	.00223	1.6219	.04429	1.8853	.0274
Stddev	.00003	.00018	.00008	.0024	.00016	.0054	.0002
%RSD	1.0130	1.7562	3.4282	.14463	.37103	.28590	.8792
#1	.00327	.01021	.00227	1.6199	.04420	1.8801	.0276
#2	.00328	.01047	.00214	1.6245	.04448	1.8851	.0271
#3	.00322	.01012	.00227	1.6213	.04419	1.8908	.0275

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16620	.00310	.00541	.01181	.4913	.1927	.02544
Stddev	.00044	.00002	.00001	.00005	.0016	.0009	.00011
%RSD	.26684	.48665	.26811	.42069	.3159	.4485	.41548
#1	.16582	.00311	.00540	.01175	.4931	.1925	.02540
#2	.16608	.00311	.00541	.01184	.4905	.1919	.02557
#3	.16668	.00308	.00543	.01184	.4903	.1936	.02537

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03020	1.0786	.08267	.00475	.01095	.00510	.0220
Stddev	.00003	.0003	.00012	.00004	.00019	.00004	.0001
%RSD	.11312	.02825	.15116	.90971	1.6954	.69628	.2476
#1	.03020	1.0786	.08252	.00474	.01074	.00514	.0220
#2	.03024	1.0783	.08274	.00479	.01111	.00509	.0220
#3	.03017	1.0789	.08274	.00471	.01098	.00508	.0219

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Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00402	.02095	.23373
Stddev	.00006	.00009	.00066
%RSD	1.4581	.40603	.28239
#1	.00398	.02092	.23311
#2	.00400	.02105	.23367
#3	.00409	.02088	.23442

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27527.	13810.	393920.
Stddev	73.	103.	1791.
%RSD	.26560	.74901	.45456
#1	27473.	13814.	392370.
#2	27498.	13912.	393490.
#3	27610.	13705.	395880.

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Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06067	.41909	.15263	20.771	2.1884	4.7239	1.504
Stddev	.00047	.00237	.00026	.643	.0310	.0337	.002
%RSD	.77039	.56531	.16940	3.0951	1.4166	.71320	.1123
#1	.06029	.41656	.15247	20.572	2.1735	4.6865	1.504
#2	.06119	.41947	.15249	20.251	2.2241	4.7336	1.502
#3	.06053	.42125	.15293	21.490	2.1677	4.7518	1.505

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2234	.72199	.69350	.70548	.9335	.4848	2.0549
Stddev	.0055	.00611	.01280	.00428	.0046	.0032	.0334
%RSD	.12997	.84633	1.8459	.60623	.4959	.6601	1.6241
#1	4.2253	.71681	.69849	.70055	.9294	.4812	2.0369
#2	4.2172	.72873	.70305	.70766	.9326	.4861	2.0934
#3	4.2277	.72042	.67895	.70823	.9385	.4872	2.0344

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30496	2.2221	2.6417	1.2970	.12864	.04819	.2183
Stddev	.00062	.0127	.0042	.0012	.00015	.00004	.0018
%RSD	.20413	.57326	.16008	.09200	.11912	.09068	.8286
#1	.30517	2.2078	2.6451	1.2974	.12863	.04820	.2168
#2	.30426	2.2265	2.6370	1.2957	.12849	.04814	.2203
#3	.30545	2.2321	2.6430	1.2980	.12880	.04823	.2177

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Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04255	.26083	4.9344
Stddev	.00003	.00203	.0056
%RSD	.08092	.77811	.11327
#1	.04258	.25933	4.9366
#2	.04252	.26314	4.9280
#3	.04254	.26001	4.9385

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26224.	13550.	386950.
Stddev	10.	173.	2153.
%RSD	.03923	1.2753	.55651
#1	26217.	13634.	388670.
#2	26218.	13665.	384530.
#3	26235.	13351.	387640.

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Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09252	.22633	30.661	3.1849	2.282	6.6253	1.0757
Stddev	.00111	.00024	.129	.0211	.004	.0110	.0087
%RSD	1.1983	.10615	.42072	.66207	.1765	.16521	.81272
#1	.09140	.22618	30.729	3.1987	2.281	6.6230	1.0703
#2	.09362	.22620	30.512	3.1954	2.279	6.6157	1.0858
#3	.09253	.22661	30.742	3.1606	2.287	6.6372	1.0711

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0869	3.1103	.46257	4.1423	2.0758	.19639	.07181
Stddev	.0119	.0354	.00062	.0078	.0053	.00021	.00011
%RSD	1.0955	1.1392	.13312	.18886	.25567	.10581	.15522
#1	1.0775	3.0760	.46214	4.1410	2.0761	.19638	.07174
#2	1.0830	3.1467	.46230	4.1351	2.0704	.19618	.07174
#3	1.1003	3.1081	.46328	4.1506	2.0810	.19660	.07194

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3295	.07067	.39298	7.4382
Stddev	.0044	.00021	.00513	.0108
%RSD	1.330	.30389	1.3057	.14513
#1	.3251	.07061	.38772	7.4360
#2	.3339	.07049	.39797	7.4288
#3	.3296	.07090	.39327	7.4500

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Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27032.	13844.	405350.
Stddev	86.	70.	2462.
%RSD	.31984	.50268	.60742
#1	27094.	13825.	408120.
#2	27070.	13921.	403430.
#3	26934.	13786.	404490.

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Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12448	.31123	41.399	4.2975	3.134	9.0644	1.4552
Stddev	.00050	.00043	.683	.0607	.004	.0112	.0139
%RSD	.40063	.13687	1.6492	1.4128	.1397	.12385	.95591
#1	.12500	.31133	40.685	4.3653	3.131	9.0596	1.4593
#2	.12445	.31077	42.046	4.2481	3.133	9.0564	1.4667
#3	.12401	.31160	41.467	4.2791	3.139	9.0773	1.4398

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4535	4.1979	.63363	5.6636	2.8384	.26899	.09875
Stddev	.0271	.0461	.00116	.0099	.0053	.00032	.00030
%RSD	1.8672	1.0973	.18358	.17555	.18803	.12003	.30111
#1	1.4445	4.2490	.63324	5.6597	2.8340	.26887	.09862
#2	1.4839	4.1851	.63271	5.6562	2.8369	.26875	.09855
#3	1.4319	4.1595	.63494	5.6749	2.8444	.26936	.09909

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4438	.09620	.53058	10.086
Stddev	.0011	.00028	.00112	.122
%RSD	.2560	.29401	.21131	1.2069
#1	.4449	.09604	.53168	10.020
#2	.4440	.09604	.53061	10.227
#3	.4426	.09653	.52944	10.012

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Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26488.	14077.	405690.
Stddev	39.	35.	4261.
%RSD	.14737	.25151	1.0502
#1	26520.	14040.	401410.
#2	26499.	14111.	405730.
#3	26444.	14078.	409930.

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Sample Name: S06 ISM-463 Acquired: 11/21/2015 14:18:46 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2196	13.858	2.0623	2.695	1.422	6.4279
Stddev	.0018	.005	.0007	.012	.003	.0160
%RSD	.15124	.03811	.03431	.4600	.2038	.24847
#1	1.2215	13.864	2.0626	2.707	1.422	6.4460
#2	1.2178	13.853	2.0629	2.695	1.419	6.4218
#3	1.2195	13.858	2.0615	2.682	1.425	6.4158

Int. Std.	Y_3710
Units	Cts/S
Avg	13621.
Stddev	138.
%RSD	1.0151
#1	13642.
#2	13748.
#3	13473.

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Sample Name: S07 ISM-464 Acquired: 11/21/2015 14:23:30 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3970	26.544	4.0307	2.772
Stddev	.0024	.171	.0023	.003
%RSD	.09810	.64515	.05671	.1211
#1	2.3962	26.363	4.0300	2.772
#2	2.3951	26.703	4.0289	2.768
#3	2.3996	26.567	4.0333	2.775

Int. Std.	Y_3710
Units	Cts/S
Avg	13567.
Stddev	64.
%RSD	.47072
#1	13612.
#2	13494.
#3	13595.

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Sample Name: S08 ISM-465 Acquired: 11/21/2015 14:28:19 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.344	3.2654
Stddev	.018	.0466
%RSD	1.345	1.4280
#1	1.358	3.3109
#2	1.323	3.2177
#3	1.350	3.2676

Int. Std.	Y_3710
Units	Cts/S
Avg	13506.
Stddev	264.
%RSD	1.9550
#1	13532.
#2	13756.
#3	13230.

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Sample Name: S09 ISM-456 Acquired: 11/21/2015 14:33:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.9724
Stddev	.0220
%RSD	.27596
#1	7.9497
#2	7.9740
#3	7.9936
Int. Std.	Y_3710
Units	Cts/S
Avg	13868.
Stddev	86.
%RSD	.62318
#1	13772.
#2	13941.
#3	13890.

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Sample Name: S10 ISM-457 Acquired: 11/21/2015 14:37:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2579
Stddev	.0005
%RSD	.2071
#1	.2574
#2	.2585
#3	.2578
Int. Std.	Y_3710
Units	Cts/S
Avg	13755.
Stddev	59.
%RSD	.42739
#1	13693.
#2	13809.
#3	13764.

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.75	2739.3	1002.3	511.16	498.52	10784.	480.4
Stddev	7.03	38.3	2.2	1.34	5.58	20.	1.5
%RSD	1.4007	1.3966	.21829	.26131	1.1194	.18687	.3223
#1	509.44	2742.5	999.88	512.33	504.88	10801.	479.4
#2	495.66	2699.5	1002.8	509.70	494.46	10762.	479.5
#3	500.15	2775.8	1004.2	511.45	496.21	10790.	482.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.15	503.91	487.89	5349.8	10630.	6444.	517.44
Stddev	1.24	7.58	6.77	26.7	51.	31.	6.99
%RSD	.25515	1.5038	1.3885	.49841	.4824	.4748	1.3515
#1	483.69	511.33	495.17	5368.5	10620.	6414.	524.68
#2	483.21	496.18	481.77	5319.3	10580.	6475.	510.72
#3	485.55	504.22	486.73	5361.6	10680.	6443.	516.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.61358	11005.	487.56	936.74	979.82	986.83	-.0233
Stddev	.27007	35.	1.01	4.74	2.24	2.70	.2181
%RSD	44.015	.32001	.20724	.50560	.22900	.27341	936.9
#1	-.50171	11032.	486.85	934.66	977.47	985.26	.2182
#2	-.41742	11018.	487.11	933.40	980.03	985.28	-.2062
#3	-.92160	10965.	488.71	942.16	981.95	989.94	-.0818
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	989.44	503.51	1003.1
Stddev	5.25	7.21	2.3
%RSD	.53040	1.4326	.23184
#1	985.77	510.77	1001.7
#2	987.10	496.35	1001.9
#3	995.45	503.40	1005.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28108.	14028.	407660.
Stddev	166.	16.	5168.
%RSD	.59154	.11120	1.2678
#1	28133.	14044.	402200.
#2	28261.	14027.	412480.
#3	27931.	14013.	408300.

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10648	7.6703	-1.0825	.08966	.02754	-4.2645	-.0708
Stddev	.27688	15.470	.4528	.43327	.01287	5.4224	.1259
%RSD	260.02	201.69	41.831	483.26	46.743	127.15	177.8
#1	.08547	25.386	-1.4646	-.41057	.04185	-7.0936	-.1460
#2	-.15929	-3.1743	-.58232	.34719	.02387	-7.6872	.0745
#3	.39327	.79970	-1.2007	.33235	.01690	1.9874	-.1409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02844	.01948	.55733	6.0915	135.9	30.12	.06922
Stddev	.10499	.25529	.64717	8.6382	19.0	20.34	.03115
%RSD	369.11	1310.7	116.12	141.81	14.00	67.55	44.993
#1	-.05352	.30819	.27456	1.2554	119.7	52.67	.06790
#2	.08681	-.17641	1.2978	.95467	131.1	24.53	.03876
#3	-.11862	-.07334	.09967	16.065	156.8	13.15	.10101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55075	39.513	-.02246	-.70028	2.9715	1.9712	.0347
Stddev	.04981	17.876	.23836	1.2756	2.9035	.8829	.1818
%RSD	9.0438	45.241	1061.4	182.15	97.710	44.791	524.3
#1	-.49498	40.685	.07749	-.66731	5.6406	1.1168	-.1747
#2	-.59082	21.080	.14966	.55849	-.12000	2.8801	.1268
#3	-.56644	56.775	-.29452	-1.9920	3.3939	1.9167	.1519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29359	.12194	.05101
Stddev	.52720	.15816	.02389
%RSD	179.57	129.71	46.828
#1	-.56249	.00758	.07803
#2	-.63212	.05579	.03273
#3	.31385	.30244	.04226
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28483.	14121.	408960.
Stddev	261.	77.	4353.
%RSD	.91756	.54196	1.0644
#1	28784.	14189.	407770.
#2	28319.	14135.	405330.
#3	28345.	14038.	413780.

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19525	264620.	-4.1707	8.3771	.23681	263050.	1.167
Stddev	.56683	5040.	1.6759	.2051	.01504	6863.	.093
%RSD	290.31	1.9045	40.184	2.4485	6.3520	2.6091	7.954
#1	-.37831	266620.	-2.8400	8.5859	.23160	257150.	1.271
#2	.20896	258890.	-3.6192	8.1759	.25377	261410.	1.091
#3	.75511	268360.	-6.0529	8.3695	.22507	270580.	1.139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53063	60.031	-3.8674	104020.	409.5	271600.	18.315
Stddev	.14166	.996	.1144	1964.	27.5	5110.	.285
%RSD	26.697	1.6588	2.9587	1.8879	6.711	1.882	1.5555
#1	-.67777	58.884	-3.9631	104790.	412.8	273700.	17.999
#2	-.51894	60.674	-3.8985	101790.	380.5	265700.	18.550
#3	-.39517	60.535	-3.7407	105480.	435.2	275300.	18.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4251	128.87	2.9545	-.41139	4.7530	-.42710	3.403
Stddev	.2255	13.03	.3119	1.3800	.9673	3.0907	.044
%RSD	15.824	10.109	10.555	335.44	20.351	723.64	1.281
#1	1.5993	120.38	3.3064	-.39133	4.6992	-3.2981	3.397
#2	1.1704	122.36	2.8447	.95846	3.8137	2.8442	3.449
#3	1.5055	143.87	2.7125	-1.8013	5.7460	-.82748	3.362
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0452	1.7814	1.2077
Stddev	1.7445	.1025	.0959
%RSD	85.296	5.7534	7.9446
#1	-3.6397	1.8103	1.2311
#2	-2.3141	1.8662	1.2897
#3	-.18192	1.6675	1.1022
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26051.	13326.	363290.
Stddev	93.	279.	4818.
%RSD	.35581	2.0907	1.3262
#1	25966.	13135.	368850.
#2	26150.	13646.	360700.
#3	26037.	13197.	360320.

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.30	266680.	97.272	537.75	546.05	262490.	1014.
Stddev	.63	1169.	1.082	3.23	5.76	2306.	4.
%RSD	.29566	.43845	1.1122	.60008	1.0539	.87848	.4411
#1	214.98	265480.	97.449	535.87	542.28	262890.	1009.
#2	214.21	266730.	98.255	535.89	552.68	260010.	1016.
#3	213.72	267820.	96.113	541.47	543.20	264570.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.23	580.02	505.74	104600.	319.0	273200.	553.54
Stddev	1.77	1.60	1.27	458.	16.3	1597.	1.66
%RSD	.37708	.27571	.25017	.43811	5.113	.5846	.30031
#1	466.38	579.97	507.13	104080.	336.6	271400.	554.63
#2	468.42	581.64	505.42	104800.	304.4	274600.	554.37
#3	469.90	578.44	504.66	104930.	316.0	273500.	551.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3507	110.95	936.47	45.525	596.72	51.011	3.529
Stddev	.0914	9.89	3.12	.923	2.73	2.255	.155
%RSD	6.7687	8.9168	.33267	2.0265	.45685	4.4208	4.378
#1	1.2507	122.34	933.05	46.589	594.10	53.261	3.373
#2	1.3713	105.99	937.21	44.965	599.54	48.751	3.682
#3	1.4301	104.51	939.14	45.020	596.52	51.019	3.532
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	88.622	518.84	982.22
Stddev	.885	1.36	3.60
%RSD	.99817	.26270	.36690
#1	89.314	520.20	978.50
#2	87.625	518.85	982.45
#3	88.926	517.47	985.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25544.	13203.	361410.
Stddev	116.	49.	1737.
%RSD	.45552	.36854	.48054
#1	25645.	13152.	361350.
#2	25569.	13249.	359700.
#3	25416.	13208.	363180.

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	758.73	51855.	2498.2	9980.3	1047.3	52342.	986.8
Stddev	24.80	61.	9.1	257.1	28.1	178.	1.9
%RSD	3.2688	.11851	.36542	2.5758	2.6861	.33932	.1910
#1	761.52	51835.	2494.2	10171.	1045.5	52545.	986.1
#2	782.02	51924.	2491.7	9688.1	1076.3	52264.	985.4
#3	732.66	51805.	2508.6	10081.	1020.1	52216.	988.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4815.6	10266.	12235.	26034.	38710.	52420.	5040.0
Stddev	9.1	339.	416.	92.	30.	133.	94.7
%RSD	.18977	3.2978	3.3969	.35305	.0781	.2536	1.8781
#1	4810.1	10311.	12245.	26138.	38730.	52550.	5046.9
#2	4810.6	10579.	12646.	26001.	38720.	52410.	5131.0
#3	4826.2	9906.8	11815.	25963.	38670.	52290.	4942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	983.50	26488.	4795.3	9450.5	2448.7	1244.7	1017.
Stddev	1.80	29.	10.3	21.4	10.9	3.6	34.
%RSD	.18263	.10996	.21494	.22670	.44344	.28914	3.303
#1	982.55	26522.	4789.3	9433.2	2445.2	1244.2	1023.
#2	982.38	26473.	4789.5	9443.7	2440.0	1241.4	1047.
#3	985.57	26469.	4807.2	9474.5	2460.8	1248.6	980.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.61	2553.1	4972.3
Stddev	2.45	85.3	8.6
%RSD	.26259	3.3429	.17363
#1	932.55	2569.0	4967.0
#2	931.88	2629.3	4967.7
#3	936.42	2460.9	4982.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26168.	13413.	381100.
Stddev	32.	198.	12202.
%RSD	.12315	1.4785	3.2019
#1	26204.	13184.	381450.
#2	26158.	13534.	368720.
#3	26142.	13521.	393120.

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34962	-38.798	-.45699	.24415	.03099	-5.0739	.0174
Stddev	.34737	26.841	.45074	.54986	.01002	3.5076	.0439
%RSD	99.355	69.180	98.634	225.21	32.323	69.129	251.9
#1	.09722	-35.493	-.19911	.77732	.04238	-6.4361	-.0151
#2	.74580	-13.763	-.19440	.27613	.02706	-7.6960	.0674
#3	.20585	-67.139	-.97745	-.32100	.02353	-1.0896	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00421	-.12927	.09324	10.065	105.3	21.52	.07466
Stddev	.08100	.32455	.05558	8.256	73.5	14.88	.02163
%RSD	1923.8	251.06	59.610	82.021	69.80	69.16	28.973
#1	-.00526	.24326	.13876	.75927	77.11	11.59	.05429
#2	.08953	-.28020	.03130	12.928	50.09	38.63	.09736
#3	-.07164	-.35086	.10965	16.508	188.8	14.34	.07232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15305	8.2105	.21575	-1.2861	1.1014	.91784	-.0609
Stddev	.17253	27.320	.13198	.5238	.7677	1.0882	.1893
%RSD	112.73	332.74	61.174	40.726	69.703	118.56	310.9
#1	-.03956	30.354	.20833	-1.8342	.21800	.91352	-.0860
#2	.20528	16.597	.08763	-.79056	1.6070	2.0081	-.2364
#3	.29343	-22.319	.35128	-1.2336	1.4793	-.16815	.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.61410	.02812	.11982
Stddev	.28786	.03614	.03411
%RSD	46.875	128.52	28.463
#1	.74618	.05990	.15746
#2	.28391	.03565	.11104
#3	.81222	-.01119	.09097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28617.	13956.	404240.
Stddev	152.	576.	6778.
%RSD	.53066	4.1247	1.6768
#1	28443.	13758.	397190.
#2	28719.	13506.	404810.
#3	28691.	14605.	410710.

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41330	-25.878	-.12370	.72306	.01748	-60.167	-.1098
Stddev	.38852	31.110	1.1307	.16300	.00904	3.806	.1616
%RSD	94.004	120.22	914.02	22.544	51.690	6.3256	147.2
#1	.52184	3.0522	1.0630	.56489	.01393	-58.405	.0247
#2	.73601	-21.900	-1.1884	.89050	.02775	-57.561	-.2891
#3	-.01795	-58.786	-.24573	.71378	.01076	-64.534	-.0650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16354	-.26254	.15540	8.1662	-20.92	13.45	.16716
Stddev	.14039	.07516	.60333	15.831	20.57	3.87	.05580
%RSD	85.846	28.628	388.24	193.85	98.31	28.77	33.384
#1	.13399	-.22684	-.39632	26.416	-13.00	9.495	.20801
#2	.31636	-.21188	.79964	-1.8625	-5.493	13.62	.10357
#3	.04027	-.34889	.06288	-.05479	-44.27	17.23	.18989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49469	-35.411	.06511	-.96039	.80194	1.9879	-.0118
Stddev	.26616	13.640	.15859	1.2852	.84152	1.7473	.0926
%RSD	53.804	38.519	243.59	133.82	104.94	87.895	782.9
#1	-.33994	-23.166	.14418	-.33077	.31992	1.3449	-.1144
#2	-.80203	-32.954	.16861	-.11142	.31226	3.9656	.0654
#3	-.34211	-50.112	-.11747	-2.4390	1.7736	.65326	.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.62619	-.12815	.32771
Stddev	1.3529	.23726	.06290
%RSD	216.05	185.14	19.194
#1	1.7234	.04321	.26377
#2	1.0406	-.39896	.32986
#3	-.88543	-.02872	.38951
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29662.	14298.	422490.
Stddev	126.	106.	1364.
%RSD	.42424	.73915	.32287
#1	29656.	14196.	424030.
#2	29540.	14407.	421970.
#3	29791.	14291.	421460.

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.428	385.58	21.268	389.22	10.016	10340.	9.172
Stddev	.527	26.38	.410	2.98	.220	90.	.148
%RSD	2.5788	6.8414	1.9255	.76491	2.2002	.87069	1.619
#1	19.907	356.72	21.505	385.79	9.8358	10236.	9.343
#2	20.961	391.58	21.504	391.16	10.262	10392.	9.074
#3	20.417	408.44	20.795	390.70	9.9513	10392.	9.099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.729	20.190	47.367	219.64	10240.	10490.	30.876
Stddev	.139	.166	.720	5.55	56.	23.	.673
%RSD	.14712	.82358	1.5196	2.5279	.5481	.2221	2.1809
#1	94.879	20.002	46.853	213.44	10180.	10460.	30.288
#2	94.603	20.320	48.190	221.35	10260.	10500.	31.611
#3	94.704	20.247	47.059	224.14	10290.	10500.	30.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54793	10742.	75.300	17.304	120.16	71.296	.1423
Stddev	.22495	69.	.338	1.134	1.48	1.145	.2021
%RSD	41.055	.64563	.44881	6.5531	1.2318	1.6059	142.1
#1	-.37284	10665.	75.685	16.628	121.21	72.590	-.0330
#2	-.80164	10762.	75.166	18.613	118.47	70.417	.0965
#3	-.46932	10799.	75.050	16.670	120.80	70.880	.3634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.550	97.747	117.52
Stddev	.430	2.563	.21
%RSD	.86765	2.6220	.17918
#1	49.557	95.422	117.76
#2	49.116	100.50	117.41
#3	49.976	97.324	117.38
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28768.	14306.	412360.
Stddev	87.	70.	7061.
%RSD	.30087	.48634	1.7123
#1	28681.	14355.	418120.
#2	28767.	14337.	404490.
#3	28854.	14227.	414480.

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17276	89.939	.16119	16.904	.08930	45200.	-.0561
Stddev	.15793	54.658	.83200	.380	.01221	231.	.1355
%RSD	91.416	60.772	516.16	2.2472	13.673	.51018	241.3
#1	.26932	30.047	-.52149	16.480	.08300	44936.	-.0816
#2	.25846	102.65	1.0879	17.021	.08153	45299.	.0903
#3	-.00949	137.12	-.08286	17.212	.10337	45364.	-.1771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08492	.32499	.43099	232.50	1971.	12300.	67.656
Stddev	.15727	.17902	.42077	8.04	45.	98.	1.158
%RSD	185.20	55.085	97.628	3.4598	2.305	.8003	1.7123
#1	.09746	.41352	.91252	241.78	1919.	12200.	68.930
#2	.23554	.44250	.24628	228.20	2004.	12390.	67.369
#3	-.07824	.11895	.13417	227.52	1989.	12320.	66.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36204	36576.	.01460	.37891	2.1117	3.3380	.4186
Stddev	.16909	116.	.12162	.94583	.1047	2.3545	.0467
%RSD	46.705	.31600	832.78	249.62	4.9572	70.538	11.15
#1	-.43740	36474.	-.02829	.48276	2.0146	2.4871	.3821
#2	-.16837	36554.	.15186	-.61456	2.0978	1.5271	.4024
#3	-.48035	36702.	-.07976	1.2685	2.2226	5.9997	.4712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3316	-.05117	3.6436
Stddev	1.5050	.09580	.0410
%RSD	113.02	187.22	1.1257
#1	-.13611	-.04563	3.6791
#2	2.8713	.04174	3.5987
#3	1.2596	-.14962	3.6531
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13942.	400180.
Stddev	141.	204.	6315.
%RSD	.50503	1.4656	1.5781
#1	27946.	14150.	394590.
#2	27951.	13934.	398930.
#3	27705.	13742.	407030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.303%	102.17%	97.565%
Range			

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47375	13.931	.88298	3.6443	.04041	9021.3	-.1066
Stddev	.34170	16.405	.24722	.5044	.01736	42.8	.1175
%RSD	72.126	117.76	27.999	13.841	42.967	.47469	110.3
#1	.41440	-4.6453	1.1157	4.0339	.03109	8975.5	.0126
#2	.16562	26.432	.62346	3.0746	.06044	9028.1	-.1100
#3	.84124	20.007	.90975	3.8245	.02969	9060.4	-.2223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05146	-.01142	-.04047	49.584	484.1	2477.	13.955
Stddev	.08241	.24337	.81040	8.786	46.7	35.	.644
%RSD	160.15	2130.4	2002.4	17.720	9.648	1.401	4.6177
#1	-.14512	.20217	.26718	52.452	485.4	2450.	13.522
#2	-.01918	.03993	.57105	56.578	530.1	2464.	14.696
#3	.00992	-.27638	-.95965	39.722	436.7	2516.	13.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44157	7470.5	.14624	-.80614	1.6391	2.1090	.0692
Stddev	.23225	43.5	.19103	.89581	.6770	.7835	.0102
%RSD	52.596	.58276	130.63	111.12	41.302	37.150	14.79
#1	-.28993	7448.2	.19069	-1.0033	.86435	1.2529	.0608
#2	-.32583	7442.6	-.06310	.17185	1.9364	2.2836	.0806
#3	-.70894	7520.7	.31113	-1.5869	2.1166	2.7904	.0662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.11474	-.01160	.71736
Stddev	1.3851	.27494	.05823
%RSD	1207.2	2370.5	8.1169
#1	-.98682	-.01160	.65857
#2	1.4824	.26334	.71851
#3	-.83981	-.28653	.77501
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28789.	14072.	399740.
Stddev	293.	80.	16563.
%RSD	1.0178	.56573	4.1435
#1	28908.	13992.	408510.
#2	29004.	14151.	380640.
#3	28455.	14071.	410080.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	103.12%	97.457%
Range			

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23288	73.482	.34242	16.425	.09612	45289.	-.0943
Stddev	.17681	49.333	.16848	.871	.02002	183.	.0441
%RSD	75.922	67.136	49.203	5.3042	20.834	.40509	46.72
#1	.30457	61.826	.49521	15.723	.11916	45206.	-.0486
#2	.03149	31.021	.16173	16.152	.08295	45499.	-.1365
#3	.36258	127.60	.37032	17.400	.08624	45161.	-.0980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07368	.40689	.46759	237.85	1991.	12330.	67.602
Stddev	.16206	.06593	.46293	10.20	89.	97.	.910
%RSD	219.94	16.204	99.005	4.2875	4.444	.7874	1.3454
#1	.00206	.40846	.24049	246.06	1996.	12250.	68.630
#2	-.04022	.34018	.16205	241.06	1901.	12430.	67.276
#3	.25921	.47202	1.0002	226.44	2078.	12300.	66.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29425	36710.	.26640	-.19630	-.24008	1.1440	.6266
Stddev	.39059	136.	.19319	1.0136	.72987	.3342	.2659
%RSD	132.74	.37052	72.520	516.35	304.01	29.213	42.44
#1	-.74517	36739.	.42862	-1.1860	.36580	1.3932	.6818
#2	-.06134	36829.	.31790	.83962	-.03569	1.2746	.8605
#3	-.07622	36562.	.05267	-.24256	-1.0504	.76425	.3374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2450	.25567	2.0199
Stddev	.5423	.04502	.1648
%RSD	24.157	17.610	8.1577
#1	2.8706	.23216	2.1672
#2	1.9572	.22726	1.8419
#3	1.9073	.30758	2.0505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28157.	14221.	402020.
Stddev	123.	138.	4366.
%RSD	.43643	.97173	1.0860
#1	28031.	14061.	397100.
#2	28277.	14309.	405440.
#3	28164.	14291.	403530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.325%	104.21%	98.013%
Range			

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.836	2124.1	38.656	1918.0	49.766	42629.	46.47
Stddev	.436	47.8	.798	5.7	.897	155.	.01
%RSD	.87528	2.2489	2.0653	.29941	1.8023	.36468	.0240
#1	49.765	2069.1	38.876	1912.7	49.224	42619.	46.47
#2	50.303	2154.1	37.770	1917.2	50.802	42479.	46.47
#3	49.439	2149.3	39.321	1924.1	49.273	42789.	46.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.17	197.09	231.10	1224.1	1911.	11690.	561.75
Stddev	1.27	3.64	4.48	15.5	40.	53.	10.55
%RSD	.27364	1.8471	1.9402	1.2699	2.093	.4554	1.8777
#1	462.79	195.15	227.61	1227.5	1887.	11640.	556.06
#2	465.29	201.29	236.15	1207.1	1890.	11680.	573.92
#3	464.41	194.84	229.53	1237.6	1958.	11740.	555.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54866	34726.	461.37	17.694	97.992	99.266	.8313
Stddev	.08112	73.	1.16	.467	.167	2.420	.3032
%RSD	14.786	.21092	.25220	2.6414	.17022	2.4376	36.47
#1	-.45718	34677.	460.26	17.255	97.929	96.594	.5546
#2	-.57695	34691.	462.58	18.185	97.866	99.897	1.155
#3	-.61185	34810.	461.26	17.641	98.181	101.31	.7840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.725	485.24	484.19
Stddev	.281	8.78	.82
%RSD	.58869	1.8102	.16887
#1	47.820	479.94	483.36
#2	47.946	495.38	484.99
#3	47.408	480.40	484.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27806.	14056.	399390.
Stddev	79.	128.	8610.
%RSD	.28342	.90964	2.1559
#1	27741.	14165.	404250.
#2	27894.	14088.	389450.
#3	27783.	13916.	404480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.086%	103.01%	97.372%
Range			

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.851	421.61	19.942	401.26	10.094	53633.	9.249
Stddev	.272	44.27	1.017	2.11	.065	188.	.157
%RSD	1.3692	10.501	5.1012	.52653	.63976	.34993	1.699
#1	20.110	418.76	20.988	398.86	10.148	53420.	9.091
#2	19.876	378.83	18.956	402.84	10.113	53773.	9.250
#3	19.568	467.24	19.882	402.08	10.023	53708.	9.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.204	20.329	45.780	428.77	12150.	22230.	94.973
Stddev	.471	.242	.575	12.78	55.	82.	.762
%RSD	.50027	1.1886	1.2553	2.9815	.4519	.3683	.80270
#1	93.729	20.307	45.834	420.81	12140.	22150.	95.366
#2	94.211	20.581	45.180	421.99	12100.	22310.	95.458
#3	94.672	20.099	46.326	443.51	12210.	22240.	94.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19971	45313.	75.229	19.630	116.34	71.284	.7124
Stddev	.24229	107.	.300	.392	.73	1.205	.0774
%RSD	121.32	.23554	.39912	1.9971	.62606	1.6901	10.87
#1	.07866	45198.	74.919	20.082	115.51	71.815	.6237
#2	-.36311	45332.	75.252	19.426	116.65	69.905	.7469
#3	-.31468	45409.	75.518	19.383	116.86	72.133	.7665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.453	97.914	120.78
Stddev	.803	.410	.24
%RSD	1.6920	.41868	.19957
#1	46.527	98.257	120.54
#2	47.879	98.025	120.78
#3	47.953	97.460	121.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27692.	14101.	398620.
Stddev	127.	155.	1995.
%RSD	.45692	1.0991	.50058
#1	27546.	14220.	398270.
#2	27766.	13926.	396820.
#3	27764.	14157.	400760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	103.34%	97.183%
Range			

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27841	67.705	1.0903	14.263	.09578	40874.	-.0454
Stddev	.50970	5.030	1.6083	.410	.02038	113.	.3197
%RSD	183.08	7.4287	147.51	2.8780	21.278	.27754	703.8
#1	.30678	61.956	.29138	14.612	.11931	40773.	-.0470
#2	-.51663	69.866	.03786	13.811	.08340	40852.	.2750
#3	-.62537	71.293	2.9415	14.365	.08465	40997.	-.3643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10603	.25885	.33168	193.78	2068.	11200.	53.732
Stddev	.06871	.43896	.12701	5.13	34.	49.	.533
%RSD	64.802	169.58	38.295	2.6459	1.627	.4351	.99242
#1	.15992	.11216	.46758	193.22	2076.	11180.	54.344
#2	.12951	-.08798	.31148	199.16	2097.	11160.	53.373
#3	.02866	.75237	.21597	188.95	2031.	11250.	53.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50638	31546.	.07280	1.9358	1.2583	1.2599	.2914
Stddev	.39172	56.	.10882	.1433	1.3429	2.7765	.1025
%RSD	77.358	.17800	149.48	7.4010	106.72	220.38	35.16
#1	-.89668	31499.	.19359	2.0105	1.4952	4.3462	.1990
#2	-.50922	31532.	.04240	1.7706	-.18725	-1.0349	.4016
#3	-.11324	31608.	-.01759	2.0263	2.4669	.46828	.2736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8399	.23555	1.8348
Stddev	.4154	.42973	.0272
%RSD	22.576	182.44	1.4813
#1	1.6948	.09960	1.8281
#2	2.3084	.71681	1.8116
#3	1.5166	-.10976	1.8647
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27909.	13736.	399460.
Stddev	100.	216.	3069.
%RSD	.35896	1.5734	.76834
#1	28011.	13985.	395940.
#2	27905.	13628.	400860.
#3	27811.	13596.	401580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.450%	100.66%	97.388%
Range			

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47617	59.477	.70369	14.765	.08859	41909.	-.1209
Stddev	.34823	60.486	2.0400	.106	.01429	106.	.1014
%RSD	73.131	101.70	289.89	.71989	16.125	.25306	83.88
#1	.58843	-2.9114	2.9417	14.792	.08041	41786.	-.2237
#2	.75442	63.481	.22115	14.854	.10509	41968.	-.1179
#3	.08566	117.86	-1.0517	14.647	.08028	41972.	-.0210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04564	.09198	.09806	156.45	2145.	11490.	42.268
Stddev	.04757	.16040	.89344	12.05	22.	38.	.428
%RSD	104.24	174.38	911.10	7.7041	1.037	.3304	1.0135
#1	.00692	-.01033	-.09908	151.13	2124.	11490.	41.773
#2	-.08575	.27684	-.68034	147.98	2168.	11460.	42.523
#3	-.05808	.00944	1.0736	170.25	2143.	11530.	42.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36283	31839.	.09097	1.1526	.28516	2.2042	.2150
Stddev	.14170	148.	.15227	1.0476	2.3280	.5900	.1995
%RSD	39.055	.46578	167.38	90.896	816.40	26.768	92.79
#1	-.19923	31674.	.26584	2.2524	2.7357	2.4716	.3518
#2	-.44194	31880.	-.01234	1.0388	-1.8972	2.6133	.3070
#3	-.44731	31962.	.01942	.16643	.01699	1.5278	-.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3344	.00893	1.5870
Stddev	1.5643	.30617	.1285
%RSD	117.22	3429.0	8.0952
#1	-.01532	.31346	1.6341
#2	.96980	-.29885	1.6853
#3	3.0489	.01217	1.4416
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27765.	13918.	399520.
Stddev	78.	62.	2495.
%RSD	.28040	.44268	.62454
#1	27805.	13988.	401990.
#2	27815.	13897.	397000.
#3	27675.	13870.	399570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.942%	102.00%	97.403%
Range			

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24246	60.964	.57350	15.176	.11043	43026.	-.2111
Stddev	.45125	39.088	1.4079	.402	.01325	144.	.2472
%RSD	186.11	64.117	245.49	2.6489	11.995	.33403	117.1
#1	.68737	45.534	1.0820	14.769	.12566	42876.	-.0141
#2	-.21486	31.946	1.6565	15.573	.10396	43038.	-.4884
#3	.25486	105.41	-1.0180	15.184	.10166	43163.	-.1306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10148	.27644	-.11129	184.56	2220.	11720.	53.922
Stddev	.17469	.44430	.52789	12.57	95.	84.	.843
%RSD	172.14	160.72	474.35	6.8104	4.285	.7137	1.5637
#1	-.06025	-.07856	.37476	170.97	2171.	11650.	54.244
#2	.28675	.13320	-.03574	195.76	2159.	11810.	52.965
#3	.07794	.77469	-.67288	186.96	2330.	11690.	54.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37406	32583.	.13166	.37503	1.0445	1.1698	.5414
Stddev	.04762	90.	.20526	1.7945	2.2272	1.0430	.2638
%RSD	12.730	.27760	155.90	478.50	213.22	89.166	48.72
#1	-.42510	32498.	-.00677	2.4356	1.1530	.71411	.8318
#2	-.33083	32573.	.03427	-.46607	3.2155	.43211	.4760
#3	-.36623	32678.	.36749	-.84444	-1.2348	2.3631	.3165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98166	-.16302	1.7072
Stddev	1.4272	.22744	.0331
%RSD	145.38	139.52	1.9359
#1	-.12327	-.42551	1.7437
#2	.47527	-.03920	1.6987
#3	2.5930	-.02435	1.6793
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27629.	13904.	393210.
Stddev	131.	144.	3201.
%RSD	.47258	1.0350	.81418
#1	27623.	14066.	392230.
#2	27763.	13793.	396790.
#3	27502.	13852.	390620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.462%	101.89%	95.865%
Range			

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38104	-6.1397	-.59888	.12867	.02585	-43.514	-.1528
Stddev	.08760	20.199	.26350	.28987	.01749	1.920	.0383
%RSD	22.991	328.98	44.000	225.28	67.666	4.4127	25.04
#1	-.32223	-28.962	-.31089	.41026	.04605	-45.315	-.1296
#2	-.48172	1.1068	-.65781	.14456	.01567	-41.494	-.1969
#3	-.33917	9.4359	-.82792	-.16881	.01584	-43.735	-.1318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19167	-.00882	.27047	26.353	-67.18	20.19	1.1845
Stddev	.14063	.10266	.33486	10.803	35.13	16.33	.0701
%RSD	73.370	1164.5	123.81	40.994	52.29	80.88	5.9200
#1	.30476	-.11101	.00658	31.669	-76.75	22.08	1.2576
#2	.23603	.09431	.15766	13.922	-28.26	35.48	1.1782
#3	.03421	-.00975	.64717	33.469	-96.53	2.995	1.1178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63893	.57055	.20317	.12791	1.9323	-.61824	-.0306
Stddev	.17799	9.6825	.13409	.80381	.8294	.71913	.1110
%RSD	27.857	1697.1	65.997	628.43	42.921	116.32	363.2
#1	-.80226	-7.5945	.35782	-.66895	2.3993	-1.2251	.0350
#2	-.44923	11.267	.11941	.93850	2.4229	.17605	-.1587
#3	-.66531	-1.9613	.13227	.11417	.97472	-.80567	.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0839	-.06625	1.1096
Stddev	.8006	.01558	.0265
%RSD	73.864	23.511	2.3904
#1	.19394	-.05576	1.1329
#2	1.3122	-.05883	1.0808
#3	1.7457	-.08414	1.1152
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28834.	14186.	419130.
Stddev	55.	53.	6762.
%RSD	.18917	.37575	1.6135
#1	28892.	14241.	411630.
#2	28785.	14181.	420970.
#3	28824.	14135.	424770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.71%	103.96%	102.18%
Range			

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Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.07	2739.3	1019.7	526.50	519.74	10753.	510.1
Stddev	1.26	25.4	5.7	.40	4.98	3.	2.8
%RSD	1.1803	.92841	.56038	.07504	.95880	.03086	.5545
#1	108.46	2762.7	1014.6	526.18	523.46	10750.	507.7
#2	106.76	2742.9	1025.9	526.94	521.68	10752.	513.2
#3	105.99	2712.3	1018.6	526.38	514.08	10757.	509.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.01	532.13	503.93	10666.	10550.	6542.	538.85
Stddev	2.86	4.99	4.29	28.	48.	36.	5.21
%RSD	.56925	.93743	.85149	.26668	.4532	.5575	.96661
#1	499.45	536.47	506.66	10640.	10500.	6509.	543.13
#2	505.09	533.23	506.15	10697.	10560.	6534.	540.37
#3	501.47	526.68	498.98	10662.	10600.	6581.	533.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65374	11124.	501.26	956.49	1016.6	1047.4	-.0235
Stddev	.21687	22.	2.98	4.97	8.0	5.7	.1714
%RSD	33.173	.19799	.59432	.51937	.78551	.54691	730.0
#1	-.87522	11120.	498.42	952.48	1008.9	1044.0	.0799
#2	-.44181	11147.	504.36	962.05	1024.8	1054.0	-.2214
#3	-.64419	11103.	500.99	954.95	1016.0	1044.3	.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1013.7	515.68	1012.4
Stddev	4.6	4.53	5.2
%RSD	.45048	.87865	.51031
#1	1009.8	519.27	1008.5
#2	1018.7	517.18	1018.2
#3	1012.5	510.59	1010.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	13774.	403690.
Stddev	126.	122.	5594.
%RSD	.44784	.88725	1.3858
#1	28077.	13744.	398200.
#2	27943.	13908.	403490.
#3	28194.	13669.	409380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.023%	100.94%	98.419%
Range			

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.703	530.59	195.08	103.11	102.16	2097.3	94.63
Stddev	.269	28.11	.28	2.32	1.08	58.4	.04
%RSD	1.2379	5.2981	.14199	2.2492	1.0579	2.7867	.0389
#1	21.397	498.43	195.10	100.44	102.58	2032.6	94.67
#2	21.898	542.89	195.34	104.28	100.93	2112.9	94.61
#3	21.816	550.46	194.79	104.61	102.97	2146.3	94.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.110	105.71	101.32	2088.6	2099.	1303.	107.50
Stddev	.071	.76	1.09	44.3	48.	4.	.90
%RSD	.07206	.71436	1.0791	2.1231	2.303	.3383	.83939
#1	99.180	105.67	102.48	2037.6	2056.	1297.	107.91
#2	99.037	104.98	100.31	2109.5	2091.	1306.	106.46
#3	99.114	106.49	101.17	2118.6	2151.	1305.	108.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63638	2255.7	99.013	189.29	194.87	196.37	.0148
Stddev	.14490	66.2	.093	1.04	.64	.69	.1039
%RSD	22.769	2.9370	.09381	.55064	.32745	.35119	702.7
#1	-.49204	2179.3	98.981	188.23	195.14	197.13	.1260
#2	-.78183	2297.0	98.941	189.34	195.32	196.18	-.0798
#3	-.63527	2290.8	99.118	190.31	194.14	195.79	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	202.08	101.15	196.73
Stddev	.27	.82	.27
%RSD	.13393	.80811	.13775
#1	202.30	101.40	196.67
#2	201.78	100.23	196.49
#3	202.18	101.80	197.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28517.	14091.	406530.
Stddev	149.	320.	2296.
%RSD	.52390	2.2675	.56489
#1	28480.	14432.	403910.
#2	28390.	14042.	407450.
#3	28682.	13799.	408220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	103.26%	99.111%
Range			

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.48	2578.9	960.11	496.06	500.85	10114.	478.9
Stddev	1.20	60.2	3.98	.94	1.45	35.	.7
%RSD	1.0179	2.3357	.41464	.18859	.29033	.34251	.1525
#1	116.15	2549.4	963.58	496.13	499.87	10100.	479.7
#2	118.47	2539.1	955.77	495.09	502.52	10089.	478.3
#3	117.83	2648.2	960.99	496.96	500.17	10153.	478.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.60	505.89	476.51	10036.	9976.	6172.	512.30
Stddev	1.22	4.57	4.59	19.	99.	22.	5.22
%RSD	.25766	.90260	.96314	.19177	.9898	.3560	1.0194
#1	473.74	501.71	472.29	10045.	10070.	6159.	507.85
#2	471.32	510.76	481.40	10014.	9877.	6198.	518.05
#3	472.74	505.21	475.83	10049.	9978.	6160.	511.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70720	10558.	471.92	898.67	956.77	987.68	-.0216
Stddev	.13687	73.	.95	3.95	2.27	1.71	.0691
%RSD	19.353	.69235	.20042	.43911	.23686	.17320	320.0
#1	-.55998	10537.	473.01	903.22	959.19	989.14	.0390
#2	-.73104	10498.	471.36	896.65	956.44	985.80	-.0969
#3	-.83057	10639.	471.38	896.15	954.69	988.11	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	957.02	490.12	950.22
Stddev	3.15	5.47	2.02
%RSD	.32898	1.1157	.21241
#1	957.29	485.38	952.26
#2	953.74	496.10	948.22
#3	960.02	488.89	950.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28642.	14172.	408610.
Stddev	91.	52.	1818.
%RSD	.31789	.36862	.44489
#1	28702.	14126.	410520.
#2	28687.	14161.	406900.
#3	28538.	14229.	408390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	103.86%	99.618%
Range			

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Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126.79	4753.2	1033.2	2501.1	557.02	10396.	547.1
Stddev	2.08	74.6	2.3	8.4	12.84	36.	.8
%RSD	1.6371	1.5689	.22273	.33669	2.3044	.35072	.1438
#1	129.18	4721.2	1030.6	2491.4	570.58	10355.	546.3
#2	125.46	4700.0	1034.7	2506.1	545.06	10412.	547.8
#3	125.73	4838.5	1034.5	2505.8	555.42	10422.	547.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.04	721.23	731.62	11356.	10270.	6331.	1039.8
Stddev	.64	11.52	12.16	38.	54.	81.	17.1
%RSD	.06525	1.5977	1.6618	.33686	.5230	1.283	1.6467
#1	975.77	734.43	745.62	11312.	10240.	6242.	1059.5
#2	976.77	713.20	723.62	11370.	10330.	6348.	1029.5
#3	975.59	716.05	725.64	11385.	10240.	6402.	1030.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.90097	10847.	968.86	947.61	1089.6	1117.4	-.0822
Stddev	.05756	22.	.60	2.00	1.3	1.9	.1666
%RSD	6.3888	.20245	.06237	.21072	.12110	.17231	202.7
#1	-.83527	10827.	968.16	945.59	1089.8	1115.6	-.2719
#2	-.92507	10843.	969.26	949.58	1090.9	1119.4	-.0148
#3	-.94256	10870.	969.14	947.67	1088.3	1117.2	.0402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1038.2	1002.5	1482.8
Stddev	2.7	16.2	.9
%RSD	.26078	1.6146	.06164
#1	1039.5	1021.2	1483.6
#2	1039.9	992.44	1483.0
#3	1035.0	993.98	1481.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28744.	14148.	413700.
Stddev	76.	142.	7141.
%RSD	.26341	1.0018	1.7261
#1	28656.	14309.	405450.
#2	28792.	14042.	418010.
#3	28782.	14092.	417630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.39%	103.68%	100.86%
Range			

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.42	3049.3	1009.4	903.57	524.48	20880.	499.2
Stddev	1.09	22.1	1.6	1.62	3.47	22.	.7
%RSD	.89629	.72445	.16006	.17948	.66181	.10321	.1317
#1	120.68	3032.4	1007.5	903.66	522.12	20880.	499.6
#2	120.90	3041.2	1010.4	901.90	522.86	20858.	498.5
#3	122.67	3074.3	1010.1	905.14	528.47	20901.	499.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	576.38	533.94	530.40	10404.	20560.	16920.	549.89
Stddev	.66	4.47	3.97	34.	56.	73.	4.94
%RSD	.11442	.83759	.74938	.32331	.2738	.4292	.89905
#1	577.12	528.83	525.84	10366.	20590.	16980.	544.26
#2	575.86	535.80	533.17	10417.	20490.	16840.	551.90
#3	576.16	537.17	532.18	10429.	20580.	16950.	553.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.87357	21424.	556.21	924.29	1097.7	1082.2	.1987
Stddev	.23116	10.	.56	1.71	.6	.9	.0517
%RSD	26.461	.04526	.10075	.18475	.05507	.08327	25.99
#1	-1.1402	21413.	556.15	925.79	1097.3	1082.4	.2276
#2	-.75009	21426.	555.68	924.66	1098.4	1083.0	.1391
#3	-.73037	21432.	556.80	922.43	1097.3	1081.3	.2295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1004.9	602.79	1092.9
Stddev	4.6	5.52	.9
%RSD	.45779	.91578	.08660
#1	1009.7	596.41	1094.0
#2	1004.6	605.90	1092.3
#3	1000.5	606.05	1092.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28610.	14256.	409520.
Stddev	57.	187.	3251.
%RSD	.19751	1.3113	.79380
#1	28570.	14087.	413260.
#2	28585.	14223.	407890.
#3	28675.	14457.	407410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.92%	104.47%	99.841%
Range			

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62628	-12.951	2.2858	.39854	.04970	-31.541	-.1924
Stddev	.31606	31.055	1.0208	.40946	.01575	4.576	.0435
%RSD	50.467	239.80	44.658	102.74	31.694	14.508	22.60
#1	.26208	18.310	3.2619	.86029	.03333	-36.530	-.1750
#2	.78792	-13.366	1.2256	.25565	.05102	-30.554	-.1604
#3	.82882	-43.796	2.3697	.07967	.06475	-27.539	-.2419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01075	.94002	.13397	58.281	4.974	21.56	1.6130
Stddev	.04497	.13136	.09941	7.483	43.90	18.60	.0368
%RSD	418.38	13.974	74.208	12.840	882.7	86.30	2.2799
#1	.05460	.99086	.20737	66.576	15.66	37.61	1.6321
#2	.01291	1.0384	.02083	56.230	42.55	1.171	1.6362
#3	-.03526	.79084	.17371	52.037	-43.28	25.89	1.5706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64156	26.855	1.1702	.75154	1.5581	1.9316	.4377
Stddev	.11019	10.198	.2632	1.2090	1.2419	1.1702	.1011
%RSD	17.175	37.975	22.494	160.87	79.709	60.579	23.09
#1	-.76815	32.482	1.1311	-.42880	1.1261	.90228	.5293
#2	-.58938	15.083	1.4508	.69617	2.9583	3.2043	.3293
#3	-.56716	32.999	.92871	1.9873	.58987	1.6882	.4544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3927	.17673	5.1891
Stddev	.8847	.43238	.0512
%RSD	36.974	244.65	.98769
#1	1.4236	.65566	5.1472
#2	3.1571	-.18490	5.1739
#3	2.5975	.05944	5.2462
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28869.	14195.	411430.
Stddev	66.	127.	5477.
%RSD	.22864	.89150	1.3313
#1	28926.	14143.	417090.
#2	28885.	14340.	406150.
#3	28797.	14104.	411060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.84%	104.03%	100.31%
Range			

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27539	44.196	-.13871	-.00578	.02900	-1.9810	-.0721
Stddev	.32747	17.164	.83770	.12494	.01495	4.3780	.1657
%RSD	118.91	38.836	603.93	2160.9	51.537	221.00	229.7
#1	.32801	41.367	-.73407	-.08073	.02296	-.58541	.0358
#2	-.07520	62.599	-.50125	.13845	.04602	-6.8867	.0107
#3	.57336	28.623	.81920	-.07507	.01802	1.5291	-.2629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02446	.12539	-.14352	15.552	58.03	9.267	.37077
Stddev	.01049	.34159	.25350	5.303	9.71	6.109	.02662
%RSD	42.899	272.41	176.63	34.096	16.72	65.92	7.1808
#1	.01287	-.00176	.10682	16.434	68.19	16.16	.37491
#2	.03332	.51232	-.40007	9.8640	57.04	7.100	.39508
#3	.02718	-.13438	-.13732	20.359	48.86	4.537	.34232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53172	37.882	.18131	-.91312	1.3520	2.8671	.1133
Stddev	.19804	25.108	.07981	1.4398	1.7466	.8039	.1803
%RSD	37.246	66.278	44.019	157.68	129.18	28.041	159.2
#1	-.72326	9.8870	.21311	-2.5497	.91207	2.3544	.2018
#2	-.32776	45.355	.09050	.15890	3.2765	2.4532	-.0942
#3	-.54413	58.406	.24031	-.34859	-.13253	3.7936	.2321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01753	-.12014	1.0947
Stddev	.76454	.16016	.0702
%RSD	4360.5	133.31	6.4134
#1	.37096	-.30420	1.1247
#2	.47475	-.01250	1.0145
#3	-.89831	-.04373	1.1450
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28340.	13664.	409180.
Stddev	149.	66.	9225.
%RSD	.52681	.48550	2.2546
#1	28416.	13678.	410260.
#2	28168.	13721.	399470.
#3	28436.	13591.	417820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.969%	100.13%	99.759%
Range			

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12527	65.744	1.8819	.20715	.03172	-18.425	-.2234
Stddev	.09302	24.652	.6219	.47369	.00863	4.162	.0384
%RSD	74.255	37.496	33.047	228.67	27.198	22.586	17.20
#1	.21014	73.571	2.5998	.73544	.02804	-23.211	-.2234
#2	.02583	85.532	1.5087	-.17972	.04158	-15.659	-.1850
#3	.13984	38.129	1.5371	.06572	.02554	-16.406	-.2619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01832	.62440	.75216	35.616	-49.78	-1.942	1.4920
Stddev	.07193	.18962	.55055	.573	27.75	10.02	.0501
%RSD	392.67	30.368	73.195	1.6088	55.74	516.0	3.3568
#1	.05926	.65886	1.0773	35.697	-74.95	9.552	1.4788
#2	-.03143	.79443	.11650	35.006	-54.38	-8.844	1.5473
#3	-.08278	.41992	1.0627	36.144	-20.02	-6.534	1.4498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45951	11.098	1.1404	1.2608	2.0867	.98908	.2469
Stddev	.16974	11.903	.1666	.4478	1.4488	1.0651	.1496
%RSD	36.941	107.25	14.608	35.517	69.432	107.68	60.58
#1	-.43360	-1.1286	1.3286	1.0509	3.6697	.99602	.2185
#2	-.64071	11.776	1.0118	1.7750	1.7639	2.0507	.4086
#3	-.30420	22.648	1.0809	.95650	.82645	-.07945	.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2678	-.00098	4.9934
Stddev	.9629	.30737	.1865
%RSD	75.956	31305.	3.7343
#1	1.9242	-.34867	5.2084
#2	.16231	.23462	4.8755
#3	1.7168	.11110	4.8963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28847.	14201.	416100.
Stddev	41.	232.	8008.
%RSD	.14071	1.6313	1.9245
#1	28889.	14468.	415820.
#2	28808.	14057.	408240.
#3	28843.	14077.	424250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.76%	104.07%	101.45%
Range			

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.935	2240.2	41.146	2027.1	50.865	-29.696	48.47
Stddev	1.287	52.8	.439	4.1	.581	2.901	.23
%RSD	2.4305	2.3553	1.0677	.20045	1.1427	9.7704	.4719
#1	54.274	2243.3	40.816	2022.4	51.477	-30.875	48.68
#2	51.707	2291.3	40.977	2029.2	50.321	-31.823	48.51
#3	52.825	2185.9	41.645	2029.7	50.797	-26.391	48.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495.42	207.92	251.68	1103.2	-85.02	-6.247	537.76
Stddev	.07	2.40	2.33	6.8	33.87	23.41	5.86
%RSD	.01348	1.1527	.92579	.61482	39.84	374.7	1.0890
#1	495.46	210.62	254.06	1098.9	-86.62	-28.41	544.32
#2	495.35	206.06	249.40	1111.0	-118.1	-8.559	533.05
#3	495.47	207.06	251.59	1099.7	-50.38	18.23	535.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.92854	-1.2012	495.83	20.572	101.11	100.94	.2328
Stddev	.08491	1.4890	.23	.708	.59	.92	.0353
%RSD	9.1445	123.96	.04643	3.4395	.57910	.91580	15.15
#1	-.88630	.51737	495.56	21.388	100.49	101.78	.2081
#2	-.87304	-2.0139	495.95	20.201	101.65	99.951	.2732
#3	-1.0263	-2.1070	495.97	20.127	101.19	101.08	.2171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	52.362	498.12	505.59
Stddev	.460	5.71	.11
%RSD	.87928	1.1461	.02196
#1	51.892	504.13	505.47
#2	52.813	492.77	505.62
#3	52.380	497.46	505.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29220.	14280.	417000.
Stddev	21.	46.	4057.
%RSD	.07025	.32418	.97290
#1	29243.	14318.	412670.
#2	29202.	14228.	417610.
#3	29216.	14294.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.08%	104.65%	101.66%
Range			

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.275	471.01	21.193	387.46	10.063	10257.	9.145
Stddev	.754	40.18	.910	1.76	.097	63.	.023
%RSD	3.7206	8.5314	4.2961	.45503	.96056	.61668	.2466
#1	19.851	448.89	20.436	385.52	9.9519	10191.	9.133
#2	21.146	446.75	22.204	387.91	10.108	10317.	9.171
#3	19.827	517.40	20.941	388.96	10.129	10262.	9.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.033	21.281	48.067	240.04	10270.	10350.	32.193
Stddev	.154	.402	.484	7.21	49.	100.	.345
%RSD	.16219	1.8879	1.0078	3.0032	.4760	.9636	1.0725
#1	94.895	20.828	47.516	232.21	10220.	10240.	31.794
#2	95.199	21.418	48.429	246.39	10260.	10430.	32.382
#3	95.003	21.596	48.254	241.52	10320.	10380.	32.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55158	10733.	77.000	19.109	117.63	71.701	.5166
Stddev	.24902	49.	.197	.303	2.70	1.179	.0655
%RSD	45.147	.45635	.25640	1.5850	2.2951	1.6445	12.67
#1	-.46440	10689.	76.779	18.763	115.36	70.410	.5877
#2	-.35787	10726.	77.060	19.236	116.92	71.970	.4589
#3	-.83247	10786.	77.160	19.328	120.62	72.722	.5030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.169	98.616	122.23
Stddev	.634	.742	.10
%RSD	1.2895	.75235	.08138
#1	49.619	97.761	122.31
#2	49.443	98.998	122.12
#3	48.444	99.089	122.26
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28426.	13998.	405530.
Stddev	59.	111.	6558.
%RSD	.20775	.79452	1.6171
#1	28416.	13958.	412990.
#2	28372.	14123.	400680.
#3	28489.	13911.	402910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	102.58%	98.868%
Range			

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Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	738.96	50713.	2485.7	9999.2	1005.3	51579.	983.2
Stddev	10.21	188.	5.1	411.3	13.4	75.	1.1
%RSD	1.3812	.37025	.20667	4.1129	1.3332	.14538	.1119
#1	731.58	50516.	2482.7	9537.4	1005.4	51493.	982.7
#2	734.69	50891.	2491.6	10326.	991.88	51627.	982.5
#3	750.61	50733.	2482.8	10134.	1018.7	51618.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4809.2	9987.7	11924.	25502.	38340.	51370.	4906.2
Stddev	3.8	144.7	234.	5.	275.	92.	81.3
%RSD	.07798	1.4490	1.9652	.01959	.7167	.1787	1.6578
#1	4805.5	9885.5	11987.	25506.	38040.	51290.	4841.4
#2	4809.3	9924.2	11665.	25496.	38580.	51340.	4879.7
#3	4813.0	10153.	12120.	25504.	38400.	51470.	4997.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.52	26367.	4774.9	9401.1	2446.9	1237.7	988.4
Stddev	1.41	76.	1.9	9.5	1.3	2.0	14.3
%RSD	.14335	.28640	.03940	.10096	.05228	.16168	1.448
#1	979.74	26295.	4772.8	9390.2	2447.6	1237.9	978.5
#2	979.67	26446.	4775.7	9405.7	2445.4	1235.6	981.9
#3	982.14	26362.	4776.3	9407.5	2447.7	1239.5	1005.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	924.93	2479.4	4952.8
Stddev	3.17	36.6	4.0
%RSD	.34273	1.4757	.08065
#1	921.43	2453.8	4949.1
#2	927.59	2463.0	4957.0
#3	925.78	2521.3	4952.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26497.	13637.	391780.
Stddev	9.	301.	4977.
%RSD	.03381	2.2052	1.2704
#1	26507.	13981.	392370.
#2	26489.	13423.	396440.
#3	26496.	13507.	386540.

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Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25311	36.013	.22104	-.19056	.02473	-9.9427	-.1196
Stddev	.20765	31.420	.50284	.54072	.00418	2.5697	.0283
%RSD	82.041	87.246	227.49	283.75	16.907	25.845	23.70
#1	.36140	68.848	.48689	-.14057	.02377	-12.831	-.1489
#2	.38424	6.2301	.53515	-.75455	.02112	-9.0867	-.0923
#3	.01369	32.962	-.35893	.32343	.02932	-7.9103	-.1177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09040	.08846	.70640	11.861	86.50	20.89	.05889
Stddev	.09616	.31198	.52547	.763	33.36	20.90	.04215
%RSD	106.38	352.67	74.387	6.4316	38.57	100.1	71.567
#1	.18522	.23685	1.1434	12.732	63.83	16.58	.01087
#2	.09303	.29856	.12336	11.538	70.86	43.61	.07605
#3	-.00706	-.27002	.85245	11.312	124.8	2.482	.08975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13046	17.901	.15960	-.56311	.07534	.36022	-.0104
Stddev	.04854	19.190	.01494	.89467	1.6581	1.7154	.1736
%RSD	37.210	107.20	9.3634	158.88	2200.9	476.20	1666.
#1	.16286	18.011	.14339	.26232	-1.3487	-.82922	.0627
#2	.15388	37.036	.17283	-1.5138	1.8957	-.41671	-.2086
#3	.07465	-1.3442	.16257	-.43784	-.32096	2.3266	.1146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29869	.09040	-.00011
Stddev	.69172	.15873	.02002
%RSD	231.58	175.58	18709.
#1	-.66398	.24370	.02186
#2	.49909	.10075	-.00486
#3	-.73119	-.07325	-.01732
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28338.	13935.	409770.
Stddev	138.	74.	10352.
%RSD	.48581	.52906	2.5263
#1	28497.	13856.	412820.
#2	28257.	14002.	398240.
#3	28261.	13947.	418260.

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Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02034	41.616	-.01457	.74996	.02886	60.177	-.1244
Stddev	.81117	41.775	.78454	.51652	.01419	8.608	.1042
%RSD	3987.1	100.38	5383.0	68.874	49.160	14.305	83.74
#1	.67595	86.123	.63298	1.0579	.04503	59.132	-.0516
#2	.17407	35.473	-.88699	1.0383	.01854	52.139	-.0778
#3	-.91105	3.2522	.21029	.15363	.02299	69.260	-.2437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01753	.38801	.21091	23.224	98.72	10.33	.35979
Stddev	.16243	.23606	.16992	17.640	31.31	42.39	.07174
%RSD	926.57	60.839	80.563	75.953	31.72	410.2	19.939
#1	.16471	.19164	.21778	37.001	69.71	-31.23	.28058
#2	-.07023	.32247	.03766	29.329	131.9	8.734	.37839
#3	-.14707	.64992	.37729	3.3434	94.53	53.50	.42039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58732	28.270	.44635	-.55094	1.1906	1.6254	.2175
Stddev	.22751	18.465	.14927	1.9915	2.2837	1.0785	.1063
%RSD	38.736	65.317	33.442	361.47	191.81	66.353	48.88
#1	-.78871	8.9122	.49470	-1.0032	1.2888	1.2571	.1000
#2	-.34054	30.208	.56545	-2.2774	-1.1406	2.8398	.3071
#3	-.63272	45.689	.27890	1.6278	3.4236	.77927	.2454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.14016	-.05429	1.0812
Stddev	.28490	.14600	.0158
%RSD	203.27	268.90	1.4589
#1	-.40256	-.18743	1.0767
#2	.16288	.10183	1.0987
#3	-.18081	-.07728	1.0681
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28758.	13860.	413600.
Stddev	112.	57.	255.
%RSD	.39059	.40950	.06161
#1	28675.	13813.	413880.
#2	28713.	13923.	413550.
#3	28886.	13844.	413380.

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Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.447	416.57	18.041	386.46	9.9920	10277.	8.883
Stddev	.409	17.20	1.083	1.16	.1321	47.	.128
%RSD	2.1029	4.1283	6.0050	.29924	1.3220	.45400	1.442
#1	19.206	413.82	17.087	386.10	10.091	10237.	8.911
#2	19.216	400.92	17.816	387.76	9.8419	10328.	8.995
#3	19.919	434.98	19.219	385.53	10.043	10264.	8.743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.594	19.922	48.051	205.57	10150.	10270.	30.412
Stddev	.199	.631	.564	7.72	12.	75.	.311
%RSD	.21523	3.1683	1.1730	3.7539	.1226	.7339	1.0213
#1	92.797	20.193	48.406	196.78	10140.	10210.	30.585
#2	92.586	19.200	48.346	211.20	10140.	10350.	30.053
#3	92.399	20.372	47.402	208.74	10160.	10260.	30.597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.39731	10590.	73.538	17.484	112.54	66.880	.3681
Stddev	.23863	36.	.564	1.378	2.80	1.125	.1492
%RSD	60.061	.34080	.76714	7.8834	2.4864	1.6816	40.54
#1	-.42533	10568.	73.366	16.316	112.95	67.775	.3826
#2	-.14591	10632.	73.079	17.130	115.11	65.618	.5096
#3	-.62069	10571.	74.167	19.004	109.56	67.248	.2122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	45.556	95.881	114.49
Stddev	.119	.710	.08
%RSD	.26065	.74063	.07225
#1	45.568	96.112	114.43
#2	45.669	95.084	114.46
#3	45.432	96.447	114.59
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28492.	13949.	408810.
Stddev	167.	78.	4445.
%RSD	.58771	.55710	1.0872
#1	28303.	13993.	405270.
#2	28551.	13860.	413800.
#3	28622.	13995.	407370.

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Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13374	85683.	19.290	203.35	2.9367	10380.
Stddev	.38138	410.	.831	1.24	.0403	37.
%RSD	285.16	.47882	4.3102	.60968	1.3729	.35392
#1	-.29388	85442.	18.377	202.00	2.9067	10370.
#2	-.40895	85451.	20.003	203.61	2.9208	10350.
#3	.30160	86157.	19.490	204.43	2.9825	10421.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1516	47.402	109.27	109.15	F 181030.	5867.
Stddev	.2967	.134	.52	.67	443.	51.
%RSD	195.7	.28366	.47422	.61488	.24489	.8738
#1	.0615	47.440	108.78	108.38	180720.	5808.
#2	.4828	47.513	109.23	109.60	180850.	5898.
#3	-.0897	47.253	109.81	109.47	181540.	5896.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45610.	1436.9	1.2795	436.10	143.07	63.925
Stddev	72.	9.7	.0413	17.91	.24	1.316
%RSD	.1582	.67702	3.2238	4.1065	.16751	2.0592
#1	45530.	1427.6	1.2364	451.84	142.92	63.545
#2	45630.	1436.2	1.2837	416.62	143.35	65.389
#3	45660.	1447.0	1.3186	439.85	142.95	62.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0238	3.3869	142.1	1.7385	92.742	415.23
Stddev	.2729	.7705	2.1	1.0471	.450	.89
%RSD	9.0258	22.748	1.467	60.232	.48481	.21530
#1	2.8973	3.7589	140.1	1.9024	92.333	415.05
#2	3.3371	2.5010	144.3	.61910	92.670	416.20
#3	2.8371	3.9007	142.0	2.6941	93.224	414.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28637.	14674.	413820.
Stddev	98.	129.	2709.
%RSD	.34128	.88168	.65455
#1	28532.	14581.	416390.
#2	28654.	14822.	414070.
#3	28726.	14620.	410990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.02%	107.54%	100.89%
Range			

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Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09342	112310.	30.245	296.00	3.3156	10202.
Stddev	.08707	289.	.377	.77	.0531	20.
%RSD	93.207	.25717	1.2459	.25960	1.6022	.20005
#1	-.00664	111980.	30.680	296.77	3.3136	10181.
#2	-.18078	112410.	30.040	296.00	3.3696	10222.
#3	-.09283	112540.	30.015	295.23	3.2635	10204.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.208	79.782	165.06	137.33	F 236210.	7093.
Stddev	.261	.604	1.41	1.99	476.	31.
%RSD	21.58	.75656	.85455	1.4513	.20143	.4300
#1	1.509	79.574	166.06	137.62	236160.	7076.
#2	1.053	79.311	165.68	139.15	236710.	7074.
#3	1.062	80.463	163.45	135.20	235770.	7128.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58930.	2605.6	.81578	506.02	180.32	165.29
Stddev	230.	54.8	.13949	10.88	.62	1.67
%RSD	.3908	2.1021	17.099	2.1494	.34196	1.0107
#1	59030.	2544.6	.74457	517.70	180.06	164.18
#2	59090.	2650.5	.72627	504.19	179.87	164.49
#3	58670.	2621.8	.97651	496.17	181.02	167.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.2665	4.3703	334.8	3.0644	119.13	687.55
Stddev	2.3784	1.7644	4.4	1.5295	1.09	2.71
%RSD	55.746	40.372	1.306	49.910	.91686	.39367
#1	5.2053	2.3688	335.7	2.8442	119.50	685.68
#2	6.0323	5.7006	338.6	1.6571	120.00	686.31
#3	1.5620	5.0415	330.0	4.6921	117.91	690.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27967.	13949.	401360.
Stddev	175.	126.	2880.
%RSD	.62725	.90185	.71766
#1	28081.	14031.	399700.
#2	28056.	14012.	399690.
#3	27765.	13804.	404680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.656%	102.22%	97.851%
Range			

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Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24201	43944.	297.53	229.60	1.9529	11645.	61.12
Stddev	.42131	85.	.96	1.37	.0414	38.	.24
%RSD	174.09	.19320	.32221	.59650	2.1178	.32648	.3854
#1	-.19302	43848.	296.78	228.13	1.9981	11639.	61.32
#2	.27095	43977.	297.19	229.83	1.9171	11611.	61.19
#3	.64811	44007.	298.61	230.84	1.9434	11686.	60.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.754	5506.5	847.67	74897.	4041.	17310.	1003.1
Stddev	.102	124.8	18.34	236.	94.	133.	21.9
%RSD	.31137	2.2656	2.1637	.31458	2.314	.7687	2.1863
#1	32.767	5641.3	867.62	74857.	3934.	17240.	1026.7
#2	32.850	5395.1	831.54	74684.	4082.	17220.	983.38
#3	32.647	5483.1	843.85	75150.	4108.	17460.	999.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6452	532.36	64.469	1120.7	93.476	4.3225	195.7
Stddev	.1850	21.60	.134	.8	2.452	1.3784	4.8
%RSD	11.246	4.0582	.20781	.06745	2.6227	31.890	2.455
#1	1.8426	542.52	64.622	1120.3	90.734	3.8141	201.0
#2	1.4757	547.02	64.415	1121.6	95.457	3.2705	191.6
#3	1.6174	507.55	64.371	1120.2	94.235	5.8830	194.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8247	53.078	5348.3
Stddev	.5720	.820	11.0
%RSD	20.251	1.5452	.20606
#1	2.3229	53.996	5357.7
#2	2.7038	52.418	5350.9
#3	3.4476	52.819	5336.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28222.	14158.	406460.
Stddev	80.	200.	9811.
%RSD	.28338	1.4109	2.4137
#1	28269.	14039.	395980.
#2	28130.	14046.	415420.
#3	28268.	14389.	407990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.555%	103.75%	99.095%
Range			

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Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02838	86846.	22.875	473.06	3.4030	20696.	.7024
Stddev	.13514	2239.	.284	13.79	.1639	555.	.1457
%RSD	476.16	2.5783	1.2431	2.9161	4.8157	2.6793	20.75
#1	.11955	88371.	22.723	482.98	3.5001	21094.	.7483
#2	-.14536	87891.	23.203	478.90	3.2138	20931.	.8196
#3	-.05933	84275.	22.699	457.31	3.4952	20063.	.5392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.951	342.99	134.36	102370.	7600.	27060.	1580.6
Stddev	.181	12.64	4.97	2708.	237.	654.	61.2
%RSD	.41099	3.6842	3.6992	2.6454	3.123	2.415	3.8716
#1	43.746	349.90	137.44	104130.	7821.	27520.	1616.4
#2	44.086	328.40	128.63	103740.	7629.	27350.	1509.9
#3	44.022	350.65	137.02	99256.	7349.	26310.	1615.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4709	766.52	100.05	355.11	2.9728	4.5314	221.2
Stddev	.2651	39.88	.30	1.57	.6422	.8040	9.6
%RSD	18.026	5.2021	.30334	.44281	21.602	17.743	4.337
#1	1.7719	793.15	100.12	354.93	3.2390	3.6090	226.4
#2	1.3686	785.74	100.31	353.64	2.2403	5.0837	210.1
#3	1.2721	720.68	99.713	356.77	3.4391	4.9015	227.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.96231	93.384	366.58
Stddev	1.5029	3.623	.48
%RSD	156.18	3.8796	.13194
#1	2.6421	95.328	366.47
#2	.50003	89.204	366.15
#3	-.25516	95.620	367.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28980.	14297.	413580.
Stddev	61.	336.	11761.
%RSD	.20883	2.3535	2.8437
#1	28939.	13966.	406210.
#2	29050.	14286.	427140.
#3	28952.	14639.	407370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.23%	104.77%	100.83%
Range			

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Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33991	47936.	77.088	256.13	1.8688	10425.	7.482
Stddev	.11544	3871.	1.839	21.11	.0756	852.	.206
%RSD	33.961	8.0761	2.3859	8.2414	4.0479	8.1729	2.757
#1	-.23920	44548.	75.824	237.04	1.8190	9684.0	7.561
#2	-.31465	52156.	79.198	278.80	1.9558	11356.	7.248
#3	-.46589	47105.	76.241	252.55	1.8315	10234.	7.638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.814	2487.1	242.93	59507.	3842.	15120.	907.42
Stddev	.085	95.4	9.77	4807.	275.	1201.	34.96
%RSD	.31839	3.8367	4.0230	8.0782	7.166	7.942	3.8525
#1	26.806	2423.7	236.47	55288.	3610.	14050.	883.65
#2	26.903	2596.8	254.18	64741.	4146.	16420.	947.56
#3	26.733	2440.7	238.15	58493.	3769.	14870.	891.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0470	445.02	58.619	543.44	-.96623	4.6233	210.4
Stddev	.1063	50.01	.369	1.60	3.3468	1.0010	7.7
%RSD	10.150	11.239	.62881	.29488	346.38	21.651	3.643
#1	.92877	403.87	58.391	542.97	-.46966	3.8662	205.5
#2	1.0778	500.68	59.044	545.22	-4.5336	4.2456	219.2
#3	1.1345	430.50	58.421	542.12	2.1046	5.7582	206.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7094	56.121	1004.3
Stddev	1.0897	2.197	2.1
%RSD	63.748	3.9155	.21228
#1	2.7562	54.898	1002.8
#2	.58137	58.658	1006.8
#3	1.7905	54.808	1003.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28735.	14965.	411360.
Stddev	106.	943.	14170.
%RSD	.36792	6.3025	3.4448
#1	28833.	15778.	419420.
#2	28623.	13931.	394990.
#3	28748.	15185.	419660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.36%	109.67%	100.29%
Range			

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Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10175	10356.	15.412	55.296	.39971	2240.8	1.334
Stddev	.21418	79.	.626	.266	.00830	14.3	.140
%RSD	210.51	.76474	4.0614	.48022	2.0769	.63788	10.52
#1	.00256	10276.	15.661	55.055	.40654	2234.3	1.326
#2	.04030	10357.	14.699	55.251	.40211	2231.0	1.197
#3	-.34810	10434.	15.875	55.581	.39047	2257.2	1.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4538	495.30	49.307	12830.	791.7	3273.	183.48
Stddev	.0318	4.81	.583	28.	36.8	39.	1.56
%RSD	.58363	.97177	1.1828	.21950	4.645	1.185	.85066
#1	5.4430	500.62	49.777	12822.	796.8	3318.	185.18
#2	5.4897	491.24	48.655	12806.	752.6	3252.	182.12
#3	5.4289	494.03	49.490	12861.	825.6	3249.	183.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05380	82.650	12.153	112.05	.92886	.97821	43.78
Stddev	.10960	6.618	.100	1.60	1.2156	1.1816	.22
%RSD	203.73	8.0068	.82532	1.4318	130.87	120.80	.5072
#1	.06195	82.741	12.175	113.90	-.47327	-.35858	44.00
#2	-.15598	75.987	12.240	111.14	1.5726	1.8833	43.79
#3	-.06737	89.221	12.043	111.10	1.6872	1.4099	43.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1748	11.324	202.94
Stddev	.0488	.123	.43
%RSD	4.1563	1.0846	.21108
#1	1.1346	11.304	202.66
#2	1.2292	11.213	202.74
#3	1.1607	11.456	203.43
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28450.	13761.	411030.
Stddev	37.	51.	3341.
%RSD	.13150	.36917	.81280
#1	28408.	13820.	407490.
#2	28463.	13732.	414120.
#3	28479.	13732.	411500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.36%	100.85%	100.21%
Range			

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Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06320	86927.	174.11	466.03	3.2147	17808.	20.88
Stddev	.51988	234.	1.06	.23	.0418	17.	.12
%RSD	822.56	.26876	.60642	.05035	1.3003	.09498	.5510
#1	-.19822	86724.	175.10	465.85	3.2512	17793.	20.75
#2	-.50225	86875.	173.00	466.30	3.2237	17805.	20.91
#3	.51086	87183.	174.23	465.95	3.1691	17827.	20.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.032	6256.9	515.33	102050.	8454.	25640.	1497.3
Stddev	.098	74.7	5.94	187.	38.	130.	16.7
%RSD	.21850	1.1939	1.1525	.18340	.4539	.5085	1.1152
#1	45.033	6333.9	521.09	102030.	8439.	25700.	1514.7
#2	44.933	6251.9	515.67	101880.	8425.	25490.	1495.8
#3	45.130	6184.8	509.23	102250.	8498.	25740.	1481.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2762	791.37	97.082	1052.2	.22482	8.0145	265.2
Stddev	.0564	30.21	.156	5.1	3.9678	1.1535	3.3
%RSD	2.4783	3.8169	.16042	.48014	1764.9	14.393	1.253
#1	2.3103	774.73	97.261	1047.6	-3.7013	7.6945	268.0
#2	2.3072	826.24	96.996	1051.5	.14269	7.0547	265.9
#3	2.2111	773.15	96.987	1057.6	4.2331	9.2942	261.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5261	98.753	2601.3
Stddev	.2558	1.258	5.5
%RSD	16.763	1.2738	.21275
#1	1.5281	100.06	2600.8
#2	1.2693	98.647	2596.0
#3	1.7810	97.552	2607.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28792.	14892.	424940.
Stddev	127.	212.	4893.
%RSD	.44198	1.4226	1.1515
#1	28692.	15127.	420220.
#2	28935.	14832.	424610.
#3	28750.	14716.	429990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.57%	109.13%	103.60%
Range			

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Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.757	99348.	266.45	4169.5	101.95	19466.	109.6
Stddev	2.112	490.	1.36	18.2	1.89	91.	.1
%RSD	2.2766	.49335	.50956	.43646	1.8542	.46696	.1321
#1	95.137	98800.	267.99	4156.1	104.10	19370.	109.5
#2	91.108	99499.	265.42	4162.1	100.57	19477.	109.5
#3	92.026	99745.	265.94	4190.2	101.16	19551.	109.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	937.29	6011.3	1070.8	111810.	8622.	27960.	2577.7
Stddev	2.10	111.4	18.9	515.	25.	133.	39.9
%RSD	.22395	1.8534	1.7646	.46029	.2862	.4752	1.5477
#1	938.33	6139.4	1092.4	111260.	8645.	27850.	2618.6
#2	934.87	5937.6	1057.3	111880.	8596.	27930.	2575.7
#3	938.66	5956.7	1062.8	112280.	8624.	28110.	2538.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3413	786.31	988.67	1134.0	49.072	182.29	317.8
Stddev	.1320	7.58	1.01	1.9	2.981	2.36	6.3
%RSD	5.6380	.96441	.10240	.17017	6.0754	1.2964	1.968
#1	2.2051	795.07	988.62	1134.9	47.012	182.66	325.0
#2	2.4687	781.94	987.68	1131.8	47.714	179.76	314.2
#3	2.3500	781.94	989.70	1135.3	52.491	184.45	314.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	89.557	1023.4	3428.0
Stddev	1.400	18.2	5.1
%RSD	1.5631	1.7800	.14998
#1	91.112	1044.3	3432.8
#2	88.398	1010.7	3422.6
#3	89.161	1015.3	3428.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29382.	15143.	428890.
Stddev	119.	90.	6275.
%RSD	.40548	.59110	1.4631
#1	29277.	15057.	421670.
#2	29512.	15136.	433090.
#3	29356.	15236.	431900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.65%	110.97%	104.56%
Range			

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Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.152	49150.	94.865	653.29	12.235	20913.	16.50
Stddev	1.115	134.	.856	1.46	.477	64.	.08
%RSD	5.5308	.27265	.90188	.22380	3.8955	.30826	.5011
#1	19.446	49039.	95.316	651.61	11.896	20964.	16.42
#2	19.573	49299.	95.400	653.98	12.028	20935.	16.51
#3	21.437	49110.	93.878	654.28	12.780	20840.	16.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119.49	2430.8	284.31	60835.	14210.	25540.	911.38
Stddev	.38	91.0	11.03	218.	87.	126.	34.40
%RSD	.32204	3.7454	3.8807	.35903	.6138	.4917	3.7748
#1	119.74	2365.9	276.30	61001.	14240.	25650.	886.76
#2	119.04	2391.5	279.73	60917.	14280.	25550.	896.70
#3	119.68	2534.8	296.89	60588.	14110.	25400.	950.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85285	11282.	130.70	539.98	117.09	72.637	205.6
Stddev	.21007	4.	.56	1.04	3.15	.918	7.6
%RSD	24.632	.03928	.42951	.19320	2.6936	1.2640	3.678
#1	.92944	11285.	131.19	541.16	120.71	73.697	200.2
#2	1.0139	11284.	130.09	539.21	115.57	72.075	202.3
#3	.61523	11277.	130.83	539.55	114.98	72.140	214.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.542	153.68	1087.8
Stddev	1.601	5.72	1.8
%RSD	3.3670	3.7233	.16950
#1	48.430	149.45	1089.5
#2	45.694	151.40	1085.9
#3	48.503	160.19	1088.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28495.	14504.	410110.
Stddev	68.	52.	15813.
%RSD	.23759	.36047	3.8558
#1	28437.	14461.	421130.
#2	28479.	14562.	417210.
#3	28570.	14488.	391990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.52%	106.29%	99.985%
Range			

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Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2935	83952.	31.086	408.80	3.4080	26743.	17.99
Stddev	.2972	327.	.423	.73	.0331	35.	.14
%RSD	22.977	.38956	1.3616	.17958	.97098	.13179	.7658
#1	1.2630	83577.	30.734	408.76	3.4042	26704.	18.02
#2	1.6049	84100.	30.969	408.08	3.3770	26753.	18.11
#3	1.0128	84179.	31.556	409.55	3.4429	26772.	17.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.927	1031.4	738.77	118520.	9387.	31320.	1558.5
Stddev	.179	6.0	6.31	163.	20.	105.	10.5
%RSD	.30360	.58473	.85461	.13752	.2142	.3337	.67559
#1	58.724	1026.9	733.27	118330.	9399.	31330.	1550.1
#2	58.996	1029.2	737.36	118630.	9363.	31210.	1555.2
#3	59.062	1038.3	745.66	118600.	9397.	31410.	1570.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3593	1054.9	145.38	1370.5	6.1936	7.4959	329.5
Stddev	.1219	11.2	.20	3.9	1.1649	2.1577	1.3
%RSD	8.9696	1.0632	.13803	.28229	18.808	28.785	.3918
#1	1.3763	1042.0	145.17	1369.9	5.1066	8.7793	328.5
#2	1.2298	1060.3	145.39	1366.9	7.4233	5.0048	329.1
#3	1.4719	1062.4	145.57	1374.6	6.0511	8.7036	330.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4207	112.67	2138.8
Stddev	.8962	.78	4.8
%RSD	63.081	.69197	.22567
#1	2.1717	111.91	2137.8
#2	1.6616	112.64	2134.5
#3	.42865	113.47	2144.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29255.	14810.	418350.
Stddev	156.	116.	1563.
%RSD	.53388	.78582	.37357
#1	29113.	14732.	416540.
#2	29422.	14944.	419300.
#3	29228.	14755.	419190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.20%	108.53%	101.99%
Range			

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Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09066	51440.	67.537	273.00	1.9584	12176.	.9854
Stddev	.17804	843.	.675	4.45	.0470	185.	.1249
%RSD	196.38	1.6396	.99885	1.6317	2.4002	1.5225	12.68
#1	-.00734	50479.	67.653	267.91	1.9928	11965.	1.005
#2	-.29508	52056.	68.147	276.15	1.9776	12251.	.8520
#3	.03044	51786.	66.813	274.95	1.9049	12312.	1.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.127	2927.8	312.27	65006.	4272.	16630.	902.84
Stddev	.231	47.8	3.90	981.	69.	217.	14.12
%RSD	.76643	1.6323	1.2499	1.5096	1.616	1.307	1.5644
#1	30.117	2954.9	314.60	63883.	4193.	16400.	910.02
#2	29.902	2955.9	314.44	65432.	4303.	16670.	911.93
#3	30.363	2872.6	307.76	65702.	4320.	16830.	886.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5010	615.61	63.638	650.82	-1.5354	5.9284	187.6
Stddev	.1157	17.10	.154	1.71	3.1344	1.5218	3.2
%RSD	7.7053	2.7773	.24250	.26337	204.14	25.669	1.714
#1	1.5261	595.89	63.745	649.28	-.25973	7.2219	189.0
#2	1.6021	626.18	63.461	650.50	-5.1065	6.3115	189.9
#3	1.3749	624.77	63.707	652.67	.76004	4.2516	183.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3309	55.798	419.05
Stddev	.1724	.872	.16
%RSD	7.3982	1.5624	.03772
#1	2.1384	56.433	418.94
#2	2.3830	56.156	418.98
#3	2.4712	54.804	419.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28964.	14080.	410730.
Stddev	78.	101.	6118.
%RSD	.26939	.71857	1.4895
#1	28942.	14195.	408280.
#2	28900.	14003.	406210.
#3	29051.	14043.	417690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.17%	103.19%	100.14%
Range			

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Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42596	58142.	233.49	298.91	2.3137	13900.	51.32
Stddev	.26469	52.	1.86	.31	.0286	54.	.05
%RSD	62.140	.08893	.79687	.10289	1.2344	.38595	.0910
#1	.18409	58118.	233.14	298.56	2.2901	13844.	51.36
#2	.70871	58201.	231.83	299.13	2.3455	13903.	51.32
#3	.38506	58106.	235.50	299.03	2.3056	13951.	51.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.257	8099.7	942.81	82194.	5517.	18530.	981.00
Stddev	.212	58.2	8.65	137.	75.	58.	6.98
%RSD	.58590	.71808	.91705	.16707	1.353	.3117	.71110
#1	36.496	8046.1	933.91	82036.	5526.	18560.	974.19
#2	36.185	8161.5	951.17	82263.	5587.	18460.	988.13
#3	36.090	8091.4	943.34	82282.	5439.	18560.	980.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0758	731.02	75.505	1441.9	73.521	8.6889	226.5
Stddev	.2792	15.35	.162	.5	1.147	.2606	1.9
%RSD	9.0769	2.0994	.21506	.03374	1.5598	2.9997	.8479
#1	3.0237	738.46	75.343	1441.4	74.587	8.9158	224.7
#2	3.3774	741.23	75.667	1442.3	73.668	8.4042	228.5
#3	2.8264	713.37	75.505	1442.2	72.308	8.7467	226.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.9819	68.981	4521.4
Stddev	.4251	.692	7.6
%RSD	14.257	1.0033	.16722
#1	2.4911	68.306	4529.0
#2	3.2340	69.689	4521.3
#3	3.2207	68.948	4513.9
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28510.	14316.	419490.
Stddev	13.	56.	3059.
%RSD	.04408	.38795	.72919
#1	28523.	14287.	420960.
#2	28498.	14280.	415970.
#3	28507.	14380.	421530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	104.91%	102.27%
Range			

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Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35730	39896.	11.868	235.14	1.5454	25095.	1.955
Stddev	.39568	238.	.566	.66	.0068	140.	.132
%RSD	110.74	.59565	4.7661	.28171	.44191	.55711	6.769
#1	.81366	39784.	11.308	234.39	1.5474	24934.	2.091
#2	.14828	39736.	11.858	235.63	1.5378	25186.	1.947
#3	.10996	40169.	12.439	235.41	1.5511	25165.	1.827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.998	65.790	124.90	59922.	4710.	20620.	1522.0
Stddev	.211	.416	1.01	246.	65.	145.	11.1
%RSD	.88120	.63253	.80656	.41094	1.390	.7051	.72887
#1	23.786	66.056	125.76	59647.	4641.	20450.	1530.7
#2	23.997	65.310	123.79	59997.	4718.	20700.	1509.5
#3	24.209	66.002	125.15	60122.	4771.	20700.	1525.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.91216	953.85	58.981	273.45	1.8621	3.5054	187.6
Stddev	.20097	11.39	.321	1.88	.5338	1.0577	1.2
%RSD	22.032	1.1940	.54401	.68731	28.667	30.174	.6496
#1	1.1314	941.14	59.347	274.35	1.6158	2.6189	188.8
#2	.73671	963.13	58.848	274.70	2.4746	4.6762	186.3
#3	.86835	957.29	58.748	271.28	1.4960	3.2210	187.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2685	60.668	490.63
Stddev	1.3198	.723	.36
%RSD	104.05	1.1924	.07289
#1	1.0061	61.012	490.87
#2	2.6998	59.837	490.22
#3	.09957	61.155	490.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29010.	14363.	411720.
Stddev	90.	140.	1660.
%RSD	.31028	.97606	.40311
#1	28906.	14471.	410190.
#2	29061.	14413.	413480.
#3	29063.	14205.	411500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.33%	105.26%	100.38%
Range			

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Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.6778	86346.	32.158	604.48	3.4383	43710.	11.41
Stddev	.1271	324.	1.689	2.13	.0520	30.	.02
%RSD	1.6559	.37513	5.2511	.35198	1.5130	.06886	.1503
#1	7.7919	86656.	32.448	606.07	3.4307	43744.	11.41
#2	7.5407	86374.	33.683	605.30	3.4937	43688.	11.39
#3	7.7007	86010.	30.343	602.06	3.3905	43697.	11.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.924	340.88	539.93	142810.	9578.	40980.	2567.1
Stddev	.225	4.72	6.83	296.	81.	65.	51.5
%RSD	.38853	1.3857	1.2655	.20716	.8429	.1580	2.0069
#1	57.886	340.53	538.98	142950.	9602.	40930.	2528.6
#2	57.721	345.76	547.19	143020.	9644.	40960.	2625.6
#3	58.166	336.33	533.63	142470.	9488.	41060.	2547.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0445	1043.0	164.20	1035.6	7.0377	8.2046	337.4
Stddev	.2485	6.0	.26	3.4	1.3099	.7973	4.7
%RSD	6.1448	.57802	.16021	.32393	18.613	9.7172	1.399
#1	3.8060	1043.2	164.10	1039.0	7.7404	8.5900	338.2
#2	4.0256	1048.9	164.50	1035.4	5.5264	7.2879	341.7
#3	4.3020	1036.8	164.01	1032.3	7.8463	8.7360	332.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.2598	142.41	1900.2
Stddev	1.3112	2.19	2.4
%RSD	40.224	1.5411	.12704
#1	1.7609	142.33	1898.6
#2	3.8243	144.65	1899.1
#3	4.1943	140.26	1903.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29230.	14641.	415060.
Stddev	70.	71.	5682.
%RSD	.23785	.48446	1.3689
#1	29225.	14577.	416910.
#2	29301.	14630.	408690.
#3	29163.	14717.	419590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.11%	107.30%	101.19%
Range			

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Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0517	50504.	18.229	325.41	1.9968	28102.	5.997
Stddev	.4907	36.	.820	1.55	.0629	119.	.018
%RSD	12.111	.07179	4.5008	.47740	3.1501	.42375	.2990
#1	4.5667	50507.	19.122	325.95	2.0071	28105.	5.998
#2	3.5896	50539.	17.509	326.62	1.9294	28219.	5.979
#3	3.9987	50467.	18.056	323.66	2.0539	27981.	6.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.126	183.37	253.16	82038.	5703.	25150.	1961.1
Stddev	.170	3.98	5.75	322.	80.	111.	31.3
%RSD	.52776	2.1730	2.2703	.39263	1.403	.4426	1.5967
#1	32.166	183.40	253.80	81977.	5618.	25190.	1943.8
#2	32.272	179.38	247.11	82386.	5716.	25230.	1942.2
#3	31.940	187.35	258.56	81750.	5776.	25020.	1997.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1836	812.68	111.51	390.58	5.0915	6.7554	198.8
Stddev	.2278	1.80	.25	1.14	.5794	.7300	4.5
%RSD	5.4440	.22205	.22616	.29239	11.380	10.806	2.258
#1	4.4465	814.15	111.72	391.89	5.7184	6.0162	199.3
#2	4.0566	813.23	111.23	390.02	4.9803	6.7740	194.1
#3	4.0476	810.67	111.56	389.82	4.5757	7.4759	203.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3549	91.005	1050.9
Stddev	1.1210	2.139	.6
%RSD	47.602	2.3502	.05636
#1	3.5405	90.983	1050.3
#2	2.2118	88.878	1051.4
#3	1.3123	93.156	1051.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28975.	14696.	417660.
Stddev	32.	48.	9511.
%RSD	.11092	.32935	2.2772
#1	28958.	14746.	420720.
#2	29012.	14649.	425270.
#3	28954.	14693.	407000.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.21%	107.70%	101.83%
Range			

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Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05690	92236.	23.846	260.61	3.1016	8062.0
Stddev	.43448	183.	1.150	.72	.0233	30.4
%RSD	763.54	.19883	4.8244	.27578	.74982	.37705
#1	-.07969	92168.	24.548	259.96	3.1043	8078.1
#2	.54327	92095.	22.518	260.49	3.1233	8026.9
#3	-.29287	92443.	24.472	261.38	3.0770	8080.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3593	69.730	125.37	110.58	F 204550.	6955.
Stddev	.0967	.156	.66	.96	769.	46.
%RSD	26.91	.22431	.53010	.86639	.37595	.6580
#1	.3477	69.581	125.40	110.53	204820.	7005.
#2	.2689	69.893	126.02	111.56	203680.	6915.
#3	.4612	69.716	124.70	109.65	205140.	6946.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41890.	2168.7	.47372	474.17	147.12	124.70
Stddev	107.	27.0	.11841	20.87	.59	.45
%RSD	.2542	1.2469	24.997	4.4013	.40198	.36337
#1	41910.	2197.7	.40586	469.31	147.66	125.07
#2	41770.	2164.0	.61045	497.05	146.49	124.84
#3	41980.	2144.3	.40485	456.17	147.21	124.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.8254	3.4012	202.3	2.8913	96.020	525.18
Stddev	.7292	2.7228	2.2	.5594	.670	.65
%RSD	19.062	80.055	1.072	19.348	.69736	.12291
#1	3.9475	1.9556	203.1	3.5360	96.336	525.50
#2	3.0429	6.5419	204.0	2.5346	96.473	524.43
#3	4.4859	1.7061	199.9	2.6033	95.250	525.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	14002.	404010.
Stddev	162.	38.	1779.
%RSD	.57676	.27433	.44032
#1	27897.	14035.	403850.
#2	28217.	14011.	402310.
#3	28099.	13960.	405860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.020%	102.61%	98.497%
Range			

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Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31375	101960.	41.212	297.78	3.7734	32594.
Stddev	.30736	184.	1.097	1.21	.0169	40.
%RSD	97.964	.18060	2.6611	.40562	.44892	.12191
#1	-.66411	102140.	40.180	298.98	3.7579	32561.
#2	-.08952	101770.	42.364	297.81	3.7914	32638.
#3	-.18762	101960.	41.091	296.56	3.7707	32584.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.765	77.338	235.56	197.09	F 219120.	9915.
Stddev	.058	.290	1.83	1.37	472.	67.
%RSD	2.093	.37529	.77511	.69281	.21522	.6724
#1	2.704	77.004	235.60	196.93	218840.	9883.
#2	2.771	77.524	237.37	198.54	219670.	9992.
#3	2.820	77.487	233.72	195.82	218860.	9871.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59100.	2266.7	3.0610	821.14	173.37	240.83
Stddev	383.	31.2	.3815	10.85	.18	.62
%RSD	.6480	1.3781	12.463	1.3216	.10549	.25654
#1	58890.	2254.4	2.9450	826.15	173.33	241.01
#2	59550.	2302.2	3.4871	808.69	173.20	241.35
#3	58870.	2243.4	2.7510	828.59	173.57	240.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53886	3.9287	667.1	1.2798	134.38	1074.0
Stddev	2.3811	.1245	6.5	.7661	1.14	1.5
%RSD	441.87	3.1688	.9793	59.860	.84827	.13747
#1	3.1444	4.0704	669.8	2.1583	134.93	1074.0
#2	-.00379	3.8789	671.8	.75022	135.14	1072.5
#3	-1.5241	3.8368	659.6	.93098	133.07	1075.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28430.	14096.	407820.
Stddev	105.	275.	5097.
%RSD	.36936	1.9504	1.2499
#1	28387.	13927.	405970.
#2	28353.	14414.	403900.
#3	28550.	13948.	413580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.29%	103.30%	99.426%
Range			

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Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42123	137750.	18.426	273.91	4.5550	14322.
Stddev	.32391	489.	.631	1.35	.0522	17.
%RSD	76.896	.35534	3.4244	.49309	1.1448	.11731
#1	-.15552	138200.	18.967	272.90	4.5087	14304.
#2	-.32612	137230.	18.578	273.38	4.6115	14324.
#3	-.78205	137830.	17.733	275.44	4.5448	14337.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.081	94.165	211.29	164.54	F 294250.	9837.
Stddev	.137	.135	1.94	2.15	122.	24.
%RSD	6.574	.14366	.91785	1.3077	.04148	.2460
#1	2.141	94.022	209.29	162.50	294210.	9817.
#2	2.177	94.291	213.16	166.79	294160.	9829.
#3	1.924	94.182	211.42	164.33	294390.	9864.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70440.	2415.2	.35060	443.42	237.01	146.38
Stddev	157.	51.0	.48378	21.66	.40	1.73
%RSD	.2227	2.1130	137.99	4.8854	.17048	1.1839
#1	70440.	2406.1	-.05708	422.74	237.01	144.39
#2	70290.	2470.1	.22370	441.58	236.60	147.17
#3	70600.	2369.3	.88519	465.94	237.41	147.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1231	3.2783	225.0	2.6441	138.66	1000.3
Stddev	1.4341	2.8814	2.6	1.6760	1.41	1.2
%RSD	127.70	87.893	1.136	63.387	1.0200	.11758
#1	-.26091	.45336	222.4	3.4004	137.17	999.65
#2	1.0275	3.1685	227.5	3.8086	139.98	999.59
#3	2.6026	6.2130	225.2	.72320	138.84	1001.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28735.	14426.	408670.
Stddev	90.	71.	3775.
%RSD	.31273	.49421	.92377
#1	28771.	14472.	411850.
#2	28802.	14344.	404500.
#3	28633.	14462.	409660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.37%	105.72%	99.634%
Range			

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Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	753.96	50958.	2484.4	9916.9	1048.6	51950.	980.1
Stddev	12.91	144.	6.3	146.7	15.0	254.	.8
%RSD	1.7126	.28190	.25533	1.4795	1.4274	.48797	.0838
#1	761.75	50975.	2486.1	10053.	1042.0	52160.	979.4
#2	761.08	50807.	2477.3	9936.4	1065.7	51668.	980.1
#3	739.06	51093.	2489.6	9761.3	1038.1	52021.	981.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4785.4	10165.	12190.	25476.	39430.	51240.	5029.1
Stddev	5.7	191.	182.	146.	263.	327.	84.3
%RSD	.11975	1.8799	1.4965	.57273	.6679	.6380	1.6761
#1	4781.8	10285.	12142.	25591.	39590.	51430.	5115.4
#2	4782.5	10265.	12391.	25312.	39120.	50870.	5024.9
#3	4792.0	9944.6	12036.	25525.	39570.	51430.	4947.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.58	26914.	4771.4	9352.5	2443.3	1240.4	1013.
Stddev	1.33	184.	4.8	7.5	4.9	2.5	19.
%RSD	.13551	.68184	.10114	.07971	.20087	.20039	1.835
#1	979.65	27067.	4766.0	9347.4	2442.5	1241.9	1024.
#2	980.00	26711.	4772.7	9349.0	2438.9	1237.5	1024.
#3	982.10	26966.	4775.3	9361.0	2448.6	1241.7	991.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	919.54	2536.7	4913.6
Stddev	1.56	47.4	5.0
%RSD	.16927	1.8678	.10193
#1	917.79	2563.8	4910.7
#2	920.78	2564.4	4910.8
#3	920.04	2482.0	4919.4
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26857.	13542.	392030.
Stddev	60.	40.	4769.
%RSD	.22249	.29295	1.2165
#1	26799.	13497.	388290.
#2	26852.	13569.	390400.
#3	26919.	13561.	397400.

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Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20581	14.750	-.61863	.96821	.01005	-2.1797	-.0292
Stddev	.30098	12.382	.61134	.70684	.01812	2.8416	.1645
%RSD	146.24	83.950	98.820	73.004	180.26	130.37	563.9
#1	.54839	22.593	.00442	1.7530	-.00171	-3.7957	-.2030
#2	.08518	21.181	-1.2175	.76996	.03093	1.1014	.1241
#3	-.01614	.47493	-.64279	.38167	.00095	-3.8449	-.0086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00833	-.13026	-.30765	2.5948	-7.697	15.80	.09039
Stddev	.17733	.22102	.53945	9.4604	68.72	15.03	.03185
%RSD	2128.3	169.67	175.34	364.59	892.8	95.09	35.237
#1	-.21225	-.15798	-.38544	-8.2703	-86.56	26.81	.08159
#2	.07758	.10331	.26647	9.0085	39.28	-1.316	.06387
#3	.10968	-.33612	-.80399	7.0462	24.19	21.90	.12571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01247	-27.995	-.03679	-.16022	1.2103	.71047	-.1994
Stddev	.18920	12.918	.09543	.66486	1.2689	1.1790	.1896
%RSD	1516.9	46.146	259.40	414.96	104.84	165.95	95.07
#1	.15439	-21.564	-.11209	-.05266	1.5068	.90169	-.0821
#2	.02622	-19.554	.07054	-.87231	-.18058	1.7822	-.0980
#3	-.21803	-42.866	-.06882	.44429	2.3048	-.55246	-.4181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1213	-.02733	-.00019
Stddev	1.1397	.30859	.04704
%RSD	101.64	1129.3	24205.
#1	.95004	.11628	.05399
#2	.07687	-.38155	-.03056
#3	2.3370	.18329	-.02402
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28358.	13482.	412110.
Stddev	65.	131.	8498.
%RSD	.22977	.97072	2.0620
#1	28298.	13355.	416410.
#2	28427.	13476.	402320.
#3	28348.	13616.	417590.

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Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11515	144220.	23.687	235.28	5.2762	17337.
Stddev	.32715	224.	1.530	.79	.0817	27.
%RSD	284.12	.15549	6.4572	.33648	1.5478	.15474
#1	.06857	144390.	24.476	235.44	5.3568	17338.
#2	.07885	143960.	24.660	235.98	5.1935	17310.
#3	-.49287	144300.	21.924	234.42	5.2782	17363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.775	90.171	198.84	309.83	F 346570.	8194.
Stddev	.043	.195	2.29	3.75	94.	40.
%RSD	2.407	.21629	1.1492	1.2101	.02715	.4897
#1	1.818	90.388	201.36	313.64	346500.	8152.
#2	1.775	90.114	196.91	306.15	346530.	8198.
#3	1.732	90.010	198.24	309.70	346680.	8232.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79200.	2576.8	.79922	444.86	253.16	153.54
Stddev	158.	29.9	.24280	21.96	.34	2.69
%RSD	.1999	1.1594	30.379	4.9360	.13288	1.7545
#1	79130.	2542.3	.77865	421.41	253.03	156.57
#2	79080.	2592.7	.56736	464.93	252.91	152.60
#3	79380.	2595.3	1.0517	448.24	253.55	151.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0527	3.1410	187.9	5.0801	161.29	1222.2
Stddev	2.5399	1.4817	1.5	1.6693	1.71	.1
%RSD	83.202	47.172	.8159	32.860	1.0613	.00614
#1	4.2714	4.0825	189.7	4.4610	162.95	1222.3
#2	4.7535	1.4331	186.8	3.8088	159.53	1222.1
#3	.13312	3.9074	187.4	6.9706	161.39	1222.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28373.	13984.	404070.
Stddev	68.	226.	3570.
%RSD	.23865	1.6154	.88362
#1	28358.	14193.	400530.
#2	28313.	14015.	407670.
#3	28446.	13745.	404010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	102.48%	98.511%
Range			

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Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57231	102050.	56.612	890.98	5.0160	F 437350.
Stddev	.35039	566.	.859	2.26	.1908	4732.
%RSD	61.223	.55442	1.5172	.25413	3.8042	1.0819
#1	.96611	101670.	57.425	888.45	4.7984	434620.
#2	.45579	101770.	55.714	891.66	5.0946	442820.
#3	.29504	102700.	56.696	892.82	5.1550	434620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.824	68.444	169.33	403.63	F 307060.	10610.
Stddev	.050	.156	5.58	15.20	755.	146.
%RSD	2.752	.22800	3.2962	3.7646	.24590	1.378
#1	1.882	68.354	163.07	386.74	306350.	10480.
#2	1.800	68.354	171.13	407.94	306990.	10770.
#3	1.790	68.624	173.79	416.19	307850.	10590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	265000.	4680.7	5.3202	1050.1	206.89	1013.3
Stddev	658.	154.1	.2056	18.6	.30	2.1
%RSD	.2481	3.2914	3.8635	1.7719	.14426	.20464
#1	264600.	4519.3	5.5240	1029.4	206.94	1012.2
#2	264700.	4696.6	5.1130	1055.4	206.57	1012.0
#3	265800.	4826.2	5.3236	1065.4	207.16	1015.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2158	6.5156	213.0	6.5750	157.28	1011.9
Stddev	1.0506	1.6411	6.9	1.7005	4.95	1.0
%RSD	47.412	25.187	3.234	25.863	3.1442	.10101
#1	2.0079	8.0942	205.4	8.1485	151.68	1011.2
#2	3.3547	4.8184	214.5	4.7710	159.16	1011.4
#3	1.2847	6.6341	219.0	6.8055	161.02	1013.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27021.	14072.	390260.
Stddev	48.	154.	11789.
%RSD	.17666	1.0942	3.0207
#1	27072.	14198.	403550.
#2	27013.	14117.	386190.
#3	26977.	13900.	381050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.317%	103.12%	95.146%
Range			

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Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64666	139150.	51.738	583.06	5.8238	189320.
Stddev	.15588	221.	1.546	1.86	.0526	2814.
%RSD	24.106	.15863	2.9883	.31822	.90274	1.4862
#1	.81356	138910.	50.026	582.74	5.8836	190770.
#2	.62160	139350.	53.033	581.38	5.8034	191120.
#3	.50483	139190.	52.156	585.05	5.7845	186080.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.308	94.713	210.43	369.24	F 322230.	10820.
Stddev	.154	.206	2.40	4.00	924.	50.
%RSD	4.639	.21749	1.1405	1.0822	.28687	.4586
#1	3.370	94.932	212.62	373.69	321300.	10770.
#2	3.134	94.684	210.81	368.04	322240.	10810.
#3	3.422	94.523	207.86	365.97	323150.	10870.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	152900.	5265.7	3.6290	2060.6	245.76	756.27
Stddev	300.	33.8	.2218	14.2	.50	1.85
%RSD	.1961	.64150	6.1131	.68706	.20470	.24510
#1	152500.	5299.1	3.3765	2072.6	246.17	756.73
#2	152900.	5266.4	3.7925	2045.0	245.92	754.23
#3	153100.	5231.5	3.7180	2064.2	245.20	757.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6651	8.9773	327.6	7.4719	192.67	1340.0
Stddev	2.1686	.7513	3.7	1.4220	2.16	3.6
%RSD	59.170	8.3693	1.135	19.031	1.1217	.26580
#1	1.8160	9.1187	331.7	8.4505	195.02	1343.8
#2	6.0521	9.6478	326.7	5.8408	192.22	1336.8
#3	3.1272	8.1653	324.4	8.1244	190.77	1339.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27781.	14078.	397120.
Stddev	95.	202.	3659.
%RSD	.34286	1.4337	.92129
#1	27748.	13845.	395310.
#2	27889.	14200.	394720.
#3	27708.	14189.	401330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.000%	103.17%	96.819%
Range			

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Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17801	82865.	39.228	338.46	3.7524	49969.
Stddev	.86494	408.	1.373	.92	.0640	99.
%RSD	485.88	.49259	3.4996	.27283	1.7048	.19886
#1	1.1214	82454.	37.934	337.41	3.6810	49857.
#2	-.00980	83270.	40.668	339.15	3.8044	50006.
#3	-.57759	82872.	39.082	338.81	3.7719	50045.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.384	55.859	121.62	209.27	F 203090.	7527.
Stddev	.104	.311	1.94	3.40	462.	32.
%RSD	7.512	.55750	1.5957	1.6246	.22760	.4212
#1	1.494	55.798	119.38	205.39	202570.	7491.
#2	1.288	55.582	122.80	211.73	203210.	7540.
#3	1.369	56.196	122.67	210.69	203470.	7551.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61750.	2409.8	3.3019	579.33	161.61	454.48
Stddev	174.	53.4	.1578	17.17	.53	.42
%RSD	.2813	2.2179	4.7805	2.9643	.32893	.09150
#1	61550.	2348.3	3.4342	563.49	161.27	454.02
#2	61810.	2436.0	3.3444	597.58	161.34	454.58
#3	61880.	2445.0	3.1272	576.92	162.22	454.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0162	4.2303	191.3	2.7590	125.04	844.22
Stddev	2.8576	3.5615	3.4	.2405	2.05	.97
%RSD	141.73	84.190	1.764	8.7185	1.6374	.11518
#1	-.60812	3.5558	187.6	2.8945	122.69	843.97
#2	1.5960	8.0808	194.1	2.4813	125.97	843.39
#3	5.0606	1.0543	192.1	2.9012	126.45	845.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28588.	14218.	411740.
Stddev	26.	73.	5666.
%RSD	.08966	.51052	1.3761
#1	28571.	14272.	418150.
#2	28617.	14247.	407390.
#3	28575.	14136.	409680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	104.20%	100.38%
Range			

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Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23355	104750.	38.816	340.17	3.6393	35180.
Stddev	.15256	120.	.747	1.02	.0328	49.
%RSD	65.324	.11421	1.9250	.30082	.90118	.13919
#1	.40601	104650.	38.425	340.31	3.6203	35124.
#2	.17842	104880.	39.677	341.11	3.6205	35216.
#3	.11621	104720.	38.345	339.08	3.6772	35200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.36	71.041	287.78	445.55	F 238930.	5852.
Stddev	.03	.166	1.47	2.37	551.	39.
%RSD	.1789	.23374	.50962	.53218	.23060	.6628
#1	14.33	70.850	287.32	443.98	238330.	5842.
#2	14.37	71.148	286.59	444.39	239420.	5895.
#3	14.39	71.126	289.42	448.27	239040.	5820.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67270.	2653.0	2.2794	443.40	190.30	1338.8
Stddev	182.	51.5	.2186	12.95	.42	3.8
%RSD	.2703	1.9416	9.5914	2.9209	.22141	.28046
#1	67090.	2623.2	2.5318	453.66	189.81	1336.3
#2	67450.	2623.3	2.1522	428.85	190.50	1336.9
#3	67290.	2712.5	2.1541	447.70	190.58	1343.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.862	2.3973	224.7	4.1860	123.48	2139.2
Stddev	1.061	1.3985	.8	.7972	1.00	4.1
%RSD	7.6539	58.336	.3591	19.044	.81264	.19118
#1	13.063	1.2553	224.1	3.9096	122.78	2135.4
#2	13.458	3.9571	224.4	3.5638	123.03	2138.6
#3	15.066	1.9796	225.6	5.0846	124.63	2143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28207.	13996.	400480.
Stddev	71.	124.	1981.
%RSD	.25073	.88845	.49462
#1	28215.	13859.	400540.
#2	28133.	14101.	402430.
#3	28273.	14028.	398470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.501%	102.57%	97.636%
Range			

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Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149.76	44976.	105.76	3028.1	.65509	94977.	.2660
Stddev	1.49	84.	1.13	4.4	.01425	175.	.1489
%RSD	.99721	.18738	1.0728	.14620	2.1753	.18379	55.97
#1	149.96	45022.	104.55	3026.9	.67012	95090.	.3914
#2	151.14	45028.	106.80	3033.0	.64178	94776.	.3051
#3	148.17	44879.	105.92	3024.4	.65336	95064.	.1015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.43	150.12	165.20	28240.	99290.	3996.	309.28
Stddev	.55	1.63	2.17	35.	472.	8.	3.31
%RSD	.11886	1.0886	1.3147	.12331	.4757	.2100	1.0702
#1	464.15	150.10	163.79	28219.	99670.	3987.	308.55
#2	464.08	151.76	167.70	28221.	99430.	4000.	312.89
#3	465.07	148.49	164.11	28280.	98760.	4002.	306.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0742	79182.	10.729	93.675	66.713	234.39	558.2
Stddev	.2488	152.	.260	.987	.457	1.94	6.2
%RSD	8.0928	.19150	2.4238	1.0536	.68487	.82947	1.106
#1	2.9456	79345.	10.464	92.573	66.224	233.92	557.6
#2	2.9161	79157.	10.737	93.976	66.784	232.73	564.6
#3	3.3610	79045.	10.984	94.477	67.130	236.53	552.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0407	774.95	416.61
Stddev	2.2736	8.21	.67
%RSD	111.42	1.0593	.16156
#1	-.57683	771.48	416.68
#2	3.1736	784.33	415.91
#3	3.5252	769.05	417.25
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28271.	13990.	401750.
Stddev	58.	203.	3659.
%RSD	.20395	1.4539	.91077
#1	28249.	13775.	401300.
#2	28227.	14014.	398340.
#3	28336.	14180.	405620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.725%	102.52%	97.947%
Range			

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Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.479	9152.7	20.420	608.74	.13419	19283.	.0355
Stddev	.441	48.2	1.518	2.81	.00859	41.	.2079
%RSD	1.4975	.52707	7.4316	.46111	6.4004	.21462	585.0
#1	29.620	9111.8	20.889	606.32	.12464	19241.	.0921
#2	29.833	9140.5	21.647	608.08	.13664	19284.	-.1948
#3	28.984	9205.9	18.723	611.81	.14129	19324.	.2094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	96.257	30.276	33.486	5747.2	21020.	837.5	61.936
Stddev	.348	.554	.704	14.6	85.	13.1	.530
%RSD	.36198	1.8305	2.1029	.25471	.4048	1.569	.85512
#1	95.979	30.533	32.907	5731.2	20950.	852.6	61.775
#2	96.144	30.655	34.270	5750.8	21010.	828.8	62.527
#3	96.648	29.640	33.281	5759.8	21110.	831.2	61.506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01161	16900.	2.3492	20.124	14.842	46.884	111.3
Stddev	.02779	53.	.2755	.736	1.054	.928	1.0
%RSD	239.30	.31483	11.727	3.6566	7.1010	1.9800	.8543
#1	-.01438	16839.	2.6610	20.615	15.489	45.882	110.9
#2	.00831	16925.	2.1389	20.479	15.411	47.056	112.4
#3	.04091	16936.	2.2476	19.278	13.626	47.715	110.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.73773	153.79	85.439
Stddev	.51859	.94	.222
%RSD	70.295	.61335	.25989
#1	-.48555	153.13	85.331
#2	-.39346	154.87	85.293
#3	-1.3342	153.37	85.695
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28678.	13934.	416690.
Stddev	82.	37.	3785.
%RSD	.28679	.26301	.90836
#1	28685.	13976.	418090.
#2	28757.	13919.	412400.
#3	28593.	13907.	419560.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.16%	102.11%	101.59%
Range			

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Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	141.90	42378.	111.40	3026.2	.60276	89540.	.3939
Stddev	1.47	67.	1.22	1.0	.02174	51.	.1583
%RSD	1.0359	.15866	1.0965	.03330	3.6075	.05687	40.18
#1	141.73	42434.	110.11	3027.1	.59391	89483.	.2519
#2	140.53	42396.	112.53	3026.5	.58683	89580.	.3653
#3	143.45	42303.	111.55	3025.1	.62753	89557.	.5645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	442.42	147.48	155.23	29437.	95550.	3752.	287.80
Stddev	.54	1.72	1.30	40.	167.	20.	2.72
%RSD	.12224	1.1693	.83839	.13580	.1745	.5232	.94438
#1	442.28	147.97	156.30	29399.	95740.	3732.	288.94
#2	441.96	145.56	153.78	29432.	95450.	3752.	284.70
#3	443.01	148.90	155.63	29479.	95460.	3772.	289.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6692	77331.	10.485	92.467	78.924	228.34	590.8
Stddev	.1132	53.	.249	.965	1.026	1.40	5.4
%RSD	2.4247	.06861	2.3757	1.0438	1.2999	.61397	.9197
#1	4.7864	77390.	10.385	93.581	79.160	227.16	592.6
#2	4.6609	77289.	10.301	91.880	79.811	227.97	584.7
#3	4.5604	77313.	10.768	91.940	77.800	229.89	595.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0785	763.87	405.14
Stddev	1.9323	7.60	.56
%RSD	92.969	.99547	.13922
#1	3.6921	767.02	404.52
#2	2.6061	755.19	405.29
#3	-.06289	769.38	405.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27876.	13801.	396110.
Stddev	17.	304.	4935.
%RSD	.06264	2.2043	1.2459
#1	27896.	14033.	394560.
#2	27863.	13914.	401640.
#3	27870.	13457.	392140.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.335%	101.14%	96.572%
Range			

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Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	247.30	45631.	178.68	7041.3	104.00	95916.	89.36
Stddev	3.12	105.	.58	27.8	1.36	454.	.17
%RSD	1.2636	.22967	.32655	.39452	1.3060	.47345	.1864
#1	246.67	45513.	179.30	7013.8	103.28	95419.	89.17
#2	250.70	45713.	178.60	7069.4	105.57	96310.	89.50
#3	244.54	45668.	178.14	7040.8	103.16	96019.	89.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1337.5	531.43	627.88	28410.	98020.	4140.	1288.0
Stddev	.2	6.34	8.00	220.	70.	41.	15.6
%RSD	.01577	1.1937	1.2747	.77279	.0716	1.001	1.2125
#1	1337.6	528.29	624.22	28172.	98000.	4106.	1279.4
#2	1337.6	538.73	637.06	28604.	98100.	4128.	1306.1
#3	1337.2	527.26	622.37	28453.	97960.	4186.	1278.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5556	78702.	906.22	125.46	144.26	418.78	580.1
Stddev	.1663	257.	.69	1.23	2.19	1.93	7.4
%RSD	6.5078	.32620	.07613	.97870	1.5161	.46047	1.269
#1	2.6767	78474.	905.62	124.80	146.78	421.01	576.6
#2	2.6241	78980.	906.07	126.88	142.93	417.68	588.6
#3	2.3660	78654.	906.98	124.70	143.06	417.66	575.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	89.483	1753.0	1337.5
Stddev	1.969	22.6	.8
%RSD	2.2010	1.2901	.05972
#1	90.770	1741.8	1337.5
#2	87.216	1779.0	1338.3
#3	90.464	1738.2	1336.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27397.	13325.	390020.
Stddev	47.	132.	4220.
%RSD	.17232	.98888	1.0820
#1	27348.	13176.	390410.
#2	27402.	13426.	385620.
#3	27442.	13373.	394030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.645%	97.651%	95.087%
Range			

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Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	162.64	43508.	121.25	3250.8	10.985	99818.	9.382
Stddev	1.67	212.	.44	21.3	.150	356.	.063
%RSD	1.0247	.48667	.36695	.65581	1.3698	.35642	.6711
#1	163.25	43374.	120.75	3249.0	11.066	99554.	9.454
#2	160.75	43752.	121.43	3273.0	10.812	100220.	9.356
#3	163.91	43399.	121.58	3230.5	11.078	99677.	9.336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	540.23	162.49	203.75	26886.	101000.	13480.	323.15
Stddev	2.07	1.51	3.31	117.	790.	85.	3.84
%RSD	.38401	.92743	1.6242	.43528	.7820	.6328	1.1894
#1	539.48	162.92	205.39	26802.	101100.	13380.	324.81
#2	538.63	160.81	199.94	27020.	101700.	13530.	318.76
#3	542.58	163.73	205.91	26837.	100100.	13520.	325.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5276	84167.	82.958	109.14	179.91	291.95	528.5
Stddev	.1607	441.	.373	1.09	1.00	.61	6.1
%RSD	6.3580	.52396	.44965	1.0007	.55815	.20809	1.152
#1	2.3464	84129.	83.103	107.90	180.62	292.28	531.5
#2	2.5838	84625.	82.534	109.94	180.35	291.25	521.5
#3	2.6527	83746.	83.236	109.58	178.76	292.33	532.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.790	835.52	515.98
Stddev	.426	10.02	2.23
%RSD	.95167	1.1992	.43305
#1	44.445	840.24	515.26
#2	44.658	824.01	514.19
#3	45.266	842.31	518.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27898.	13893.	399010.
Stddev	67.	179.	1457.
%RSD	.24074	1.2894	.36510
#1	27949.	14057.	399160.
#2	27923.	13702.	400380.
#3	27822.	13922.	397480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.411%	101.82%	97.278%
Range			

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Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04687	15.709	-.81780	1.0767	.00706	23.733	-.0793
Stddev	.34786	66.247	.82503	.2016	.00689	3.897	.1061
%RSD	742.22	421.72	100.88	18.721	97.609	16.420	133.9
#1	-.17012	-39.096	-1.6756	1.2973	.01501	28.136	.0187
#2	.34583	89.328	-.74779	.90206	.00287	22.332	-.1920
#3	-.31631	-3.1055	-.03000	1.0307	.00329	20.730	-.0644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00728	.04953	.63278	15.197	757.2	3.305	.31916
Stddev	.14107	.33917	.82570	9.882	18.1	7.089	.04376
%RSD	1937.5	684.79	130.49	65.027	2.384	214.5	13.709
#1	-.13000	.19286	.54845	23.255	748.5	-1.823	.33794
#2	.15187	-.33778	-.14751	4.1708	745.1	11.40	.26915
#3	-.00002	.29351	1.4974	18.165	777.9	.3445	.35040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54683	113.68	.39411	.01983	3.5233	.17715	.1516
Stddev	.24446	16.31	.09614	1.3857	.3016	1.4937	.0685
%RSD	44.706	14.348	24.394	6986.9	8.5607	843.20	45.20
#1	-.77999	99.711	.40516	1.3215	3.2424	1.0261	.1895
#2	-.56806	131.61	.48424	.17488	3.8421	-1.5476	.0725
#3	-.29244	109.73	.29292	-1.4369	3.4853	1.0529	.1927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4318	-.21363	.93223
Stddev	.2122	.29305	.03743
%RSD	14.823	137.18	4.0150
#1	1.6743	.07787	.92723
#2	1.3413	-.50821	.97191
#3	1.2798	-.21054	.89756
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29104.	13713.	417780.
Stddev	76.	131.	7364.
%RSD	.26243	.95190	1.7628
#1	29024.	13619.	409490.
#2	29111.	13657.	423560.
#3	29176.	13862.	420290.

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Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.389	400.93	18.976	398.40	9.7450	10383.	9.226
Stddev	.949	74.04	.988	1.80	.3977	17.	.163
%RSD	4.8936	18.468	5.2085	.45146	4.0808	.16189	1.768
#1	18.962	459.29	18.030	397.11	9.9202	10371.	9.090
#2	20.476	317.64	20.002	400.46	10.025	10402.	9.181
#3	18.728	425.85	18.895	397.64	9.2898	10375.	9.407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.577	20.556	47.122	224.38	10550.	10260.	30.018
Stddev	.230	.944	1.624	5.11	28.	32.	1.169
%RSD	.24103	4.5923	3.4469	2.2754	.2653	.3132	3.8932
#1	95.602	21.052	47.481	219.41	10580.	10260.	30.461
#2	95.335	21.148	48.537	224.10	10540.	10300.	30.901
#3	95.794	19.467	45.349	229.61	10520.	10230.	28.693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55661	10872.	76.354	18.353	119.03	67.586	.5979
Stddev	.12625	17.	.184	1.563	.04	1.506	.2669
%RSD	22.682	.15348	.24078	8.5192	.03265	2.2278	44.65
#1	-.51297	10861.	76.188	16.716	119.08	65.848	.3239
#2	-.69890	10891.	76.321	18.513	119.00	68.420	.8572
#3	-.45797	10863.	76.552	19.831	119.03	68.490	.6125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.369	93.672	118.53
Stddev	.762	3.784	.40
%RSD	1.6426	4.0393	.33841
#1	47.242	95.060	118.57
#2	46.023	96.566	118.12
#3	45.842	89.391	118.92
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27666.	13535.	418460.
Stddev	82.	15.	15799.
%RSD	.29750	.11436	3.7755
#1	27578.	13553.	413680.
#2	27679.	13526.	405610.
#3	27742.	13527.	436100.

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Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36462	100380.	49.839	730.32	3.6418	28032.
Stddev	.08689	153.	.833	2.44	.0099	50.
%RSD	23.829	.15275	1.6715	.33358	.27108	.17663
#1	.29396	100210.	50.732	729.65	3.6464	27975.
#2	.33827	100500.	49.083	728.29	3.6486	28064.
#3	.46164	100440.	49.703	733.02	3.6305	28056.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.980	70.135	188.54	602.54	F 262870.	8485.
Stddev	.040	.020	.59	2.05	178.	35.
%RSD	.6693	.02802	.31235	.34000	.06772	.4140
#1	6.015	70.149	188.53	602.79	262670.	8459.
#2	5.936	70.113	189.13	604.45	262960.	8525.
#3	5.989	70.144	187.95	600.38	262990.	8470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61690.	2873.7	3.1862	599.29	194.03	716.11
Stddev	94.	12.1	.0929	12.84	.73	3.11
%RSD	.1523	.42150	2.9165	2.1425	.37785	.43463
#1	61780.	2885.5	3.2928	613.96	194.04	717.77
#2	61590.	2861.3	3.1220	593.84	193.28	712.52
#3	61690.	2874.2	3.1439	590.08	194.75	718.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.561	4.1651	257.9	4.6502	133.65	2176.7
Stddev	2.054	2.1092	1.5	1.1531	.12	5.2
%RSD	19.449	50.640	.5965	24.796	.08952	.23963
#1	8.1948	3.7344	257.4	5.2882	133.78	2179.6
#2	11.884	2.3044	259.7	3.3191	133.54	2170.7
#3	11.605	6.4564	256.8	5.3433	133.65	2179.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27732.	13698.	404910.
Stddev	127.	194.	2118.
%RSD	.45722	1.4148	.52312
#1	27597.	13651.	403670.
#2	27751.	13911.	403720.
#3	27848.	13532.	407360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.824%	100.38%	98.718%
Range			

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Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14902	21106.	9.0909	152.34	.77449	5956.1	1.177
Stddev	.13814	1496.	.9446	10.75	.01902	417.8	.194
%RSD	92.698	7.0890	10.391	7.0593	2.4553	7.0140	16.51
#1	.02698	20944.	9.3264	151.91	.77267	5917.5	1.068
#2	.12109	19698.	8.0509	141.81	.79434	5559.1	1.401
#3	.29899	22677.	9.8956	163.31	.75644	6391.9	1.062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.649	40.222	128.38	55498.	1780.	13110.	624.16
Stddev	.153	.315	.86	3918.	80.	935.	.74
%RSD	1.0414	.78333	.66921	7.0597	4.477	7.136	.11837
#1	14.650	40.555	127.85	55177.	1795.	13050.	624.36
#2	14.801	39.928	127.92	51750.	1694.	12200.	624.78
#3	14.496	40.182	129.37	59567.	1851.	14070.	623.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32188	104.20	40.621	151.00	2.9843	1.0130	57.37
Stddev	.16701	16.52	.065	1.21	1.5240	1.2990	.88
%RSD	51.885	15.856	.15986	.80310	51.066	128.23	1.525
#1	.51086	98.846	40.621	150.94	1.2392	.50167	58.25
#2	.26071	91.022	40.556	152.24	4.0530	2.4898	56.50
#3	.19408	122.74	40.686	149.82	3.6607	.04746	57.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3099	28.169	452.55
Stddev	.5923	.124	.83
%RSD	45.212	.44138	.18302
#1	.71700	28.266	453.37
#2	1.9015	28.213	451.71
#3	1.3113	28.029	452.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28044.	13254.	401480.
Stddev	113.	941.	1826.
%RSD	.40192	7.1013	.45490
#1	27963.	13399.	399400.
#2	27996.	14113.	402220.
#3	28172.	12248.	402820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.924%	97.126%	97.881%
Range			

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Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08487	89128.	56.566	317.63	3.7152	70239.
Stddev	.11987	109.	.736	.15	.0334	54.
%RSD	141.23	.12248	1.3018	.04876	.89796	.07743
#1	.03554	89003.	56.032	317.70	3.7324	70182.
#2	-.08596	89206.	56.261	317.46	3.6768	70244.
#3	-.20420	89175.	57.406	317.74	3.7365	70290.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.991	65.493	184.46	444.81	F 237170.	8282.
Stddev	.185	.285	1.19	1.94	476.	26.
%RSD	2.643	.43526	.64411	.43667	.20063	.3178
#1	6.816	65.822	184.98	446.45	236620.	8252.
#2	7.184	65.344	183.10	442.67	237450.	8292.
#3	6.973	65.314	185.31	445.32	237450.	8301.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77600.	2915.4	3.2685	559.26	172.02	932.79
Stddev	226.	27.0	.0689	25.30	.21	2.84
%RSD	.2906	.92579	2.1085	4.5246	.12023	.30476
#1	77340.	2946.3	3.2721	572.76	171.85	934.45
#2	77760.	2896.8	3.3355	530.07	172.25	929.51
#3	77700.	2903.0	3.1978	574.96	171.97	934.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.107	6.2172	349.2	3.1154	123.89	1716.5
Stddev	3.819	1.1818	1.9	1.4615	.51	1.9
%RSD	29.138	19.009	.5358	46.912	.40900	.10959
#1	16.905	7.5489	349.9	4.4260	123.67	1718.3
#2	13.148	5.8097	347.0	3.3807	123.53	1714.5
#3	9.2671	5.2931	350.5	1.5394	124.47	1716.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27660.	13450.	397540.
Stddev	124.	79.	848.
%RSD	.44877	.58959	.21340
#1	27640.	13501.	398150.
#2	27793.	13489.	397890.
#3	27547.	13358.	396570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.571%	98.563%	96.919%
Range			

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Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.456	108290.	131.21	4514.6	103.62	36719.
Stddev	1.232	158.	.60	6.1	1.26	82.
%RSD	1.3185	.14589	.45565	.13544	1.2207	.22264
#1	92.738	108370.	131.74	4521.5	103.20	36813.
#2	94.879	108110.	130.56	4509.9	105.04	36680.
#3	92.752	108390.	131.32	4512.3	102.61	36665.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.32	956.46	646.90	958.00	F 273710.	11030.
Stddev	.12	1.11	8.54	12.43	568.	28.
%RSD	.1308	.11605	1.3208	1.2971	.20745	.2548
#1	94.18	955.69	644.45	953.49	274350.	11000.
#2	94.36	957.73	656.40	972.06	273520.	11030.
#3	94.41	955.97	639.84	948.47	273260.	11060.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63930.	4959.2	3.0346	604.20	1073.2	1197.6
Stddev	229.	67.9	.1390	16.16	1.0	1.4
%RSD	.3577	1.3684	4.5816	2.6738	.09440	.11433
#1	64190.	4895.8	2.9465	586.51	1073.7	1196.8
#2	63850.	5030.8	3.1949	607.92	1074.0	1199.2
#3	63760.	4950.8	2.9624	618.17	1072.1	1196.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77.530	176.23	266.1	90.280	1072.3	2847.4
Stddev	.692	1.07	3.7	2.466	12.9	3.7
%RSD	.89233	.60842	1.404	2.7313	1.2075	.13168
#1	77.764	175.15	264.1	92.625	1067.9	2846.4
#2	78.074	176.23	270.5	90.505	1086.8	2851.6
#3	76.751	177.30	263.9	87.709	1062.1	2844.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28274.	13766.	404260.
Stddev	60.	106.	5333.
%RSD	.21077	.76686	1.3193
#1	28233.	13681.	404530.
#2	28247.	13884.	398790.
#3	28342.	13733.	409450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.737%	100.88%	98.557%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.918	99267.	69.134	1131.9	13.775	37939.
Stddev	.491	77.	.420	1.6	.065	87.
%RSD	2.4648	.07794	.60707	.14540	.47330	.22918
#1	19.389	99302.	68.656	1131.9	13.712	37850.
#2	20.007	99321.	69.301	1130.2	13.773	37943.
#3	20.359	99179.	69.444	1133.5	13.842	38024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.53	156.53	206.66	645.45	F 259350.	19180.
Stddev	.10	.21	.56	3.70	327.	13.
%RSD	.6823	.13274	.26882	.57356	.12597	.0663
#1	14.64	156.61	206.51	642.64	259020.	19160.
#2	14.49	156.30	206.19	644.06	259370.	19190.
#3	14.45	156.69	207.27	649.64	259670.	19180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70010.	2874.5	2.9918	11571.	259.54	703.15
Stddev	310.	44.7	.2560	23.	.48	1.94
%RSD	.4421	1.5540	8.5576	.19629	.18678	.27540
#1	69650.	2899.1	3.2838	11557.	259.72	704.27
#2	70200.	2901.4	2.8056	11597.	258.98	700.91
#3	70180.	2822.9	2.8862	11558.	259.90	704.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	118.76	69.072	265.2	46.498	229.23	2215.9
Stddev	1.53	.504	2.5	.177	1.42	3.3
%RSD	1.2844	.72958	.9360	.38170	.61896	.14760
#1	120.51	69.492	267.4	46.689	228.68	2217.7
#2	117.71	68.513	262.5	46.468	228.18	2212.1
#3	118.05	69.211	265.7	46.338	230.85	2217.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27573.	13347.	396750.
Stddev	132.	111.	1624.
%RSD	.47776	.83355	.40934
#1	27421.	13429.	395090.
#2	27646.	13221.	398340.
#3	27652.	13393.	396820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.264%	97.815%	96.727%
Range			

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Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10079	108870.	54.734	352.38	4.4702	101720.
Stddev	.57258	349.	1.776	.78	.0393	243.
%RSD	568.07	.32096	3.2443	.22097	.87928	.23917
#1	.54154	108500.	52.732	351.55	4.4882	101450.
#2	-.28630	108930.	55.349	353.10	4.4252	101820.
#3	-.55762	109190.	56.120	352.48	4.4974	101900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.99	87.459	316.47	510.61	F 242480.	11410.
Stddev	.09	.265	2.78	4.22	692.	34.
%RSD	.7870	.30281	.87986	.82682	.28536	.2984
#1	11.03	87.193	318.45	512.75	241710.	11440.
#2	11.05	87.460	313.28	505.75	242700.	11370.
#3	10.89	87.723	317.66	513.33	243040.	11420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74890.	2861.2	3.0704	577.07	207.40	952.36
Stddev	342.	39.0	.2992	6.59	.57	3.24
%RSD	.4564	1.3636	9.7457	1.1424	.27450	.34012
#1	74510.	2902.8	2.7300	582.77	206.94	954.89
#2	75170.	2825.4	3.2920	578.60	207.22	948.71
#3	74990.	2855.3	3.1891	569.85	208.04	953.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.956	4.7343	285.0	4.0707	132.29	2300.4
Stddev	2.060	1.4550	2.4	.9627	1.09	6.5
%RSD	14.762	30.733	.8472	23.650	.82082	.28403
#1	11.609	6.1796	286.5	2.9700	133.09	2296.2
#2	15.465	3.2698	282.2	4.7556	131.06	2297.2
#3	14.794	4.7536	286.3	4.4866	132.73	2308.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28439.	14122.	411840.
Stddev	108.	170.	2279.
%RSD	.37934	1.2062	.55345
#1	28373.	13927.	409550.
#2	28563.	14199.	414100.
#3	28380.	14240.	411860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.32%	103.49%	100.41%
Range			

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Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72132	124150.	47.259	442.70	5.3450	141090.
Stddev	.24681	474.	.533	1.09	.2321	325.
%RSD	34.216	.38169	1.1276	.24705	4.3420	.23043
#1	.86711	123670.	46.798	442.35	5.0978	140720.
#2	.43635	124170.	47.842	441.82	5.5583	141320.
#3	.86048	124610.	47.136	443.92	5.3788	141230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8059	87.707	152.03	234.91	F 270500.	10620.
Stddev	.1273	.039	6.03	8.60	435.	24.
%RSD	15.79	.04441	3.9677	3.6620	.16080	.2295
#1	.9467	87.671	145.89	225.78	270030.	10600.
#2	.7719	87.703	157.95	242.87	270890.	10650.
#3	.6991	87.748	152.23	236.07	270570.	10620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87690.	F 11410.	2.4271	624.14	223.76	153.92
Stddev	242.	155.	.2319	9.01	.04	1.08
%RSD	.2757	1.3582	9.5533	1.4435	.01771	.70452
#1	87410.	11246.	2.1879	623.62	223.75	153.43
#2	87860.	11554.	2.6508	615.40	223.80	155.16
#3	87800.	11429.	2.4426	633.40	223.73	153.17
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-10000.				

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23025	7.6213	211.5	13.169	164.02	750.32
Stddev	2.0256	2.5339	7.5	1.196	6.12	1.46
%RSD	879.77	33.248	3.567	9.0804	3.7337	.19429
#1	-1.6230	4.6970	203.4	14.547	157.90	751.20
#2	-.07897	9.1670	218.3	12.558	170.14	748.64
#3	2.3927	8.9999	212.8	12.401	164.03	751.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27861.	14062.	388300.
Stddev	140.	47.	13493.
%RSD	.50269	.33532	3.4749
#1	27700.	14108.	401770.
#2	27951.	14065.	374790.
#3	27932.	14014.	388340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.280%	103.05%	94.668%
Range			

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Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27241	132510.	46.629	373.29	5.0696	201000.
Stddev	.23538	482.	1.528	1.74	.0700	1735.
%RSD	86.408	.36380	3.2760	.46650	1.3804	.86320
#1	.48826	131980.	45.198	371.98	4.9991	199130.
#2	.30753	132660.	48.238	372.63	5.1391	201320.
#3	.02144	132910.	46.450	375.27	5.0705	202550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4344	77.769	152.04	253.58	F 296610.	9997.
Stddev	.1734	.156	2.55	4.42	1275.	17.
%RSD	39.92	.20112	1.6796	1.7412	.42973	.1654
#1	.4807	77.603	149.15	248.54	295520.	10010.
#2	.5800	77.913	154.00	256.77	296300.	10000.
#3	.2425	77.792	152.97	255.42	298010.	9979.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108400.	7179.2	2.8514	654.28	232.39	140.92
Stddev	319.	12.2	.3141	11.10	.07	1.23
%RSD	.2940	.17042	11.014	1.6968	.03127	.87354
#1	108100.	7165.2	3.1008	642.62	232.45	142.29
#2	108300.	7185.2	2.9546	655.49	232.31	139.91
#3	108700.	7187.4	2.4987	664.72	232.41	140.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7476	5.7656	226.9	9.0930	174.94	811.25
Stddev	.4517	.9066	3.4	.1486	2.95	.82
%RSD	25.847	15.725	1.480	1.6340	1.6864	.10094
#1	1.8658	5.5625	223.1	9.2124	171.63	811.69
#2	1.2486	4.9777	229.5	8.9266	177.30	810.31
#3	2.1285	6.7565	228.1	9.1401	175.88	811.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27272.	13512.	387620.
Stddev	92.	29.	4210.
%RSD	.33602	.21652	1.0862
#1	27251.	13478.	390620.
#2	27372.	13531.	382810.
#3	27192.	13527.	389430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.201%	99.021%	94.501%
Range			

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Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	735.29	51878.	2555.7	10523.	1050.1	52568.	993.4
Stddev	19.73	40.	3.7	312.	23.0	40.	.7
%RSD	2.6832	.07776	.14486	2.9604	2.1905	.07519	.0740
#1	713.67	51903.	2556.8	10163.	1033.4	52548.	994.2
#2	752.33	51831.	2551.6	10706.	1076.4	52614.	992.8
#3	739.85	51900.	2558.8	10699.	1040.5	52542.	993.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4873.6	9973.9	12158.	25514.	40960.	50880.	5037.9
Stddev	6.9	278.4	206.	37.	117.	199.	118.8
%RSD	.14260	2.7914	1.6950	.14649	.2865	.3911	2.3588
#1	4881.1	9663.9	11955.	25484.	41050.	50680.	4901.1
#2	4867.4	10203.	12367.	25556.	41000.	51080.	5115.9
#3	4872.2	10055.	12153.	25501.	40820.	50860.	5096.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.7	27260.	4912.2	9536.9	2495.9	1278.4	1004.
Stddev	1.3	17.	3.3	1.8	5.5	2.4	28.
%RSD	.13302	.06224	.06658	.01926	.22066	.19028	2.777
#1	1008.2	27246.	4916.0	9538.7	2499.8	1277.5	973.5
#2	1005.9	27255.	4910.0	9535.0	2489.6	1276.5	1028.
#3	1005.9	27279.	4910.7	9537.0	2498.4	1281.1	1012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	928.57	2517.1	5027.2
Stddev	1.18	68.9	5.3
%RSD	.12664	2.7363	.10475
#1	927.22	2441.6	5033.3
#2	929.32	2576.5	5024.0
#3	929.18	2533.2	5024.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26323.	12910.	395850.
Stddev	84.	137.	8609.
%RSD	.31867	1.0646	2.1749
#1	26359.	13029.	405500.
#2	26228.	12760.	388970.
#3	26384.	12941.	393080.

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Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09338	-19.752	-1.0909	.04557	-.01361	-3.5430	.0532
Stddev	.24195	33.682	.8033	.92147	.00853	3.0549	.1462
%RSD	259.11	170.52	73.634	2022.2	62.647	86.224	274.9
#1	-.37253	-58.262	-.83987	.80707	-.01968	-.97291	.1369
#2	.03620	-5.2126	-1.9898	.30839	-.01729	-6.9205	-.1156
#3	.05619	4.2180	-.44317	-.97876	-.00386	-2.7355	.1383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03833	.18054	.19980	8.2690	27.60	10.23	.02131
Stddev	.08210	.18843	.70516	4.4441	58.71	36.87	.05055
%RSD	214.22	104.37	352.94	53.745	212.7	360.3	237.18
#1	.13289	.00508	.22089	3.9465	55.65	52.65	.03289
#2	-.00311	.15683	-.51567	8.0350	67.02	-14.11	-.03402
#3	-.01480	.37970	.89417	12.825	-39.87	-7.841	.06507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11242	-32.589	.29658	-.38079	1.4576	.60737	-.1305
Stddev	.23070	31.766	.17762	2.5708	1.1211	.78854	.0433
%RSD	205.21	97.477	59.888	675.14	76.915	129.83	33.19
#1	.37822	-59.515	.41648	-2.1615	.96174	-.27126	-.1508
#2	-.00516	-40.697	.38074	2.5665	.66994	1.2536	-.0807
#3	-.03580	2.4464	.09253	-1.5474	2.7412	.83978	-.1599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.87351	.15153	-.05234
Stddev	.99115	.15958	.08135
%RSD	113.47	105.31	155.42
#1	1.6569	.14561	.02168
#2	-.24077	.31400	-.13944
#3	1.2044	-.00500	-.03927
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28441.	13030.	407370.
Stddev	124.	94.	1227.
%RSD	.43767	.72081	.30129
#1	28495.	13070.	407730.
#2	28530.	13098.	406000.
#3	28299.	12923.	408370.

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Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03572	136590.	57.663	395.63	5.7603	171330.
Stddev	.35733	393.	.427	1.90	.0579	700.
%RSD	1000.4	.28791	.74054	.48134	1.0044	.40873
#1	.00386	136220.	57.875	393.44	5.6963	170530.
#2	.40791	136540.	57.943	396.88	5.7756	171780.
#3	-.30462	137010.	57.172	396.58	5.8089	171700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5695	88.993	163.21	263.43	F 302260.	12780.
Stddev	.0629	.227	1.44	3.49	1336.	108.
%RSD	11.05	.25495	.88257	1.3257	.44196	.8438
#1	.4979	89.113	161.57	259.50	300720.	12730.
#2	.6160	88.731	163.83	264.65	303040.	12710.
#3	.5945	89.134	164.24	266.15	303020.	12900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111500.	6460.1	2.5075	701.22	242.23	196.94
Stddev	752.	29.9	.1155	24.55	.11	.61
%RSD	.6747	.46298	4.6064	3.5010	.04582	.30906
#1	110600.	6493.4	2.5958	686.68	242.15	197.43
#2	111900.	6451.2	2.3767	729.56	242.19	197.13
#3	112000.	6435.6	2.5499	687.41	242.36	196.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7360	5.2784	224.3	6.2278	177.56	897.92
Stddev	2.0287	1.7114	2.4	.5550	1.97	.99
%RSD	116.86	32.423	1.089	8.9110	1.1072	.11033
#1	3.1708	6.2534	221.6	5.9804	175.32	898.73
#2	-.58499	3.3023	225.3	6.8634	178.39	896.82
#3	2.6223	6.2794	226.2	5.8396	178.98	898.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27863.	13730.	397910.
Stddev	84.	284.	2499.
%RSD	.30284	2.0716	.62798
#1	27950.	13925.	400770.
#2	27858.	13861.	396100.
#3	27781.	13403.	396870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.287%	100.62%	97.011%
Range			

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Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5469	115250.	76.519	445.09	4.1346	19648.
Stddev	.2783	1003.	1.160	3.02	.0286	129.
%RSD	17.993	.87032	1.5156	.67841	.69192	.65494
#1	1.3936	114230.	76.739	442.57	4.1557	19535.
#2	1.8682	116240.	75.265	448.44	4.1460	19788.
#3	1.3790	115290.	77.553	444.27	4.1020	19621.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.129	70.398	290.14	2206.1	F 353650.	10390.
Stddev	.056	.262	2.89	22.2	2193.	91.
%RSD	.9168	.37207	.99649	1.0063	.61998	.8733
#1	6.080	70.332	292.84	2226.1	351610.	10350.
#2	6.115	70.175	290.48	2210.1	355970.	10490.
#3	6.190	70.686	287.09	2182.2	353390.	10320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62530.	2412.9	4.5806	672.83	216.30	769.36
Stddev	353.	55.8	.1994	16.95	.52	2.32
%RSD	.5643	2.3137	4.3531	2.5192	.23982	.30146
#1	62170.	2442.7	4.3811	654.43	216.03	770.13
#2	62880.	2447.5	4.7799	687.81	215.97	766.76
#3	62520.	2348.5	4.5808	676.23	216.90	771.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.239	7.4296	333.2	3.8549	167.00	1979.1
Stddev	.890	.7014	3.8	.2641	1.68	6.7
%RSD	8.6896	9.4412	1.142	6.8512	1.0051	.33915
#1	10.641	8.0305	335.8	3.5576	168.60	1977.6
#2	10.858	7.5995	334.9	4.0623	167.16	1973.2
#3	9.2197	6.6588	328.8	3.9448	165.26	1986.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28616.	14172.	411670.
Stddev	52.	132.	2888.
%RSD	.18287	.93082	.70159
#1	28559.	14315.	409540.
#2	28661.	14147.	410520.
#3	28629.	14055.	414960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.94%	103.86%	100.37%
Range			

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Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.96552	129430.	86.110	520.66	5.4349	90211.
Stddev	.09638	314.	2.616	.16	.0401	197.
%RSD	9.9823	.24283	3.0384	.02995	.73760	.21800
#1	1.0610	129430.	84.712	520.60	5.3946	89983.
#2	.96732	129750.	84.490	520.54	5.4747	90327.
#3	.86825	129120.	89.129	520.83	5.4354	90321.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.42	98.360	486.32	848.42	F 303610.	11850.
Stddev	.16	1.813	4.51	6.77	968.	37.
%RSD	1.198	1.8433	.92777	.79748	.31881	.3081
#1	13.23	97.336	481.31	840.62	302510.	11810.
#2	13.48	97.290	487.61	851.80	303970.	11860.
#3	13.54	100.45	490.05	852.82	304350.	11880.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93590.	3151.0	5.7854	933.86	247.56	1378.3
Stddev	217.	85.2	.1920	25.39	4.50	34.3
%RSD	.2319	2.7039	3.3186	2.7193	1.8163	2.4878
#1	93340.	3053.1	5.5638	940.72	244.67	1358.5
#2	93690.	3208.2	5.8938	955.13	245.27	1358.4
#3	93740.	3191.7	5.8988	905.75	252.74	1417.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.000	6.2296	327.9	5.3003	179.33	3051.6
Stddev	1.615	.2290	2.3	.6843	1.32	57.3
%RSD	14.681	3.6753	.7050	12.911	.73671	1.8770
#1	11.850	6.3007	325.3	5.6393	177.90	3016.0
#2	9.1376	5.9735	328.8	5.7490	179.58	3021.1
#3	12.012	6.4145	329.6	4.5127	180.50	3117.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28139.	14202.	404840.
Stddev	535.	65.	3977.
%RSD	1.9004	.45832	.98230
#1	28444.	14159.	409360.
#2	28450.	14169.	401890.
#3	27521.	14277.	403270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.260%	104.07%	98.700%
Range			

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Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49610	123600.	44.322	413.19	5.2559	166240.
Stddev	.58157	448.	1.450	1.47	.0350	577.
%RSD	117.23	.36264	3.2714	.35674	.66690	.34714
#1	-1.0274	123080.	44.078	411.67	5.2168	165650.
#2	.12522	123870.	43.009	413.29	5.2845	166280.
#3	-.58608	123850.	45.878	414.62	5.2664	166800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4781	74.373	148.56	214.98	F 266220.	13450.
Stddev	.0788	.066	1.65	2.62	672.	100.
%RSD	16.49	.08906	1.1075	1.2193	.25234	.7425
#1	.3905	74.345	146.85	212.01	265640.	13340.
#2	.5432	74.326	148.70	216.97	266070.	13470.
#3	.5006	74.449	150.13	215.97	266960.	13530.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84300.	6213.8	2.0016	594.41	215.21	138.21
Stddev	294.	85.8	.3564	7.86	.32	.46
%RSD	.3481	1.3813	17.808	1.3216	.14918	.33096
#1	84010.	6131.5	1.8670	585.33	214.86	138.31
#2	84290.	6207.0	1.7320	598.96	215.29	137.71
#3	84600.	6302.8	2.4057	598.93	215.49	138.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3652	6.7839	217.5	5.6036	157.03	726.79
Stddev	1.9772	2.3939	2.2	1.0994	1.22	1.04
%RSD	83.594	35.288	.9933	19.620	.77805	.14319
#1	.16419	4.0369	215.1	6.0145	155.62	726.29
#2	3.9910	8.4246	218.4	6.4384	157.77	726.10
#3	2.9405	7.8902	219.1	4.3579	157.70	727.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28029.	13818.	405370.
Stddev	119.	179.	1840.
%RSD	.42558	1.2987	.45390
#1	27994.	14026.	407410.
#2	27931.	13721.	404890.
#3	28162.	13709.	403820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.873%	101.27%	98.830%
Range			

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Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0010	34758.	36.456	437.20	2.6869	F 362870.
Stddev	.0636	351.	.514	4.55	.0449	3375.
%RSD	.90866	1.0095	1.4106	1.0413	1.6690	.93007
#1	7.0723	34366.	35.884	431.94	2.7368	361070.
#2	6.9807	35042.	36.605	439.65	2.6500	366760.
#3	6.9500	34867.	36.880	440.00	2.6739	360770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.74	34.079	483.75	315.44	F 205430.	7307.
Stddev	.11	.238	4.06	2.49	2336.	116.
%RSD	.6389	.69886	.83847	.78848	1.1371	1.580
#1	17.87	34.047	486.95	317.76	202740.	7177.
#2	17.65	34.331	479.19	312.82	206590.	7348.
#3	17.70	33.858	485.10	315.75	206960.	7397.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	132400.	3345.8	14.721	1297.0	248.87	581.86
Stddev	1589.	25.9	.150	4.2	.28	.30
%RSD	1.200	.77398	1.0216	.32626	.11121	.05083
#1	130500.	3324.5	14.793	1298.8	248.91	581.63
#2	133200.	3338.2	14.548	1300.0	248.57	582.19
#3	133300.	3374.6	14.822	1292.2	249.12	581.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3649	9.0930	822.0	5.8337	112.18	2227.8
Stddev	2.0930	1.3190	7.4	.4285	1.23	3.3
%RSD	88.506	14.505	.8995	7.3443	1.1007	.14922
#1	4.6447	8.5291	827.7	5.3397	113.23	2231.6
#2	1.9196	10.600	813.6	6.0582	110.82	2226.0
#3	.53032	8.1497	824.6	6.1033	112.50	2225.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26618.	13353.	382660.
Stddev	158.	171.	3581.
%RSD	.59231	1.2777	.93583
#1	26447.	13543.	378530.
#2	26649.	13212.	384650.
#3	26758.	13305.	384810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.896%	97.857%	93.293%
Range			

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Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3062	7197.7	6.7983	88.927	.53614	76713.	3.359
Stddev	.1036	50.3	1.5131	.236	.01154	138.	.022
%RSD	7.9313	.69949	22.257	.26484	2.1533	.17928	.6544
#1	1.4155	7189.9	7.6347	89.141	.54947	76762.	3.384
#2	1.2095	7251.4	7.7085	88.675	.52959	76558.	3.353
#3	1.2935	7151.7	5.0517	88.964	.52935	76820.	3.341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0937	98.943	67.070	42371.	1392.	27520.	707.05
Stddev	.0698	.997	1.149	112.	52.	87.	5.85
%RSD	.98391	1.0080	1.7131	.26439	3.753	.3168	.82671
#1	7.1742	97.934	65.746	42453.	1334.	27580.	700.96
#2	7.0574	98.966	67.810	42243.	1436.	27550.	707.58
#3	7.0496	99.928	67.654	42417.	1407.	27420.	712.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6807	207.42	51.920	123.35	2.2938	2.5000	167.2
Stddev	.1984	14.12	.346	1.78	.2250	.5542	1.3
%RSD	7.3995	6.8061	.66733	1.4435	9.8098	22.167	.7847
#1	2.9024	191.34	51.986	124.99	2.5521	2.7119	165.8
#2	2.5199	217.78	51.545	123.61	2.1892	1.8711	167.4
#3	2.6199	213.15	52.229	121.46	2.1401	2.9170	168.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.92221	23.095	463.74
Stddev	.66695	.189	.25
%RSD	72.321	.81698	.05337
#1	1.1108	23.021	464.01
#2	.18127	22.954	463.70
#3	1.4745	23.309	463.52
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27498.	13105.	396850.
Stddev	179.	133.	1969.
%RSD	.64984	1.0124	.49621
#1	27692.	12952.	399030.
#2	27463.	13168.	396360.
#3	27339.	13193.	395180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.000%	96.035%	96.753%
Range			

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Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7398	37384.	35.702	451.81	2.5437	281640.
Stddev	.3050	26.	1.378	.40	.0347	1420.
%RSD	6.4341	.06821	3.8586	.08882	1.3641	.50401
#1	4.6369	37355.	35.684	452.15	2.5472	281950.
#2	4.4996	37390.	37.088	451.37	2.5074	280080.
#3	5.0829	37405.	34.333	451.93	2.5765	282870.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.96	32.140	377.82	319.06	F 172560.	8276.
Stddev	.13	.025	4.42	3.15	304.	26.
%RSD	.8725	.07877	1.1697	.98580	.17592	.3160
#1	14.92	32.110	380.36	321.34	172300.	8248.
#2	15.10	32.155	372.71	315.47	172500.	8280.
#3	14.85	32.153	380.37	320.37	172890.	8300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80660.	3030.3	12.509	1320.3	202.66	433.75
Stddev	66.	36.9	.302	16.6	.38	.16
%RSD	.0822	1.2176	2.4116	1.2595	.18534	.03584
#1	80650.	3060.0	12.760	1305.9	202.98	433.79
#2	80600.	2989.0	12.175	1338.5	202.25	433.88
#3	80730.	3042.0	12.593	1316.5	202.75	433.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2988	8.5226	865.6	5.4783	114.68	1781.2
Stddev	.6365	1.8321	9.7	1.0912	1.25	1.9
%RSD	19.296	21.497	1.120	19.918	1.0940	.10807
#1	3.9946	8.0411	871.5	4.2272	115.34	1783.3
#2	3.1561	6.9793	854.5	5.9751	113.23	1779.6
#3	2.7458	10.547	871.0	6.2328	115.47	1780.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27132.	13443.	390230.
Stddev	158.	79.	3937.
%RSD	.58228	.59037	1.0088
#1	27056.	13363.	388500.
#2	27026.	13444.	394740.
#3	27313.	13522.	387460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.708%	98.515%	95.139%
Range			

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Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71.181	47446.	90.674	3138.6	72.299	F 367830.
Stddev	.951	120.	1.730	15.5	.502	5965.
%RSD	1.3361	.25264	1.9081	.49323	.69451	1.6217
#1	70.811	47308.	92.447	3124.8	71.723	370490.
#2	70.470	47528.	90.586	3155.4	72.533	372010.
#3	72.261	47500.	88.990	3135.6	72.642	361000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75.04	621.42	643.27	687.42	F 197060.	10840.
Stddev	.12	.63	4.46	4.84	823.	23.
%RSD	.1575	.10192	.69346	.70441	.41761	.2121
#1	74.90	620.89	638.14	681.88	196210.	10810.
#2	75.08	621.25	646.23	689.47	197850.	10860.
#3	75.13	622.12	645.45	690.89	197110.	10840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	114500.	4107.3	16.878	1407.8	806.26	472.67
Stddev	362.	24.1	.182	10.7	1.19	1.32
%RSD	.3161	.58594	1.0792	.75689	.14723	.27915
#1	114200.	4098.6	17.003	1405.0	805.18	473.55
#2	114900.	4134.5	16.669	1398.9	806.06	471.16
#3	114300.	4088.7	16.963	1419.6	807.53	473.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.243	126.81	1014.	60.223	759.71	2475.8
Stddev	1.877	1.07	7.	1.366	5.13	3.7
%RSD	5.3251	.84097	.6501	2.2689	.67514	.15026
#1	36.162	126.08	1006.	59.704	753.79	2473.2
#2	36.483	126.31	1016.	59.193	762.56	2474.2
#3	33.084	128.03	1018.	61.773	762.79	2480.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27079.	13424.	388560.
Stddev	69.	231.	2329.
%RSD	.25372	1.7235	.59933
#1	27057.	13374.	390730.
#2	27156.	13222.	386100.
#3	27024.	13677.	388850.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.523%	98.377%	94.732%
Range			

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Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.255	34411.	56.355	839.37	13.208	F 372730.
Stddev	.601	77.	1.354	2.85	.228	9249.
%RSD	2.2046	.22447	2.4030	.34011	1.7277	2.4814
#1	26.584	34425.	56.827	840.26	12.947	362230.
#2	27.439	34328.	57.410	836.17	13.307	376310.
#3	27.743	34480.	54.828	841.66	13.370	379660.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.66	123.63	499.76	360.25	F 201010.	18470.
Stddev	.31	.11	8.07	4.67	750.	138.
%RSD	1.153	.08812	1.6141	1.2953	.37329	.7454
#1	26.77	123.53	490.45	354.89	200930.	18370.
#2	26.31	123.61	504.35	362.41	200310.	18410.
#3	26.90	123.75	504.49	363.44	201800.	18630.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	139200.	3344.4	14.517	12722.	315.11	586.33
Stddev	476.	115.0	.195	88.	.41	1.59
%RSD	.3417	3.4391	1.3421	.69209	.13078	.27036
#1	138900.	3227.7	14.632	12686.	315.53	585.20
#2	138900.	3457.7	14.292	12658.	314.70	585.64
#3	139700.	3347.9	14.628	12823.	315.10	588.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.51	76.938	814.7	47.418	211.18	2298.3
Stddev	2.30	.043	13.0	.571	4.05	2.2
%RSD	1.9533	.05635	1.589	1.2046	1.9191	.09397
#1	118.52	76.914	799.8	47.871	206.50	2299.2
#2	119.13	76.912	822.4	46.776	213.32	2295.9
#3	114.89	76.988	821.9	47.605	213.71	2299.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26322.	13305.	378150.
Stddev	65.	109.	5969.
%RSD	.24659	.81697	1.5784
#1	26390.	13427.	385040.
#2	26314.	13270.	374650.
#3	26261.	13218.	374760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.851%	97.504%	92.193%
Range			

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Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0103	41757.	28.546	320.26	2.2020	238160.	5.085
Stddev	.6853	64.	.860	1.20	.0397	4173.	.018
%RSD	34.087	.15269	3.0122	.37624	1.8014	1.7520	.3632
#1	1.3752	41727.	29.226	318.87	2.1694	237210.	5.078
#2	2.7366	41831.	27.579	320.84	2.2462	234540.	5.106
#3	1.9192	41714.	28.832	321.05	2.1904	242730.	5.072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.101	200.92	276.73	121850.	9738.	101100.	2380.2
Stddev	.200	2.53	3.47	320.	69.	407.	28.1
%RSD	.57066	1.2597	1.2532	.26286	.7049	.4028	1.1801
#1	34.875	198.10	273.59	121500.	9666.	100600.	2356.0
#2	35.176	202.98	280.45	122130.	9747.	101200.	2411.0
#3	35.254	201.68	276.16	121930.	9802.	101400.	2373.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.9269	837.55	136.02	200.87	2.0130	7.1497	845.8
Stddev	.1592	4.70	.33	1.20	.8171	.9145	9.0
%RSD	2.0078	.56158	.24303	.59900	40.590	12.790	1.062
#1	8.0971	836.64	135.93	199.90	1.6687	6.1141	836.2
#2	7.7817	842.65	135.74	200.51	1.4244	7.8459	854.0
#3	7.9019	833.37	136.38	202.22	2.9459	7.4892	847.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.1994	114.69	973.01
Stddev	1.0036	.80	1.50
%RSD	23.898	.69558	.15406
#1	3.0574	113.78	972.02
#2	4.9409	115.09	972.28
#3	4.5998	115.22	974.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27054.	13088.	390300.
Stddev	61.	94.	4103.
%RSD	.22485	.71824	1.0511
#1	27035.	13091.	395010.
#2	27123.	13180.	387540.
#3	27006.	12992.	388340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.435%	95.911%	95.155%
Range			

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Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8297	36492.	67.657	492.15	3.0966	F 343150.
Stddev	.2256	124.	1.093	1.18	.0248	10299.
%RSD	12.329	.33905	1.6150	.23972	.80019	3.0014
#1	2.0441	36406.	68.010	492.62	3.0770	331340.
#2	1.8507	36634.	66.431	493.02	3.1244	347770.
#3	1.5944	36437.	68.529	490.81	3.0883	350320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.550	62.184	436.06	320.66	F 579220.	5819.
Stddev	.127	.038	4.31	3.31	9011.	53.
%RSD	2.781	.06101	.98815	1.0310	1.5557	.9138
#1	4.461	62.216	434.04	319.44	581370.	5758.
#2	4.695	62.193	441.00	324.40	569330.	5853.
#3	4.494	62.142	433.13	318.14	586960.	5847.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103600.	6003.7	24.142	1340.3	355.70	294.52
Stddev	726.	34.2	.332	19.6	.89	1.67
%RSD	.7001	.56962	1.3732	1.4600	.24881	.56684
#1	103900.	6036.7	24.067	1358.9	355.34	295.11
#2	102800.	5968.4	23.855	1319.9	355.05	295.82
#3	104200.	6005.8	24.505	1342.1	356.71	292.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.74588	12.406	1800.	9.8637	162.53	1677.7
Stddev	1.9256	1.346	15.	2.0113	1.43	.9
%RSD	258.17	10.853	.8431	20.391	.88138	.05578
#1	2.3586	12.433	1791.	11.160	162.02	1677.9
#2	1.2652	13.739	1818.	10.884	164.14	1678.6
#3	-1.3862	11.047	1791.	7.5468	161.41	1676.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26405.	13191.	379590.
Stddev	137.	139.	2266.
%RSD	.51853	1.0501	.59704
#1	26291.	13214.	378750.
#2	26368.	13317.	377870.
#3	26557.	13042.	382160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.146%	96.667%	92.545%
Range			

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Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13182	43362.	10.136	107.10	1.5281	5264.8	.0125
Stddev	.26490	217.	1.253	.47	.0214	21.6	.1239
%RSD	200.96	.50151	12.360	.43496	1.4016	.40995	992.6
#1	.26027	43111.	8.7891	107.07	1.5257	5242.0	.1548
#2	-.17281	43485.	11.267	107.59	1.5080	5267.4	-.0718
#3	.30800	43490.	10.351	106.66	1.5507	5285.0	-.0455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.287	56.953	57.194	90094.	3150.	22680.	757.15
Stddev	.225	1.051	.550	232.	30.	172.	13.22
%RSD	.92669	1.8449	.96105	.25805	.9377	.7598	1.7460
#1	24.104	57.308	57.109	89861.	3119.	22530.	757.52
#2	24.219	55.771	56.691	90096.	3178.	22650.	743.75
#3	24.538	57.781	57.781	90326.	3151.	22870.	770.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35899	129.03	73.580	32.341	2.0110	2.7560	79.02
Stddev	.15065	9.65	.136	1.046	1.8752	.9501	1.55
%RSD	41.965	7.4761	.18537	3.2351	93.246	34.474	1.956
#1	.18961	136.97	73.471	32.543	3.0727	1.6604	79.40
#2	.40936	131.83	73.536	33.271	3.1145	3.3528	77.32
#3	.47800	118.29	73.733	31.208	-.15414	3.2548	80.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54650	48.920	212.16
Stddev	1.0603	.622	.33
%RSD	194.02	1.2721	.15501
#1	.28961	48.438	212.44
#2	-.36176	48.698	212.24
#3	1.7116	49.622	211.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28385.	13354.	402180.
Stddev	109.	91.	7366.
%RSD	.38569	.68114	1.8315
#1	28288.	13252.	402130.
#2	28362.	13424.	409560.
#3	28504.	13387.	394830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.13%	97.866%	98.051%
Range			

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Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15562	55696.	14.597	154.84	1.6784	5160.5	.5356
Stddev	.20275	280.	.777	.73	.0219	15.1	.0888
%RSD	130.28	.50196	5.3226	.47060	1.3041	.29224	16.59
#1	-.08767	55394.	13.821	154.08	1.6945	5145.3	.6360
#2	.00442	55747.	14.594	154.92	1.6535	5175.5	.5033
#3	-.38362	55946.	15.375	155.53	1.6871	5160.7	.4674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.724	85.344	69.781	117500.	3704.	29420.	1377.7
Stddev	.083	.692	.246	225.	13.	170.	7.6
%RSD	.20331	.81077	.35257	.19134	.3568	.5776	.54843
#1	40.659	86.110	70.041	117330.	3716.	29230.	1386.0
#2	40.695	85.159	69.751	117760.	3705.	29520.	1371.2
#3	40.817	84.763	69.551	117410.	3690.	29530.	1375.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13494	188.94	91.809	86.207	.99085	.93044	174.1
Stddev	.14615	2.58	.414	1.224	1.0340	.58845	1.6
%RSD	108.30	1.3642	.45087	1.4196	104.36	63.244	.9197
#1	-.25901	191.76	91.384	87.417	-.17321	1.1001	175.9
#2	.02616	188.37	91.833	86.234	1.3429	1.4154	173.3
#3	-.17196	186.70	92.210	84.970	1.8029	.27579	173.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.16550	60.860	348.47
Stddev	2.5128	.515	.58
%RSD	1518.3	.84667	.16520
#1	2.6797	61.454	348.36
#2	-2.3459	60.528	347.96
#3	.16265	60.598	349.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13147.	396170.
Stddev	81.	55.	2571.
%RSD	.28903	.41918	.64885
#1	27890.	13199.	393210.
#2	27778.	13155.	397400.
#3	27934.	13089.	397890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.302%	96.349%	96.585%
Range			

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Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31372	45812.	11.743	133.44	1.5713	4002.0	.3777
Stddev	.22910	1465.	.524	4.11	.0260	140.4	.0662
%RSD	73.028	3.1978	4.4601	3.0812	1.6546	3.5075	17.52
#1	-.49307	45836.	11.162	134.57	1.5828	4026.1	.4523
#2	-.05563	44336.	12.179	128.88	1.5896	3851.1	.3549
#3	-.39246	47265.	11.888	136.86	1.5415	4128.7	.3260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.320	62.998	55.966	100170.	3584.	20590.	1132.0
Stddev	.255	.091	.712	3259.	59.	660.	4.8
%RSD	.72208	.14423	1.2716	3.2537	1.657	3.207	.42514
#1	35.080	62.899	55.146	100690.	3600.	20780.	1127.0
#2	35.292	63.015	56.422	96677.	3518.	19850.	1136.6
#3	35.588	63.079	56.329	103130.	3633.	21130.	1132.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02244	165.42	74.660	62.417	.96374	3.5042	100.8
Stddev	.25707	35.40	.439	.593	.82154	1.2676	.4
%RSD	1145.4	21.401	.58769	.95059	85.245	36.173	.4277
#1	.16509	201.59	74.878	62.167	1.8547	4.3946	100.4
#2	.17656	130.85	74.155	61.989	.80046	4.0651	100.8
#3	-.27432	163.81	74.948	63.094	.23611	2.0530	101.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4265	48.442	266.19
Stddev	.3201	.291	.31
%RSD	22.443	.59988	.11794
#1	1.5858	48.452	266.27
#2	1.6358	48.147	265.84
#3	1.0580	48.728	266.46
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27999.	13280.	400300.
Stddev	39.	425.	2465.
%RSD	.13946	3.2038	.61590
#1	28043.	13177.	401980.
#2	27981.	13748.	397470.
#3	27972.	12916.	401450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.766%	97.322%	97.593%
Range			

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Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40397	51667.	20.260	156.32	1.9152	16589.	1.477
Stddev	.53533	139.	.610	.60	.0257	36.	.096
%RSD	132.52	.26889	3.0127	.38551	1.3401	.21734	6.513
#1	-.68091	51751.	20.901	156.77	1.8988	16615.	1.507
#2	-.74409	51507.	20.193	156.56	1.9448	16603.	1.369
#3	.21310	51744.	19.685	155.64	1.9020	16548.	1.554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.820	119.20	99.840	109690.	5250.	29550.	1183.2
Stddev	.208	.55	.489	210.	49.	56.	9.7
%RSD	.52185	.46244	.48951	.19131	.9392	.1883	.82284
#1	40.050	118.67	100.28	109910.	5305.	29510.	1176.5
#2	39.644	119.77	99.924	109670.	5208.	29610.	1194.4
#3	39.767	119.15	99.315	109490.	5238.	29520.	1178.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2594	382.35	89.721	123.93	2.7731	3.0535	341.7
Stddev	.1501	5.63	.116	1.15	1.1195	2.2944	3.6
%RSD	11.917	1.4720	.12930	.92639	40.368	75.141	1.044
#1	1.1817	376.29	89.609	124.84	1.7538	3.1785	339.5
#2	1.1641	387.41	89.841	124.30	3.9712	5.2828	345.8
#3	1.4324	383.35	89.712	122.64	2.5943	.69912	339.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0466	67.877	550.61
Stddev	.5489	.812	.63
%RSD	52.447	1.1964	.11395
#1	1.2117	67.270	550.93
#2	1.4941	68.799	549.88
#3	.43412	67.561	551.00
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28139.	13276.	406660.
Stddev	20.	47.	3418.
%RSD	.07150	.35525	.84050
#1	28116.	13232.	409140.
#2	28155.	13270.	402760.
#3	28144.	13326.	408090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.260%	97.290%	99.145%
Range			

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Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49422	28585.	2.1555	58.250	.92531	2956.2	.5269
Stddev	.69021	147.	.9466	.370	.02896	7.5	.0803
%RSD	139.66	.51445	43.916	.63472	3.1299	.25512	15.24
#1	.15383	28516.	1.0828	57.879	.95659	2952.4	.6129
#2	-.41648	28754.	2.8738	58.252	.89942	2964.9	.5139
#3	-1.2200	28485.	2.5099	58.618	.91992	2951.3	.4539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.946	43.471	35.432	59771.	2087.	14280.	512.52
Stddev	.061	.386	.305	152.	62.	30.	7.38
%RSD	.30385	.88804	.86169	.25418	2.973	.2130	1.4400
#1	20.010	43.916	35.483	59688.	2055.	14250.	521.05
#2	19.939	43.267	35.104	59946.	2047.	14310.	508.38
#3	19.889	43.229	35.708	59678.	2158.	14270.	508.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37269	15.768	49.903	29.784	1.8884	1.5228	48.13
Stddev	.11344	13.799	.068	1.299	.9950	1.5272	2.46
%RSD	30.437	87.510	.13670	4.3608	52.690	100.29	5.102
#1	-.44824	31.701	49.962	29.607	2.9433	.33934	47.44
#2	-.24225	7.9758	49.828	31.161	.96677	.98218	50.85
#3	-.42759	7.6287	49.917	28.582	1.7550	3.2468	46.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1783	28.851	210.61
Stddev	1.1843	.728	.36
%RSD	100.51	2.5236	.17259
#1	-.18804	29.671	210.44
#2	1.8121	28.605	210.36
#3	1.9110	28.278	211.03
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28217.	13226.	404450.
Stddev	48.	80.	5568.
%RSD	.16854	.60722	1.3766
#1	28207.	13265.	398020.
#2	28176.	13279.	407730.
#3	28269.	13133.	407590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.538%	96.922%	98.604%
Range			

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Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09942	30423.	4.1242	51.174	1.0974	3640.0	.3657
Stddev	.19074	141.	.0475	.081	.0228	6.8	.0546
%RSD	191.86	.46279	1.1528	.15779	2.0738	.18616	14.93
#1	.27498	30308.	4.1577	51.266	1.1233	3635.6	.4263
#2	.12680	30380.	4.0698	51.139	1.0806	3636.7	.3203
#3	-.10353	30580.	4.1450	51.116	1.0882	3647.8	.3505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.528	41.798	66.389	71820.	1723.	16430.	555.88
Stddev	.108	.566	1.544	112.	66.	51.	10.42
%RSD	.55071	1.3538	2.3257	.15598	3.804	.3112	1.8738
#1	19.627	42.448	68.056	71692.	1712.	16390.	567.75
#2	19.542	41.411	65.008	71866.	1664.	16410.	548.28
#3	19.414	41.536	66.102	71902.	1794.	16490.	551.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21689	19.374	54.290	33.794	.55168	1.7011	38.77
Stddev	.13523	14.609	.476	1.293	.86202	.3592	.81
%RSD	62.350	75.406	.87699	3.8265	156.25	21.117	2.083
#1	-.33113	19.685	53.927	32.473	.14546	1.5489	39.67
#2	-.06758	4.6120	54.829	35.057	1.5418	2.1113	38.12
#3	-.25197	33.826	54.113	33.852	-.03219	1.4430	38.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.77938	34.270	262.04
Stddev	.57734	.590	.56
%RSD	74.077	1.7215	.21301
#1	.37471	34.940	261.67
#2	1.4405	33.826	262.68
#3	.52291	34.046	261.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27879.	12975.	402110.
Stddev	90.	91.	8432.
%RSD	.32378	.69930	2.0969
#1	27803.	12922.	393110.
#2	27854.	13080.	409820.
#3	27979.	12923.	403410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.343%	95.087%	98.035%
Range			

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Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08248	21165.	10.791	189.76	1.0323	94808.	.4672
Stddev	.03395	105.	.621	1.09	.0157	154.	.2101
%RSD	41.163	.49439	5.7588	.57227	1.5230	.16238	44.96
#1	.08749	21050.	10.414	188.50	1.0185	94631.	.6549
#2	.04630	21255.	10.452	190.41	1.0290	94914.	.5064
#3	.11365	21188.	11.509	190.36	1.0494	94878.	.2403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.617	36.122	85.066	64381.	2119.	56030.	1013.3
Stddev	.087	.092	.787	54.	28.	83.	10.5
%RSD	.59343	.25371	.92534	.08421	1.304	.1487	1.0355
#1	14.716	36.227	85.644	64325.	2087.	56080.	1024.5
#2	14.575	36.061	84.169	64433.	2130.	56070.	1003.7
#3	14.559	36.076	85.384	64387.	2139.	55930.	1011.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69043	153.54	44.225	223.95	.26536	1.3035	43.96
Stddev	.19350	12.54	.228	.76	.36943	2.7600	.60
%RSD	28.026	8.1654	.51552	.33927	139.22	211.74	1.357
#1	.86117	148.70	44.014	224.12	-.10345	2.0854	44.45
#2	.72989	167.78	44.193	224.60	.63541	-1.7631	43.30
#3	.48025	144.15	44.467	223.11	.26411	3.5883	44.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7394	32.977	217.95
Stddev	.9895	.206	.33
%RSD	56.885	.62520	.15351
#1	2.3449	33.209	217.68
#2	2.2757	32.815	218.33
#3	.59757	32.908	217.85
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27438.	13024.	395010.
Stddev	65.	103.	3616.
%RSD	.23650	.79042	.91545
#1	27503.	13036.	391180.
#2	27373.	12915.	395480.
#3	27437.	13120.	398360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.788%	95.442%	96.303%
Range			

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Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07706	28235.	9.0712	121.53	1.1859	39161.	.6300
Stddev	.29905	44.	.5156	.64	.0049	63.	.0604
%RSD	388.09	.15631	5.6835	.52440	.41336	.15979	9.592
#1	.41444	28184.	9.5000	121.35	1.1802	39230.	.6371
#2	-.15532	28257.	9.2144	122.24	1.1889	39107.	.5663
#3	-.02796	28264.	8.4992	121.01	1.1884	39148.	.6865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.194	43.890	76.513	65357.	2198.	31130.	1136.8
Stddev	.228	.263	.914	78.	64.	57.	6.1
%RSD	1.1302	.59887	1.1944	.11919	2.927	.1827	.53531
#1	20.456	44.186	77.320	65435.	2184.	31190.	1140.8
#2	20.037	43.798	76.699	65280.	2268.	31120.	1139.9
#3	20.090	43.685	75.521	65356.	2142.	31080.	1129.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75875	346.93	52.232	165.16	.18821	.92341	67.02
Stddev	.09767	7.67	.178	.76	.87176	.54045	.63
%RSD	12.873	2.2119	.34110	.45812	463.19	58.528	.9464
#1	.75143	340.00	52.217	164.30	-.07790	1.3985	67.31
#2	.66494	345.62	52.417	165.42	1.1620	.33542	67.47
#3	.85988	355.18	52.062	165.74	-.51949	1.0363	66.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6899	39.642	285.77
Stddev	1.0626	.391	.34
%RSD	62.879	.98590	.11811
#1	.69332	39.463	285.47
#2	2.8081	40.091	285.72
#3	1.5684	39.373	286.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27790.	13077.	398810.
Stddev	112.	13.	1552.
%RSD	.40243	.10178	.38914
#1	27748.	13076.	397830.
#2	27916.	13090.	398000.
#3	27704.	13064.	400600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.029%	95.831%	97.230%
Range			

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Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20219	41705.	20.016	177.14	1.9296	25185.	.6662
Stddev	.08580	152.	.840	.62	.0434	66.	.1140
%RSD	42.436	.36382	4.1964	.35109	2.2464	.26257	17.11
#1	-.12668	41545.	19.327	176.44	1.9245	25111.	.7134
#2	-.29550	41724.	20.952	177.62	1.8890	25240.	.5362
#3	-.18441	41847.	19.770	177.36	1.9752	25203.	.7490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.389	61.927	108.07	100390.	4016.	30380.	1276.9
Stddev	.171	1.396	2.25	181.	106.	103.	25.0
%RSD	.60130	2.2534	2.0824	.18025	2.649	.3383	1.9561
#1	28.504	61.592	107.53	100180.	4122.	30260.	1272.3
#2	28.471	60.730	106.14	100460.	4019.	30430.	1254.6
#3	28.193	63.460	110.54	100520.	3909.	30440.	1303.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4653	220.13	83.111	233.82	1.2613	2.3519	96.66
Stddev	.2238	18.28	.431	.59	2.4716	1.3862	1.51
%RSD	15.275	8.3035	.51897	.25216	195.96	58.939	1.558
#1	1.2334	241.23	82.645	233.14	3.9571	3.7737	96.43
#2	1.4824	209.01	83.497	234.15	.72484	2.2777	95.29
#3	1.6801	210.15	83.189	234.18	-.89804	1.0043	98.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3106	64.033	429.35
Stddev	.8893	1.548	.58
%RSD	67.851	2.4177	.13517
#1	.45967	64.074	429.19
#2	2.2338	62.465	429.99
#3	1.2384	65.560	428.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28267.	13527.	404120.
Stddev	94.	176.	6407.
%RSD	.33169	1.3042	1.5853
#1	28205.	13503.	404090.
#2	28222.	13715.	410540.
#3	28375.	13364.	397730.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.714%	99.133%	98.525%
Range			

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Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02486	52468.	17.540	176.59	1.8349	17695.	7.247
Stddev	.25363	55.	1.084	.37	.0242	31.	.042
%RSD	1020.4	.10555	6.1783	.20723	1.3184	.17542	.5774
#1	-.18675	52470.	16.428	176.34	1.8346	17659.	7.251
#2	.30601	52412.	18.593	176.42	1.8109	17712.	7.203
#3	-.04468	52523.	17.600	177.01	1.8593	17713.	7.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.468	142.73	227.57	118070.	3065.	33260.	1369.1
Stddev	.110	1.04	2.20	348.	69.	167.	13.2
%RSD	.30111	.73109	.96646	.29509	2.252	.5006	.96167
#1	36.594	142.38	227.40	117670.	3055.	33070.	1367.8
#2	36.389	141.91	225.46	118300.	3138.	33300.	1356.5
#3	36.422	143.90	229.85	118230.	3001.	33400.	1382.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.94722	166.58	98.221	691.84	8.2982	3.0790	116.2
Stddev	.09777	9.20	.181	2.45	1.7845	1.4221	.9
%RSD	10.322	5.5243	.18424	.35386	21.505	46.185	.7439
#1	.94259	157.55	98.037	693.93	6.2793	1.8992	116.3
#2	.85185	166.26	98.398	692.45	8.9505	4.6580	115.2
#3	1.0472	175.94	98.228	689.15	9.6648	2.6799	116.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3017	62.373	1095.6
Stddev	.8042	.323	1.0
%RSD	34.941	.51849	.08981
#1	3.0450	62.738	1095.6
#2	1.4480	62.122	1096.5
#3	2.4121	62.260	1094.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27772.	13275.	400500.
Stddev	161.	150.	2373.
%RSD	.57906	1.1295	.59259
#1	27589.	13111.	400080.
#2	27888.	13405.	403060.
#3	27839.	13309.	398370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.967%	97.283%	97.642%
Range			

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Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	730.49	50518.	2477.8	10237.	1043.9	51211.	960.1
Stddev	11.97	435.	3.0	213.	25.7	282.	.5
%RSD	1.6392	.86108	.12289	2.0830	2.4598	.54988	.0550
#1	717.33	50126.	2474.8	10371.	1023.0	50953.	960.3
#2	740.73	50986.	2480.9	9991.2	1072.6	51511.	960.6
#3	733.41	50441.	2477.8	10349.	1036.0	51168.	959.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4723.9	9902.9	12350.	24576.	40650.	49040.	4991.9
Stddev	.8	154.6	183.	143.	174.	408.	29.2
%RSD	.01781	1.5608	1.4795	.58292	.4290	.8325	.58415
#1	4723.6	9729.2	12217.	24456.	40520.	48640.	4961.0
#2	4724.8	10025.	12558.	24735.	40850.	49450.	5019.0
#3	4723.1	9954.4	12275.	24537.	40590.	49030.	4995.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.26	26774.	4773.5	9247.1	2419.7	1240.2	1006.
Stddev	1.28	131.	4.1	5.0	3.6	1.4	16.
%RSD	.13056	.48758	.08526	.05361	.14732	.10978	1.581
#1	981.44	26667.	4774.3	9241.7	2423.1	1240.8	987.6
#2	980.43	26920.	4777.2	9248.0	2420.0	1241.2	1018.
#3	978.90	26736.	4769.1	9251.5	2416.0	1238.6	1012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	900.07	2514.0	4863.1
Stddev	1.63	38.5	2.2
%RSD	.18126	1.5311	.04465
#1	899.38	2470.2	4860.7
#2	901.93	2542.6	4865.0
#3	898.90	2529.1	4863.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26642.	13063.	391870.
Stddev	44.	94.	5647.
%RSD	.16462	.71951	1.4411
#1	26667.	12970.	396430.
#2	26591.	13158.	385560.
#3	26668.	13062.	393640.

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Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23391	11.983	-.39982	.17323	-.01909	2.4983	.0071
Stddev	.44981	10.178	1.0119	.18684	.01257	.8372	.1005
%RSD	192.30	84.937	253.09	107.86	65.842	33.511	1414.
#1	.14813	6.2878	-1.5554	.18908	-.00915	3.4643	.1083
#2	-.72967	23.735	.32784	-.02104	-.01490	1.9819	.0057
#3	-.12019	5.9280	.02808	.35164	-.03321	2.0488	-.0927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10881	-.23007	.34199	4.2529	39.90	6.861	.09914
Stddev	.18089	.35701	.31084	8.2338	33.61	11.07	.07483
%RSD	166.24	155.18	90.892	193.60	84.25	161.4	75.481
#1	-.01822	.18114	.66141	7.0393	6.021	18.83	.13880
#2	.00888	-.41032	.04050	-5.0126	40.43	4.757	.14579
#3	-.31709	-.46101	.32406	10.732	73.24	-3.009	.01283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22781	-90.983	.05941	-.06348	1.7163	1.2713	-.0883
Stddev	.28875	16.918	.09830	1.2671	1.0273	2.1398	.1927
%RSD	126.75	18.595	165.47	1996.2	59.854	168.31	218.4
#1	.56011	-90.709	.07687	.96627	1.5296	3.7303	-.0968
#2	.03797	-108.04	-.04645	-1.4785	2.8241	.25058	-.2766
#3	.08535	-74.204	.14782	.32184	.79515	-.16698	.1086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.76615	.21743	-.00667
Stddev	1.0879	.35244	.04041
%RSD	142.00	162.10	605.80
#1	1.6038	-.10659	-.02407
#2	1.1580	.16619	.03953
#3	-.46341	.59269	-.03547
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28395.	13025.	410960.
Stddev	83.	78.	4379.
%RSD	.29241	.59587	1.0655
#1	28306.	12936.	406180.
#2	28470.	13080.	411920.
#3	28410.	13058.	414780.

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Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24309	59682.	24.104	441.29	2.1301	16424.
Stddev	.34052	284.	.387	1.69	.0495	62.
%RSD	140.08	.47548	1.6040	.38381	2.3236	.37905
#1	.63183	59372.	24.453	439.44	2.1728	16354.
#2	.09990	59929.	24.171	442.77	2.0758	16472.
#3	-.00245	59745.	23.688	441.65	2.1416	16448.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.791	34.257	108.56	356.84	F 151760.	5040.
Stddev	.144	1.413	1.91	6.46	496.	16.
%RSD	5.162	4.1236	1.7635	1.8108	.32658	.3118
#1	2.825	35.783	110.14	363.63	151220.	5035.
#2	2.914	33.993	106.43	350.76	152180.	5027.
#3	2.633	32.995	109.12	356.12	151890.	5057.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35130.	1711.6	1.4427	247.49	97.031	349.07
Stddev	109.	29.0	.2090	4.53	4.159	15.48
%RSD	.3096	1.6948	14.484	1.8320	4.2863	4.4336
#1	35020.	1738.4	1.3614	242.37	101.52	366.05
#2	35240.	1680.8	1.6801	249.11	96.274	345.41
#3	35130.	1715.6	1.2866	250.99	93.302	335.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9314	2.9704	158.7	2.0900	77.317	1078.5
Stddev	1.0360	1.6491	2.8	.5396	1.485	44.5
%RSD	26.353	55.517	1.768	25.816	1.9212	4.1239
#1	2.7353	1.6412	161.4	2.2318	78.771	1126.3
#2	4.5513	4.8158	155.8	2.5445	75.802	1070.9
#3	4.5075	2.4542	158.9	1.4937	77.379	1038.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27955.	13224.	396580.
Stddev	24.	48.	13628.
%RSD	.08489	.36350	3.4364
#1	27949.	13231.	402140.
#2	27982.	13173.	406540.
#3	27936.	13268.	381050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.613%	96.910%	96.685%
Range			

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Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04156	10639.	5.0731	77.342	.35536	2896.8	.6528
Stddev	.30095	43.	.9985	.452	.01005	12.8	.0550
%RSD	724.17	.40115	19.682	.58433	2.8283	.44252	8.425
#1	-.29084	10612.	4.0400	77.771	.36108	2883.0	.6500
#2	.11996	10689.	5.1464	76.870	.34375	2899.1	.5992
#3	.29555	10617.	6.0329	77.385	.36124	2908.3	.7091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.3185	19.480	65.096	26809.	882.3	6244.	310.30
Stddev	.0903	.150	.535	118.	54.8	81.	2.06
%RSD	1.2343	.76818	.82251	.43975	6.206	1.296	.66270
#1	7.3529	19.652	64.873	26693.	840.2	6155.	310.90
#2	7.2160	19.382	64.709	26803.	862.6	6265.	308.02
#3	7.3866	19.405	65.707	26929.	944.2	6313.	312.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02811	-29.639	20.378	76.223	1.8583	1.1452	31.42
Stddev	.16998	19.737	.154	.926	.6785	1.2121	.97
%RSD	604.77	66.591	.75360	1.2149	36.512	105.84	3.093
#1	-.01954	-9.9577	20.218	75.476	1.5345	2.5319	30.84
#2	.13742	-29.529	20.391	77.259	1.4023	.28728	30.87
#3	-.20221	-49.431	20.524	75.934	2.6380	.61653	32.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.40766	14.201	227.19
Stddev	.91548	.269	.27
%RSD	224.57	1.8910	.11999
#1	.15364	14.503	226.88
#2	-1.4641	13.988	227.30
#3	.08745	14.113	227.39
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28200.	13206.	410400.
Stddev	88.	147.	2567.
%RSD	.31211	1.1096	.62545
#1	28100.	13287.	408630.
#2	28267.	13037.	413350.
#3	28233.	13294.	409240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.477%	96.777%	100.06%
Range			

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Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13909	53431.	28.090	193.95	2.1231	41579.	3.364
Stddev	.48921	629.	1.377	1.68	.1147	426.	.045
%RSD	351.72	1.1777	4.9024	.86418	5.4019	1.0245	1.335
#1	-.42564	52725.	28.890	192.24	2.1046	41164.	3.369
#2	.43330	53931.	28.880	195.59	2.2459	42015.	3.316
#3	.40961	53637.	26.500	194.01	2.0188	41557.	3.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.695	103.87	255.60	139720.	4838.	44990.	1678.6
Stddev	.842	5.11	11.98	1412.	23.	598.	81.0
%RSD	2.5764	4.9160	4.6888	1.0104	.4848	1.328	4.8231
#1	33.589	103.83	256.45	138320.	4822.	44350.	1684.7
#2	32.579	108.99	267.13	141140.	4827.	45540.	1756.4
#3	31.917	98.777	243.21	139680.	4865.	45080.	1594.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4332	238.67	88.001	467.77	6.2454	2.4444	196.6
Stddev	.2235	17.34	1.982	10.21	.9475	.9190	9.8
%RSD	15.594	7.2645	2.2525	2.1833	15.171	37.595	4.988
#1	1.5706	218.65	90.116	477.67	7.0268	1.5090	197.7
#2	1.1753	248.53	87.701	468.37	5.1915	2.4783	205.8
#3	1.5536	248.83	86.186	457.28	6.5178	3.3460	186.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8044	70.143	857.29
Stddev	.7532	3.439	18.34
%RSD	41.744	4.9029	2.1398
#1	1.7682	70.439	876.48
#2	2.5750	73.424	855.44
#3	1.0699	66.565	839.93
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27691.	13145.	394890.
Stddev	177.	51.	17054.
%RSD	.64056	.38828	4.3186
#1	27888.	13111.	411300.
#2	27544.	13203.	377260.
#3	27640.	13120.	396100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.680%	96.329%	96.274%
Range			

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Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.148	54056.	64.417	2276.6	51.610	18157.	46.32
Stddev	.861	376.	1.251	5.0	.482	40.	.21
%RSD	1.9074	.69626	1.9418	.21876	.93348	.22201	.4503
#1	44.527	54082.	63.024	2281.3	51.085	18194.	46.22
#2	44.785	54419.	64.784	2277.2	51.713	18164.	46.18
#3	46.131	53668.	65.444	2271.4	52.031	18114.	46.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	478.22	315.14	481.15	132660.	5531.	30930.	2506.0
Stddev	1.04	2.93	4.50	303.	32.	59.	39.8
%RSD	.21782	.92829	.93602	.22809	.5759	.1916	1.5862
#1	477.43	311.82	475.99	132920.	5568.	31000.	2470.3
#2	477.82	316.29	483.19	132730.	5516.	30890.	2498.9
#3	479.40	317.32	484.27	132320.	5510.	30910.	2548.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3725	216.48	541.06	604.17	38.429	86.880	130.0
Stddev	.2077	40.26	.52	2.25	1.983	2.754	1.2
%RSD	15.131	18.596	.09561	.37298	5.1612	3.1702	.9527
#1	1.3913	247.83	540.65	602.81	36.841	85.349	128.6
#2	1.5701	230.54	540.90	602.93	40.652	90.060	130.4
#3	1.1561	171.08	541.64	606.77	37.794	85.232	131.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.601	528.15	1420.0
Stddev	.895	4.00	1.8
%RSD	1.9197	.75702	.12743
#1	46.017	523.67	1418.6
#2	47.631	529.46	1419.4
#3	46.156	531.34	1422.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28310.	13374.	409700.
Stddev	56.	47.	4076.
%RSD	.19678	.35122	.99493
#1	28319.	13358.	414370.
#2	28250.	13337.	407820.
#3	28361.	13427.	406900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.864%	98.009%	99.884%
Range			

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Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.065	50353.	34.199	575.96	7.1620	18908.	7.689
Stddev	.265	320.	.393	2.10	.0837	128.	.155
%RSD	2.6373	.63555	1.1478	.36440	1.1690	.67447	2.012
#1	9.8495	49987.	34.452	573.62	7.0659	18765.	7.540
#2	9.9847	50577.	34.398	577.66	7.2016	19010.	7.849
#3	10.362	50495.	33.747	576.61	7.2187	18950.	7.678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82.207	104.17	331.28	126980.	10020.	34650.	1487.5
Stddev	.223	1.47	3.71	643.	35.	237.	18.0
%RSD	.27079	1.4148	1.1199	.50668	.3476	.6846	1.2101
#1	82.232	102.66	327.14	126240.	9981.	34410.	1466.8
#2	82.417	104.24	332.39	127440.	10020.	34890.	1496.0
#3	81.974	105.61	334.31	127250.	10050.	34650.	1499.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4333	5880.5	134.40	365.82	63.617	36.605	196.2
Stddev	.1142	40.1	.10	.71	2.982	1.440	7.1
%RSD	7.9699	.68220	.07276	.19425	4.6869	3.9348	3.623
#1	1.4314	5835.1	134.29	366.46	66.149	35.112	189.7
#2	1.5484	5911.0	134.42	365.94	60.330	36.718	195.0
#3	1.3200	5895.4	134.48	365.06	64.371	37.986	203.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	25.284	118.09	1133.0
Stddev	.501	1.29	1.9
%RSD	1.9815	1.0921	.16397
#1	25.815	116.73	1131.7
#2	25.217	118.23	1132.3
#3	24.819	119.30	1135.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27720.	13387.	399220.
Stddev	62.	38.	3640.
%RSD	.22538	.28216	.91169
#1	27660.	13423.	403370.
#2	27785.	13348.	396580.
#3	27715.	13389.	397690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.782%	98.104%	97.329%
Range			

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Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10526	63796.	28.835	215.01	2.5946	60081.	5.643
Stddev	.22707	73.	1.071	.57	.0570	88.	.417
%RSD	215.73	.11481	3.7141	.26520	2.1973	.14589	7.389
#1	-.28980	63744.	30.005	214.62	2.6542	60069.	6.078
#2	-.17430	63763.	27.903	214.75	2.5891	60000.	5.606
#3	.14832	63879.	28.598	215.67	2.5406	60174.	5.247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.321	186.25	301.06	141350.	6864.	43470.	1713.4
Stddev	2.386	2.45	4.85	410.	43.	63.	15.1
%RSD	5.1512	1.3154	1.6118	.28990	.6210	.1452	.88375
#1	48.724	188.63	305.51	140990.	6841.	43410.	1723.8
#2	46.285	186.39	301.78	141280.	6913.	43530.	1720.4
#3	43.953	183.74	295.89	141800.	6838.	43470.	1696.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3748	244.70	111.56	507.83	6.8864	2.4851	175.8
Stddev	.4003	24.99	5.10	26.27	1.0551	.6764	2.8
%RSD	29.118	10.213	4.5672	5.1726	15.322	27.217	1.586
#1	1.8370	224.53	116.70	535.10	5.8993	2.9392	178.5
#2	1.1523	272.66	111.47	505.69	7.9985	1.7078	176.0
#3	1.1352	236.90	106.51	482.70	6.7614	2.8083	173.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8341	77.760	1214.5
Stddev	.9192	1.015	60.0
%RSD	32.432	1.3052	4.9421
#1	2.0830	78.471	1275.5
#2	3.8590	78.212	1212.5
#3	2.5602	76.598	1155.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28169.	13504.	407060.
Stddev	112.	155.	870.
%RSD	.39897	1.1478	.21376
#1	28048.	13335.	406060.
#2	28189.	13639.	407610.
#3	28270.	13538.	407510.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.366%	98.960%	99.241%
Range			

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Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06827	63378.	22.975	229.64	2.6257	71548.	.5051
Stddev	.09345	757.	.216	2.60	.0686	933.	.2136
%RSD	136.87	1.1946	.93854	1.1335	2.6127	1.3046	42.28
#1	-.09879	64185.	22.975	232.52	2.5586	72499.	.6602
#2	.03662	63267.	22.759	228.91	2.6957	71510.	.2616
#3	-.14265	62683.	23.190	227.47	2.6229	70634.	.5936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.648	74.393	118.64	135010.	5427.	43760.	5757.0
Stddev	.049	1.393	2.61	1672.	95.	598.	25.4
%RSD	.11049	1.8728	2.2026	1.2387	1.754	1.366	.44187
#1	44.705	73.176	116.22	136770.	5533.	44320.	5730.3
#2	44.624	75.913	121.41	134830.	5350.	43830.	5780.9
#3	44.615	74.091	118.29	133440.	5397.	43130.	5759.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85396	255.12	113.91	81.022	.33204	4.3238	102.9
Stddev	.04976	26.09	.19	.505	1.2054	1.1492	2.1
%RSD	5.8270	10.225	.16865	.62287	363.02	26.578	2.081
#1	.82000	242.75	113.83	80.811	1.6286	3.3925	100.9
#2	.91108	237.51	113.77	81.598	-.75453	3.9709	105.2
#3	.83079	285.09	114.13	80.657	.12203	5.6081	102.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	5.9700	80.459	379.27
Stddev	.7952	.972	1.18
%RSD	13.320	1.2078	.31110
#1	5.3481	79.855	378.06
#2	6.8660	81.580	379.34
#3	5.6958	79.942	380.41
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27908.	13197.	399730.
Stddev	94.	165.	4560.
%RSD	.33813	1.2494	1.1407
#1	27959.	13193.	403810.
#2	27965.	13034.	394810.
#3	27799.	13363.	400580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.445%	96.709%	97.455%
Range			

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Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05705	27720.	8.9002	79.701	1.0223	41972.	.1116
Stddev	.18443	122.	.6048	.091	.0109	65.	.1713
%RSD	323.28	.43972	6.7952	.11404	1.0676	.15558	153.5
#1	-.24513	27645.	9.5237	79.743	1.0145	41898.	-.0735
#2	.12350	27861.	8.3160	79.764	1.0176	42020.	.1437
#3	-.04953	27655.	8.8609	79.597	1.0348	41999.	.2645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.686	31.239	53.246	61525.	2089.	22810.	1568.5
Stddev	.083	.397	.268	134.	33.	61.	7.1
%RSD	.49495	1.2720	.50276	.21826	1.557	.2672	.45460
#1	16.743	31.076	53.447	61383.	2120.	22770.	1567.2
#2	16.591	31.692	52.943	61650.	2055.	22780.	1576.2
#3	16.724	30.949	53.350	61541.	2092.	22880.	1562.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.38268	54.920	49.550	32.144	1.1342	1.6945	50.17
Stddev	.15855	2.576	.159	.895	1.2905	1.6326	1.61
%RSD	41.432	4.6906	.32016	2.7836	113.79	96.347	3.208
#1	.27687	56.963	49.733	32.757	2.4563	1.8397	48.98
#2	.30620	52.026	49.472	32.558	-.12221	3.2496	52.00
#3	.56498	55.771	49.446	31.117	1.0684	-.00587	49.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6464	35.825	173.47
Stddev	1.2015	.136	.16
%RSD	72.978	.37980	.09356
#1	.36542	35.672	173.48
#2	1.8254	35.932	173.31
#3	2.7483	35.870	173.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27537.	12902.	399600.
Stddev	54.	142.	1825.
%RSD	.19637	1.0982	.45675
#1	27480.	12877.	398560.
#2	27588.	12774.	398530.
#3	27542.	13054.	401710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.138%	94.549%	97.423%
Range			

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Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08490	28517.	10.709	83.800	1.1566	35839.	.0520
Stddev	.17656	79.	.520	.642	.0062	68.	.0608
%RSD	207.96	.27768	4.8555	.76613	.53381	.19094	116.9
#1	-.07689	28580.	11.300	83.111	1.1544	35777.	.0723
#2	.27323	28428.	10.502	83.907	1.1519	35912.	.1001
#3	.05836	28543.	10.324	84.382	1.1636	35826.	-.0163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.210	34.044	55.647	62861.	2580.	23370.	1396.4
Stddev	.130	.179	.404	208.	33.	75.	10.1
%RSD	.67878	.52546	.72645	.33116	1.271	.3228	.72598
#1	19.060	34.196	55.180	62630.	2546.	23340.	1388.9
#2	19.299	34.089	55.868	63035.	2612.	23450.	1392.3
#3	19.271	33.847	55.892	62918.	2580.	23310.	1407.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20804	58.520	51.757	41.553	-.07912	1.2868	45.80
Stddev	.22474	21.164	.188	.702	1.1202	1.7670	.25
%RSD	108.03	36.165	.36378	1.6896	1415.9	137.32	.5527
#1	.39249	72.604	51.573	42.203	-1.3262	.54712	45.75
#2	-.04228	34.182	51.949	40.809	.24687	3.3033	45.58
#3	.27391	68.774	51.749	41.647	.84198	.00981	46.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2427	36.928	191.67
Stddev	.6791	.136	.37
%RSD	54.644	.36826	.19105
#1	.83428	36.773	191.71
#2	.86728	37.028	191.29
#3	2.0266	36.984	192.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28110.	13170.	403710.
Stddev	73.	29.	2657.
%RSD	.26113	.22351	.65802
#1	28140.	13162.	406360.
#2	28164.	13202.	403740.
#3	28027.	13145.	401040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.159%	96.512%	98.425%
Range			

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Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33123	24440.	15.352	95.963	.84889	4189.1	1.309
Stddev	.36320	168.	.667	1.056	.00260	14.1	.110
%RSD	109.65	.68643	4.3449	1.1002	.30618	.33548	8.396
#1	.20924	24249.	16.102	94.896	.85173	4179.1	1.399
#2	.04474	24559.	14.826	95.985	.84662	4205.2	1.342
#3	.73972	24514.	15.129	97.008	.84832	4183.0	1.186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.760	61.827	466.18	74295.	2195.	13170.	524.44
Stddev	.123	.520	3.09	183.	10.	11.	4.52
%RSD	.83175	.84183	.66279	.24666	.4715	.0860	.86118
#1	14.849	61.633	463.20	74089.	2191.	13170.	521.01
#2	14.620	61.431	465.96	74441.	2206.	13190.	522.75
#3	14.811	62.416	469.37	74355.	2187.	13160.	529.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60890	58.850	45.738	167.09	3.6046	1.7374	71.18
Stddev	.14862	11.815	.067	.59	.2693	1.3121	.70
%RSD	24.407	20.076	.14572	.35506	7.4720	75.521	.9773
#1	.77245	70.905	45.702	167.14	3.4447	1.0179	70.70
#2	.57213	47.291	45.698	166.48	3.9156	.94245	70.86
#3	.48212	58.355	45.815	167.66	3.4537	3.2518	71.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6994	35.549	416.56
Stddev	1.3733	.549	.38
%RSD	80.808	1.5440	.09028
#1	.83820	35.654	416.99
#2	3.2831	34.955	416.42
#3	.97696	36.038	416.28
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28369.	13121.	403160.
Stddev	62.	39.	1383.
%RSD	.21727	.30005	.34305
#1	28346.	13092.	403800.
#2	28439.	13166.	404100.
#3	28322.	13105.	401570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.07%	96.155%	98.289%
Range			

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Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11565	26630.	16.813	110.72	1.0687	18797.	2.530
Stddev	.22194	62.	.726	1.41	.0372	13.	.193
%RSD	191.90	.23352	4.3195	1.2767	3.4829	.06921	7.622
#1	.18931	26689.	17.405	109.67	1.1103	18798.	2.365
#2	.29140	26636.	16.003	112.33	1.0569	18810.	2.483
#3	-.13375	26565.	17.031	110.17	1.0388	18784.	2.742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.252	99.600	174.86	62367.	2414.	19240.	673.76
Stddev	.212	1.310	3.61	61.	38.	45.	11.62
%RSD	1.0479	1.3152	2.0619	.09724	1.580	.2341	1.7244
#1	20.307	101.11	178.93	62348.	2378.	19200.	686.96
#2	20.018	98.839	173.58	62434.	2409.	19220.	669.21
#3	20.432	98.848	172.07	62317.	2454.	19290.	665.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58175	112.09	51.029	290.15	4.0746	2.8899	67.03
Stddev	.23996	17.75	.186	.93	2.2077	.9040	1.15
%RSD	41.248	15.838	.36358	.32224	54.182	31.281	1.709
#1	.35341	115.96	51.203	290.38	1.9033	2.1229	68.27
#2	.56000	127.59	50.834	290.95	6.3169	3.8866	66.79
#3	.83185	92.724	51.049	289.12	4.0036	2.6602	66.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0915	36.450	625.60
Stddev	.3986	.559	.74
%RSD	36.522	1.5344	.11766
#1	.67931	37.088	626.00
#2	1.1201	36.044	624.75
#3	1.4750	36.217	626.05
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28199.	13185.	406460.
Stddev	100.	86.	3821.
%RSD	.35595	.65272	.93997
#1	28274.	13109.	402070.
#2	28085.	13168.	408990.
#3	28238.	13278.	408330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.473%	96.624%	99.096%
Range			

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Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58588	63779.	22.447	216.85	2.7570	85445.	.3473
Stddev	.26028	156.	.657	.47	.0471	222.	.1454
%RSD	44.426	.24391	2.9283	.21757	1.7083	.25935	41.87
#1	-.36583	63701.	22.551	216.31	2.7952	85336.	.4051
#2	-.51863	63679.	23.046	217.19	2.7716	85299.	.4549
#3	-.87319	63958.	21.743	217.04	2.7044	85700.	.1819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.318	76.563	114.77	134880.	6940.	42710.	3293.9
Stddev	.128	1.553	1.79	443.	66.	130.	70.0
%RSD	.33510	2.0280	1.5621	.32820	.9574	.3052	2.1264
#1	38.260	78.219	116.57	134590.	6936.	42650.	3342.6
#2	38.465	76.330	114.77	134670.	7009.	42620.	3325.5
#3	38.229	75.139	112.98	135390.	6876.	42860.	3213.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.52145	246.12	110.98	71.538	.87700	3.1237	112.9
Stddev	.22156	14.33	.40	1.079	.67602	2.4028	2.6
%RSD	42.489	5.8212	.35775	1.5080	77.084	76.923	2.277
#1	.36069	230.37	110.53	71.414	.70664	1.7285	115.6
#2	.77418	258.38	111.17	72.673	.30244	1.7444	112.7
#3	.42948	249.61	111.25	70.526	1.6219	5.8982	110.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.4079	81.858	374.38
Stddev	.1671	1.484	1.31
%RSD	6.9412	1.8123	.35078
#1	2.2288	83.335	372.92
#2	2.5596	81.873	375.45
#3	2.4354	80.368	374.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27968.	13179.	395600.
Stddev	32.	13.	6613.
%RSD	.11312	.09599	1.6717
#1	27932.	13175.	390120.
#2	27985.	13193.	393740.
#3	27988.	13168.	402950.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.659%	96.577%	96.448%
Range			

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Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.5383	16976.	17.474	217.98	1.2905	184380.	8.591
Stddev	.0990	86.	1.048	.57	.0358	805.	.127
%RSD	2.7986	.50430	5.9984	.26174	2.7751	.43685	1.479
#1	3.6505	16877.	16.967	217.92	1.2566	183830.	8.450
#2	3.5011	17023.	18.680	217.44	1.3280	184020.	8.625
#3	3.4633	17027.	16.776	218.58	1.2870	185310.	8.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.909	234.99	156.88	100370.	3542.	65140.	1675.0
Stddev	.122	4.06	3.36	345.	36.	368.	30.9
%RSD	.71896	1.7290	2.1420	.34377	1.005	.5649	1.8476
#1	16.815	231.60	153.88	100070.	3523.	64890.	1648.3
#2	17.047	239.49	160.51	100300.	3521.	64980.	1708.9
#3	16.866	233.87	156.25	100750.	3584.	65570.	1667.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.1138	573.46	124.61	292.63	1.4647	4.5302	400.5
Stddev	.0632	22.43	.45	1.97	2.3767	.8603	7.3
%RSD	.88878	3.9112	.35903	.67327	162.27	18.991	1.822
#1	7.1830	567.59	124.11	294.86	-1.2014	5.1218	394.6
#2	7.0995	554.56	124.72	291.10	2.2340	3.5433	408.6
#3	7.0590	598.25	124.99	291.95	3.3615	4.9255	398.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2575	54.628	1110.4
Stddev	.5965	.821	1.1
%RSD	26.422	1.5027	.09635
#1	2.4310	54.072	1109.4
#2	2.7479	55.571	1111.5
#3	1.5935	54.241	1110.3
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27187.	13013.	397180.
Stddev	42.	90.	4953.
%RSD	.15356	.69433	1.2471
#1	27151.	12997.	401850.
#2	27233.	13110.	391990.
#3	27178.	12932.	397710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.904%	95.363%	96.833%
Range			

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Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75145	3592.6	2.9840	45.766	.25199	38312.	1.743
Stddev	.53599	3.4	.5517	.706	.00949	154.	.082
%RSD	71.327	.09574	18.487	1.5423	3.7673	.40279	4.678
#1	.84564	3588.7	3.4679	45.743	.26202	38159.	1.833
#2	.17461	3594.1	2.3833	46.483	.24314	38310.	1.674
#3	1.2341	3595.1	3.1009	45.072	.25081	38468.	1.721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.5134	50.015	33.827	21097.	728.1	13710.	355.57
Stddev	.0551	.617	.992	111.	54.9	62.	3.76
%RSD	1.5690	1.2340	2.9332	.52541	7.540	.4530	1.0575
#1	3.5519	50.718	34.797	20979.	746.6	13650.	359.90
#2	3.5379	49.765	32.814	21110.	771.3	13720.	353.62
#3	3.4502	49.562	33.870	21200.	666.3	13770.	353.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77435	38.978	26.161	61.761	1.8695	2.5065	85.83
Stddev	.11581	2.200	.214	.277	.9774	2.6853	1.52
%RSD	14.956	5.6450	.81905	.44889	52.282	107.13	1.768
#1	.72809	36.441	26.362	61.872	.81879	2.1943	87.54
#2	.90614	40.129	25.936	61.966	2.7517	5.3342	84.66
#3	.68882	40.363	26.186	61.446	2.0380	-.00906	85.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.50636	11.268	229.32
Stddev	1.1743	.228	.62
%RSD	231.91	2.0194	.26845
#1	-1.6644	11.056	230.00
#2	.68352	11.240	228.81
#3	-.53818	11.509	229.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28098.	13070.	403970.
Stddev	110.	85.	4254.
%RSD	.39285	.65271	1.0530
#1	28089.	13151.	399590.
#2	27992.	12981.	404230.
#3	28212.	13078.	408090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.116%	95.779%	98.488%
Range			

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Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4016	18508.	17.398	224.39	1.2857	139330.	7.531
Stddev	.0809	276.	.160	3.16	.0478	2185.	.015
%RSD	3.3670	1.4928	.92060	1.4068	3.7196	1.5682	.1988
#1	2.4901	18784.	17.347	227.15	1.2785	141140.	7.547
#2	2.3316	18231.	17.269	220.95	1.3367	136900.	7.528
#3	2.3832	18509.	17.577	225.06	1.2419	139960.	7.518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.301	189.78	165.30	83843.	4125.	39310.	1555.5
Stddev	.219	5.03	3.64	1393.	44.	614.	40.4
%RSD	1.3404	2.6519	2.2026	1.6612	1.075	1.562	2.5945
#1	16.068	189.18	165.87	84957.	4169.	39720.	1547.4
#2	16.501	195.09	168.62	82282.	4125.	38600.	1599.3
#3	16.336	185.07	161.41	84292.	4081.	39600.	1519.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9147	600.38	103.02	221.77	3.0998	4.6307	446.9
Stddev	.1454	7.72	.24	1.08	.5477	1.0199	11.2
%RSD	2.4578	1.2866	.23204	.48636	17.671	22.025	2.508
#1	5.7691	609.22	103.30	222.25	3.4737	5.6324	447.1
#2	6.0598	597.04	102.90	220.54	2.4710	4.6661	458.0
#3	5.9153	594.90	102.87	222.53	3.3546	3.5935	435.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9519	58.502	896.75
Stddev	.4420	1.226	.70
%RSD	22.642	2.0950	.07816
#1	1.4826	58.000	897.02
#2	2.3602	59.899	895.96
#3	2.0130	57.607	897.29
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27342.	13255.	388900.
Stddev	104.	102.	10252.
%RSD	.37898	.76951	2.6362
#1	27393.	13183.	391330.
#2	27410.	13210.	377650.
#3	27223.	13372.	397710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.449%	97.136%	94.813%
Range			

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Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.070	23066.	44.920	1557.6	34.738	182390.	36.83
Stddev	.386	138.	.822	11.8	.470	842.	.11
%RSD	1.1317	.59936	1.8294	.75797	1.3534	.46147	.2926
#1	33.661	22906.	45.734	1544.1	34.280	181450.	36.85
#2	34.428	23142.	44.091	1562.9	34.716	182680.	36.71
#3	34.121	23148.	44.934	1565.9	35.219	183050.	36.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	310.88	316.50	337.44	96996.	5310.	56870.	2028.0
Stddev	.49	4.47	4.96	415.	38.	233.	11.9
%RSD	.15716	1.4139	1.4691	.42828	.7109	.4102	.58498
#1	310.56	311.79	332.57	96534.	5348.	56650.	2014.4
#2	310.63	317.00	337.26	97116.	5272.	56850.	2036.2
#3	311.44	320.70	342.48	97338.	5309.	57120.	2033.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.8208	615.70	406.13	240.29	17.536	64.381	498.5
Stddev	.3564	27.09	.26	.99	1.789	2.835	7.3
%RSD	4.5575	4.3994	.06314	.41226	10.203	4.4037	1.465
#1	7.5115	592.84	405.84	239.18	16.798	62.148	490.7
#2	7.7403	608.64	406.33	240.59	19.576	63.424	499.6
#3	8.2106	645.61	406.22	241.09	16.233	67.571	505.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	30.749	371.36	1235.7
Stddev	1.097	5.01	1.5
%RSD	3.5659	1.3479	.12235
#1	29.541	366.20	1235.0
#2	31.680	371.69	1234.7
#3	31.027	376.20	1237.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27531.	13303.	401660.
Stddev	50.	157.	3260.
%RSD	.18295	1.1820	.81162
#1	27577.	13478.	404650.
#2	27540.	13175.	402140.
#3	27477.	13254.	398180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.117%	97.485%	97.924%
Range			

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Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.364	17969.	28.398	433.03	6.7106	187550.	13.42
Stddev	.323	79.	.862	1.69	.1043	1022.	.05
%RSD	2.4204	.43856	3.0360	.39061	1.5537	.54515	.3447
#1	13.710	17878.	29.360	431.34	6.8303	186370.	13.40
#2	13.315	18015.	28.136	433.04	6.6617	188190.	13.39
#3	13.069	18013.	27.696	434.72	6.6397	188100.	13.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64.024	249.04	184.66	99405.	9703.	69170.	1701.8
Stddev	.178	2.88	2.49	455.	54.	382.	20.4
%RSD	.27740	1.1579	1.3483	.45805	.5541	.5527	1.1959
#1	64.162	252.36	187.50	98883.	9641.	68740.	1725.3
#2	64.087	247.56	183.62	99722.	9734.	69320.	1690.7
#3	63.824	247.19	182.85	99609.	9733.	69460.	1689.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0489	6470.6	162.39	301.93	60.499	40.463	453.8
Stddev	.1049	39.6	.19	.32	2.441	.705	5.6
%RSD	1.4874	.61219	.11594	.10598	4.0354	1.7427	1.243
#1	6.9285	6425.7	162.54	301.89	57.890	40.805	460.0
#2	7.0981	6485.2	162.44	301.63	62.728	39.652	449.0
#3	7.1200	6500.7	162.18	302.27	60.880	40.931	452.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	24.692	107.48	1164.9
Stddev	1.517	1.60	.7
%RSD	6.1438	1.4866	.06337
#1	22.958	109.32	1165.5
#2	25.772	106.42	1164.0
#3	25.347	106.70	1165.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27006.	12982.	390880.
Stddev	97.	197.	4217.
%RSD	.35767	1.5170	1.0788
#1	26950.	13210.	386030.
#2	27117.	12860.	392970.
#3	26950.	12878.	393640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.264%	95.140%	95.297%
Range			

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Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41153	7287.2	12.063	101.00	.63325	71529.	.9720
Stddev	.32742	15.0	1.066	.42	.00607	209.	.0672
%RSD	79.561	.20550	8.8398	.41966	.95904	.29166	6.914
#1	.72197	7275.6	11.318	100.69	.63996	71313.	.9919
#2	.06943	7282.0	13.285	101.48	.63167	71730.	1.027
#3	.44319	7304.1	11.586	100.82	.62813	71544.	.8970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.049	88.481	67.473	117480.	1132.	21060.	1257.0
Stddev	.174	.354	.810	333.	52.	123.	7.5
%RSD	1.3353	.40054	1.2001	.28321	4.587	.5834	.59672
#1	13.050	88.890	68.405	117190.	1085.	20980.	1265.4
#2	13.223	88.260	67.075	117850.	1187.	21200.	1254.7
#3	12.875	88.293	66.940	117410.	1123.	21000.	1250.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5537	180.35	73.053	63.439	1.5865	1.4937	363.8
Stddev	.1273	6.57	.083	1.627	2.1591	.7017	2.6
%RSD	2.7959	3.6444	.11371	2.5653	136.09	46.976	.7075
#1	4.4352	175.09	72.994	61.789	1.4441	.74452	366.7
#2	4.5377	178.25	73.148	65.042	-.49790	2.1355	363.0
#3	4.6883	187.72	73.017	63.487	3.8133	1.6011	361.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0049	33.090	350.31
Stddev	1.1339	.263	.78
%RSD	56.559	.79559	.22172
#1	.70174	33.369	349.43
#2	2.5460	32.847	350.92
#3	2.7669	33.053	350.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27699.	13104.	397930.
Stddev	23.	211.	4741.
%RSD	.08167	1.6106	1.1914
#1	27706.	13125.	393280.
#2	27673.	13304.	397760.
#3	27717.	12884.	402760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.708%	96.033%	97.016%
Range			

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	761.16	52791.	2569.9	10745.	1090.3	53724.	1005.
Stddev	14.78	1183.	4.5	234.	19.7	1106.	2.
%RSD	1.9423	2.2405	.17457	2.1814	1.8044	2.0581	.2295
#1	746.05	53969.	2566.2	10951.	1070.4	54887.	1003.
#2	775.60	51603.	2568.6	10794.	1090.8	52686.	1005.
#3	761.83	52801.	2574.9	10490.	1109.8	53600.	1008.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4906.2	10199.	12908.	25666.	F 42900.	51360.	5147.7
Stddev	9.9	106.	196.	494.	865.	1223.	79.7
%RSD	.20212	1.0372	1.5158	1.9247	2.016	2.382	1.5482
#1	4896.5	10078.	12687.	26195.	43750.	52620.	5116.5
#2	4905.8	10275.	13058.	25217.	42020.	50180.	5238.3
#3	4916.3	10245.	12979.	25585.	42930.	51290.	5088.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					37500.		
Range					10.00%		

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1019.5	F 28313.	4950.8	9596.4	2533.8	1288.3	1044.
Stddev	1.6	617.	6.2	19.5	2.9	7.9	20.
%RSD	.15711	2.1808	.12461	.20299	.11383	.60988	1.939
#1	1017.9	28925.	4946.2	9576.8	2530.8	1285.7	1023.
#2	1019.4	27690.	4948.5	9596.7	2534.2	1282.0	1064.
#3	1021.1	28323.	4957.8	9615.8	2536.5	1297.1	1044.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25000.					
Range		10.000%					

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	935.36	2600.2	5007.7
Stddev	3.88	51.4	10.6
%RSD	.41514	1.9755	.21191
#1	931.83	2548.6	4997.0
#2	934.74	2651.4	5007.9
#3	939.52	2600.7	5018.2
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26599.	12633.	391260.
Stddev	96.	166.	6582.
%RSD	.36061	1.3149	1.6824
#1	26704.	12523.	397440.
#2	26517.	12824.	384340.
#3	26574.	12553.	391980.

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Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11399	8.9180	-.32567	.98699	-.02790	3.2050	-.0939
Stddev	.13586	50.859	.69106	.52919	.01099	3.9262	.0125
%RSD	119.19	570.29	212.20	53.617	39.375	122.50	13.33
#1	.26681	-44.111	-1.0232	1.5949	-.03340	1.3839	-.0893
#2	.00688	13.580	.35871	.62953	-.01525	7.7110	-.1080
#3	.06827	57.285	-.31250	.73651	-.03504	.52015	-.0843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10085	-.05755	.21211	1.6377	88.50	.1045	.04984
Stddev	.09965	.14822	.47302	8.5182	13.12	18.71	.03420
%RSD	98.814	257.54	223.01	520.13	14.83	17900.	68.622
#1	-.18450	-.19150	.05502	11.320	103.2	20.29	.05370
#2	.00940	-.08285	-.16238	-4.7010	84.53	-3.308	.08194
#3	-.12744	.10169	.74370	-1.7064	77.83	-16.66	.01387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21885	-91.189	-.00157	-.67531	.45614	-.72935	.1430
Stddev	.44048	4.197	.14305	.95794	2.1710	.94987	.0404
%RSD	201.27	4.6023	9089.1	141.85	475.96	130.24	28.26
#1	.33244	-87.556	-.07900	-1.4560	-.33834	-1.2162	.1664
#2	.59141	-95.783	-.08922	-.96354	-1.2057	-1.3371	.0963
#3	-.26730	-90.229	.16350	.39365	2.9125	.36524	.1662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8295	.05037	.11599
Stddev	.1101	.23205	.10071
%RSD	6.0168	460.68	86.828
#1	1.7493	.03821	.22137
#2	1.7843	.28826	.02069
#3	1.9550	-.17536	.10592
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28710.	13115.	415310.
Stddev	16.	7.	6145.
%RSD	.05533	.05504	1.4796
#1	28691.	13107.	420310.
#2	28720.	13122.	417180.
#3	28718.	13115.	408450.

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ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1· Sample ID:	S0	EPA Sample ID:	S0			Date:	11/21/2015	13:48:17	Dilution:	1
2· Sample ID:	S01 ISM-520	EPA Sample ID:	S01			Date:	11/21/2015	13:53:04	Dilution:	1
3· Sample ID:	S02 ISM-521	EPA Sample ID:	S02			Date:	11/21/2015	13:57:49	Dilution:	1
4· Sample ID:	S03 ISM-538	EPA Sample ID:	S03			Date:	11/21/2015	14:02:35	Dilution:	1
5· Sample ID:	S04 ISM-523	EPA Sample ID:	S04			Date:	11/21/2015	14:07:48	Dilution:	1
6· Sample ID:	S05 ISM-524	EPA Sample ID:	S05			Date:	11/21/2015	14:13:14	Dilution:	1
7· Sample ID:	S06 ISM-463	EPA Sample ID:	S06			Date:	11/21/2015	14:18:46	Dilution:	1
8· Sample ID:	S07 ISM-464	EPA Sample ID:	S07			Date:	11/21/2015	14:23:30	Dilution:	1
9· Sample ID:	S08 ISM-465	EPA Sample ID:	S08			Date:	11/21/2015	14:28:19	Dilution:	1
10· Sample ID:	S09 ISM-456	EPA Sample ID:	S09			Date:	11/21/2015	14:33:01	Dilution:	1
11· Sample ID:	S10 ISM-457	EPA Sample ID:	S10			Date:	11/21/2015	14:37:48	Dilution:	1
12· Sample ID:	ICV1	EPA Sample ID:	ICV			Date:	11/21/2015	14:42:40	Dilution:	1
13· Sample ID:	ICB1	EPA Sample ID:	ICB			Date:	11/21/2015	14:47:31	Dilution:	1
14· Sample ID:	ICS-A1	EPA Sample ID:	ICSA			Date:	11/21/2015	14:52:18	Dilution:	1
15· Sample ID:	ICS-AB1	EPA Sample ID:	ICSAB			Date:	11/21/2015	14:57:09	Dilution:	1
16· Sample ID:	CCV1	EPA Sample ID:	CCV001			Date:	11/21/2015	15:02:07	Dilution:	1
17· Sample ID:	CCB1	EPA Sample ID:	CCB001			Date:	11/21/2015	15:07:21	Dilution:	1
18· Sample ID:	QQ89995-001	EPA Sample ID:	PBW001			Date:	11/21/2015	15:12:08	Dilution:	1
19· Sample ID:	QQ89995-002	EPA Sample ID:	LCS001			Date:	11/21/2015	15:16:55	Dilution:	1
20· Sample ID:	QK12004-010	EPA Sample ID:	MBC7G3			Date:	11/21/2015	15:21:40	Dilution:	1
21· Sample ID:	QK12004-010L	EPA Sample ID:	MBC7G3L			Date:	11/21/2015	15:26:26	Dilution:	5
22· Sample ID:	QK12004-010DU	EPA Sample ID:	MBC7G3D			Date:	11/21/2015	15:31:12	Dilution:	1
23· Sample ID:	QK12004-010MS	EPA Sample ID:	MBC7G3S			Date:	11/21/2015	15:35:57	Dilution:	1
24· Sample ID:	QK12004-010A	EPA Sample ID:	MBC7G3A			Date:	11/21/2015	15:40:44	Dilution:	1
25· Sample ID:	QK12004-011	EPA Sample ID:	MBC7G4			Date:	11/21/2015	15:45:31	Dilution:	1
26· Sample ID:	QK12004-012	EPA Sample ID:	MBC7G5			Date:	11/21/2015	15:50:18	Dilution:	1
27· Sample ID:	QK12004-013	EPA Sample ID:	MBC7G6			Date:	11/21/2015	15:55:04	Dilution:	1
28· Sample ID:	QK12004-014	EPA Sample ID:	MBC764			Date:	11/21/2015	15:59:52	Dilution:	1
29· Sample ID:	QK04017-001	EPA Sample ID:	MX2171			Date:	11/21/2015	16:04:39	Dilution:	1
30· Sample ID:	QK04017-001L	EPA Sample ID:	MX2171L			Date:	11/21/2015	16:09:30	Dilution:	5
31· Sample ID:	QK04017-001DU	EPA Sample ID:	MX2171D			Date:	11/21/2015	16:14:13	Dilution:	1
32· Sample ID:	QK04017-001MS	EPA Sample ID:	MX2171S			Date:	11/21/2015	16:19:05	Dilution:	1
Ag3280	RECOVERY IS OUT OF CRITERIA			126.7900	1500	50.0	40.0	2.00	1.60	10.00
33· Sample ID:	QK04017-001A	EPA Sample ID:	MX2171A			Date:	11/21/2015	16:23:56	Dilution:	1
34· Sample ID:	QK13012-001	EPA Sample ID:	MBC763			Date:	11/21/2015	16:28:46	Dilution:	1
35· Sample ID:	QK13012-001L	EPA Sample ID:	MBC763L			Date:	11/21/2015	16:33:33	Dilution:	5
36· Sample ID:	QK13012-001DU	EPA Sample ID:	MBC763D			Date:	11/21/2015	16:38:22	Dilution:	1
37· Sample ID:	QK13012-001MS	EPA Sample ID:	MBC763S			Date:	11/21/2015	16:43:08	Dilution:	1
38· Sample ID:	QK13012-001A	EPA Sample ID:	MBC763A			Date:	11/21/2015	16:47:56	Dilution:	1
39· Sample ID:	CCV2	EPA Sample ID:	CCV002			Date:	11/21/2015	16:52:43	Dilution:	1
40· Sample ID:	CCB2	EPA Sample ID:	CCB002			Date:	11/21/2015	16:57:57	Dilution:	1
41· Sample ID:	QQ89825-001	EPA Sample ID:	PBS002			Date:	11/21/2015	17:02:46	Dilution:	1

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
42· Sample ID:	**QQ89825-002**	**EPA Sample ID:**	**LCS002**		**Date:**	**11/21/2015**	**17:07:33**	**Dilution:**	**1**
43· Sample ID:	**QK13012-002**	**EPA Sample ID:**	**MBC794**		**Date:**	**11/21/2015**	**17:12:19**	**Dilution:**	**1**
Cd2288			0.1516	2000			196.00	0.04	0.50
Cu3273			109.1500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		181030.0000	150000			0.00	2.60	10.00
Ni2316			143.0700	10000			0.00	0.21	4.00
Pb2203			63.9250	20000			2.00	0.28	1.00
44· Sample ID:	**QK13012-003**	**EPA Sample ID:**	**MBC795**		**Date:**	**11/21/2015**	**17:17:03**	**Dilution:**	**1**
Cd2288			1.2080	2000			22.00	0.04	0.50
Cu3273			137.3300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		236210.0000	150000			0.00	2.60	10.00
Ni2316			180.3200	10000			0.00	0.21	4.00
Pb2203			165.2900	20000			1.00	0.28	1.00
45· Sample ID:	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**11/21/2015**	**17:21:56**	**Dilution:**	**1**
46· Sample ID:	**QK13012-005**	**EPA Sample ID:**	**MBC797**		**Date:**	**11/21/2015**	**17:26:40**	**Dilution:**	**1**
47· Sample ID:	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/21/2015**	**17:31:24**	**Dilution:**	**1**
48· Sample ID:	**QK13012-006L**	**EPA Sample ID:**	**MBC798L**		**Date:**	**11/21/2015**	**17:36:09**	**Dilution:**	**5**
Cd2288	RPD IS OUT OF CRITERIA		1.3340	2000		11.0	11.00	0.04	0.50
49· Sample ID:	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**11/21/2015**	**17:40:54**	**Dilution:**	**1**
Al3082	RPD IS OUT OF CRITERIA		86927.0000	300000		59.0	0.00	7.60	20.00
As1890	RPD IS OUT OF CRITERIA		174.1100	5000		78.0	1.00	0.39	1.00
Ba4554	RPD IS OUT OF CRITERIA		466.0300	20000		59.0	0.00	0.20	20.00
Ca2179	RPD IS OUT OF CRITERIA		17808.0000	300000		54.0	0.00	6.90	500.00
Cd2288	RPD IS OUT OF CRITERIA		20.8800	2000		97.0	1.00	0.04	0.50
Cr2677	RPD IS OUT OF CRITERIA		6256.8999	20000		87.0	1.00	0.12	1.00
Cu3273	RPD IS OUT OF CRITERIA		515.3300	25000		73.0	1.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA		102050.0000	150000		54.0	0.00	2.60	10.00
Mg2790	RPD IS OUT OF CRITERIA		25640.0000	300000		53.0	1.00	9.70	500.00
Mn2576	RPD IS OUT OF CRITERIA		1497.3000	10000		50.0	1.00	0.09	1.50
Pb2203	RPD IS OUT OF CRITERIA		1052.2000	20000		65.0	0.00	0.28	1.00
Zn2062	RPD IS OUT OF CRITERIA		2601.3000	10000		89.0	0.00	0.26	6.00
50· Sample ID:	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**11/21/2015**	**17:45:36**	**Dilution:**	**1**
As1890	RECOVERY IS OUT OF CRITERIA		266.4500	5000	80.0	233.0	1.00	0.39	1.00
Cu3273	RECOVERY IS OUT OF CRITERIA		1070.8000	25000	500.0	164.0	2.00	0.24	2.50
Mn2576	RECOVERY IS OUT OF CRITERIA		2577.7000	10000	1000.0	165.0	2.00	0.09	1.50
Sb2068	RECOVERY IS OUT OF CRITERIA		49.0720	5000	200.0	25.0	6.00	0.35	6.00
Zn2062	RECOVERY IS OUT OF CRITERIA		3428.0000	10000	1000.0	239.0	0.00	0.26	6.00
51· Sample ID:	**QK13012-006A**	**EPA Sample ID:**	**MBC798A**		**Date:**	**11/21/2015**	**17:50:27**	**Dilution:**	**1**
52· Sample ID:	**QK13012-007**	**EPA Sample ID:**	**MBC799**		**Date:**	**11/21/2015**	**17:55:11**	**Dilution:**	**1**
53· Sample ID:	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**11/21/2015**	**17:59:57**	**Dilution:**	**1**
54· Sample ID:	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**11/21/2015**	**18:04:42**	**Dilution:**	**1**
55· Sample ID:	**QK13012-010**	**EPA Sample ID:**	**MBC7A2**		**Date:**	**11/21/2015**	**18:09:25**	**Dilution:**	**1**
56· Sample ID:	**QK13012-011**	**EPA Sample ID:**	**MBC7A3**		**Date:**	**11/21/2015**	**18:14:11**	**Dilution:**	**1**
57· Sample ID:	**QK13012-012**	**EPA Sample ID:**	**MBC7A4**		**Date:**	**11/21/2015**	**18:19:04**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
58· Sample ID:	**QK13012-013**	**EPA Sample ID:**	**MBC7H9**		**Date:**	**11/21/2015**	**18:23:57**	**Dilution: 1**
Cd2288		0.3593	2000			27.00	0.04	0.50
Cu3273		110.5800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	204550.0000	150000			0.00	2.60	10.00
Ni2316		147.1200	10000			0.00	0.21	4.00
Pb2203		124.7000	20000			0.00	0.28	1.00
59· Sample ID:	**QK13012-014**	**EPA Sample ID:**	**MBC7A5**		**Date:**	**11/21/2015**	**18:28:50**	**Dilution: 1**
Cd2288		2.7650	2000			2.00	0.04	0.50
Cu3273		197.0900	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	219120.0000	150000			0.00	2.60	10.00
Ni2316		173.3700	10000			0.00	0.21	4.00
Pb2203		240.8300	20000			0.00	0.28	1.00
60· Sample ID:	**QK13012-015**	**EPA Sample ID:**	**MBC7A6**		**Date:**	**11/21/2015**	**18:33:42**	**Dilution: 1**
Cd2288		2.0810	2000			7.00	0.04	0.50
Cu3273		164.5400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	294250.0000	150000			0.00	2.60	10.00
Ni2316		237.0100	10000			0.00	0.21	4.00
Pb2203		146.3800	20000			1.00	0.28	1.00
61· Sample ID:	**CCV3**	**EPA Sample ID:**	**CCV003**		**Date:**	**11/21/2015**	**18:38:34**	**Dilution: 1**
62· Sample ID:	**CCB3**	**EPA Sample ID:**	**CCB003**		**Date:**	**11/21/2015**	**18:43:49**	**Dilution: 1**
63· Sample ID:	**QK13012-016**	**EPA Sample ID:**	**MBC7A7**		**Date:**	**11/21/2015**	**18:48:37**	**Dilution: 1**
Cd2288		1.7750	2000			2.00	0.04	0.50
Cu3273		309.8300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	346570.0000	150000			0.00	2.60	10.00
Ni2316		253.1600	10000			0.00	0.21	4.00
Pb2203		153.5400	20000			2.00	0.28	1.00
64· Sample ID:	**QK13012-017**	**EPA Sample ID:**	**MBC7A8**		**Date:**	**11/21/2015**	**18:53:29**	**Dilution: 1**
Ca2179	PARAMETER IS OVER RANGE	437350.0000	300000			1.00	6.90	500.00
Cd2288		1.8240	2000			3.00	0.04	0.50
Cu3273		403.6300	25000			4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	307060.0000	150000			0.00	2.60	10.00
Ni2316		206.8900	10000			0.00	0.21	4.00
Pb2203		1013.3000	20000			0.00	0.28	1.00
65· Sample ID:	**QK13012-018**	**EPA Sample ID:**	**MBC7A9**		**Date:**	**11/21/2015**	**18:58:28**	**Dilution: 1**
Cd2288		3.3080	2000			5.00	0.04	0.50
Cu3273		369.2400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	322230.0000	150000			0.00	2.60	10.00
Ni2316		245.7600	10000			0.00	0.21	4.00
Pb2203		756.2700	20000			0.00	0.28	1.00
66· Sample ID:	**QK13012-019**	**EPA Sample ID:**	**MBC7B0**		**Date:**	**11/21/2015**	**19:03:24**	**Dilution: 1**
Cd2288		1.3840	2000			8.00	0.04	0.50
Cu3273		209.2700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	203090.0000	150000			0.00	2.60	10.00
Ni2316		161.6100	10000			0.00	0.21	4.00
Pb2203		454.4800	20000			0.00	0.28	1.00
67· Sample ID:	**QK13012-020**	**EPA Sample ID:**	**MBC7D0**		**Date:**	**11/21/2015**	**19:08:17**	**Dilution: 1**
Cd2288		14.3600	2000			0.00	0.04	0.50
Cu3273		445.5500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	238930.0000	150000			0.00	2.60	10.00
Ni2316		190.3000	10000			0.00	0.21	4.00
Pb2203		1338.8000	20000			0.00	0.28	1.00

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Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
68· Sample ID:	**QK04017-005**	**EPA Sample ID:**	**MX2175**		**Date:**	**11/21/2015**	**19:13:09**	**Dilution:**	**1**
69· Sample ID:	**QK04017-005L**	**EPA Sample ID:**	**MX2175L**		**Date:**	**11/21/2015**	**19:17:54**	**Dilution:**	**5**
70· Sample ID:	**QK04017-005DU**	**EPA Sample ID:**	**MX2175D**		**Date:**	**11/21/2015**	**19:22:40**	**Dilution:**	**1**
71· Sample ID:	**QK04017-005MS**	**EPA Sample ID:**	**MX2175S**		**Date:**	**11/21/2015**	**19:27:25**	**Dilution:**	**1**
Sb2068	RECOVERY IS OUT OF CRITERIA		144.2600	5000	200.0	39.0	2.00	0.35	6.00
72· Sample ID:	**QK04017-005A**	**EPA Sample ID:**	**MX2175A**		**Date:**	**11/21/2015**	**19:32:08**	**Dilution:**	**1**
73· Sample ID:	**QQ89826-001**	**EPA Sample ID:**	**QQ89826-001**		**Date:**	**11/21/2015**	**19:36:50**	**Dilution:**	**1**
74· Sample ID:	**QQ89826-002**	**EPA Sample ID:**	**QQ89826-002**		**Date:**	**11/21/2015**	**19:41:39**	**Dilution:**	**1**
75· Sample ID:	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/21/2015**	**19:46:27**	**Dilution:**	**1**
Cd2288			5.9800	2000			1.00	0.60	5.00
Cu3273			602.5400	25000			0.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		262870.0000	150000			0.00	18.80	100.00
Ni2316			194.0300	10000			0.00	1.10	40.00
Pb2203			716.1100	20000			0.00	3.50	10.00
76· Sample ID:	**QK13013-001L**	**EPA Sample ID:**	**MBC7C9L**		**Date:**	**11/21/2015**	**19:51:20**	**Dilution:**	**5**
77· Sample ID:	**QK13013-001DU**	**EPA Sample ID:**	**MBC7C9D**		**Date:**	**11/21/2015**	**19:56:06**	**Dilution:**	**1**
Cd2288			6.9910	2000			3.00	0.60	5.00
Cu3273			444.8100	25000			0.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		237170.0000	150000			0.00	18.80	100.00
Ni2316			172.0200	10000			0.00	1.10	40.00
Pb2203			932.7900	20000			0.00	3.50	10.00
78· Sample ID:	**QK13013-001MS**	**EPA Sample ID:**	**MBC7C9S**		**Date:**	**11/21/2015**	**20:00:59**	**Dilution:**	**1**
Ag3280	RECOVERY IS OUT OF CRITERIA		93.4560	1500	50.0	187.0	1.00	1.60	10.00
As1890	RECOVERY IS OUT OF CRITERIA		131.2100	5000	40.0	203.0	0.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA		4514.6001	20000	2000.0	189.0	0.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA		103.6200	2000	50.0	201.0	1.00	0.05	5.00
Cd2288			94.3200	2000	50.0		0.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA		956.4600	10000	500.0	177.0	0.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA		646.9000	20000	200.0	229.0	1.00	1.80	10.00
Cu3273			958.0000	25000	250.0		1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		273710.0000	150000	1000.0		0.00	18.80	100.00
Ni2316			1073.2000	10000	500.0		0.00	1.10	40.00
Pb2203			1197.6000	20000	20.0		0.00	3.50	10.00
Sb2068			77.5300	5000	100.0		1.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA		176.2300	2500	100.0	176.0	1.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA		90.2800	2000	50.0	171.0	3.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA		1072.3000	5000	500.0	187.0	1.00	1.10	50.00
79· Sample ID:	**QK13013-001A**	**EPA Sample ID:**	**MBC7C9A**		**Date:**	**11/21/2015**	**20:05:50**	**Dilution:**	**1**
80· Sample ID:	**QK13013-002**	**EPA Sample ID:**	**MBC7D1**		**Date:**	**11/21/2015**	**20:10:42**	**Dilution:**	**1**
Cd2288			10.9900	2000			1.00	0.60	5.00
Cu3273			510.6100	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		242480.0000	150000			0.00	18.80	100.00
Ni2316			207.4000	10000			0.00	1.10	40.00
Pb2203			952.3600	20000			0.00	3.50	10.00

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Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
81· Sample ID:	**QK13013-003**	**EPA Sample ID:**	**MBC7B1**		**Date:**	**11/21/2015**	**20:15:34**	**Dilution:** **1**
As1890		47.2590	5000			1.00	3.90	10.00
Cd2288		0.8059	2000			16.00	0.60	5.00
Cr2677		152.0300	20000			4.00	1.80	10.00
Cu3273		234.9100	25000			4.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	270500.0000	150000			0.00	18.80	100.00
Mn2576	PARAMETER IS OVER RANGE	11410.0000	10000			1.00	0.43	15.00
Ni2316		223.7600	10000			0.00	1.10	40.00
Pb2203		153.9200	20000			1.00	3.50	10.00
82· Sample ID:	**QK13013-004**	**EPA Sample ID:**	**MBC7B2**		**Date:**	**11/21/2015**	**20:20:26**	**Dilution:** **1**
Cd2288		0.4344	2000			40.00	0.60	5.00
Cu3273		253.5800	25000			2.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	296610.0000	150000			0.00	18.80	100.00
Ni2316		232.3900	10000			0.00	1.10	40.00
Pb2203		140.9200	20000			1.00	3.50	10.00
83· Sample ID:	**CCV4**	**EPA Sample ID:**	**CCV004**		**Date:**	**11/21/2015**	**20:25:21**	**Dilution:** **1**
84· Sample ID:	**CCB4**	**EPA Sample ID:**	**CCB004**		**Date:**	**11/21/2015**	**20:30:36**	**Dilution:** **1**
85· Sample ID:	**QK13013-005**	**EPA Sample ID:**	**MBC7B3**		**Date:**	**11/21/2015**	**20:35:25**	**Dilution:** **1**
Cd2288		0.5695	2000			11.00	0.60	5.00
Cu3273		263.4300	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	302260.0000	150000			0.00	18.80	100.00
Ni2316		242.2300	10000			0.00	1.10	40.00
Pb2203		196.9400	20000			0.00	3.50	10.00
86· Sample ID:	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/21/2015**	**20:40:15**	**Dilution:** **1**
Cd2288		6.1290	2000			1.00	0.60	5.00
Cu3273		2206.1001	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	353650.0000	150000			1.00	18.80	100.00
Ni2316		216.3000	10000			0.00	1.10	40.00
Pb2203		769.3600	20000			0.00	3.50	10.00
87· Sample ID:	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/21/2015**	**20:45:06**	**Dilution:** **1**
Cd2288		13.4200	2000			1.00	0.60	5.00
Cu3273		848.4200	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	303610.0000	150000			0.00	18.80	100.00
Ni2316		247.5600	10000			2.00	1.10	40.00
Pb2203		1378.3000	20000			2.00	3.50	10.00
88· Sample ID:	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/21/2015**	**20:49:57**	**Dilution:** **1**
Cd2288		0.4781	2000			16.00	0.60	5.00
Cu3273		214.9800	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	266220.0000	150000			0.00	18.80	100.00
Ni2316		215.2100	10000			0.00	1.10	40.00
Pb2203		138.2100	20000			0.00	3.50	10.00
89· Sample ID:	**QK11054-001**	**EPA Sample ID:**	**ME6BF3**		**Date:**	**11/21/2015**	**20:54:49**	**Dilution:** **1**
Ca2179	PARAMETER IS OVER RANGE	362870.0000	300000			1.00	503.00	5000.00
Cd2288		17.7400	2000			1.00	0.60	5.00
Cu3273		315.4400	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	205430.0000	150000			1.00	18.80	100.00
Ni2316		248.8700	10000			0.00	1.10	40.00
Pb2203		581.8600	20000			0.00	3.50	10.00
90· Sample ID:	**QK11054-001L**	**EPA Sample ID:**	**ME6BF3L**		**Date:**	**11/21/2015**	**20:59:51**	**Dilution:** **5**

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Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
91· Sample ID:	**QK11054-001DU**	**EPA Sample ID:**	**ME6BF3D**		**Date:**	**11/21/2015**	**21:04:37**	**Dilution: 1**
Cd2288		14.9600	2000			1.00	0.60	5.00
Cu3273		319.0600	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	172560.0000	150000			0.00	18.80	100.00
Ni2316		202.6600	10000			0.00	1.10	40.00
Pb2203		433.7500	20000			0.00	3.50	10.00
92· Sample ID:	**QK11054-001MS**	**EPA Sample ID:**	**ME6BF3S**		**Date:**	**11/21/2015**	**21:09:39**	**Dilution: 1**
Ag3280	RECOVERY IS OUT OF CRITERIA	71.1810	1500	50.0	128.0	1.00	1.60	10.00
As1890	RECOVERY IS OUT OF CRITERIA	90.6740	5000	40.0	136.0	2.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	3138.6001	20000	2000.0	135.0	0.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	72.2990	2000	50.0	139.0	1.00	0.05	5.00
Ca2179	PARAMETER IS OVER RANGE	367830.0000	300000			2.00	503.00	5000.00
Cd2288		75.0400	2000	50.0		0.00	0.60	5.00
Cu3273		687.4200	25000	250.0		1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	197060.0000	150000	1000.0		0.00	18.80	100.00
Ni2316		806.2600	10000	500.0		0.00	1.10	40.00
Pb2203		472.6700	20000	20.0		0.00	3.50	10.00
V_2924	RECOVERY IS OUT OF CRITERIA	759.7100	5000	500.0	130.0	1.00	1.10	50.00
93· Sample ID:	**QK11054-001A**	**EPA Sample ID:**	**ME6BF3A**		**Date:**	**11/21/2015**	**21:14:39**	**Dilution: 1**
94· Sample ID:	**QK11054-002**	**EPA Sample ID:**	**ME6BF4**		**Date:**	**11/21/2015**	**21:19:40**	**Dilution: 1**
95· Sample ID:	**QK11054-003**	**EPA Sample ID:**	**ME6BF5**		**Date:**	**11/21/2015**	**21:24:42**	**Dilution: 1**
Ca2179	PARAMETER IS OVER RANGE	343150.0000	300000			3.00	503.00	5000.00
Cd2288		4.5500	2000			3.00	0.60	5.00
Cu3273		320.6600	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	579220.0000	150000			2.00	18.80	100.00
Ni2316		355.7000	10000			0.00	1.10	40.00
Pb2203		294.5200	20000			1.00	3.50	10.00
96· Sample ID:	**QK13012-002**	**EPA Sample ID:**	**MBC794**		**Date:**	**11/21/2015**	**21:29:49**	**Dilution: 2**
97· Sample ID:	**QK13012-003**	**EPA Sample ID:**	**MBC795**		**Date:**	**11/21/2015**	**21:34:34**	**Dilution: 2**
98· Sample ID:	**QK13012-013**	**EPA Sample ID:**	**MBC7H9**		**Date:**	**11/21/2015**	**21:39:20**	**Dilution: 2**
99· Sample ID:	**QK13012-014**	**EPA Sample ID:**	**MBC7A5**		**Date:**	**11/21/2015**	**21:44:05**	**Dilution: 2**
100· Sample ID:	**QK13012-015**	**EPA Sample ID:**	**MBC7A6**		**Date:**	**11/21/2015**	**21:48:51**	**Dilution: 5**
101· Sample ID:	**QK13012-016**	**EPA Sample ID:**	**MBC7A7**		**Date:**	**11/21/2015**	**21:53:37**	**Dilution: 5**
102· Sample ID:	**QK13012-017**	**EPA Sample ID:**	**MBC7A8**		**Date:**	**11/21/2015**	**21:58:22**	**Dilution: 5**
103· Sample ID:	**QK13012-018**	**EPA Sample ID:**	**MBC7A9**		**Date:**	**11/21/2015**	**22:03:08**	**Dilution: 5**
104· Sample ID:	**QK13012-019**	**EPA Sample ID:**	**MBC7B0**		**Date:**	**11/21/2015**	**22:07:55**	**Dilution: 2**
105· Sample ID:	**QK13012-020**	**EPA Sample ID:**	**MBC7D0**		**Date:**	**11/21/2015**	**22:12:42**	**Dilution: 2**
106· Sample ID:	**CCV5**	**EPA Sample ID:**	**CCV005**		**Date:**	**11/21/2015**	**22:17:29**	**Dilution: 1**
107· Sample ID:	**CCB5**	**EPA Sample ID:**	**CCB005**		**Date:**	**11/21/2015**	**22:22:46**	**Dilution: 1**
108· Sample ID:	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/21/2015**	**22:27:35**	**Dilution: 2**
Cd2288		2.7910	2000			5.00	0.60	5.00
Cu3273		356.8400	25000			2.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	151760.0000	150000			0.00	18.80	100.00
Ni2316		97.0310	10000			4.00	1.10	40.00
Pb2203		349.0700	20000			4.00	3.50	10.00
109· Sample ID:	**QK13013-001L**	**EPA Sample ID:**	**MBC7C9L**		**Date:**	**11/21/2015**	**22:32:20**	**Dilution: 10**
110· Sample ID:	**QK13013-001DU**	**EPA Sample ID:**	**MBC7C9D**		**Date:**	**11/21/2015**	**22:37:09**	**Dilution: 2**

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Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
111· Sample ID:	**QK13013-001MS**	**EPA Sample ID:**	**MBC7C9S**		**Date:**	**11/21/2015**	**22:41:55**	**Dilution: 2**
Ag3280	RECOVERY IS OUT OF CRITERIA	45.1480	1500	50.0	181.0	2.00	1.60	10.00
As1890	RECOVERY IS OUT OF CRITERIA	64.4170	5000	40.0	202.0	2.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	2276.6001	20000	2000.0	183.0	0.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	51.6100	2000	50.0	197.0	1.00	0.05	5.00
Cd2288	RECOVERY IS OUT OF CRITERIA	46.3200	2000	50.0	174.0	0.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA	478.2200	10000	500.0	178.0	0.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA	315.1400	20000	200.0	207.0	1.00	1.80	10.00
Ni2316	RECOVERY IS OUT OF CRITERIA	541.0600	10000	500.0	177.0	0.00	1.10	40.00
Se1960	RECOVERY IS OUT OF CRITERIA	86.8800	2500	100.0	174.0	3.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA	46.6010	2000	50.0	186.0	2.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA	528.1500	5000	500.0	181.0	1.00	1.10	50.00
112· Sample ID:	**QK13013-001A**	**EPA Sample ID:**	**MBC7C9A**		**Date:**	**11/21/2015**	**22:46:49**	**Dilution: 2**
113· Sample ID:	**QK13013-002**	**EPA Sample ID:**	**MBC7D1**		**Date:**	**11/21/2015**	**22:51:35**	**Dilution: 2**
114· Sample ID:	**QK13013-003**	**EPA Sample ID:**	**MBC7B1**		**Date:**	**11/21/2015**	**22:56:24**	**Dilution: 2**
115· Sample ID:	**QK13013-004**	**EPA Sample ID:**	**MBC7B2**		**Date:**	**11/21/2015**	**23:01:18**	**Dilution: 5**
116· Sample ID:	**QK13013-005**	**EPA Sample ID:**	**MBC7B3**		**Date:**	**11/21/2015**	**23:06:06**	**Dilution: 5**
117· Sample ID:	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/21/2015**	**23:10:52**	**Dilution: 5**
118· Sample ID:	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/21/2015**	**23:15:38**	**Dilution: 5**
119· Sample ID:	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/21/2015**	**23:20:25**	**Dilution: 2**
120· Sample ID:	**QK11054-001**	**EPA Sample ID:**	**ME6BF3**		**Date:**	**11/21/2015**	**23:25:19**	**Dilution: 2**
121· Sample ID:	**QK11054-001L**	**EPA Sample ID:**	**ME6BF3L**		**Date:**	**11/21/2015**	**23:30:03**	**Dilution: 10**
122· Sample ID:	**QK11054-001DU**	**EPA Sample ID:**	**ME6BF3D**		**Date:**	**11/21/2015**	**23:34:51**	**Dilution: 2**
123· Sample ID:	**QK11054-001MS**	**EPA Sample ID:**	**ME6BF3S**		**Date:**	**11/21/2015**	**23:39:38**	**Dilution: 2**
As1890	RECOVERY IS OUT OF CRITERIA	44.9200	5000	40.0	137.0	2.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	1557.6000	20000	2000.0	134.0	1.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	34.7380	2000	50.0	134.0	1.00	0.05	5.00
Cu3273	RECOVERY IS OUT OF CRITERIA	337.4400	25000	250.0	144.0	1.00	5.00	25.00
Sb2068	RECOVERY IS OUT OF CRITERIA	17.5360	5000	100.0	35.0	10.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA	64.3810	2500	100.0	129.0	4.00	5.50	35.00
V_2924	RECOVERY IS OUT OF CRITERIA	371.3600	5000	500.0	127.0	1.00	1.10	50.00
124· Sample ID:	**QK11054-001A**	**EPA Sample ID:**	**ME6BF3A**		**Date:**	**11/21/2015**	**23:44:32**	**Dilution: 2**
125· Sample ID:	**QK11054-003**	**EPA Sample ID:**	**ME6BF5**		**Date:**	**11/21/2015**	**23:49:19**	**Dilution: 5**
126· Sample ID:	**CCV6**	**EPA Sample ID:**	**CCV ISM-538**		**Date:**	**11/21/2015**	**23:54:04**	**Dilution: 1**
K_7664	RECOVERY IS OUT OF CRITERIA	42900.0000	112500	37500.0	114.0	2.00	90.50	5000.00
Na5895	RECOVERY IS OUT OF CRITERIA	28313.0000	100000	25000.0	113.0	2.00	516.00	5000.00
127· Sample ID:	**CCB6**	**EPA Sample ID:**	**CCB**		**Date:**	**11/21/2015**	**23:59:22**	**Dilution: 1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/24/15 1210

Prep Batch: 89825

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/17/2015 1545
End Date: 11/17/2015 2245
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) 15-1263(7/17 **Balance ID:** Balance #9B(/18) **Hot Block ID:** Hot Block #3
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89825-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ89825-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			pipette:247
QK13012-002	Sample	MBC794	1	ISM02.2 ICP	1.0850		0.0	100	05/10/2016 1110	11/17/2015	
QK13012-003	Sample	MBC795	1	ISM02.2 ICP	1.3690		0.0	100	05/10/2016 1055	11/17/2015	
QK13012-004	Sample	MBC796	1	ISM02.2 ICP	1.0850		0.0	100	05/10/2016 1130	11/17/2015	
QK13012-005	Sample	MBC797	1	ISM02.2 ICP	1.1290		0.0	100	05/10/2016 1150	11/17/2015	
QK13012-006	Sample	MBC798	1	ISM02.2 ICP	1.0210		0.0	100	05/10/2016 1140	11/17/2015	
QK13012-006MS	MS	MBC798S	1	ISM02.2 ICP	1.0480	15-934(10/16)	1.0	100			pipette:247
QK13012-006DU	Duplicate	MBC798D	1	ISM02.2 ICP	1.0100		0.0	100			
QK13012-007	Sample	MBC799	1	ISM02.2 ICP	1.4640		0.0	100	05/10/2016 1210	11/17/2015	
QK13012-008	Sample	MBC7A0	1	ISM02.2 ICP	1.2760		0.0	100	05/10/2016 1230	11/17/2015	
QK13012-009	Sample	MBC7A1	1	ISM02.2 ICP	1.3560		0.0	100	05/10/2016 1220	11/17/2015	
QK13012-010	Sample	MBC7A2	1	ISM02.2 ICP	1.0650		0.0	100	05/10/2016 1415	11/17/2015	
QK13012-011	Sample	MBC7A3	1	ISM02.2 ICP	1.3140		0.0	100	05/10/2016 1435	11/17/2015	
QK13012-012	Sample	MBC7A4	1	ISM02.2 ICP	1.0230		0.0	100	05/10/2016 1425	11/17/2015	
QK13012-013	Sample	MBC7H9	1	ISM02.2 ICP	1.1500		0.0	100	05/10/2016 1105	11/17/2015	
QK13012-014	Sample	MBC7A5	1	ISM02.2 ICP	1.2200		0.0	100	05/10/2016 1500	11/17/2015	
QK13012-015	Sample	MBC7A6	1	ISM02.2 ICP	1.2940		0.0	100	05/10/2016 1520	11/17/2015	
QK13012-016	Sample	MBC7A7	1	ISM02.2 ICP	1.4080		0.0	100	05/10/2016 1510	11/17/2015	
QK13012-017	Sample	MBC7A8	1	ISM02.2 ICP	1.3320		0.0	100	05/10/2016 1600	11/17/2015	
QK13012-018	Sample	MBC7A9	1	ISM02.2 ICP	1.3570		0.0	100	05/10/2016 1620	11/17/2015	
QK13012-019	Sample	MBC7B0	1	ISM02.2 ICP	1.0350		0.0	100	05/10/2016 1610	11/17/2015	
QK13012-020	Sample	MBC7D0	1	ISM02.2 ICP	1.0020		0.0	100	05/10/2016 1550	11/17/2015	
QK04017-005	Sample	MX2175	1	ISM02.2 ICP	1.0650		0.0	100	05/01/2016 1200	11/17/2015	
QK04017-005MS	MS	MX2175S	1	ISM02.2 ICP	1.0570	15-934(10/16)	1.0	100			pipette:247

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/24/15 1210

Prep Batch: 89825

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/17/2015 1545
End Date: 11/17/2015 2245
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) 15-1263(7/17 **Balance ID:** Balance #9B(/18) **Hot Block ID:** Hot Block #3
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QK04017-005	DU Duplicate	MX2175D	1	ISM02.2 ICP	1.0530		0.0	100			

(end of report) **Total Samples: 20**

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/24/15 1209

Prep Batch: 89995

ISM02.2 A PREP 200.7: ICP-AES - ICP-AES digestion for waters

Start Date: 11/19/2015 1104
End Date: 11/20/2015 1241
Level 2 Analyst: ECS
Digestion Cup ID: 1504103
Ext Solvent: 1:1 HNO3/1:1 HCl
Reagents Vol. (mL): 1.0, 0.5
Chem ID: IM6310-01(1/9/16) IM3610-02(1/9/16)
Hot Block ID: Hot Block #2
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89995-001	MB	PBS	1	ISM02.2 ICP	50.000		0.0	50			
QQ89995-002	LCS	LCS	1	ISM02.2 ICP	50.000	15-868-01(8/16)	1.0	50			pipette:247
QK12004-010	Sample	MBC7G3	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0835	11/15/2015	
QK12004-010MS	MS	MBC7G3S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK12004-010DU	Duplicate	MBC7G3D	1	ISM02.2 ICP	50.000		0.0	50			
QK12004-011	Sample	MBC7G4	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0920	11/15/2015	
QK12004-014	Sample	MBC764	1	ISM02.2 ICP	50.000		0.0	50	05/14/2016 1215	11/15/2015	
QK04017-001	Sample	MX2171	1	ISM02.2 ICP	50.000		0.0	50	05/01/2016 1200	11/17/2015	
QK04017-001MS	MS	MX2171S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK04017-001DU	Duplicate	MX2171D	1	ISM02.2 ICP	50.000		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 ICP	50.000		0.0	50	05/10/2016 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 ICP	50.000		0.0	50			

(end of report) **Total Samples: 7** **All samples have a pH < 2**

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM- 520
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	S01 ICP ISM		

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese	15-79	15			15
Molybdenum	15-76	50			50
Nickel		40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: NUM	Working Standard No.: ISM-521 (EXP 2/5/16)
Date: 11/5/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP ISM.	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-76	200	0.8	200	800
□ N/A	Antimony	15-78	60	↓	↓	240
□ N/A	Arsenic	15-76	10	↓	↓	40
□ N/A	Barium	↓	200	↓	↓	800
□ N/A	Beryllium	↓	5	↓	↓	20
□ N/A	Cadmium	↓	5	↓	↓	20
□ N/A	Calcium	↓	5000	↓	↓	20000
□ N/A	Chromium	↓	10	↓	↓	40
□ N/A	Cobalt	↓	50	↓	↓	200
□ N/A	Copper	↓	25	↓	↓	100
□ N/A	Iron	↓	100	↓	↓	400
□ N/A	Lead	↓	10	↓	↓	40
□ N/A	Magnesium	↓	5000	↓	↓	20000
□ N/A	Manganese	15-76	15	↓	↓	60
□ N/A	Molybdenum	15-79	50	0.4	↓	100
□ N/A	Nickel	15-76	40	0.8	↓	160
□ N/A	Potassium	↓	5000	↓	↓	20000
□ N/A	Selenium	↓	35	↓	↓	140
□ N/A	Silver	↓	10	↓	↓	40
□ N/A	Sodium	↓	3000	↓	↓	12000
□ N/A	Thallium	↓	25	↓	↓	100
□ N/A	Titanium	15-79	50	0.4	↓	100
□ N/A	Vanadium	15-76	50	0.8	↓	200
□ N/A	Zinc	↓	60	↓	↓	240

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM - 538
Date:	11/13/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S03/CCV ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-377	1000	2.5	500	50000
□ N/A	Antimony	15-77	500			2500
□ N/A	Arsenic	15-81	500			2500
□ N/A	Barium		2000			10000
□ N/A	Beryllium		200			1000
□ N/A	Cadmium		200			1000
□ N/A	Calcium	15-377	10000			50000
□ N/A	Chromium	15-81	2000			10000
□ N/A	Cobalt		1000			5000
□ N/A	Copper		2500			12500
□ N/A	Iron	15-377	5000			25000
□ N/A	Lead	15-81	2000			10000
□ N/A	Magnesium	15-377	10000			50000
□ N/A	Manganese	15-81	1000			5000
□ N/A	Molybdenum	15-80	200			1000
□ N/A	Nickel	15-81	1000			5000
□ N/A	Potassium	15-377	7500			37500
□ N/A	Selenium	15-81	2500			1250
□ N/A	Silver		150			750
□ N/A	Sodium	15-377	5000			25000
□ N/A	Thallium	15-81	200			1000
□ N/A	Titanium	15-80	200			1000
□ N/A	Vanadium	15-81	500			2500
□ N/A	Zinc		1000			5000

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-523 (Exp 2/12/16)
Date:	11/12/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S04 ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	3.75	500	3750
☐ N/A	Arsenic	15-81	500	⊥	⊥	3750
☐ N/A	Barium	⊥	2000	⊥	⊥	15000
☐ N/A	Beryllium	⊥	200	⊥	⊥	1500
☐ N/A	Cadmium	⊥	200	⊥	⊥	1500
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	3.75	500	15000
☐ N/A	Cobalt	⊥	1000	⊥	⊥	750
☐ N/A	Copper	⊥	2500	⊥	⊥	18750
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	3.75	500	15000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	3.75	500	7500
☐ N/A	Molybdenum	15-80	200	⊥	⊥	1500
☐ N/A	Nickel	15-81	1000	⊥	⊥	7500
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	3.75	500	1875
☐ N/A	Silver	⊥	150	⊥	⊥	1125
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	3.75	500	1500
☐ N/A	Titanium	15-80	200	⊥	⊥	1500
☐ N/A	Vanadium	15-81	500	⊥	⊥	3750
☐ N/A	Zinc	⊥	1000	⊥	⊥	7500

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-524 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: S05 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	5	500	5000
☐ N/A	Arsenic	15-81	500	↓	↓	5000
☐ N/A	Barium	↓	2000	↓	↓	20000
☐ N/A	Beryllium	↓	200	↓	↓	2000
☐ N/A	Cadmium	↓	200	↓	↓	2000
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	5	500	20000
☐ N/A	Cobalt	↓	1000	↓	↓	10000
☐ N/A	Copper	↓	2500	↓	↓	250000
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	5	500	20000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	5	500	10000
☐ N/A	Molybdenum	15-80	200	↓	↓	2000
☐ N/A	Nickel	15-81	1000	↓	↓	10000
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	5	500	2500
☐ N/A	Silver	↓	150	↓	↓	1500
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	5	500	2000
☐ N/A	Titanium	15-80	200	↓	↓	2000
☐ N/A	Vanadium	15-81	500	↓	↓	5000
☐ N/A	Zinc	↓	1000	↓	↓	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: S07 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel			NA		
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOB ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Element Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RLT		Working Standard No.: ISM-457			
Date: 10-8-15		Solvent: 5% HCl (15-929) 5% HNO3 (15-931)			
Comments: S10 ICP		Expires 1-8-16			
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLT 10-8-15

RLT 10-8-15

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	↓	↓	↓	↓	994
Arsenic	↓	↓	↓	↓	999
Barium	↓	↓	↓	↓	497
Beryllium	↓	↓	↓	↓	495
Cadmium	↓	↓	↓	↓	496
Calcium	↓	↓	↓	↓	10026
Chromium	↓	↓	↓	↓	490
Cobalt	↓	↓	↓	↓	499
Copper	↓	↓	↓	↓	492
Iron	↓	↓	↓	↓	5082
Lead	↓	↓	↓	↓	1002
Magnesium	↓	↓	↓	↓	6074
Manganese	↓	↓	↓	↓	499
Molybdenum	NA	NA	↓	NA	NA
Nickel	15-135	*	↓	200	503
Potassium	↓	↓	↓	↓	10021
Selenium	↓	↓	↓	↓	1029
Silver	↓	↓	↓	↓	501
Sodium	↓	↓	↓	↓	10097
Thallium	↓	↓	↓	↓	1028
Titanium	NA	NA	↓	NA	NA
Vanadium	15-135	*	↓	200	501
Zinc	↓	↓	↓	↓	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-519 Exp 2/5/16
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	ISM ICSA ICP	* Provided by the EPA. No true value given by the EPA.	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt					
Copper					
Iron	14-1033	*	10	100	100700
Lead	11/5/15 NCM ~~14-1033~~ NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-522 (Exp 2/11/16)
Date: 11/11/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: ICSAB ISM	* Stock provided by EPA, no true value given

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	14-1034 + 14-1033	*	10/10	100	246800
□ N/A	Antimony	↓	↓	10	↓	618
□ N/A	Arsenic	↓	↓	↓	↓	104
□ N/A	Barium	↓	↓	↓	↓	537
□ N/A	Beryllium	↓	↓	↓	↓	495
□ N/A	Cadmium	↓	↓	↓	↓	972
□ N/A	Calcium	+ 14-1033	↓	10/10	↓	234900
□ N/A	Chromium	↓	↓	10	↓	542
□ N/A	Cobalt	↓	↓	↓	↓	476
□ N/A	Copper	↓	↓	↓	↓	571
□ N/A	Iron	+ 14-1033	↓	10/10	↓	99320
□ N/A	Lead	↓	↓	10	↓	49
□ N/A	Magnesium	+ 14-1033	↓	10/10	↓	248000
□ N/A	Manganese	↓	↓	10	↓	507
☒ N/A	Molybdenum	NA	NA	NA	NA	NA
□ N/A	Nickel	14-1034	*	10	100	954
☒ N/A	Potassium	NA	NA	NA	NA	NA
□ N/A	Selenium	14-1034	*	10	100	46
□ N/A	Silver	↓	↓	↓	↓	201
☒ N/A	Sodium	NA	NA	NA	NA	NA
□ N/A	Thallium	14-1034	*	10	100	108
☒ N/A	Titanium	NA	NA	NA	NA	NA
□ N/A	Vanadium	14-1034	*	10	100	491
□ N/A	Zinc	↓	↓	↓	↓	952

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
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Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC763

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC763	QK13012-001			X	
MBC763D	QK13012-001DU			X	
MBC763S	QK13012-001MS			X	
MBC794	QK13012-002			X	
MBC795	QK13012-003			X	
MBC796	QK13012-004			X	
MBC797	QK13012-005			X	
MBC798	QK13012-006			X	
MBC798D	QK13012-006DU			X	
MBC798S	QK13012-006MS			X	
MBC799	QK13012-007			X	
MBC7A0	QK13012-008			X	
MBC7A1	QK13012-009			X	
MBC7A2	QK13012-010			X	
MBC7A4	QK13012-012			X	
MBC7A5	QK13012-014			X	
MBC7A6	QK13012-015			X	
MBC7A7	QK13012-016			X	
MBC7A8	QK13012-017			X	
MBC7A9	QK13012-018			X	
MBC7B0	QK13012-019			X	
MBC7D0	QK13012-020			X	
MBC7H9	QK13012-013			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert Name: Robert Zhu

Date: 12/3/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC763

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Lab Sample ID: QK13012-001

% Solids: Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.048	J*	11/24/2015	20:16:57

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC794

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-002

% Solids: 68.5 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.040	J*	11/20/2015	19:48:21

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC795

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-003

% Solids: 81.5 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.15	*	11/20/2015	19:50:22

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC796

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-004

% Solids: 32.0 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	35.5	*D	12/01/2015	12:13:46

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC797

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-005

% Solids: 37.7 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.066	J*	11/20/2015	19:56:06

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC798

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-006

% Solids: 39.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	109	*D	12/01/2015	12:34:03

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC799

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-007

% Solids: 33.7 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	5.1	*	11/20/2015	20:11:31

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-008

% Solids: 36.5 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	25.6	*D	12/01/2015	12:28:57

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-009

% Solids: 35.6 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	48.7	*D	12/01/2015	12:31:31

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-010

% Solids: 22.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	2.7	*	11/20/2015	20:23:05

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-012

% Solids: 32.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.96	*	11/20/2015	20:25:04

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-014

% Solids: 76.7 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.049	J*	11/20/2015	20:30:47

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-015

% Solids: 86.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.029	J*	11/20/2015	20:32:49

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-016

% Solids: 89.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.017	J*	11/20/2015	20:41:53

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-017

% Solids: 67.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12	J*	11/20/2015	20:43:58

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7A9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-018

% Solids: 60.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17	J*	11/20/2015	20:46:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-019

% Solids: 62.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.18	*	11/20/2015	20:49:16

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-020

% Solids: 77.6 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.2	*	11/20/2015	20:51:42

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Lab Sample ID: QK13012-013

% Solids: 79.0 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.14	J*	11/20/2015	20:27:16

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

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.0	100		5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.5	90	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV007				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88				

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120115ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV011				ID: CCV012		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	3.9	98		5.0	5.4	108		4.9	98	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120115ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV013				ID: CCV014		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.1	102		5.0	100	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120115ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV015				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.1	102				

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV003				ID: CCV016				ID: CCV017		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.1	103		5.0	4.8	96		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV018				ID: CCV019		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV020				ID: CCV021		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV022				ID: CCV023		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.9	98		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV024				ID: CCV025		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96		4.6	92	

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: CVAA Preparation Batch: 90139

Run Batch: HG3112015ISMA1 Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS001	Q
Mercury	0.17	J	0.20	U	0.20	U	0.20	U	0.0068	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q
Mercury			0.078	J	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB007	Q	ID:	Q	ID:	Q	ID:	Q
Mercury			0.098	J						

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: CVAA Preparation Batch: 90839

Run Batch: HG4120115ISMA Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB002	Q	ID: CCB014	Q	ID: CCB012	Q	ID: CCB013	Q	ID: PBS002	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4120115ISMA Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB015	Q	ID:	Q	ID:	Q	ID:	Q
Mercury			0.20	U						

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix: WATER

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

Analytical Method: CVAA Preparation Batch: 90340

Run Batch: HG4112415 ISMA1 Preparation Method 7470A

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB003	Q	ID: CCB016	Q	ID: CCB017	Q	ID: CCB018	Q	ID: PBW003	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.043	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB019	Q	ID: CCB020	Q	ID: CCB021	Q	ID:	Q
Mercury			0.20	U	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB022	Q	ID: CCB023	Q	ID: CCB024	Q	ID:	Q
Mercury			0.20	U	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB025	Q	ID:	Q	ID:	Q	ID:	Q
Mercury			0.20	U						

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC763S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Analytical Method: CVAA

% Solids for Sample:

Concentration Units (ug/L, mg/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
Mercury	75 - 125	0.39		0.048	J	1.0	34	*

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC798S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 39.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury		52.1		109		1.4	-4064	D

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC763D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: WATER Analytical Method: CVAA

% Solids:

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury		0.048	J	0.039	J		

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC798D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Matrix: SOIL Analytical Method: CVAA

% Solids: 39.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury		109		68.0		46	*

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7470A

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

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.023	03/25/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Analytical Method: CVAA Instrument ID: Hg4

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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	1805															X											
S01	1.0	1808															X											
S02	1.0	1810															X											
S03	1.0	1813															X											
S04	1.0	1817															X											
S05	1.0	1819															X											
ICV001	1.0	1822															X											
ICB001	1.0	1826															X											
CCV001	1.0	1829															X											
CCB001	1.0	1832															X											
ZZZZZZ	1.0	1834																										
ZZZZZZ	1.0	1837																										
ZZZZZZ	1.0	1839																										
ZZZZZZ	1.0	1841																										
ZZZZZZ	1.0	1844																										
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1849																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1854																										
ZZZZZZ	1.0	1856																										
CCV002	1.0	1858															X											
CCB002	1.0	1901															X											
ZZZZZZ	1.0	1903																										
ZZZZZZ	1.0	1906																										
ZZZZZZ	1.0	1909																										
ZZZZZZ	1.0	1911																										
ZZZZZZ	1.0	1913																										
ZZZZZZ	1.0	1916																										
ZZZZZZ	1.0	1918																										
ZZZZZZ	1.0	1920																										
ZZZZZZ	1.0	1924																										
ZZZZZZ	1.0	1926																										
CCV003	1.0	1929															X											
CCB003	1.0	1931															X											
ZZZZZZ	1.0	1933																										
ZZZZZZ	1.0	1935																										
ZZZZZZ	1.0	1938																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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		
CCV004	1.0	1941															X											
CCB004	1.0	1944															X											
PBS001	1.0	1946															X											
MBC794	1.0	1948															X											
MBC795	1.0	1950															X											
ZZZZZZ	1.0	1952																										
MBC797	1.0	1956															X											
ZZZZZZ	1.0	1958																										
ZZZZZZ	1.0	2001																										
CCV005	1.0	2005															X											
CCB005	1.0	2007															X											
ZZZZZZ	1.0	2009																										
MBC799	1.0	2011															X											
ZZZZZZ	1.0	2015																										
ZZZZZZ	1.0	2018																										
MBC7A2	1.0	2023															X											
MBC7A4	1.0	2025															X											
MBC7H9	1.0	2027															X											
MBC7A5	1.0	2030															X											
MBC7A6	1.0	2032															X											
CCV006	1.0	2036															X											
CCB006	1.0	2038															X											
MBC7A7	1.0	2041															X											
MBC7A8	1.0	2043															X											
MBC7A9	1.0	2046															X											
MBC7B0	1.0	2049															X											
MBC7D0	1.0	2051															X											
CCV007	1.0	2054															X											
CCB007	1.0	2056															X											
ZZZZZZ	1.0	2058																										
ZZZZZZ	1.0	2100																										
ZZZZZZ	1.0	2103																										
ZZZZZZ	1.0	2105																										
ZZZZZZ	1.0	2108																										
ZZZZZZ	1.0	2110																										
ZZZZZZ	1.0	2113																										
ZZZZZZ	1.0	2116																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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		
ZZZZZZ	1.0	2118																										
ZZZZZZ	1.0	2120																										
ZZZZZZ	1.0	2122																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2127																										
ZZZZZZ	1.0	2129																										
ZZZZZZ	1.0	2131																										
ZZZZZZ	1.0	2133																										
ZZZZZZ	1.0	2135																										
ZZZZZZ	1.0	2137																										
ZZZZZZ	1.0	2141																										
ZZZZZZ	1.0	2143																										
ZZZZZZ	1.0	2145																										
ZZZZZZ	1.0	2148																										
ZZZZZZ	1.0	2150																										
ZZZZZZ	1.0	2152																										
ZZZZZZ	1.0	2155																										
ZZZZZZ	1.0	2157																										
ZZZZZZ	1.0	2200																										
ZZZZZZ	1.0	2202																										
ZZZZZZ	1.0	2205																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

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	1803															X											
S01	1.0	1805															X											
S02	1.0	1807															X											
S03	1.0	1809															X											
S04	1.0	1810															X											
S05	1.0	1812															X											
ICV003	1.0	1814															X											
ICB003	1.0	1816															X											
CCV016	1.0	1818															X											
CCB016	1.0	1820															X											
ZZZZZZ	1.0	1822																										
ZZZZZZ	1.0	1824																										
ZZZZZZ	1.0	1826																										
ZZZZZZ	1.0	1828																										
ZZZZZZ	1.0	1829																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1833																										
ZZZZZZ	1.0	1835																										
ZZZZZZ	1.0	1837																										
ZZZZZZ	1.0	1839																										
CCV017	1.0	1841															X											
CCB017	1.0	1842															X											
ZZZZZZ	1.0	1844																										
ZZZZZZ	1.0	1846																										
ZZZZZZ	1.0	1848																										
ZZZZZZ	1.0	1850																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1854																										
ZZZZZZ	1.0	1855																										
ZZZZZZ	1.0	1857																										
ZZZZZZ	1.0	1859																										
ZZZZZZ	1.0	1901																										
CCV018	1.0	1903															X											
CCB018	1.0	1905															X											
ZZZZZZ	1.0	1907																										
ZZZZZZ	1.0	1909																										
ZZZZZZ	1.0	1910																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

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		
ZZZZZZ	1.0	1912																										
ZZZZZZ	1.0	1914																										
ZZZZZZ	1.0	1916																										
ZZZZZZ	1.0	1918																										
ZZZZZZ	1.0	1920																										
ZZZZZZ	1.0	1922																										
ZZZZZZ	1.0	1924																										
CCV019	1.0	1926															X											
CCB019	1.0	1927															X											
ZZZZZZ	1.0	1929																										
ZZZZZZ	1.0	1931																										
ZZZZZZ	1.0	1933																										
ZZZZZZ	1.0	1935																										
ZZZZZZ	1.0	1937																										
ZZZZZZ	1.0	1939																										
ZZZZZZ	1.0	1941																										
ZZZZZZ	1.0	1942																										
ZZZZZZ	1.0	1944																										
ZZZZZZ	1.0	1946																										
CCV020	1.0	1948															X											
CCB020	1.0	1950															X											
ZZZZZZ	1.0	1952																										
ZZZZZZ	1.0	1954																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1957																										
ZZZZZZ	1.0	1959																										
ZZZZZZ	1.0	2001																										
ZZZZZZ	1.0	2003																										
ZZZZZZ	1.0	2005																										
ZZZZZZ	1.0	2007																										
ZZZZZZ	1.0	2009																										
CCV021	1.0	2011															X											
CCB021	1.0	2013															X											
ZZZZZZ	1.0	2015																										
MBC763	1.0	2016															X											
MBC763S	1.0	2018															X											
MBC763D	1.0	2020															X											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

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		
ZZZZZZ	1.0	2022																										
ZZZZZZ	1.0	2024																										
ZZZZZZ	1.0	2026																										
ZZZZZZ	1.0	2028																										
ZZZZZZ	1.0	2030																										
ZZZZZZ	1.0	2031																										
CCV022	1.0	2033															X											
CCB022	1.0	2035															X											
ZZZZZZ	1.0	2037																										
ZZZZZZ	1.0	2039																										
ZZZZZZ	1.0	2041																										
ZZZZZZ	1.0	2043																										
ZZZZZZ	1.0	2045																										
ZZZZZZ	1.0	2046																										
ZZZZZZ	1.0	2048																										
ZZZZZZ	1.0	2050																										
ZZZZZZ	1.0	2052																										
ZZZZZZ	1.0	2054																										
CCV023	1.0	2056															X											
CCB023	1.0	2058															X											
ZZZZZZ	1.0	2100																										
ZZZZZZ	1.0	2102																										
ZZZZZZ	1.0	2103																										
ZZZZZZ	1.0	2105																										
ZZZZZZ	1.0	2107																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2111																										
ZZZZZZ	1.0	2113																										
ZZZZZZ	1.0	2115																										
PBW003	1.0	2117															X											
CCV024	1.0	2118															X											
CCB024	1.0	2120															X											
ZZZZZZ	1.0	2122																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2126																										
CCV025	1.0	2128															X											
CCB025	1.0	2130															X											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 12/01/2015 End Date: 12/01/2015

Run Batch: HG4120115ISMA

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	1030															X											
S01	1.0	1032															X											
S02	1.0	1035															X											
S03	1.0	1037															X											
S04	1.0	1040															X											
S05	1.0	1042															X											
ICV002	1.0	1045															X											
ICB002	1.0	1048															X											
CCV011	1.0	1050															X											
CCB011	1.0	1053															X											
ZZZZZZ	1.0	1055																										
ZZZZZZ	1.0	1058																										
ZZZZZZ	1.0	1100																										
ZZZZZZ	1.0	1103																										
ZZZZZZ	1.0	1105																										
ZZZZZZ	1.0	1108																										
ZZZZZZ	1.0	1110																										
ZZZZZZ	1.0	1113																										
ZZZZZZ	1.0	1115																										
ZZZZZZ	1.0	1118																										
CCV012	1.0	1120															X											
CCB012	1.0	1123															X											
ZZZZZZ	1.0	1125																										
ZZZZZZ	1.0	1128																										
ZZZZZZ	1.0	1130																										
ZZZZZZ	1.0	1133																										
ZZZZZZ	1.0	1135																										
ZZZZZZ	1.0	1138																										
ZZZZZZ	1.0	1140																										
ZZZZZZ	1.0	1143																										
ZZZZZZ	1.0	1145																										
ZZZZZZ	1.0	1148																										
CCV013	1.0	1150															X											
CCB013	1.0	1153															X											
ZZZZZZ	1.0	1156																										
ZZZZZZ	1.0	1158																										
ZZZZZZ	1.0	1201																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 12/01/2015 End Date: 12/01/2015

Run Batch: HG4120115ISMA

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		
ZZZZZZ	5.0	1203																										
PBS002	1.0	1206															X											
ZZZZZZ	10	1208																										
ZZZZZZ	5.0	1211																										
MBC796	20	1213															X											
ZZZZZZ	20	1216																										
ZZZZZZ	20	1218																										
CCV014	1.0	1221															X											
CCB014	1.0	1223															X											
ZZZZZZ	1.0	1226																										
MBC7A0	10	1228															X											
MBC7A1	10	1231															X											
MBC798	50	1234															X											
MBC798S	50	1236															X											
MBC798D	50	1239															X											
CCV015	1.0	1241															X											
CCB015	1.0	1244															X											

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.098	0	0.200	0.15	-23	0.500	0.49	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.041	0	0.200	0.22	10	0.500	0.48	-4

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: Hg4 **Start Date:** 12/1/2015

Analytical Method: CVAA **Run Batch:** HG4120115ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.0040	0	0.200	0.18	-9	0.500	0.49	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg3 Start Date: 11/20/2015

Analytical Method: CVAA Run Batch: HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.99	-1	5.00	4.9	-2	10.0	10	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Start Date: 11/24/2015

Analytical Method: CVAA Run Batch: HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.96	-4	5.00	5.0	0	10.0	10	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC763

Instrument ID: Hg4 Start Date: 12/1/2015

Analytical Method: CVAA Run Batch: HG4120115ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	2	5.00	5.0	0	10.0	10.0	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9999	0.996	0.0201	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.000	0.0272	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC763

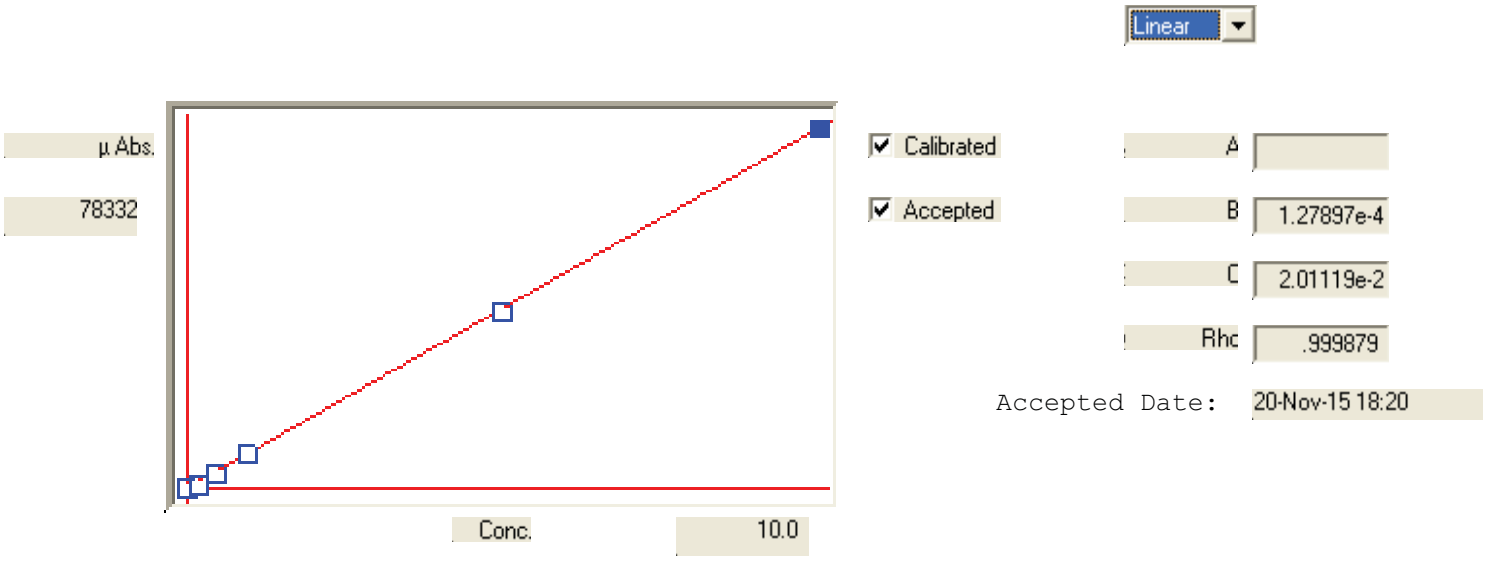
Instrument ID: Hg4 **Start Date:** 12/1/2015

Analytical Method: CVAA **Run Batch:** HG4120115ISMA

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.000	-0.00330	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.098	.098	612	0	612				
02	.20000	.154	-.046	1045	0%	1045				
03	.50000	.493	-.007	3701	0%	3701				
04	1.0000	.993	-.007	7606	0%	7606				
05	5.0000	4.92	-.077	38334	0%	38334				
06	10.000	10.0	.039	78332	0%	78332				
07										
08										
09										
10										

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1      S0      Seq:  140     18:05:04 20 Nov 15   HG

Hg    .000    ppb      612

*** Standard: 2 Rep: 1      S01     Seq:  141     18:08:44 20 Nov 15   HG

Hg    .200    ppb      1045

*** Standard: 3 Rep: 1     S02      Seq:  142     18:10:55 20 Nov 15   HG

Hg    .500    ppb      3701

*** Standard: 4 Rep: 1    S03       Seq:  143     18:13:55 20 Nov 15   HG

Hg    1.00    ppb      7606

*** Standard: 5 Rep: 1    S04       Seq:  144     18:17:01 20 Nov 15   HG

Hg    5.00    ppb      38334

*** Standard: 6 Rep: 1    S05       Seq:  145     18:19:47 20 Nov 15   HG

Hg    10.0    ppb      78332

*** Check Standard: 3  Ck3ICV0508   Seq:  146     18:22:13 20 Nov 15   HG ICV001
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     4.01    4.00  ppb        .000  %

*** Check Standard: 1  Ck1blank     Seq:  147     18:26:09 20 Nov 15   HG ICB001
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .167     .199     ppb        .000  %

*** Check Standard: 4  Ck4CCV1512   Seq:  148     18:29:39 20 Nov 15   HG CCV001
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.4     4.77    5.00  ppb        .000  %

*** Check Standard: 1  Ck1blank     Seq:  149     18:32:12 20 Nov 15   HG CCB001
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .016     .199     ppb        .000  %

*** Sample ID: QQ90138001 112015C    Seq:  150    18:34:46 20 Nov 15   HG
                           PBS001
Hg    .023    ppb       .000  %   .023

================================================================================
*** Sample ID: QK13011001 112015C    Seq:  151    18:37:05 20 Nov 15   HG
                           MBC775
Hg    2.27    ppb       .000  %   2.27
                                                                              =
*** Sample ID: QK13011001 112015C    Seq:  152    18:39:40 20 Nov 15   HG
                           MBC775S
Hg    3.66    ppb       .000  %   3.66
                                                                              =
*** Sample ID: QK13011001 112015C    Seq:  153    18:41:50 20 Nov 15   HG
                           MBC775D
Hg    2.79    ppb       .000  %   2.79
                                                                              =
================================================================================
*** Sample ID: QK13011002 112015C    Seq:  154    18:44:21 20 Nov 15   HG
                           MBC776
Hg    .139    ppb       .000  %   .139
                                                                              =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13011003 112015C    Seq:  155    18:47:10 20 Nov 15   HG
                           MBC777
Hg    .736    ppb       .000  %   .736
                                                                              =
================================================================================
*** Sample ID: QK13011004 112015C    Seq:  156    18:49:11 20 Nov 15   HG
                           MBC777
Hg    .156    ppb       .000  %   .156
                                                                              =
================================================================================
*** Sample ID: QK13011005 112015C    Seq:  157    18:52:06 20 Nov 15   HG
                           MBC779
Hg    .115    ppb       .000  %   .115
                                                                              =
================================================================================
*** Sample ID: QK13011006 112015C    Seq:  158    18:54:11 20 Nov 15   HG
                           MBC780
Hg    .158    ppb       .000  %   .158
                                                                              =
================================================================================
*** Sample ID: QK13011007 112015C    Seq:  159    18:56:31 20 Nov 15   HG
                           MBC781
Hg    .201    ppb       .000  %   .201
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  160     18:58:45 20 Nov 15   HG    CCV002
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.3     4.76    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  161     19:01:45 20 Nov 15   HG   CCB002
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.044     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13011008 112015C    Seq:  162    19:03:48 20 Nov 15   HG
                           MBC782
Hg    .121    ppb       .000  %   .121
                                                                              =
================================================================================
*** Sample ID: QK13011009 112015C    Seq:  163    19:06:50 20 Nov 15   HG
                           MBC783
Hg    .115    ppb       .000  %   .115
                                                                              =
================================================================================
*** Sample ID: QK13011010 112015C    Seq:  164    19:09:01 20 Nov 15   HG
                           MBC784
Hg    1.59    ppb       .000  %   1.59
                                                                              =
================================================================================
*** Sample ID: QK13011011 112015C    Seq:  165    19:11:10 20 Nov 15   HG
                           MBC785
Hg    1.03    ppb       .000  %   1.03
                                                                              =
================================================================================
*** Sample ID: QK13011012 112015C    Seq:  166    19:13:23 20 Nov 15   HG
                           MBC786
Hg    44.8    ppb       .000  %   44.8
                                                                              =
================================================================================
*** Sample ID: QK13011013 112015C    Seq:  167    19:16:44 20 Nov 15   HG
                           MBC787
Hg    4.80    ppb       .000  %   4.80
                                                                              =
================================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13011014 112015C    Seq:  168    19:18:46 20 Nov 15   HG
                           MBC788
Hg    .201    ppb       .000  %   .201
                                                                              =
==============================================================================
*** Sample ID: QK13011015 112015C    Seq:  169    19:20:50 20 Nov 15   HG
                           MBC789
Hg    .189    ppb       .000  %   .189
                                                                              =
==============================================================================
*** Sample ID: QK13011016 112015C    Seq:  170    19:24:10 20 Nov 15   HG
                           MBC7H7
Hg    .082    ppb       .000  %   .082
                                                                              =
==============================================================================
*** Sample ID: QK13011017 112015C    Seq:  171    19:26:14 20 Nov 15   HG
                           MBC790
Hg    16.0    ppb       .000  %   16.0
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  172     19:29:15 20 Nov 15   HG    CCV003
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.7     4.38    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  173     19:31:26 20 Nov 15   HG   CCB003
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.014     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13011018 112015C    Seq:  174    19:33:50 20 Nov 15   HG
                           MBC791
Hg    .478    ppb       .000  %   .478
                                                                              =
==============================================================================
*** Sample ID: QK13011019 112015C    Seq:  175    19:35:58 20 Nov 15   HG
                           MBC792
Hg    1.44    ppb       .000  %   1.44
                                                                              =
==============================================================================
*** Sample ID: QK13011020 112015C    Seq:  176    19:38:22 20 Nov 15   HG
                           MBC793
Hg    3.07    ppb       .000  %   3.07
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  177     19:41:51 20 Nov 15   HG   CCV004
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          93.7     4.68    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  178     19:44:07 20 Nov 15   HG  CCB004
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .078     .199     ppb        .000  %
                                                                              =
*** Sample ID: QQ90139001 112015C    Seq:  179    19:46:21 20 Nov 15   HG
                           PBS001
Hg    .034    ppb       .000  %   .034
                                                                              =
==============================================================================
*** Sample ID: QK13012002 112015C    Seq:  180    19:48:21 20 Nov 15   HG
                           MBC794
Hg    .138    ppb       .000  %   .138
                                                                              =
==============================================================================
*** Sample ID: QK13012003 112015C    Seq:  181    19:50:22 20 Nov 15   HG
                           MBC795
Hg    .701    ppb       .000  %   .701
                                                                              =
==============================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13012004 112015C    Seq:  182    19:52:32 20 Nov 15   HG
                           MBC796
Hg    85.6    ppb       .000  %   85.6
                                                                              =
================================================================================
*** Sample ID: QK13012005 112015C    Seq:  183    19:56:06 20 Nov 15   HG
                           MBC797
Hg    .126    ppb       .000  %   .126
                                                                              =
================================================================================
*** Sample ID: QK13012006 112015C    Seq:  184    19:58:32 20 Nov 15   HG
                           MBC798
Hg    110.    ppb       .000  %   110.
                                                                              =
*** Sample ID: QK13012006 112015C    Seq:  185    20:01:58 20 Nov 15   HG
                           MBC798S
Hg    91.6    ppb       .000  %   91.6
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  186     20:05:00 20 Nov 15   HG   CCV005
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          91.1     4.56    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  187     20:07:05 20 Nov 15   HG   CCB005
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.017     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13012006 112015C    Seq:  188    20:09:10 20 Nov 15   HG
                           MBC798D
Hg    67.7    ppb       .000  %   67.7
                                                                              =
================================================================================
*** Sample ID: QK13012007 112015C    Seq:  189    20:11:31 20 Nov 15   HG
                           MBC799
Hg    9.22    ppb       .000  %   9.22
                                                                              =
================================================================================
*** Sample ID: QK13012008 112015C    Seq:  190    20:15:29 20 Nov 15   HG
                           MBC7A0
Hg    51.7    ppb       .000  %   51.7
                                                                              =
================================================================================
*** Sample ID: QK13012009 112015C    Seq:  191    20:18:14 20 Nov 15   HG
                           MBC7A1
Hg    36.5    ppb       .000  %   36.5
                                                                              =
================================================================================
*** Sample ID: QK13012010 112015C    Seq:  192    20:20:55 20 Nov 15   HG
                           MBC7A2
Hg    .519    ppb       .000  %   .519
                                                                              =
================================================================================
*** Sample ID: QK13012011 112015C    Seq:  193    20:23:05 20 Nov 15   HG
                           MBC7A3
Hg    3.61    ppb       .000  %   3.61
                                                                              =
================================================================================
*** Sample ID: QK13012012 112015C    Seq:  194    20:25:04 20 Nov 15   HG
                           MBC7A4
Hg    1.84    ppb       .000  %   1.84
                                                                              =
================================================================================
```

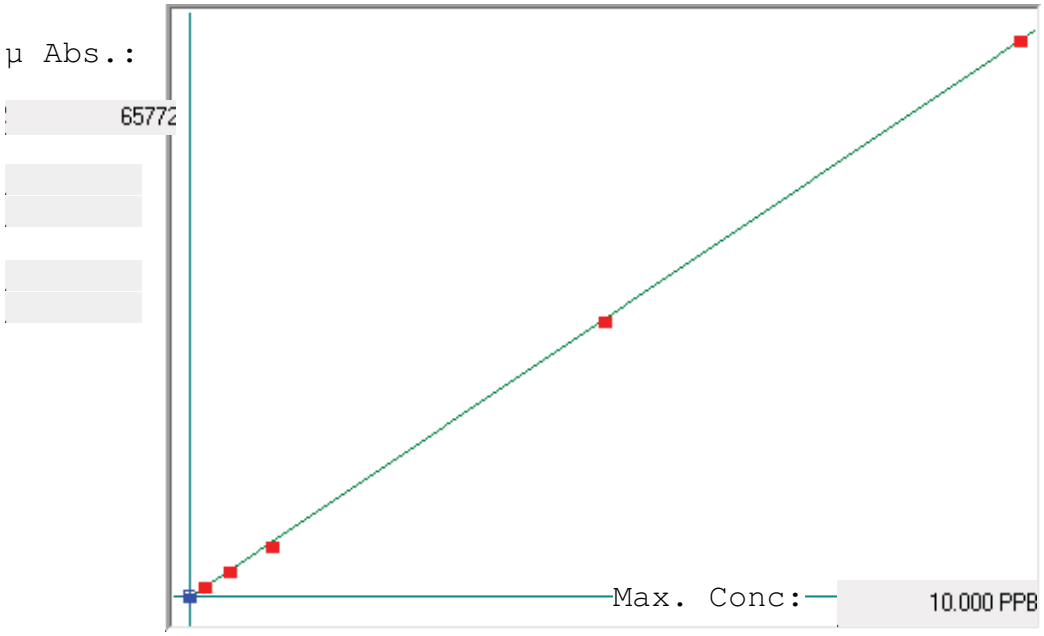
```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13012013 112015C    Seq:  195    20:27:16 20 Nov 15   HG
                           MBC7H9
Hg    .592    ppb       .000  %   .592
                                                                              =
==============================================================================
*** Sample ID: QK13012014 112015C    Seq:  196    20:30:47 20 Nov 15   HG
                           MBC7A5
Hg    .194    ppb       .000  %   .194
                                                                              =
==============================================================================
*** Sample ID: QK13012015 112015C    Seq:  197    20:32:49 20 Nov 15   HG
                           MBC7A6
Hg    .124    ppb       .000  %   .124
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  198     20:36:33 20 Nov 15   HG   CCV006
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.8     4.54    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  199     20:38:32 20 Nov 15   HG   CCB006
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.132     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13012016 112015C    Seq:  200    20:41:53 20 Nov 15   HG
                           MBC7A7
Hg    .085    ppb       .000  %   .085
                                                                              =
==============================================================================
*** Sample ID: QK13012017 112015C    Seq:  201    20:43:58 20 Nov 15   HG
                           MBC7A8
Hg    .416    ppb       .000  %   .416
                                                                              =
==============================================================================
*** Sample ID: QK13012018 112015C    Seq:  202    20:46:24 20 Nov 15   HG
                           MBC7A9
Hg    .536    ppb       .000  %   .536
                                                                              =
==============================================================================
*** Sample ID: QK13012019 112015C    Seq:  203    20:49:16 20 Nov 15   HG
                           MBC7B0
Hg    .642    ppb       .000  %   .642
                                                                              =
==============================================================================
*** Sample ID: QK13012020 112015C    Seq:  204    20:51:42 20 Nov 15   HG
                           MBC7D0
Hg    5.28    ppb       .000  %   5.28
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  205     20:54:18 20 Nov 15   HG   CCV007
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.5     4.38    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  206     20:56:23 20 Nov 15   HG   CCB007
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .098     .199     ppb        .000  %
                                                                              =
*** Sample ID: QQ90140001 112015C    Seq:  207    20:58:43 20 Nov 15   HG
                           PBS001
Hg    .021    ppb       .000  %   .021
                                                                              =
==============================================================================
*** Sample ID: QK13013001 112015C    Seq:  208    21:00:58 20 Nov 15   HG
                           MBC7C9
Hg    1.85    ppb       .000  %   1.85
                                                                              =
```

```
                              ***POST-RUN REPORT***
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13013001 112015C    Seq:  209    21:03:03 20 Nov 15   HG
                           MBC7C9S
Hg    3.57    ppb       .000  %   3.57
                                                                              =
*** Sample ID: QK13013001 112015C    Seq:  210    21:05:18 20 Nov 15   HG
                           MBC7C9D
Hg    2.71    ppb       .000  %   2.71
                                                                              =
================================================================================
*** Sample ID: QK13013002 112015C    Seq:  211    21:08:28 20 Nov 15   HG
                           MBC7D1
Hg    1.19    ppb       .000  %   1.19
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  212     21:10:53 20 Nov 15   HG  CCV008
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          88.5     4.43    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  213     21:13:35 20 Nov 15   HG  CCB008
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .109     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13013003 112015C    Seq:  214    21:16:06 20 Nov 15   HG
                           MBC7B1
Hg    .212    ppb       .000  %   .212
                                                                              =
================================================================================
*** Sample ID: QK13013004 112015C    Seq:  215    21:18:11 20 Nov 15   HG
                           MBC7B2
Hg    .011    ppb       .000  %   .011
                                                                              =
================================================================================
*** Sample ID: QK13013005 112015C    Seq:  216    21:20:12 20 Nov 15   HG
                           MBC7B3
Hg    .279    ppb       .000  %   .279
                                                                              =
================================================================================
*** Sample ID: QK13013006 112015C    Seq:  217    21:22:23 20 Nov 15   HG
                           MBC7B4
Hg    1.04    ppb       .000  %   1.04
                                                                              =
================================================================================
*** Sample ID: QK13013007 112015C    Seq:  218    21:24:39 20 Nov 15   HG
                           MBC7B6
Hg    2.03    ppb       .000  %   2.03
                                                                              =
================================================================================
*** Sample ID: QK13013008 112015C    Seq:  219    21:27:02 20 Nov 15   HG
                           MBC7H8
Hg   -.023    ppb       .000  %  -.023
                                                                              =
================================================================================
*** Sample ID: QK13013009 112015C    Seq:  220    21:29:17 20 Nov 15   HG
                           MBC7B7
Hg    .302    ppb       .000  %   .302
                                                                              =
================================================================================
*** Sample ID: QK17017-009 112015C    Seq:  221    21:31:31 20 Nov 15   HG
                           MBC7B9
Hg    .174    ppb       .000  %   .174
                                                                              =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK17017-010 112015C    Seq:  222    21:33:35 20 Nov 15   HG
                           MBC7C0
Hg    .225    ppb       .000  %   .225
                                                                              =
================================================================================
*** Sample ID: QK17017011 112015C    Seq:  223    21:35:39 20 Nov 15   HG
                           MBC7C1
Hg    .427    ppb       .000  %   .427
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  224     21:37:40 20 Nov 15   HG  CCV009
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.2     4.51    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  225     21:41:00 20 Nov 15   HG  CCB009
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.052     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK17017012 112015C    Seq:  226    21:43:04 20 Nov 15   HG
                           MBC7C2
Hg    .232    ppb       .000  %   .232
                                                                              =
================================================================================
*** Sample ID: QK17017013 112015C    Seq:  227    21:45:30 20 Nov 15   HG
                           MBC7C3
Hg    .384    ppb       .000  %   .384
                                                                              =
================================================================================
*** Sample ID: QK17017014 112015C    Seq:  228    21:48:22 20 Nov 15   HG
                           MBC7C4
Hg    .252    ppb       .000  %   .252
                                                                              =
================================================================================
*** Sample ID: QK17017015 112015C    Seq:  229    21:50:36 20 Nov 15   HG
                           MBC7C5
Hg    .125    ppb       .000  %   .125
                                                                              =
================================================================================
*** Sample ID: QK17017016 112015C    Seq:  230    21:52:39 20 Nov 15   HG
                           MBC7C6
Hg    .110    ppb       .000  %   .110
                                                                              =
================================================================================
*** Sample ID: QK17017017 112015C    Seq:  231    21:55:23 20 Nov 15   HG
                           MBC7C7
Hg    .004    ppb       .000  %   .004
                                                                              =
================================================================================
*** Sample ID: QK17017018 112015C    Seq:  232    21:57:26 20 Nov 15   HG
                           MBC7C8
Hg    .020    ppb       .000  %   .020
                                                                              =
================================================================================
*** Sample ID: QK17017019 112015C    Seq:  233    22:00:08 20 Nov 15   HG
                           MBC7D2
Hg    .123    ppb       .000  %   .123
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  234     22:02:15 20 Nov 15   HG  CCV010
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          80.1     4.00    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  235     22:05:05 20 Nov 15   HG  CCB010
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .040     .199     ppb        .000  %
```

HG4ISMW

Linear



A= 0.0000e+000

B= 1.5178e-004

C= 2.7154e-002

Rho= 0.9999728

Accept= Accepted

Accepted Date=

11/24/15 18:14

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4
BLANK S0	0.000	0.041	0.041	92	0.000	92			
CAL 1 0.2 S01 15HG1518	0.200	0.220	0.020	1268	0.0 %	1268			
CAL 2 0.5 S02 15HG1517	0.500	0.482	-0.018	2999	0.0 %	2999			
CAL 3 1.0 S03 15HG1516	1.000	0.959	-0.041	6138	0.0 %	6138			
CAL 4 5.0 S04 15HG1515	5.000	4.988	-0.012	32683	0.0 %	32683			
CAL 5 10.0 S05 15HG1514	10.000	10.010	0.010	65772	0.0 %	65772			

HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
BLANK S0 - 1		-	PPB	92	24 Nov 2015 18:03:24
CAL 1 0.2 S01 15HG1518 - 1		-	PPB	1268	24 Nov 2015 18:05:15
CAL 2 0.5 S02 15HG1517 - 1		-	PPB	2999	24 Nov 2015 18:07:07
CAL 3 1.0 S03 15HG1516 - 1		-	PPB	6138	24 Nov 2015 18:09:00
CAL 4 5.0 S04 15HG1515 - 1		-	PPB	32683	24 Nov 2015 18:10:53
CAL 5 10.0 S05 15HG1514 - 1		-	PPB	65772	24 Nov 2015 18:12:46
ICV003 15HG1519 - 1		103.3% 4.1321	PPB	27045	24 Nov 2015 18:14:44
ICB 003		-0.0031	PPB	-199	24 Nov 2015 18:16:46
CCV016		97.0% 4.8481	PPB	31762	24 Nov 2015 18:18:39
CCB016		-0.0015	PPB	-189	24 Nov 2015 18:20:29
QQ90339001 - 1	PBW001	0.0323	PPB	34	24 Nov 2015 18:22:27
QJ30005001 - 1	MB0AS8	0.0347	PPB	50	24 Nov 2015 18:24:18
QJ30005002 - 1	MB0AS9	0.0422	PPB	99	24 Nov 2015 18:26:09
QJ30005002MS - 1	MB0AS9S	1.2555	PPB	8093	24 Nov 2015 18:28:00
QJ30005002DU - 1	MB0AS9D	0.0191	PPB	-53	24 Nov 2015 18:29:51
QJ30005003 - 1	MB0AT0	0.0451	PPB	118	24 Nov 2015 18:31:43
QJ30005004 - 1	MB0AT1	0.0413	PPB	93	24 Nov 2015 18:33:35
QJ30005005 - 1	MB0AT2	0.0372	PPB	66	24 Nov 2015 18:35:26
QJ30005006 - 1	MB0AT3	0.0391	PPB	79	24 Nov 2015 18:37:17
QJ30005007 - 1	MB0AT4	0.0379	PPB	71	24 Nov 2015 18:39:09
CCV017		94.0% 4.6978	PPB	30772	24 Nov 2015 18:41:01
CCB 017		-0.0058	PPB	-217	24 Nov 2015 18:42:51
QJ30005008 - 1	MB0AT5	0.0396	PPB	82	24 Nov 2015 18:44:49
QJ30005009 - 1	MB0AT6	0.0663	PPB	258	24 Nov 2015 18:46:41
QJ30005010 - 1	MB0AT7	0.0443	PPB	113	24 Nov 2015 18:48:34
QJ30005011 - 1	MB0AT8	0.0416	PPB	95	24 Nov 2015 18:50:25
QJ30005012 - 1	MB0AT9	0.0508	PPB	156	24 Nov 2015 18:52:16
QJ30005013 - 1	MB0AW1	0.0396	PPB	82	24 Nov 2015 18:54:07
QJ30005013MS - 1	MB0AW1S	1.2481	PPB	8044	24 Nov 2015 18:55:58
QJ30005013DU - 1	MB0AW1D	0.0226	PPB	-30	24 Nov 2015 18:57:49
QJ30009001 - 1	MBC2X1	0.0390	PPB	78	24 Nov 2015 18:59:42
QJ30009001MS - 1	MBC2X1S	1.2832	PPB	8275	24 Nov 2015 19:01:33
CCV 018		91.8% 4.5919	PPB	30074	24 Nov 2015 19:03:25
CCB 018		-0.0000	PPB	-179	24 Nov 2015 19:05:17
QJ30009001DU - 1	MBC2X1D	0.0420	PPB	98	24 Nov 2015 19:07:15
QJ30009002 - 1	MBC2X2	0.0375	PPB	68	24 Nov 2015 19:09:07
QJ30009003 - 1	MBC2X3	0.0516	PPB	161	24 Nov 2015 19:10:59
QJ30009004 - 1	MBC2W9	0.0367	PPB	63	24 Nov 2015 19:12:51
QJ30009004MS - 1	MBC2W9S	1.2944	PPB	8349	24 Nov 2015 19:14:44
QJ30009004DU - 1	MBC2W9D	0.0256	PPB	-10	24 Nov 2015 19:16:35
QJ30009005 - 1	MBC2X5	0.0452	PPB	119	24 Nov 2015 19:18:28
QJ30009006 - 1	MBC2X6	0.0449	PPB	117	24 Nov 2015 19:20:20
QQ90340001 - 1	PBW001	7.0069	PPB	45985	24 Nov 2015 19:22:11
QK12004001 - 1	MBC7F4	0.0023	PPB	-164	24 Nov 2015 19:24:03
CCV 019		94.7% 4.7327	PPB	31002	24 Nov 2015 19:26:04
CCB 019		-0.0134	PPB	-267	24 Nov 2015 19:27:54
QK12004001 - 1	MBC7F4	0.0401	PPB	85	24 Nov 2015 19:29:50
QK12004002 - 1	MBC7F5	0.0420	PPB	98	24 Nov 2015 19:31:42
QK12004002MS - 1	MBC7F5S	1.3798	PPB	8912	24 Nov 2015 19:33:33
QK12004002DU - 1	MBC7F5D	0.0293	PPB	14	24 Nov 2015 19:35:25
QK12004003 - 1	MBC7F6	0.0391	PPB	79	24 Nov 2015 19:37:19
QK12004004 - 1	MBC7F7	0.0401	PPB	85	24 Nov 2015 19:39:10
QK12004005 - 1	MBC7F8	0.0513	PPB	159	24 Nov 2015 19:41:02
QK12004006 - 1	MBC7F9	0.0358	PPB	57	24 Nov 2015 19:42:53
QK12004007 - 1	MBC7G0	0.0457	PPB	122	24 Nov 2015 19:44:45
QK12004008 - 1	MBC7G1	0.1563	PPB	851	24 Nov 2015 19:46:38
CCV 020		95.1% 4.7564	PPB	31158	24 Nov 2015 19:48:30
CCB 020		-0.0015	PPB	-189	24 Nov 2015 19:50:21
QK12004009 - 1	MBC7G2	0.1105	PPB	549	24 Nov 2015 19:52:19
QK12004010 - 1	MBC7G3	0.0387	PPB	76	24 Nov 2015 19:54:12
QK12004011 - 1	MBC7G4	0.0382	PPB	73	24 Nov 2015 19:56:04
QK12004012 - 1	MBC7G5	0.0341	PPB	46	24 Nov 2015 19:57:57
QK12004013 - 1	MBC7G6	0.0437	PPB	109	24 Nov 2015 19:59:49
QK12004014 - 1	MBC764	0.0393	PPB	80	24 Nov 2015 20:01:40
QK03007011 - 1	MJHBR3	0.0361	PPB	59	24 Nov 2015 20:03:33
QK03007012 - 1	MJBW1	0.0420	PPB	98	24 Nov 2015 20:05:25
QK04017003 - 1	MX2173	5.0644	PPB	33187	24 Nov 2015 20:07:18
QK04017003MS - 1	MX2173S	7.4923	PPB	49183	24 Nov 2015 20:09:10
CCV 021		96.1% 4.8027	PPB	31463	24 Nov 2015 20:11:08

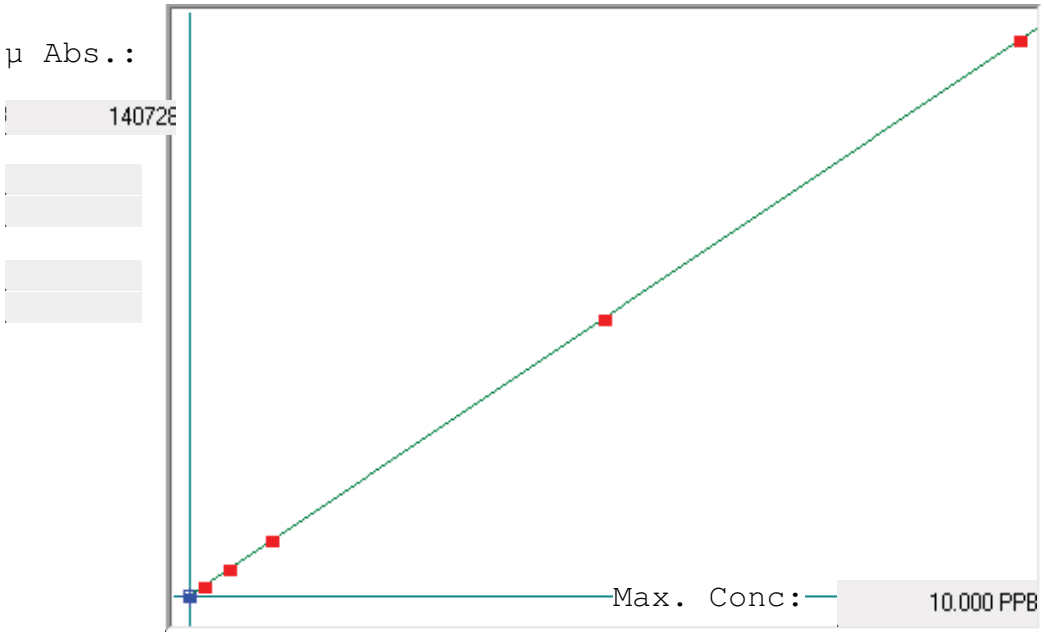
HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
CCB 021		-0.0096	PPB	-242	24 Nov 2015 20:13:07
QK04017003DU - 1	MX2173D	0.0237	PPB	-23	24 Nov 2015 20:15:05
QK13012001 - 1	MB763	0.0476	PPB	135	24 Nov 2015 20:16:57
QK13012001MS - 1	MB763S	0.3942	PPB	2418	24 Nov 2015 20:18:49
QK13012001DU - 1	MB763D	0.0393	PPB	80	24 Nov 2015 20:20:42
QQ90341001 - 1	PBW001	0.0373	PPB	67	24 Nov 2015 20:22:35
QK05011001 - 1	MC0KF9	0.0385	PPB	75	24 Nov 2015 20:24:27
QK05011002 - 1	MC0KG0	0.0757	PPB	320	24 Nov 2015 20:26:19
QK05011003 - 1	MC0KG1	0.0379	PPB	71	24 Nov 2015 20:28:12
QK05011004 - 1	MC0KG2	0.0373	PPB	67	24 Nov 2015 20:30:04
QK05011005 - 1	MC0KG3	0.0379	PPB	71	24 Nov 2015 20:31:56
CCV 022		97.3% 4.8666	PPB	31884	24 Nov 2015 20:33:49
CCB022		-0.0043	PPB	-207	24 Nov 2015 20:35:39
QK05011006 - 1	MC0KG4	0.0357	PPB	56	24 Nov 2015 20:37:37
QK05011007 - 1	MC0KJ9	0.0401	PPB	85	24 Nov 2015 20:39:30
QK05011008 - 1	MC0KK0	0.0364	PPB	61	24 Nov 2015 20:41:21
QK05011009 - 1	MC0KH4	0.0411	PPB	92	24 Nov 2015 20:43:13
QK05011010 - 1	MC0KK1	0.0408	PPB	90	24 Nov 2015 20:45:06
QK05011011 - 1	MC0KK2	0.0542	PPB	178	24 Nov 2015 20:46:58
QK05011012 - 1	MC0KK5	0.0445	PPB	114	24 Nov 2015 20:48:50
QK05011012MS - 1	MC0KK5S	0.8321	PPB	5303	24 Nov 2015 20:50:42
QK05011012DU - 1	MC0KKD5	0.0302	PPB	20	24 Nov 2015 20:52:34
QK05011013 - 1	MC0KK6	0.0391	PPB	79	24 Nov 2015 20:54:28
CCV 023		95.3% 4.7666	PPB	31225	24 Nov 2015 20:56:20
CCB 023		-0.0068	PPB	-224	24 Nov 2015 20:58:10
QK05011013MS - 1	MC0KK6S	0.8172	PPB	5205	24 Nov 2015 21:00:08
QK05011013DU - 1	MC0KK6D	0.0296	PPB	16	24 Nov 2015 21:02:00
QK05011014 - 1	MC0KN0	0.0437	PPB	109	24 Nov 2015 21:03:54
QK05011015 - 1	MC0KN7	0.0455	PPB	121	24 Nov 2015 21:05:46
QK05011016 - 1	MC0KN8	0.0413	PPB	93	24 Nov 2015 21:07:38
QK05011017 - 1	MC0KN9	0.0355	PPB	55	24 Nov 2015 21:09:30
QK05011018 - 1	MC0KP1	0.0382	PPB	73	24 Nov 2015 21:11:23
QK05011019 - 1	MC0KP2	0.0381	PPB	72	24 Nov 2015 21:13:15
QK05011020 - 1	MC0KP3	0.0402	PPB	86	24 Nov 2015 21:15:07
QQ90340001 - 1	PBW003	0.0428	PPB	103	24 Nov 2015 21:17:00
CCV 024		95.7% 4.7866	PPB	31357	24 Nov 2015 21:18:53
CCB 024		-0.0037	PPB	-203	24 Nov 2015 21:20:43
QK04017003 - 1	MX2173	6.3586	PPB	41714	24 Nov 2015 21:22:41
QK04017003MS - 1	MX2173S	7.5041	PPB	49261	24 Nov 2015 21:24:33
QK04017003DU - 1	MX2173D	6.2550	PPB	41031	24 Nov 2015 21:26:33
CCV 025		92.7% 4.6374	PPB	30374	24 Nov 2015 21:28:34
CCB 025		-0.0049	PPB	-211	24 Nov 2015 21:30:31

HG4ISMS

Linear



A= 0.0000e+000

B= 7.1034e-005

C= -3.2966e-003

Rho= 0.9999945

Accept= Accepted

Accepted Date=

12/01/15 10:45

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
BLANK S0	0.000	0.004	0.004	105	0.000	105				
CAL 1 0.2 S01	0.200	0.183	-0.017	2628	0.0 %	2628				
CAL 2 0.5 S02	0.500	0.490	-0.010	6947	0.0 %	6947				
CAL 3 1.0 S03	1.000	1.018	0.018	14371	0.0 %	14371				
CAL 4 5.0 S04	5.000	5.012	0.012	70597	0.0 %	70597				
CAL 5 10.0 S05	10.000	9.993	-0.007	140728	0.0 %	140728				

HG4120115ISMA

Method: HG4ISMS Operator: COH Date of Analysis: 01 Dec 2015 10:29:54

Sample ID	Extended ID	Conc.	µ Abs.	Date
BLANK S0 - 1		-	105	01 Dec 2015 10:30:21
CAL 1 0.2 S01 - 1		-	2628	01 Dec 2015 10:32:51
CAL 2 0.5 S02 - 1		-	6947	01 Dec 2015 10:35:23
CAL 3 1.0 S03 - 1		-	14371	01 Dec 2015 10:37:55
CAL 4 5.0 S04 - 1		-	70597	01 Dec 2015 10:40:27
CAL 5 10.0 S05 - 1		-	140728	01 Dec 2015 10:42:58
ICV002 EPA ICV5-0508 - 1		98.5% 3.9385	55491	01 Dec 2015 10:45:29
ICB002		0.0022	78	01 Dec 2015 10:48:00
CCV011		107.9% 5.3928	75965	01 Dec 2015 10:50:30
CCB 011		0.0039	101	01 Dec 2015 10:53:00
QQ90781001 - 1	PBS	0.0030	88	01 Dec 2015 10:55:31
QK09001001 - 1	ME6BD1	0.9654	13637	01 Dec 2015 10:58:02
QK09001001MS - 1	ME6BD1S	4.5082	63512	01 Dec 2015 11:00:33
QK09001001DU - 1	ME6BD1D	0.5733	8117	01 Dec 2015 11:03:04
QK09001002 - 1	ME6BD2	0.6268	8871	01 Dec 2015 11:05:34
QK09001003 - 1	ME6BD3	0.9329	13179	01 Dec 2015 11:08:05
QK09001004 - 1	ME6BD4	1.2020	16968	01 Dec 2015 11:10:36
QK09001005 - 1	ME6BD5	0.2609	3719	01 Dec 2015 11:13:07
QK09001006 - 1	ME6BD6	0.0578	860	01 Dec 2015 11:15:38
QK09001007 - 1	ME6BD7	0.3136	4461	01 Dec 2015 11:18:10
CCV 012		97.6% 4.8814	68765	01 Dec 2015 11:20:42
CCB 012		0.0027	84	01 Dec 2015 11:23:12
QK09001008 - 1	ME6BD8	0.7287	10305	01 Dec 2015 11:25:43
QK09001009 - 1	ME6BD9	0.4848	6871	01 Dec 2015 11:28:15
QK09001010 - 1	ME6BE0	0.3855	5473	01 Dec 2015 11:30:47
QK09001011 - 1	ME6BE1	0.3607	5124	01 Dec 2015 11:33:18
QK09001012 - 1	ME6BE2	2.9649	41785	01 Dec 2015 11:35:49
QK09001013 - 1	ME6BE3	0.1988	2845	01 Dec 2015 11:38:19
QK09001014 - 1	ME6BE4	3.3643	47408	01 Dec 2015 11:40:50
QK09001015 - 1	ME6BE5	3.3450	47137	01 Dec 2015 11:43:21
QK09001016 - 1	ME6BE6	24.9932	351893	01 Dec 2015 11:45:52
QK09001017 - 1	ME6BE8	5.0638	71333	01 Dec 2015 11:48:23
CCV 013		101.8% 5.0912	71719	01 Dec 2015 11:50:59
CCB 013		-0.0334	-424	01 Dec 2015 11:53:29
QK09001018 - 1	ME6BE9	4.7533	66962	01 Dec 2015 11:56:02
QK09001019 - 1	ME6BF0	1.4172	19998	01 Dec 2015 11:58:34
QK09001020 - 1	ME6BF1	1.2321	17392	01 Dec 2015 12:01:08
QK90001016(5) - 1	ME6BE6	4.8714	68624	01 Dec 2015 12:03:40
QQ90839001 - 1	PBS002	0.0130	229	01 Dec 2015 12:06:12
QK13011012(10) - 1	MBC786	5.4560	76854	01 Dec 2015 12:08:44
QK13011017(5) - 1	MBC790	2.7513	38778	01 Dec 2015 12:11:15
QK13012004(20) - 1	MBC796	3.2265	45468	01 Dec 2015 12:13:46
QK13012006(20) - 1	MBC798	12.6097	177562	01 Dec 2015 12:16:18
QK13012006MS(20) - 1	MBC798S	5.4004	76071	01 Dec 2015 12:18:49
CCV 014		100.6% 5.0276	70824	01 Dec 2015 12:21:22
CCB 014		0.0092	176	01 Dec 2015 12:23:52
QK13012006DU(20) - 1	MBC798D	7.6288	107443	01 Dec 2015 12:26:26
QK13012008(10) - 1	MBC7A0	5.3425	75256	01 Dec 2015 12:28:57
QK13012009(10) - 1	MBC7A1	9.2979	130939	01 Dec 2015 12:31:31
QK13012006(50) - 1	MBC798	5.1045	71906	01 Dec 2015 12:34:03
QK13012006MS(50) - 1	MBC798S	2.3106	32574	01 Dec 2015 12:36:36
QK13012006DU(50) - 1	MBC798D	3.2427	45696	01 Dec 2015 12:39:08
CCV 015		101.9% 5.0960	71786	01 Dec 2015 12:41:41
CCB 015		0.0181	301	01 Dec 2015 12:44:11

Mercury Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	Sample ID:	Std01Rep1	EPA Sample ID:	S0		Date:	11/20/2015	18:05:04	Dilution:	1
2·	Sample ID:	Std02Rep1	EPA Sample ID:	S01		Date:	11/20/2015	18:08:44	Dilution:	1
3·	Sample ID:	Std03Rep1	EPA Sample ID:	S02		Date:	11/20/2015	18:10:55	Dilution:	1
4·	Sample ID:	Std04Rep1	EPA Sample ID:	S03		Date:	11/20/2015	18:13:55	Dilution:	1
5·	Sample ID:	Std05Rep1	EPA Sample ID:	S04		Date:	11/20/2015	18:17:01	Dilution:	1
6·	Sample ID:	Std06Rep1	EPA Sample ID:	S05		Date:	11/20/2015	18:19:47	Dilution:	1
7·	Sample ID:	ICV1	EPA Sample ID:	ICV001		Date:	11/20/2015	18:22:13	Dilution:	1
8·	Sample ID:	ICB1	EPA Sample ID:	ICB001		Date:	11/20/2015	18:26:09	Dilution:	1
9·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV001		Date:	11/20/2015	18:29:39	Dilution:	1
10·	Sample ID:	CCB1	EPA Sample ID:	CCB001		Date:	11/20/2015	18:32:12	Dilution:	1
11·	Sample ID:	QQ90138-001	EPA Sample ID:	PBS001		Date:	11/20/2015	18:34:46	Dilution:	1
12·	Sample ID:	QK13011-001	EPA Sample ID:	MBC775		Date:	11/20/2015	18:37:05	Dilution:	1
13·	Sample ID:	QK13011-001MS	EPA Sample ID:	MBC775S		Date:	11/20/2015	18:39:40	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			3.6600	10	3.0	45.0	0.00	0.00	0.10
14·	Sample ID:	QK13011-001DU	EPA Sample ID:	MBC775D		Date:	11/20/2015	18:41:50	Dilution:	1
15·	Sample ID:	QK13011-002	EPA Sample ID:	MBC776		Date:	11/20/2015	18:44:21	Dilution:	1
16·	Sample ID:	QK13011-003	EPA Sample ID:	MBC777		Date:	11/20/2015	18:47:10	Dilution:	1
17·	Sample ID:	QK13011-004	EPA Sample ID:	MBC778		Date:	11/20/2015	18:49:11	Dilution:	1
18·	Sample ID:	QK13011-005	EPA Sample ID:	MBC779		Date:	11/20/2015	18:52:06	Dilution:	1
19·	Sample ID:	QK13011-006	EPA Sample ID:	MBC780		Date:	11/20/2015	18:54:11	Dilution:	1
20·	Sample ID:	QK13011-007	EPA Sample ID:	MBC781		Date:	11/20/2015	18:56:31	Dilution:	1
21·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV002		Date:	11/20/2015	18:58:45	Dilution:	1
22·	Sample ID:	CCB2	EPA Sample ID:	CCB002		Date:	11/20/2015	19:01:45	Dilution:	1
23·	Sample ID:	QK13011-008	EPA Sample ID:	MBC782		Date:	11/20/2015	19:03:48	Dilution:	1
24·	Sample ID:	QK13011-009	EPA Sample ID:	MBC783		Date:	11/20/2015	19:06:50	Dilution:	1
25·	Sample ID:	QK13011-010	EPA Sample ID:	MBC784		Date:	11/20/2015	19:09:01	Dilution:	1
26·	Sample ID:	QK13011-011	EPA Sample ID:	MBC785		Date:	11/20/2015	19:11:10	Dilution:	1
27·	Sample ID:	QK13011-012	EPA Sample ID:	MBC786		Date:	11/20/2015	19:13:23	Dilution:	1
Hg	PARAMETER IS OVER RANGE			44.8000	10			0.00	0.00	0.10
28·	Sample ID:	QK13011-013	EPA Sample ID:	MBC787		Date:	11/20/2015	19:16:44	Dilution:	1
29·	Sample ID:	QK13011-014	EPA Sample ID:	MBC788		Date:	11/20/2015	19:18:46	Dilution:	1
30·	Sample ID:	QK13011-015	EPA Sample ID:	MBC789		Date:	11/20/2015	19:20:50	Dilution:	1
31·	Sample ID:	QK13011-016	EPA Sample ID:	MBC7H7		Date:	11/20/2015	19:24:10	Dilution:	1
32·	Sample ID:	QK13011-017	EPA Sample ID:	MBC790		Date:	11/20/2015	19:26:14	Dilution:	1
Hg	PARAMETER IS OVER RANGE			16.0000	10			0.00	0.00	0.10
33·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV003		Date:	11/20/2015	19:29:15	Dilution:	1
34·	Sample ID:	CCB3	EPA Sample ID:	CCB003		Date:	11/20/2015	19:31:26	Dilution:	1
35·	Sample ID:	QK13011-018	EPA Sample ID:	MBC791		Date:	11/20/2015	19:33:50	Dilution:	1
36·	Sample ID:	QK13011-019	EPA Sample ID:	MBC792		Date:	11/20/2015	19:35:58	Dilution:	1
37·	Sample ID:	QK13011-020	EPA Sample ID:	MBC793		Date:	11/20/2015	19:38:22	Dilution:	1
38·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV004		Date:	11/20/2015	19:41:51	Dilution:	1
39·	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/20/2015	19:44:07	Dilution:	1

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
40·	**Sample ID:**	**QQ90139-001**	**EPA Sample ID:**	**PBS001**		**Date:**	**11/20/2015**	**19:46:21**	**Dilution:**	**1**
41·	**Sample ID:**	**QK13012-002**	**EPA Sample ID:**	**MBC794**		**Date:**	**11/20/2015**	**19:48:21**	**Dilution:**	**1**
42·	**Sample ID:**	**QK13012-003**	**EPA Sample ID:**	**MBC795**		**Date:**	**11/20/2015**	**19:50:22**	**Dilution:**	**1**
43·	**Sample ID:**	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**11/20/2015**	**19:52:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			85.6000	10			0.00	0.00	0.10
44·	**Sample ID:**	**QK13012-005**	**EPA Sample ID:**	**MBC797**		**Date:**	**11/20/2015**	**19:56:06**	**Dilution:**	**1**
45·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**19:58:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			110.0000	10			0.00	0.00	0.10
46·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**20:01:58**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			91.6000	10			0.00	0.00	0.10
47·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV005**		**Date:**	**11/20/2015**	**20:05:00**	**Dilution:**	**1**
48·	**Sample ID:**	**CCB5**	**EPA Sample ID:**	**CCB005**		**Date:**	**11/20/2015**	**20:07:05**	**Dilution:**	**1**
49·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**20:09:10**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			67.7000	10			0.00	0.00	0.10
50·	**Sample ID:**	**QK13012-007**	**EPA Sample ID:**	**MBC799**		**Date:**	**11/20/2015**	**20:11:31**	**Dilution:**	**1**
51·	**Sample ID:**	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**11/20/2015**	**20:15:29**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			51.7000	10			0.00	0.00	0.10
52·	**Sample ID:**	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**11/20/2015**	**20:18:14**	**Dilution:**	**1**
53·	**Sample ID:**	**QK13012-010**	**EPA Sample ID:**	**MBC7A2**		**Date:**	**11/20/2015**	**20:23:05**	**Dilution:**	**1**
54·	**Sample ID:**	**QK13012-012**	**EPA Sample ID:**	**MBC7A4**		**Date:**	**11/20/2015**	**20:25:04**	**Dilution:**	**1**
55·	**Sample ID:**	**QK13012-013**	**EPA Sample ID:**	**MBC7H9**		**Date:**	**11/20/2015**	**20:27:16**	**Dilution:**	**1**
56·	**Sample ID:**	**QK13012-014**	**EPA Sample ID:**	**MBC7A5**		**Date:**	**11/20/2015**	**20:30:47**	**Dilution:**	**1**
57·	**Sample ID:**	**QK13012-015**	**EPA Sample ID:**	**MBC7A6**		**Date:**	**11/20/2015**	**20:32:49**	**Dilution:**	**1**
58·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV006**		**Date:**	**11/20/2015**	**20:36:33**	**Dilution:**	**1**
59·	**Sample ID:**	**CCB6**	**EPA Sample ID:**	**CCB006**		**Date:**	**11/20/2015**	**20:38:32**	**Dilution:**	**1**
60·	**Sample ID:**	**QK13012-016**	**EPA Sample ID:**	**MBC7A7**		**Date:**	**11/20/2015**	**20:41:53**	**Dilution:**	**1**
61·	**Sample ID:**	**QK13012-017**	**EPA Sample ID:**	**MBC7A8**		**Date:**	**11/20/2015**	**20:43:58**	**Dilution:**	**1**
62·	**Sample ID:**	**QK13012-018**	**EPA Sample ID:**	**MBC7A9**		**Date:**	**11/20/2015**	**20:46:24**	**Dilution:**	**1**
63·	**Sample ID:**	**QK13012-019**	**EPA Sample ID:**	**MBC7B0**		**Date:**	**11/20/2015**	**20:49:16**	**Dilution:**	**1**
64·	**Sample ID:**	**QK13012-020**	**EPA Sample ID:**	**MBC7D0**		**Date:**	**11/20/2015**	**20:51:42**	**Dilution:**	**1**
65·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV007**		**Date:**	**11/20/2015**	**20:54:18**	**Dilution:**	**1**
66·	**Sample ID:**	**CCB7**	**EPA Sample ID:**	**CCB007**		**Date:**	**11/20/2015**	**20:56:23**	**Dilution:**	**1**
67·	**Sample ID:**	**QQ90140-001**	**EPA Sample ID:**	**QQ90140-001MB**		**Date:**	**11/20/2015**	**20:58:43**	**Dilution:**	**1**
68·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:00:58**	**Dilution:**	**1**
69·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:03:03**	**Dilution:**	**1**
70·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:05:18**	**Dilution:**	**1**
71·	**Sample ID:**	**QK13013-002**	**EPA Sample ID:**	**MBC7D1**		**Date:**	**11/20/2015**	**21:08:28**	**Dilution:**	**1**
72·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV008**		**Date:**	**11/20/2015**	**21:10:53**	**Dilution:**	**1**
73·	**Sample ID:**	**CCB8**	**EPA Sample ID:**	**CCB008**		**Date:**	**11/20/2015**	**21:13:35**	**Dilution:**	**1**
74·	**Sample ID:**	**QK13013-003**	**EPA Sample ID:**	**MBC7B1**		**Date:**	**11/20/2015**	**21:16:06**	**Dilution:**	**1**
75·	**Sample ID:**	**QK13013-004**	**EPA Sample ID:**	**MBC7B2**		**Date:**	**11/20/2015**	**21:18:11**	**Dilution:**	**1**
76·	**Sample ID:**	**QK13013-005**	**EPA Sample ID:**	**MBC7B3**		**Date:**	**11/20/2015**	**21:20:12**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
77·	**Sample ID:**	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/20/2015**	**21:22:23**	**Dilution:**	**1**
78·	**Sample ID:**	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/20/2015**	**21:24:39**	**Dilution:**	**1**
79·	**Sample ID:**	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/20/2015**	**21:27:02**	**Dilution:**	**1**
80·	**Sample ID:**	**QK13013-009**	**EPA Sample ID:**	**QK13013009**		**Date:**	**11/20/2015**	**21:29:17**	**Dilution:**	**1**
81·	**Sample ID:**	**QK13013-010**	**EPA Sample ID:**	**QK13013010**		**Date:**	**11/20/2015**	**21:31:31**	**Dilution:**	**1**
82·	**Sample ID:**	**QK13013-011**	**EPA Sample ID:**	**QK13013011**		**Date:**	**11/20/2015**	**21:33:35**	**Dilution:**	**1**
83·	**Sample ID:**	**QK13013-012**	**EPA Sample ID:**	**QK13013012**		**Date:**	**11/20/2015**	**21:35:39**	**Dilution:**	**1**
84·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV009**		**Date:**	**11/20/2015**	**21:37:40**	**Dilution:**	**1**
85·	**Sample ID:**	**CCB9**	**EPA Sample ID:**	**CCB009**		**Date:**	**11/20/2015**	**21:41:00**	**Dilution:**	**1**
86·	**Sample ID:**	**QK13013-013**	**EPA Sample ID:**	**QK13013013**		**Date:**	**11/20/2015**	**21:43:04**	**Dilution:**	**1**
87·	**Sample ID:**	**QK13013-014**	**EPA Sample ID:**	**QK13013014**		**Date:**	**11/20/2015**	**21:45:30**	**Dilution:**	**1**
88·	**Sample ID:**	**QK13013-015**	**EPA Sample ID:**	**QK13013015**		**Date:**	**11/20/2015**	**21:48:22**	**Dilution:**	**1**
89·	**Sample ID:**	**QK13013-016**	**EPA Sample ID:**	**QK13013016**		**Date:**	**11/20/2015**	**21:50:36**	**Dilution:**	**1**
90·	**Sample ID:**	**QK13013-017**	**EPA Sample ID:**	**QK13013017**		**Date:**	**11/20/2015**	**21:52:39**	**Dilution:**	**1**
91·	**Sample ID:**	**QK13013-018**	**EPA Sample ID:**	**QK13013018**		**Date:**	**11/20/2015**	**21:55:23**	**Dilution:**	**1**
92·	**Sample ID:**	**QK13013-019**	**EPA Sample ID:**	**QK13013019**		**Date:**	**11/20/2015**	**21:57:26**	**Dilution:**	**1**
93·	**Sample ID:**	**QK13013-020**	**EPA Sample ID:**	**QK13013020**		**Date:**	**11/20/2015**	**22:00:08**	**Dilution:**	**1**
94·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV010**		**Date:**	**11/20/2015**	**22:02:15**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			4.0000	10	5.0	80.0	0.00	0.02	0.20
95·	**Sample ID:**	**CCB10**	**EPA Sample ID:**	**CCB010**		**Date:**	**11/20/2015**	**22:05:05**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
96·	Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	11/24/2015	18:03:24	Dilution:	1
97·	Sample ID:	CAL 1 0-.2 S01 15HG1	EPA Sample ID:	S01		Date:	11/24/2015	18:05:15	Dilution:	1
98·	Sample ID:	CAL 2 0-.5 S02 15HG1	EPA Sample ID:	S02		Date:	11/24/2015	18:07:07	Dilution:	1
99·	Sample ID:	CAL 3 1-.0 S03 15HG1	EPA Sample ID:	S03		Date:	11/24/2015	18:09:00	Dilution:	1
100·	Sample ID:	CAL 4 5-.0 S04 15HG1	EPA Sample ID:	S04		Date:	11/24/2015	18:10:53	Dilution:	1
101·	Sample ID:	CAL 5 1-0.0 S05 15HG	EPA Sample ID:	S05		Date:	11/24/2015	18:12:46	Dilution:	1
102·	Sample ID:	ICV3	EPA Sample ID:	ICV003		Date:	11/24/2015	18:14:44	Dilution:	1
103·	Sample ID:	ICB3	EPA Sample ID:	ICB003		Date:	11/24/2015	18:16:46	Dilution:	1
104·	Sample ID:	CCV16	EPA Sample ID:	CCV016		Date:	11/24/2015	18:18:39	Dilution:	1
105·	Sample ID:	CCB16	EPA Sample ID:	CCB016		Date:	11/24/2015	18:20:29	Dilution:	1
106·	Sample ID:	QQ90339-001	EPA Sample ID:	QQ90339-001MB		Date:	11/24/2015	18:22:27	Dilution:	1
107·	Sample ID:	QJ30005-001	EPA Sample ID:	MB0AS8		Date:	11/24/2015	18:24:18	Dilution:	1
108·	Sample ID:	QJ30005-002	EPA Sample ID:	MB0AS9		Date:	11/24/2015	18:26:09	Dilution:	1
109·	Sample ID:	QJ30005-002MS	EPA Sample ID:	MB0AS9S		Date:	11/24/2015	18:28:00	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2555	25	1.0	126.0	0.00	0.02	0.20
110·	Sample ID:	QJ30005-002DU	EPA Sample ID:	MB0AS9D		Date:	11/24/2015	18:29:51	Dilution:	1
111·	Sample ID:	QJ30005-003	EPA Sample ID:	MB0AT0		Date:	11/24/2015	18:31:43	Dilution:	1
112·	Sample ID:	QJ30005-004	EPA Sample ID:	MB0AT1		Date:	11/24/2015	18:33:35	Dilution:	1
113·	Sample ID:	QJ30005-005	EPA Sample ID:	MB0AT2		Date:	11/24/2015	18:35:26	Dilution:	1
114·	Sample ID:	QJ30005-006	EPA Sample ID:	MB0AT3		Date:	11/24/2015	18:37:17	Dilution:	1
115·	Sample ID:	QJ30005-007	EPA Sample ID:	MB0AT4		Date:	11/24/2015	18:39:09	Dilution:	1
116·	Sample ID:	CCV17	EPA Sample ID:	CCV017		Date:	11/24/2015	18:41:01	Dilution:	1
117·	Sample ID:	CCB27	EPA Sample ID:	CCB017		Date:	11/24/2015	18:42:51	Dilution:	1
118·	Sample ID:	QJ30005-008	EPA Sample ID:	MB0AT5		Date:	11/24/2015	18:44:49	Dilution:	1
119·	Sample ID:	QJ30005-009	EPA Sample ID:	MB0AT6		Date:	11/24/2015	18:46:41	Dilution:	1
120·	Sample ID:	QJ30005-010	EPA Sample ID:	MB0AT7		Date:	11/24/2015	18:48:34	Dilution:	1
121·	Sample ID:	QJ30005-011	EPA Sample ID:	MB0AT8		Date:	11/24/2015	18:50:25	Dilution:	1
122·	Sample ID:	QJ30005-012	EPA Sample ID:	MB0AT9		Date:	11/24/2015	18:52:16	Dilution:	1
123·	Sample ID:	QJ30005-013	EPA Sample ID:	MB0AW1		Date:	11/24/2015	18:54:07	Dilution:	1
124·	Sample ID:	QJ30005-013MS	EPA Sample ID:	MB0AW1S		Date:	11/24/2015	18:55:58	Dilution:	1
125·	Sample ID:	QJ30005-013DU	EPA Sample ID:	MB0AW1D		Date:	11/24/2015	18:57:49	Dilution:	1
126·	Sample ID:	QJ30009-001	EPA Sample ID:	MBC2X1		Date:	11/24/2015	18:59:42	Dilution:	1
127·	Sample ID:	QJ30009-001MS	EPA Sample ID:	MBC2X1S		Date:	11/24/2015	19:01:33	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2832	25	1.0	126.0	0.00	0.02	0.20
128·	Sample ID:	CCV18	EPA Sample ID:	CCV018		Date:	11/24/2015	19:03:25	Dilution:	1
129·	Sample ID:	CCB18	EPA Sample ID:	CCB018		Date:	11/24/2015	19:05:17	Dilution:	1
130·	Sample ID:	QJ30009-001DU	EPA Sample ID:	MBC2X1D		Date:	11/24/2015	19:07:15	Dilution:	1
131·	Sample ID:	QJ30009-002	EPA Sample ID:	MBC2X2		Date:	11/24/2015	19:09:07	Dilution:	1
132·	Sample ID:	QJ30009-003	EPA Sample ID:	MBC2X3		Date:	11/24/2015	19:10:59	Dilution:	1
133·	Sample ID:	QJ30009-004	EPA Sample ID:	MBC2W9		Date:	11/24/2015	19:12:51	Dilution:	1
134·	Sample ID:	QJ30009-004MS	EPA Sample ID:	MBC2W9S		Date:	11/24/2015	19:14:44	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2944	25	1.0	126.0	0.00	0.02	0.20

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
135·	**Sample ID:**	**QJ30009-004DU**	**EPA Sample ID:**	**MBC2W9D**		**Date:**	**11/24/2015**	**19:16:35**	**Dilution:**	**1**
136·	**Sample ID:**	**QJ30009-005**	**EPA Sample ID:**	**MBC2X5**		**Date:**	**11/24/2015**	**19:18:28**	**Dilution:**	**1**
137·	**Sample ID:**	**QJ30009-006**	**EPA Sample ID:**	**MBC2X6**		**Date:**	**11/24/2015**	**19:20:20**	**Dilution:**	**1**
138·	**Sample ID:**	**QQ90340-001**	**EPA Sample ID:**	**PBW003**		**Date:**	**11/24/2015**	**19:22:11**	**Dilution:**	**1**
Hg	MB result is greater than High Det Lim			7.0069	25			0.00	0.02	0.20
139·	**Sample ID:**	**QK12004-001**	**EPA Sample ID:**	**MBC7F4**		**Date:**	**11/24/2015**	**19:24:03**	**Dilution:**	**1**
140·	**Sample ID:**	**CCV19**	**EPA Sample ID:**	**CCV019**		**Date:**	**11/24/2015**	**19:26:04**	**Dilution:**	**1**
141·	**Sample ID:**	**CCB19**	**EPA Sample ID:**	**CCB019**		**Date:**	**11/24/2015**	**19:27:54**	**Dilution:**	**1**
142·	**Sample ID:**	**QK12004-001**	**EPA Sample ID:**	**MBC7F4**		**Date:**	**11/24/2015**	**19:29:50**	**Dilution:**	**1**
143·	**Sample ID:**	**QK12004-002**	**EPA Sample ID:**	**MBC7F5**		**Date:**	**11/24/2015**	**19:31:42**	**Dilution:**	**1**
144·	**Sample ID:**	**QK12004-002MS**	**EPA Sample ID:**	**MBC7F5S**		**Date:**	**11/24/2015**	**19:33:33**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			1.3798	25	1.0	136.0	0.00	0.02	0.20
145·	**Sample ID:**	**QK12004-002DU**	**EPA Sample ID:**	**MBC7F5D**		**Date:**	**11/24/2015**	**19:35:25**	**Dilution:**	**1**
146·	**Sample ID:**	**QK12004-003**	**EPA Sample ID:**	**MBC7F6**		**Date:**	**11/24/2015**	**19:37:19**	**Dilution:**	**1**
147·	**Sample ID:**	**QK12004-004**	**EPA Sample ID:**	**MBC7F7**		**Date:**	**11/24/2015**	**19:39:10**	**Dilution:**	**1**
148·	**Sample ID:**	**QK12004-005**	**EPA Sample ID:**	**MBC7F8**		**Date:**	**11/24/2015**	**19:41:02**	**Dilution:**	**1**
149·	**Sample ID:**	**QK12004-006**	**EPA Sample ID:**	**MBC7F9**		**Date:**	**11/24/2015**	**19:42:53**	**Dilution:**	**1**
150·	**Sample ID:**	**QK12004-007**	**EPA Sample ID:**	**MBC7G0**		**Date:**	**11/24/2015**	**19:44:45**	**Dilution:**	**1**
151·	**Sample ID:**	**QK12004-008**	**EPA Sample ID:**	**MBC7G1**		**Date:**	**11/24/2015**	**19:46:38**	**Dilution:**	**1**
152·	**Sample ID:**	**CCV20**	**EPA Sample ID:**	**CCV020**		**Date:**	**11/24/2015**	**19:48:30**	**Dilution:**	**1**
153·	**Sample ID:**	**CCB20**	**EPA Sample ID:**	**CCB020**		**Date:**	**11/24/2015**	**19:50:21**	**Dilution:**	**1**
154·	**Sample ID:**	**QK12004-009**	**EPA Sample ID:**	**MBC7G2**		**Date:**	**11/24/2015**	**19:52:19**	**Dilution:**	**1**
155·	**Sample ID:**	**QK12004-010**	**EPA Sample ID:**	**MBC7G3**		**Date:**	**11/24/2015**	**19:54:12**	**Dilution:**	**1**
156·	**Sample ID:**	**QK12004-011**	**EPA Sample ID:**	**MBC7G4**		**Date:**	**11/24/2015**	**19:56:04**	**Dilution:**	**1**
157·	**Sample ID:**	**QK12004-012**	**EPA Sample ID:**	**MBC7G5**		**Date:**	**11/24/2015**	**19:57:57**	**Dilution:**	**1**
158·	**Sample ID:**	**QK12004-013**	**EPA Sample ID:**	**MBC7G6**		**Date:**	**11/24/2015**	**19:59:49**	**Dilution:**	**1**
159·	**Sample ID:**	**QK12004-014**	**EPA Sample ID:**	**MBC764**		**Date:**	**11/24/2015**	**20:01:40**	**Dilution:**	**1**
160·	**Sample ID:**	**QK03007-011**	**EPA Sample ID:**	**MJHBR3**		**Date:**	**11/24/2015**	**20:03:33**	**Dilution:**	**1**
161·	**Sample ID:**	**QK03007-012**	**EPA Sample ID:**	**MJHBW1**		**Date:**	**11/24/2015**	**20:05:25**	**Dilution:**	**1**
162·	**Sample ID:**	**QK04017-003**	**EPA Sample ID:**	**MX2173**		**Date:**	**11/24/2015**	**20:07:18**	**Dilution:**	**1**
163·	**Sample ID:**	**QK04017-003MS**	**EPA Sample ID:**	**MX2173S**		**Date:**	**11/24/2015**	**20:09:10**	**Dilution:**	**1**
164·	**Sample ID:**	**CCV21**	**EPA Sample ID:**	**CCV021**		**Date:**	**11/24/2015**	**20:11:08**	**Dilution:**	**1**
165·	**Sample ID:**	**CCB21**	**EPA Sample ID:**	**CCB021**		**Date:**	**11/24/2015**	**20:13:07**	**Dilution:**	**1**
166·	**Sample ID:**	**QK04017-003DU**	**EPA Sample ID:**	**MX2173D**		**Date:**	**11/24/2015**	**20:15:05**	**Dilution:**	**1**
Hg	RPD IS OUT OF CRITERIA			0.0237	25		198.0	0.00	0.02	0.20
167·	**Sample ID:**	**QK13012-001**	**EPA Sample ID:**	**MBC763**		**Date:**	**11/24/2015**	**20:16:57**	**Dilution:**	**1**
168·	**Sample ID:**	**QK13012-001MS**	**EPA Sample ID:**	**MBC763S**		**Date:**	**11/24/2015**	**20:18:49**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			0.3942	25	1.0	34.0	0.00	0.02	0.20
169·	**Sample ID:**	**QK13012-001DU**	**EPA Sample ID:**	**MBC763D**		**Date:**	**11/24/2015**	**20:20:42**	**Dilution:**	**1**
170·	**Sample ID:**	**QQ90341-001**	**EPA Sample ID:**	**QQ90341-001MB**		**Date:**	**11/24/2015**	**20:22:35**	**Dilution:**	**1**
171·	**Sample ID:**	**QK05011-001**	**EPA Sample ID:**	**MC0KF9**		**Date:**	**11/24/2015**	**20:24:27**	**Dilution:**	**1**
172·	**Sample ID:**	**QK05011-002**	**EPA Sample ID:**	**MC0KG0**		**Date:**	**11/24/2015**	**20:26:19**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
173·	Sample ID:	QK05011-003	EPA Sample ID:	MC0KG1		Date:	11/24/2015	20:28:12	Dilution:	1
174·	Sample ID:	QK05011-004	EPA Sample ID:	MC0KG2		Date:	11/24/2015	20:30:04	Dilution:	1
175·	Sample ID:	QK05011-005	EPA Sample ID:	MC0KG3		Date:	11/24/2015	20:31:56	Dilution:	1
176·	Sample ID:	CCV22	EPA Sample ID:	CCV022		Date:	11/24/2015	20:33:49	Dilution:	1
177·	Sample ID:	CCB22	EPA Sample ID:	CCB022		Date:	11/24/2015	20:35:39	Dilution:	1
178·	Sample ID:	QK05011-006	EPA Sample ID:	MC0KG4		Date:	11/24/2015	20:37:37	Dilution:	1
179·	Sample ID:	QK05011-007	EPA Sample ID:	MC0KJ9		Date:	11/24/2015	20:39:30	Dilution:	1
180·	Sample ID:	QK05011-008	EPA Sample ID:	MC0KK0		Date:	11/24/2015	20:41:21	Dilution:	1
181·	Sample ID:	QK05011-009	EPA Sample ID:	MC0KH4		Date:	11/24/2015	20:43:13	Dilution:	1
182·	Sample ID:	QK05011-010	EPA Sample ID:	MC0KK1		Date:	11/24/2015	20:45:06	Dilution:	1
183·	Sample ID:	QK05011-011	EPA Sample ID:	MC0KK2		Date:	11/24/2015	20:46:58	Dilution:	1
184·	Sample ID:	QK05011-012	EPA Sample ID:	MC0KK5		Date:	11/24/2015	20:48:50	Dilution:	1
185·	Sample ID:	QK05011-012MS	EPA Sample ID:	MC0KK5S		Date:	11/24/2015	20:50:42	Dilution:	1
186·	Sample ID:	QK05011-012DU	EPA Sample ID:	MC0KK5D		Date:	11/24/2015	20:52:34	Dilution:	1
187·	Sample ID:	QK05011-013	EPA Sample ID:	MC0KK6		Date:	11/24/2015	20:54:28	Dilution:	1
188·	Sample ID:	CCV23	EPA Sample ID:	CCV023		Date:	11/24/2015	20:56:20	Dilution:	1
189·	Sample ID:	CCB23	EPA Sample ID:	CCB023		Date:	11/24/2015	20:58:10	Dilution:	1
190·	Sample ID:	QK05011-013MS	EPA Sample ID:	MC0KK6S		Date:	11/24/2015	21:00:08	Dilution:	1
191·	Sample ID:	QK05011-013DU	EPA Sample ID:	MC0KK6D		Date:	11/24/2015	21:02:00	Dilution:	1
192·	Sample ID:	QK05011-014	EPA Sample ID:	MC0KN0		Date:	11/24/2015	21:03:54	Dilution:	1
193·	Sample ID:	QK05011-015	EPA Sample ID:	MC0KN7		Date:	11/24/2015	21:05:46	Dilution:	1
194·	Sample ID:	QK05011-016	EPA Sample ID:	MC0KN8		Date:	11/24/2015	21:07:38	Dilution:	1
195·	Sample ID:	QK05011-017	EPA Sample ID:	MC0KN9		Date:	11/24/2015	21:09:30	Dilution:	1
196·	Sample ID:	QK05011-018	EPA Sample ID:	MC0KP1		Date:	11/24/2015	21:11:23	Dilution:	1
197·	Sample ID:	QK05011-019	EPA Sample ID:	MC0KP2		Date:	11/24/2015	21:13:15	Dilution:	1
198·	Sample ID:	QK05011-020	EPA Sample ID:	MC0KP3		Date:	11/24/2015	21:15:07	Dilution:	1
199·	Sample ID:	QQ90340-001	EPA Sample ID:	PBW003		Date:	11/24/2015	21:17:00	Dilution:	1
200·	Sample ID:	CCV24	EPA Sample ID:	CCV024		Date:	11/24/2015	21:18:53	Dilution:	1
201·	Sample ID:	CCB24	EPA Sample ID:	CCB024		Date:	11/24/2015	21:20:43	Dilution:	1
202·	Sample ID:	QK04017-003	EPA Sample ID:	MX2173		Date:	11/24/2015	21:22:41	Dilution:	1
203·	Sample ID:	QK04017-003MS	EPA Sample ID:	MX2173S		Date:	11/24/2015	21:24:33	Dilution:	1
204·	Sample ID:	QK04017-003DU	EPA Sample ID:	MX2173D		Date:	11/24/2015	21:26:33	Dilution:	1
205·	Sample ID:	CCV25	EPA Sample ID:	CCV025		Date:	11/24/2015	21:28:34	Dilution:	1
206·	Sample ID:	CCB25	EPA Sample ID:	CCB025		Date:	11/24/2015	21:30:31	Dilution:	1

Analytical Review Report

Data File: *HG4120115ISMA*

Analyst: *COH*

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
207·	Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	12/1/2015	10:30:21	Dilution:	1
208·	Sample ID:	CAL 1 0-.2 S01	EPA Sample ID:	S01		Date:	12/1/2015	10:32:51	Dilution:	1
209·	Sample ID:	CAL 2 0-.5 S02	EPA Sample ID:	S02		Date:	12/1/2015	10:35:23	Dilution:	1
210·	Sample ID:	CAL 3 1-.0 S03	EPA Sample ID:	S03		Date:	12/1/2015	10:37:55	Dilution:	1
211·	Sample ID:	CAL 4 5-.0 S04	EPA Sample ID:	S04		Date:	12/1/2015	10:40:27	Dilution:	1
212·	Sample ID:	CAL 5 1-0.0 S05	EPA Sample ID:	S05		Date:	12/1/2015	10:42:58	Dilution:	1
213·	Sample ID:	ICV2	EPA Sample ID:	ICV002		Date:	12/1/2015	10:45:29	Dilution:	1
214·	Sample ID:	ICB2	EPA Sample ID:	ICB002		Date:	12/1/2015	10:48:00	Dilution:	1
215·	Sample ID:	CCV011	EPA Sample ID:	CCV011		Date:	12/1/2015	10:50:30	Dilution:	1
216·	Sample ID:	CCB011	EPA Sample ID:	CCB011		Date:	12/1/2015	10:53:00	Dilution:	1
217·	Sample ID:	QQ90781-001	EPA Sample ID:	PBS		Date:	12/1/2015	10:55:31	Dilution:	1
218·	Sample ID:	QK09001-001	EPA Sample ID:	ME6BD1		Date:	12/1/2015	10:58:02	Dilution:	1
219·	Sample ID:	QK09001-001MS	EPA Sample ID:	ME6BD1S		Date:	12/1/2015	11:00:33	Dilution:	1
220·	Sample ID:	QK09001-001DU	EPA Sample ID:	ME6BD1D		Date:	12/1/2015	11:03:04	Dilution:	1
221·	Sample ID:	QK09001-002	EPA Sample ID:	ME6BD2		Date:	12/1/2015	11:05:34	Dilution:	1
222·	Sample ID:	QK09001-003	EPA Sample ID:	ME6BD3		Date:	12/1/2015	11:08:05	Dilution:	1
223·	Sample ID:	QK09001-004	EPA Sample ID:	ME6BD4		Date:	12/1/2015	11:10:36	Dilution:	1
224·	Sample ID:	QK09001-005	EPA Sample ID:	ME6BD5		Date:	12/1/2015	11:13:07	Dilution:	1
225·	Sample ID:	QK09001-006	EPA Sample ID:	ME6BD6		Date:	12/1/2015	11:15:38	Dilution:	1
226·	Sample ID:	QK09001-007	EPA Sample ID:	ME6BD7		Date:	12/1/2015	11:18:10	Dilution:	1
227·	Sample ID:	CCV012	EPA Sample ID:	CCV012		Date:	12/1/2015	11:20:42	Dilution:	1
228·	Sample ID:	CCB012	EPA Sample ID:	CCB012		Date:	12/1/2015	11:23:12	Dilution:	1
229·	Sample ID:	QK09001-008	EPA Sample ID:	ME6BD8		Date:	12/1/2015	11:25:43	Dilution:	1
230·	Sample ID:	QK09001-009	EPA Sample ID:	ME6BD9		Date:	12/1/2015	11:28:15	Dilution:	1
231·	Sample ID:	QK09001-010	EPA Sample ID:	ME6BE0		Date:	12/1/2015	11:30:47	Dilution:	1
232·	Sample ID:	QK09001-011	EPA Sample ID:	ME6BE1		Date:	12/1/2015	11:33:18	Dilution:	1
233·	Sample ID:	QK09001-012	EPA Sample ID:	ME6BE2		Date:	12/1/2015	11:35:49	Dilution:	1
234·	Sample ID:	QK09001-013	EPA Sample ID:	ME6BE3		Date:	12/1/2015	11:38:19	Dilution:	1
235·	Sample ID:	QK09001-014	EPA Sample ID:	ME6BE4		Date:	12/1/2015	11:40:50	Dilution:	1
236·	Sample ID:	QK09001-015	EPA Sample ID:	ME6BE5		Date:	12/1/2015	11:43:21	Dilution:	1
237·	Sample ID:	QK09001-016	EPA Sample ID:	ME6BE6		Date:	12/1/2015	11:45:52	Dilution:	1
238·	Sample ID:	QK09001-017	EPA Sample ID:	ME6BE8		Date:	12/1/2015	11:48:23	Dilution:	1
239·	Sample ID:	CCV013	EPA Sample ID:	CCV013		Date:	12/1/2015	11:50:59	Dilution:	1
240·	Sample ID:	CCB013	EPA Sample ID:	CCB013		Date:	12/1/2015	11:53:29	Dilution:	1
241·	Sample ID:	QK09001-018	EPA Sample ID:	ME6BE9		Date:	12/1/2015	11:56:02	Dilution:	1
242·	Sample ID:	QK09001-019	EPA Sample ID:	ME6BF0		Date:	12/1/2015	11:58:34	Dilution:	1
243·	Sample ID:	QK09001-020	EPA Sample ID:	ME6BF1		Date:	12/1/2015	12:01:08	Dilution:	1
244·	Sample ID:	QK09001-016	EPA Sample ID:	ME6BE6		Date:	12/1/2015	12:03:40	Dilution:	5
245·	Sample ID:	QQ90839-001	EPA Sample ID:	PBS002		Date:	12/1/2015	12:06:12	Dilution:	1
246·	Sample ID:	QK13011-012	EPA Sample ID:	MBC786		Date:	12/1/2015	12:08:44	Dilution:	10
247·	Sample ID:	QK13011-017	EPA Sample ID:	MBC790		Date:	12/1/2015	12:11:15	Dilution:	5

Analytical Review Report

Data File: ***HG4120115ISMA***

Analyst: ***COH***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
248·	**Sample ID:**	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**12/1/2015**	**12:13:46**	**Dilution:**	**20**
249·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**12/1/2015**	**12:16:18**	**Dilution:**	**20**
250·	**Sample ID:**	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**12/1/2015**	**12:18:49**	**Dilution:**	**20**
251·	**Sample ID:**	**CCV014**	**EPA Sample ID:**	**CCV014**		**Date:**	**12/1/2015**	**12:21:22**	**Dilution:**	**1**
252·	**Sample ID:**	**CCB01**	**EPA Sample ID:**	**CCB014**		**Date:**	**12/1/2015**	**12:23:52**	**Dilution:**	**1**
253·	**Sample ID:**	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**12/1/2015**	**12:26:26**	**Dilution:**	**1**
Hg	RPD IS OUT OF CRITERIA			7.6288	25		188.0	0.00	0.00	0.10
254·	**Sample ID:**	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**12/1/2015**	**12:28:57**	**Dilution:**	**10**
255·	**Sample ID:**	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**12/1/2015**	**12:31:31**	**Dilution:**	**10**
256·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**12/1/2015**	**12:34:03**	**Dilution:**	**50**
257·	**Sample ID:**	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**12/1/2015**	**12:36:36**	**Dilution:**	**50**
258·	**Sample ID:**	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**12/1/2015**	**12:39:08**	**Dilution:**	**50**
Hg	RPD IS OUT OF CRITERIA			3.2427	25		46.0	0.00	0.00	0.10
259·	**Sample ID:**	**CCV015**	**EPA Sample ID:**	**CCV015**		**Date:**	**12/1/2015**	**12:41:41**	**Dilution:**	**1**
260·	**Sample ID:**	**CCB015**	**EPA Sample ID:**	**CCB015**		**Date:**	**12/1/2015**	**12:44:11**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 12/02/15 1803

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90340-001	MB	PBW	1	ISM02.2 HG	40		0.0	50			
QK12004-001	Sample	MBC7F4	1	ISM02.2 HG	40		0.0	50	12/06/2015 1400	11/15/2015	
QK12004-002	Sample	MBC7F5	1	ISM02.2 HG	40		0.0	50	12/06/2015 1111	11/15/2015	
QK12004-002MS	MS	MBC7F5S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK12004-002DU	Duplicate	MBC7F5D	1	ISM02.2 HG	40		0.0	50			
QK12004-003	Sample	MBC7F6	1	ISM02.2 HG	40		0.0	50	12/06/2015 1130	11/15/2015	
QK12004-004	Sample	MBC7F7	1	ISM02.2 HG	40		0.0	50	12/06/2015 1145	11/15/2015	
QK12004-005	Sample	MBC7F8	1	ISM02.2 HG	40		0.0	50	12/06/2015 1200	11/15/2015	
QK12004-006	Sample	MBC7F9	1	ISM02.2 HG	40		0.0	50	12/06/2015 1212	11/15/2015	
QK12004-007	Sample	MBC7G0	1	ISM02.2 HG	40		0.0	50	12/06/2015 1237	11/15/2015	
QK12004-008	Sample	MBC7G1	1	ISM02.2 HG	40		0.0	50	12/06/2015 1415	11/15/2015	
QK12004-009	Sample	MBC7G2	1	ISM02.2 HG	40		0.0	50	12/06/2015 1425	11/15/2015	
QK12004-010	Sample	MBC7G3	1	ISM02.2 HG	40		0.0	50	12/09/2015 0835	11/15/2015	
QK12004-011	Sample	MBC7G4	1	ISM02.2 HG	40		0.0	50	12/09/2015 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 HG	40		0.0	50	12/09/2015 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 HG	40		0.0	50	12/09/2015 0920	11/15/2015	
QK12004-014	Sample	MBC764	1	ISM02.2 HG	40		0.0	50	12/12/2015 1215	11/15/2015	
QK03007-011	Sample	MJHBR3	1	ISM02.2 HG	40		0.0	50	11/22/2015 1700	11/16/2015	
QK03007-012	Sample	MJHBW1	1	ISM02.2 HG	40		0.0	50	11/24/2015 1500	11/16/2015	
QK04017-003	Sample	MX2173	1	ISM02.2 HG	40		0.0	50	11/29/2015 1200	11/17/2015	
QK04017-003MS	MS	MX2173S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK04017-003DU	Duplicate	MX2173D	1	ISM02.2 HG	40		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 HG	40		0.0	50	12/08/2015 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 12/02/15 1803

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 HG	40		0.0	50			
QQ90340-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	40		0.0	50			S0
QQ90340-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	40	15HG1514(11	0.0	50			S05
QQ90340-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			S04
QQ90340-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	40	15HG1516(11	0.0	50			S03
QQ90340-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	40	15HG1517(11	0.0	50			S02
QQ90340-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	40	15HG1518(11	0.0	50			S01
QQ90340-101	MB		1	ISM02.2 HG	40		0.0	50			ICB
QQ90340-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	40	15HG1519(11	0.0	50			ICV
QQ90340-201	MB		1	ISM02.2 HG	40		0.0	50			CCB
QQ90340-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			CCV

(end of report) **Total Samples: 18** **All samples have a pH < 2**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1804

Prep Batch: 90139

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630759
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90139-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13012-002	Sample	MBC794	1	ISM02.2 HG	0.5100		0.0	50	12/08/2015 1110	11/17/2015	
QK13012-003	Sample	MBC795	1	ISM02.2 HG	0.5760		0.0	50	12/08/2015 1055	11/17/2015	
QK13012-004	Sample	MBC796	1	ISM02.2 HG	0.5990		0.0	50	12/08/2015 1130	11/17/2015	
QK13012-005	Sample	MBC797	1	ISM02.2 HG	0.5090		0.0	50	12/08/2015 1150	11/17/2015	
QK13012-006	Sample	MBC798	1	ISM02.2 HG	0.5740		0.0	50	12/08/2015 1140	11/17/2015	
QK13012-006MS	MS	MBC798S	1	ISM02.2 HG	0.5160	15HG1512(11	3.0	50			pipette:247
QK13012-006DU	Duplicate	MBC798D	1	ISM02.2 HG	0.5100		0.0	50			
QK13012-007	Sample	MBC799	1	ISM02.2 HG	0.5310		0.0	50	12/08/2015 1210	11/17/2015	
QK13012-008	Sample	MBC7A0	1	ISM02.2 HG	0.5970		0.0	50	12/08/2015 1230	11/17/2015	
QK13012-009	Sample	MBC7A1	1	ISM02.2 HG	0.5220		0.0	50	12/08/2015 1220	11/17/2015	
QK13012-010	Sample	MBC7A2	1	ISM02.2 HG	0.5820		0.0	50	12/08/2015 1415	11/17/2015	
QK13012-011	Sample	MBC7A3	1	ISM02.2 HG	0.5990		0.0	50	12/08/2015 1435	11/17/2015	
QK13012-012	Sample	MBC7A4	1	ISM02.2 HG	0.5940		0.0	50	12/08/2015 1425	11/17/2015	
QK13012-013	Sample	MBC7H9	1	ISM02.2 HG	0.5290		0.0	50	12/08/2015 1105	11/17/2015	
QK13012-014	Sample	MBC7A5	1	ISM02.2 HG	0.5210		0.0	50	12/08/2015 1500	11/17/2015	
QK13012-015	Sample	MBC7A6	1	ISM02.2 HG	0.5010		0.0	50	12/08/2015 1520	11/17/2015	
QK13012-016	Sample	MBC7A7	1	ISM02.2 HG	0.5460		0.0	50	12/08/2015 1510	11/17/2015	
QK13012-017	Sample	MBC7A8	1	ISM02.2 HG	0.5080		0.0	50	12/08/2015 1600	11/17/2015	
QK13012-018	Sample	MBC7A9	1	ISM02.2 HG	0.5210		0.0	50	12/08/2015 1620	11/17/2015	
QK13012-019	Sample	MBC7B0	1	ISM02.2 HG	0.5770		0.0	50	12/08/2015 1610	11/17/2015	
QK13012-020	Sample	MBC7D0	1	ISM02.2 HG	0.5670		0.0	50	12/08/2015 1550	11/17/2015	
QQ90139-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90139-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	10.0	50			S05

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1804

Prep Batch: 90139

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630759
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90139-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			S04
QQ90139-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	1.0	50			S03
QQ90139-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.5	50			S02
QQ90139-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.2	50			S01
QQ90139-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90139-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	4.0	50			ICV
QQ90139-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90139-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			CCV

(end of report) **Total Samples: 19**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1637

Prep Batch: 90839

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/30/2015 1559
End Date: 11/30/2015 1629
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630754
Chem ID: IM6462-01(12/2/15) IM6215-01(1 **Balance ID:** Balance #9B5)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90839-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13011-012	Sample	MBC786	2	ISM02.2 HG	0.5650		0.0	50	12/07/2015 1630	11/17/2015	
QK13011-017	Sample	MBC790	2	ISM02.2 HG	0.5240		0.0	50	12/08/2015 1000	11/17/2015	
QK13012-004	Sample	MBC796	2	ISM02.2 HG	0.5680		0.0	50	12/08/2015 1130	11/17/2015	
QK13012-006	Sample	MBC798	2	ISM02.2 HG	0.5900		0.0	50	12/08/2015 1140	11/17/2015	
QK13012-006MS	MS	MBC798S	2	ISM02.2 HG	0.5570	15HG1544(12	3.0	50			
QK13012-006DU	Duplicate	MBC798D	2	ISM02.2 HG	0.5990		0.0	50			
QK13012-008	Sample	MBC7A0	2	ISM02.2 HG	0.5710		0.0	50	12/08/2015 1230	11/17/2015	
QK13012-009	Sample	MBC7A1	2	ISM02.2 HG	0.5370		0.0	50	12/08/2015 1220	11/17/2015	
QQ90839-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90839-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	10.0	50			S05
QQ90839-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	5.0	50			S04
QQ90839-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	1.0	50			S03
QQ90839-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	0.5	50			S02
QQ90839-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	0.2	50			S01
QQ90839-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90839-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90839-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90839-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	5.0	50			CCV

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1637

Prep Batch: 90839

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/30/2015 1559
End Date: 11/30/2015 1629
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630754
Chem ID: IM6462-01(12/2/15) IM6215-01(1 **Balance ID:** Balance #9B5)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report) **Total Samples: 6**

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ89624-001		MB	1	4.41	4.41	0.0000	4.41	0	0	0	0	0.000		
QK13011-001		Sample	1	4.47	12.9274	8.4574	10.377	0	0	0	69.8441	69.8		
QK13011-002		Sample	1	4.36	14.2251	9.8651	11.5421	0	0	0	72.8031	72.8		
QK13011-003		Sample	1	4.36	11.6914	7.3314	8.9735	0	0	0	62.9279	62.9		
QK13011-004		Sample	1	4.43	13.7712	9.3412	8.9079	0	0	0	47.937	47.9		
QK13011-005		Sample	1	4.42	13.1611	8.7411	9.1915	0	0	0	54.5869	54.6		
QK13011-005DU		Duplicate	1	4.4	13.2908	8.8908	9.3101	0	0	0	55.2267	55.2	1.17	
QK13011-006		Sample	1	4.45	13.9242	9.4742	9.4727	0	0	0	53.0145	53.0		
QK13011-007		Sample	1	4.39	13.162	8.7720	8.439	0	0	0	46.1582	46.2		
QK13011-008		Sample	1	4.42	13.7538	9.3338	8.8521	0	0	0	47.4844	47.5		
QK13011-009		Sample	1	4.37	12.7949	8.4249	8.6014	0	0	0	50.2249	50.2		
QK13011-010		Sample	1	4.35	9.9124	5.5624	6.1752	0	0	0	32.8131	32.8		
QK13011-011		Sample	1	4.41	14.0947	9.6847	10.4895	0	0	0	62.7742	62.8		
QK13011-012		Sample	1	4.5	13.455	8.9550	9.6801	0	0	0	57.8458	57.8		
QK13011-013		Sample	1	4.45	12.2852	7.8352	8.3801	0	0	0	50.1595	50.2		
QK13011-014		Sample	1	4.37	12.7764	8.4064	10.5087	0	0	0	73.0241	73.0		
QK13011-015		Sample	1	4.38	12.4001	8.0201	9.0833	0	0	0	58.6439	58.6		
QK13011-015DU		Duplicate	1	4.45	14.343	9.8930	9.995	0	0	0	56.0497	56.0	4.52	
QK13011-016		Sample	1	4.39	13.7319	9.3419	9.0053	0	0	0	49.4042	49.4		
QK13011-017		Sample	1	4.37	11.5344	7.1644	9.7396	0	0	0	74.9483	74.9		
QK13011-018		Sample	1	4.41	13.3416	8.9316	11.5371	0	0	0	79.7964	79.8		
QK13011-019		Sample	1	4.48	13.4482	8.9682	10.9916	0	0	0	72.6076	72.6		
QK13011-020		Sample	1	4.47	13.3241	8.8541	9.5476	0	0	0	57.3474	57.3		
QK13012-002		Sample	1	4.51	13.5961	9.0861	10.7308	0	0	0	68.465	68.5		
QK13012-003		Sample	1	4.45	14.1965	9.7465	12.3969	0	0	0	81.5359	81.5		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13012-004		Sample	1	4.38	12.8388	8.4588	7.0849	0	0	0	31.9773	32.0		
QK13012-005		Sample	1	4.38	12.5807	8.2007	7.4697	0	0	0	37.676	37.7		
QK13012-006		Sample	1	4.48	12.4041	7.9241	7.6359	0	0	0	39.8266	39.8		
QK13012-006DU		Duplicate	1	4.45	9.6736	5.2236	6.4305	0	0	0	37.9144	37.9	4.92	
QK13012-007		Sample	1	4.39	12.9756	8.5856	7.2865	0	0	0	33.7367	33.7		
QK13012-008		Sample	1	4.38	12.0519	7.6719	7.1801	0	0	0	36.4981	36.5		
QK13012-009		Sample	1	4.44	12.633	8.1930	7.3536	0	0	0	35.562	35.6		
QK13012-010		Sample	1	4.46	13.5295	9.0695	6.5409	0	0	0	22.9439	22.9		
QK13012-011		Sample	1	4.47	13.7815	9.3115	8.5939	0	0	0	44.2882	44.3		
QK13012-012		Sample	1	4.36	13.5034	9.1434	7.3087	0	0	0	32.2494	32.2		
QK13012-013		Sample	1	4.39	12.6632	8.2732	10.9274	0	0	0	79.019	79.0		
QK13012-014		Sample	1	4.41	12.4145	8.0045	10.5471	0	0	0	76.6706	76.7		
QK13012-015		Sample	1	4.41	13.836	9.4260	12.5387	0	0	0	86.237	86.2		
QK13012-016		Sample	1	4.51	13.6369	9.1269	12.7118	0	0	0	89.864	89.9		
QK13012-016DU		Duplicate	1	4.46	14.4338	9.9738	13.3288	0	0	0	88.9209	88.9	1.05	
QK13012-017		Sample	1	4.45	14.0513	9.6013	10.9019	0	0	0	67.1981	67.2		
QK13012-018		Sample	1	4.41	12.0864	7.6764	9.0795	0	0	0	60.8292	60.8		
QK13012-019		Sample	1	4.49	11.7812	7.2912	9.0702	0	0	0	62.8181	62.8		
QK13012-020		Sample	1	4.4	11.5285	7.1285	9.9291	0	0	0	77.5633	77.6		
QK13013-001		Sample	1	4.46	11.121	6.6610	9.8436	0	0	0	80.8226	80.8		
QK13013-002		Sample	1	4.4	14.2943	9.8943	12.8962	0	0	0	85.8696	85.9		
QK13040-024		Sample	1	4.39	14.2779	9.8879	12.1781	0	0	0	78.7639	78.8		
QK13040-024DU		Duplicate	1	4.49	11.8548	7.3648	10.3095	0	0	0	79.0177	79.0	0.32	
QK13063-001		Sample	1	4.46	13.4403	8.9803	9.053	0	0	0	51.1452	51.1		

Total Items: 49 (23 samples)

(end of report)

ORIGIN ID:SWFA (303) 729-6121
WESTON SOLUTIONS, INC GOVT

1435 GARRISON ST STE 100

LAKEWOOD, CO 802154748
UNITED STATES US

SHIP DATE: 11NOV15
ACTWGT: 57.00 LB MAN
CAD: /POS1621
DIMS: 24x15x10 IN

BILL SENDER

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172
(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx Express

2 of 2
MPS# 0681 7816 9795 6904
Mstr# 8088 5684 5233 0200

X1 USCA

THU - 12 NOV 8:00A
FIRST OVERNIGHT
DSR
29172
SC-US CAE

11/13/15

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF 45710

Signature

11/16/15
Date

ORIGIN ID:SWFA

SHIP DATE: 12NOV15
ACTWGT: 29.00 LB
CAD: /POS1621
DIMS: 17x16x11 IN

BILL THIRD PARTY

UNITED STATES US

TO BRAD BELDING
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172
(803) 791-9700
INV:
PO: DEPT:

FedEx Express

2 of 2
MPS# 0681 7817 0584 8467
Mstr# 8044 6775 2093

0200

FRI - 13 NOV 3:00P
STANDARD OVERNIGHT
DSR
29172
SC-US CAE

XH USCA

11/13/15

Part # 156297-439 RA1290/16 ea c1/1

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF 45717 MB2775

Signature

Date 11/13/15

ORIGIN ID:SWFA

SHIP DATE: 12NOV15
ACTWGT: 45.50 LB
CAD: /POS1621
DIMS: 22x14x14 IN

BILL THIRD PARTY

UNITED STATES US

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172

(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx Express

1 of 2

TRK# 0200 8044 6775 2093

MASTER

XH USCA

FRI - 13 NOV 3:00P
STANDARD OVERNIGHT
DSR
29172
SC-US **CAE**

11/13/15

Obtain recip. Sign. No.

COPY
ORIGINAL DOCUMENTS INCLUDED IN C37 45707 MH2775

Signature

Date 11/16/15

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC775/MBC763	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	7817058 24167
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	6.6
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC763	1.0	NA	QK13012 -001	OK
2	MBC790			QK13011 -017	
3	MBC791			-018	
4	MBC792			-019	
5	MBC793			-020	
6	MBC794			QK13012 -002	
7	MBC795			-003	
8	MBC796			-004	
9	MBC797			-005	
10	MBC798		mcm 11/13/15	-006	
11	MBC799			-007	
12	MBC7A0			-008	
13	MBC7A1			-009	
14	MBC7A2			-010	
15	MBC7A3			-011	
16	MBC7A4			-012	
17	MBC7A9			-013	not listed on COC
18					
19					
20			mcm 11/13/15		
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.	45717
Date	Logbook Page No.	MBC775

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature
11/16/15

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Meriela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC763, MBC769	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8044677522093
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	3.7
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7A5			QK13012-014	OK
2	MBC7A6			-015	
3	MBC7A7			-016	
4	MBC7A8			-017	
5	MBC7A9			-018	
6	MBC7B0		MCM 11/13/15	-019	
7	MBC769 ~~MBC789~~		QK13013-001	~~QK13012-020~~ MCM 11/13/15	
8	MBC00			QK13012-020	
9	MBC01			QK13013-002	
10					
11					
12					
13					
14					
15			MCM 11/13/15		
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	RB	Logbook No.	MM
Date	11/16/15	Logbook Page No.	

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13012-017	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-016	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-014	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-012	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-009	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-018	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-006	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-005	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-003	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-010	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-019	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-007	% Solid Snaps	11/13/2015 20:45	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-006	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-004	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-002	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-020	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-016	% Solid Snaps	11/13/2015 20:45	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-015	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-013	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-011	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-008	% Solid Snaps	11/13/2015 20:49	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13012-006	% Solid Snaps	11/16/2015 15:07		Hazardous Solid	True	DMA
QK13012-012	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-016	% Solid Snaps	11/16/2015 15:10		Hazardous Solid	True	DMA
QK13012-008	% Solid Snaps	11/16/2015 15:13		Hazardous Solid	True	DMA
QK13012-017	% Solid Snaps	11/16/2015 15:17		Hazardous Solid	True	DMA
QK13012-015	% Solid Snaps	11/16/2015 15:07		Hazardous Solid	True	DMA
QK13012-003	% Solid Snaps	11/16/2015 15:08		Hazardous Solid	True	DMA
QK13012-011	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-016	% Solid Snaps	11/16/2015 15:10		Hazardous Solid	True	DMA
QK13012-020	% Solid Snaps	11/16/2015 15:13		Hazardous Solid	True	DMA
QK13012-019	% Solid Snaps	11/16/2015 15:18		Hazardous Solid	True	DMA
QK13012-013	% Solid Snaps	11/16/2015 15:07		Hazardous Solid	True	DMA
QK13012-010	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-002	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-014	% Solid Snaps	11/16/2015 15:11		Hazardous Solid	True	DMA
QK13012-018	% Solid Snaps	11/16/2015 15:15		Hazardous Solid	True	DMA
QK13012-007	% Solid Snaps	11/16/2015 15:07		Hazardous Solid	True	DMA
QK13012-004	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-009	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13012-006	% Solid Snaps	11/16/2015 15:11		Hazardous Solid	True	DMA
QK13012-005	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13012-019	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13012-018	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-016	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-006	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-011	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-020	9 oz G	11/17/2015 15:48	IM Prep	SR (WI # 1)	True	COH
QK13012-005	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-006	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-009	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-019	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-008	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13012-010	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13012-003	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-006	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-015	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-013	9 oz G	11/17/2015 15:48	IM Prep	SR (WI # 1)	True	COH
QK13012-015	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-018	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-012	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-010	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-002	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13012-012	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-017	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-005	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-004	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-011	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-014	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-003	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-016	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-007	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-007	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13012-009	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-014	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-020	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-013	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13012-004	9 oz G	11/17/2015 15:48	IM Prep	SR (WI # 1)	True	COH
QK13012-017	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-006	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-002	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-008	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13012-001	Client provided P-HNO3	11/19/2015 09:57	SR (WI # 1)	IM Prep	True	COH
QK13012-001	Client provided P-HNO3	11/19/2015 12:07	IM Prep	SR (WI # 1)	True	COH
QK13012-008	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-006	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-010	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-011	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-002	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-018	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-013	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-016	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-020	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-004	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-009	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13012-010	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13012-011	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-006	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-014	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-012	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-008	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13012-004	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-016	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-005	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-017	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-020	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13012-002	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-015	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-003	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-018	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13012-013	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-009	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13012-007	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-019	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13012-005	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-003	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-007	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-014	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-012	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-017	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-015	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13012-019	9 oz G	11/20/2015 16:04	IM Prep	SR (WI # 1)	True	KDB
QK13012-001	Client provided P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK13012-001	Client provided P-HNO3	11/23/2015 14:04	IM Prep	SR (WI # 1)	True	COH

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

REFERENCE 63

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC765

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC765	QJ31005-001	X		X	
MBC766	QJ31005-002	X		X	
MBC767	QJ31005-003	X		X	
MBC768	QJ31005-004	X		X	
MBC769	QJ31005-005	X		X	
MBC770	QJ31005-006	X		X	
MBC771	QJ31005-007	X		X	
MBC774	QJ31005-008	X		X	
MBC7D5	QJ31005-009	X		X	
MBC7D6	QJ31005-010	X		X	
MBC7D7	QJ31005-011	X		X	
MBC7D8	QJ31005-012	X		X	
MBC7D9	QJ31005-013	X		X	
MBC7E0	QJ31005-014	X		X	
MBC7E1	QJ31005-015	X		X	
MBC7E2	QJ31005-016	X		X	
MBC7E3	QJ31005-017	X		X	
MBC7E4	QJ31005-018	X		X	
MBC7E5	QJ31005-019	X		X	
MBC7E6	QJ31005-020	X		X	

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

Signature: Robert Name: Robert Zhu

Date: 11/10/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC765	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC765	Last Sample Received in SDG	MBC7E6
First Sample Receipt Date	10/31/2015	Last Sample Receipt Date	10/31/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID		Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC765	Soil	ICP AES, Hg	N/A	N/A
2	MBC766	Soil	ICP AES, Hg	N/A	N/A
3	MBC767	Soil	ICP AES, Hg	N/A	N/A
4	MBC768	Soil	ICP AES, Hg	N/A	N/A
5	MBC769	Soil	ICP AES, Hg	N/A	N/A
6	MBC770	Soil	ICP AES, Hg	N/A	N/A
7	MBC771	Soil	ICP AES, Hg	N/A	N/A
8	MBC774	Soil	ICP AES, Hg	N/A	N/A
9	MBC7D5	Soil	ICP AES, Hg	N/A	N/A
10	MBC7D6	Soil	ICP AES, Hg	N/A	N/A
11	MBC7D7	Soil	ICP AES, Hg	N/A	N/A
12	MBC7D8	Soil	ICP AES, Hg	N/A	N/A
13	MBC7D9	Soil	ICP AES, Hg	N/A	N/A
14	MBC7E0	Soil	ICP AES, Hg	N/A	N/A
15	MBC7E1	Soil	ICP AES, Hg	N/A	N/A
16	MBC7E2	Soil	ICP AES, Hg	N/A	N/A
17	MBC7E3	Soil	ICP AES, Hg	N/A	N/A
18	MBC7E4	Soil	ICP AES, Hg	N/A	N/A
19	MBC7E5	Soil	ICP AES, Hg	N/A	N/A
20	MBC7E6	Soil	ICP AES, Hg	N/A	N/A

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature Lindam Fatus Date 11-03-15

MBC761 / MBC765

USEPA CLP COC (LAB COPY)

Date Shipped: 10/30/2015
Carrier Name: FedEx
Airbill No: 8750 6337 1337

CHAIN OF CUSTODY RECORD

Case #: 45717
Cooler # 1 of 1

No: 2-103015-103522-0004

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

EPW14035

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-RIN01	MBC761	DI Water/ Region 2 SAT	Grab	TAL(7)	1401 (HNO3 to pH<2) (1)	N/A	10/29/2015 12:40	
0269-S01	MBC765	Soil/ Region 2 SAT	Grab	TAL(7)	1003 (4 C) (2)	0269-S01	10/29/2015 09:45	
0269-S02	MBC766	Soil/ Region 2 SAT	Grab	TAL(7)	1015 (4 C) (1)	0269-S02	10/29/2015 10:40	
0269-S03	MBC767	Soil/ Region 2 SAT	Grab	TAL(7)	1027 (4 C) (1)	0269-S03	10/29/2015 11:35	
0269-S04	MBC768	Soil/ Region 2 SAT	Grab	TAL(7)	1039 (4 C) (1)	0269-S04	10/29/2015 12:35	
0269-S05	MBC769	Soil/ Region 2 SAT	Grab	TAL(7)	1051 (4 C) (1)	0269-S05	10/29/2015 13:35	
0269-S06	MBC770	Soil/ Region 2 SAT	Grab	TAL(7)	1063 (4 C) (1)	0269-S06	10/30/2015 08:50	
0269-S07	MBC771	Soil/ Region 2 SAT	Grab	TAL(7)	1075 (4 C) (1)	0269-S07	10/29/2015 15:30	
0269-S10	MBC774	Soil/ Region 2 SAT	Grab	TAL(7)	1111 (4 C) (1)	0269-S10	10/30/2015 10:10	
0269-SS01A	MBC7D5	Soil/ Region 2 SAT	Grab	TAL(7)	1007 (4 C) (1)	0269-S01	10/29/2015 09:40	

Sample(s) to be used for Lab QC: 0269-S01 Tag 1003 - Special Instructions: MS/MSDs: BC765 and BC7E7

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	WESTON	10/30/15 1500	FedEx	10/30/15 1500	
			Tracy Dowling	10/31/15 0830	OK

T=2.3°C

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature

Date

MBC765
~~MBC76T~~ 10/31/15

USEPA CLP COC (LAB COPY)

Date Shipped: 10/30/2015
Carrier Name: FedEx
Airbill No: 8750 6337 1337

CHAIN OF CUSTODY RECORD

Case #: 45717
Cooler # 1 of 1

No: 2-103015-103522-0004

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

EPW14035

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SS01B	MBC7D6	Soil/ Region 2 SAT	Grab	TAL(7)	1011 (4 C) (1)	0269-S01	10/29/2015 09:35	
0269-SS02A	MBC7D7	Soil/ Region 2 SAT	Grab	TAL(7)	1019 (4 C) (1)	0269-S02	10/29/2015 10:50	
0269-SS02B	MBC7D8	Soil/ Region 2 SAT	Grab	TAL(7)	1023 (4 C) (1)	0269-S02	10/29/2015 10:55	
0269-SS03A	MBC7D9	Soil/ Region 2 SAT	Grab	TAL(7)	1031 (4 C) (1)	0269-S03	10/29/2015 11:30	
0269-SS03B	MBC7E0	Soil/ Region 2 SAT	Grab	TAL(7)	1035 (4 C) (1)	0269-S03	10/29/2015 11:25	
0269-SS04A	MBC7E1	Soil/ Region 2 SAT	Grab	TAL(7)	1043 (4 C) (1)	0269-S04	10/29/2015 12:30	
0269-SS04B	MBC7E2	Soil/ Region 2 SAT	Grab	TAL(7)	1047 (4 C) (1)	0269-S04	10/29/2015 12:25	
0269-SS05A	MBC7E3	Soil/ Region 2 SAT	Grab	TAL(7)	1055 (4 C) (1)	0269-S05	10/29/2015 13:40	
0269-SS05B	MBC7E4	Soil/ Region 2 SAT	Grab	TAL(7)	1059 (4 C) (1)	0269-S05	10/29/2015 13:45	
0269-SS06A	MBC7E5	Soil/ Region 2 SAT	Grab	TAL(7)	1067 (4 C) (1)	0269-S06	10/30/2015 08:55	

Special Instructions: MS/MSDs: BC765 and BC7E7	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	WESTON	10/30/15 1500	FedEx	10/30/15 1500	
			Tracy Goulding	10/31/15 0830	OK

T = 2.3°C

MBC765, MBC7E7

USEPA CLP COC (LAB COPY)

Date Shipped: 10/30/2015
Carrier Name: FedEx
Airbill No: 8750 6337 1337

CHAIN OF CUSTODY RECORD

Case #: 45717
Cooler # 1 of 1

EPW14035

No: 2-103015-103522-0004

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SS06B	MBC7E6	Soil/ Region 2 SAT	Grab	TAL(7)	1071 (4 C) (1)	0269-S06	10/30/2015 09:00	
0269-SS07A	MBC7E7	Soil/ Region 2 SAT	Grab	TAL(7)	1079 (4 C) (2)	0269-S07	10/29/2015 15:40	
0269-SS07B	MBC7E8	Soil/ Region 2 SAT	Grab	TAL(7)	1083 (4 C) (1)	0269-S07	10/29/2015 15:45	
0269-SS08B	MBC7F0	Soil/ Region 2 SAT	Grab	TAL(7)	1095 (4 C) (1)	0269-S08	10/29/2015 15:00	
0269-SS09B	MBC7F2	Soil/ Region 2 SAT	Grab	TAL(7)	1107 (4 C) (1)	0269-S09	10/29/2015 14:25	
0269-SS10A	MBC7F3	Soil/ Region 2 SAT	Grab	TAL(7)	1115 (4 C) (1)	0269-S10	10/30/2015 10:20	
0269-S11	MBC7H1	Soil/ Region 2 SAT	Grab	TAL(7)	1426 (4 C) (1)	0269-S10	10/30/2015 10:15	
0269-SS10B	MBC7H2	Soil/ Region 2 SAT	Grab	TAL(7)	1422 (4 C) (1)	0269-S10	10/30/2015 10:00	
0269-SS11A	MBC7H3	Soil/ Region 2 SAT	Grab	TAL(7)	1430 (4 C) (1)	0269-S10	10/30/2015 10:25	

Sample(s) to be used for Lab QC: 0269-SS07A Tag 1079 - Special Instructions: MS/MSDs: BC765 and BC7E7

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Item/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	WESTON	10/30/15 1500	FedEx	10/30/15 1500	
			Laura Baldwin	10/31/15 0830	OK

ORIGINAL DOCUMENTS INCLUDED IN CSF COPY 45717-MBC765

Signature

Date 11-03-15

T = 2.3°C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 2
Received By (Print Name) Lacey Goulding		Log-in Date 10/31/15
Received By (Signature) Lacey Goulding		
Case Number 45717	SDG No. MBC761, MBC765, MBC7E7	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8750 6337 1337
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.3
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	10/31/15
12. Time Received	0830

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC761	1.5	NA	QJ31004-001	OK
2	MBC765	NA		QJ31005-001	
3	MBC766			-002	
4	MBC767			-003	
5	MBC768			-004	
6	MBC769			-005	
7	MBC770			-006	
8	MBC771			-007	
9	MBC774			-008	
10	MBC7D5			-009	
11	MBC7D6			-010	
12	MBC7D7			-011	
13	MBC7D8			-012	
14	MBC7D9			-013	
15	MBC7E0			-014	
16	MBC7E1			-015	
17	MBC7E2			-016	
18	MBC7E3			-017	
19	MBC7E4			-018	
20	MBC7E5			-019	
21	MBC7E6			-020	
22	MBC7E7			QJ31006-001	

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.
Date 11/3/15	Logbook Page No.

COPY 45717-MBC 766
ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature
11-05-15
Date

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

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC765

MA NO. N/A

SOW NO. ISM02.2

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	4		
2.	Traffic Report/Chain of Custody Record(s)	5	7		
3.	Sample Log-In Sheet (DC-1)	8	8		
4.	CSF Inventory Sheet (DC-2)	9	12		
5.	SDG Narrative	13	15		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	16	38	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	39	42	X	
8.	Blanks (Form 3-IN)	43	44	X	
9.	ICP Interference Check Sample (Form 4-IN)	45	45	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	46	46	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	47	47	X	
12.	Duplicates (Form 6-IN)	48	48	X	
13.	Laboratory Control Sample (Form 7-IN)	49	49	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	50	50	X	
15.	Method Detection Limit (Form 9-IN)	51	51	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	52	52	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	53	56	X	
18.	Analysis Log (Form 12-IN)	57	61	X	
19.	Initial Calibration (Form 15-IN)	62	65	X	

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
20.	Initial Calibration Summary (Form 16-IN)	66	66	X	
21.	ICP-AES Raw Data	67	557	X	
22.	ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	558	582	X	
ICP-MS					
23.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25.	Blanks (Form 3-IN)	N/A	N/A	X	
26.	ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29.	Duplicates (Form 6-IN)	N/A	N/A	X	
30.	Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33.	ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34.	Analysis Log (Form 12-IN)	N/A	N/A	X	
35.	ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36.	ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
38.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39.	ICP-MS Raw Data	N/A	N/A	X	
40.	ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury		583	636	X	
41.	Inorganic Analysis Data Sheet (Form 1-IN)	585	605	X	
42.	Initial and Continuing Calibration Verification (Form 2-IN)	606	608	X	
43.	Blanks (Form 3-IN)	609	610	X	
44.	Matrix Spike Sample Recovery (Form 5A-IN)	611	611	X	
45.	Duplicates (Form 6-IN)	612	612	X	
46.	Method Detection Limit (Form 9-IN)	613	613	X	
47.	Analysis Log (Form 12-IN)	614	616	X	
48.	Initial Calibration (Form 15-IN)	617	618	X	

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

49. Initial Calibration Summary (Form 16-IN)	619	619	X	
50. Mercury Raw Data	620	629	X	
51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	630	636	X	
Cyanide	N/A	N/A	X	
52. Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53. Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54. Blanks (Form 3-IN)	N/A	N/A	X	
55. Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56. Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57. Duplicates (Form 6-IN)	N/A	N/A	X	
58. Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59. Analysis Log (Form 12-IN)	N/A	N/A	X	
60. Initial Calibration (Form 15-IN)	N/A	N/A	X	
61. Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62. Cyanide Raw Data	N/A	N/A	X	
63. Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional	637	645	X	
64. Percent Solids Determination Log	638	640	X	
65. EPA Shipping/Receiving Documents	641	642		
Airbill (No. of Shipments 1)	641	641	X	
Sample Tags	N/A	N/A		
Sample Log-In Sheet (Lab)	642	642	X	
66. Misc. Shipping/Receiving Records (list all individual records) Communication Logs	643	643		
Precautionary Measures - Hidden Hazards Warning				
67. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	644	645	X	
68. Other Records (describe or list)				
Communication Logs	N/A	N/A		

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

69. Comments:

Completed by:
(CLP Lab)

(Signature)	(Print Name & Title)	(Date)
	Robert Zhu, Technical Director	11/10/2015

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 11/10/2015
Case 45717
SDG MBC765
SOW ISM02.2
Contract Number: EPA14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The twenty (20) soil samples in this SDG were received in a sealed shipping container on October 31, 2015 with a temperature of 2.3°C.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes
Sodium	Yes

Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC765

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC765	QJ31005-001	X			
MBC765D	QJ31005-001DU	X			
MBC765S	QJ31005-001MS	X			
MBC766	QJ31005-002	X			
MBC767	QJ31005-003	X			
MBC768	QJ31005-004	X			
MBC769	QJ31005-005	X			
MBC770	QJ31005-006	X			
MBC771	QJ31005-007	X			
MBC774	QJ31005-008	X			
MBC7D5	QJ31005-009	X			
MBC7D6	QJ31005-010	X			
MBC7D7	QJ31005-011	X			
MBC7D8	QJ31005-012	X			
MBC7D9	QJ31005-013	X			
MBC7E0	QJ31005-014	X			
MBC7E1	QJ31005-015	X			
MBC7E2	QJ31005-016	X			
MBC7E3	QJ31005-017	X			
MBC7E4	QJ31005-018	X			
MBC7E5	QJ31005-019	X			
MBC7E6	QJ31005-020	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert Zhu Name: Robert Zhu

Date: 11/10/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC765

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-001

% Solids: 74.6 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13000	▪		11/09/2015	13:25:06
7440-36-0	Antimony	12.0	▪	U*D	11/09/2015	17:22:27
7440-38-2	Arsenic	5.8	▪	*	11/09/2015	13:25:06
7440-39-3	Barium	61.7	▪		11/09/2015	13:25:06
7440-41-7	Beryllium	0.55	▪		11/09/2015	13:25:06
7440-43-9	Cadmium	0.39	▪	J*D	11/09/2015	17:22:27
7440-70-2	Calcium	11200	▪		11/09/2015	13:25:06
7440-47-3	Chromium	15.2	▪		11/09/2015	13:25:06
7440-48-4	Cobalt	9.3	▪		11/09/2015	13:25:06
7440-50-8	Copper	34.2	▪	D	11/09/2015	17:22:27
7439-89-6	Iron	24000	▪	D	11/09/2015	17:22:27
7439-92-1	Lead	52.9	▪	D	11/09/2015	17:22:27
7439-95-4	Magnesium	8400	▪		11/09/2015	13:25:06
7439-96-5	Manganese	910	▪	*	11/09/2015	13:25:06
7440-02-0	Nickel	21.0	▪	D	11/09/2015	17:22:27
7440-09-7	Potassium	1430	▪		11/09/2015	13:25:06
7782-49-2	Selenium	0.90	▪	J	11/09/2015	13:25:06
7440-22-4	Silver	1.0	▪	U	11/09/2015	13:25:06
7440-23-5	Sodium	54.4	▪	J*	11/09/2015	13:25:06
7440-28-0	Thallium	0.67	▪	J	11/09/2015	13:25:06
7440-62-2	Vanadium	19.3	▪		11/09/2015	13:25:06
7440-66-6	Zinc	115	▪		11/09/2015	13:25:06

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC766

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-002

% Solids: 94.2 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9990		11/09/2015	13:49:21
7440-36-0	Antimony	10.7	U*D	11/09/2015	17:46:48
7440-38-2	Arsenic	6.3	*	11/09/2015	13:49:21
7440-39-3	Barium	39.0		11/09/2015	13:49:21
7440-41-7	Beryllium	0.45		11/09/2015	13:49:21
7440-43-9	Cadmium	0.19	J*D	11/09/2015	17:46:48
7440-70-2	Calcium	40600	D	11/09/2015	17:46:48
7440-47-3	Chromium	13.5		11/09/2015	13:49:21
7440-48-4	Cobalt	7.4		11/09/2015	13:49:21
7440-50-8	Copper	26.7	D	11/09/2015	17:46:48
7439-89-6	Iron	22500	D	11/09/2015	17:46:48
7439-92-1	Lead	18.2	D	11/09/2015	17:46:48
7439-95-4	Magnesium	23500		11/09/2015	13:49:21
7439-96-5	Manganese	683	*	11/09/2015	13:49:21
7440-02-0	Nickel	17.5	D	11/09/2015	17:46:48
7440-09-7	Potassium	1350		11/09/2015	13:49:21
7782-49-2	Selenium	3.1	U	11/09/2015	13:49:21
7440-22-4	Silver	0.89	U	11/09/2015	13:49:21
7440-23-5	Sodium	92.6	J*	11/09/2015	13:49:21
7440-28-0	Thallium	0.43	J	11/09/2015	13:49:21
7440-62-2	Vanadium	14.5		11/09/2015	13:49:21
7440-66-6	Zinc	67.3		11/09/2015	13:49:21

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC767

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-003

% Solids: 83.8 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12400		11/09/2015	13:54:21
7440-36-0	Antimony	27.9	U*D	11/09/2015	17:51:41
7440-38-2	Arsenic	10.8	*	11/09/2015	13:54:21
7440-39-3	Barium	74.1		11/09/2015	13:54:21
7440-41-7	Beryllium	0.62		11/09/2015	13:54:21
7440-43-9	Cadmium	0.31	J*D	11/09/2015	17:51:41
7440-70-2	Calcium	10400		11/09/2015	13:54:21
7440-47-3	Chromium	23.2		11/09/2015	13:54:21
7440-48-4	Cobalt	9.4		11/09/2015	13:54:21
7440-50-8	Copper	66.3	D	11/09/2015	17:51:41
7439-89-6	Iron	28300	D	11/09/2015	17:51:41
7439-92-1	Lead	165	D	11/09/2015	17:51:41
7439-95-4	Magnesium	7290		11/09/2015	13:54:21
7439-96-5	Manganese	733	*	11/09/2015	13:54:21
7440-02-0	Nickel	25.0	D	11/09/2015	17:51:41
7440-09-7	Potassium	1410		11/09/2015	13:54:21
7782-49-2	Selenium	1.1	J	11/09/2015	13:54:21
7440-22-4	Silver	0.93	U	11/09/2015	13:54:21
7440-23-5	Sodium	85.5	J*	11/09/2015	13:54:21
7440-28-0	Thallium	0.71	J	11/09/2015	13:54:21
7440-62-2	Vanadium	32.5		11/09/2015	13:54:21
7440-66-6	Zinc	155		11/09/2015	13:54:21

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC768

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-004

% Solids: 83.8 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10600		11/09/2015	13:59:12
7440-36-0	Antimony	12.8	U*D	11/09/2015	17:56:26
7440-38-2	Arsenic	5.0	*	11/09/2015	13:59:12
7440-39-3	Barium	43.8		11/09/2015	13:59:12
7440-41-7	Beryllium	0.45	J	11/09/2015	13:59:12
7440-43-9	Cadmium	0.23	J*D	11/09/2015	17:56:26
7440-70-2	Calcium	13700		11/09/2015	13:59:12
7440-47-3	Chromium	13.6		11/09/2015	13:59:12
7440-48-4	Cobalt	7.8		11/09/2015	13:59:12
7440-50-8	Copper	28.3	D	11/09/2015	17:56:26
7439-89-6	Iron	21800	D	11/09/2015	17:56:26
7439-92-1	Lead	33.7	D	11/09/2015	17:56:26
7439-95-4	Magnesium	7830		11/09/2015	13:59:12
7439-96-5	Manganese	610	*	11/09/2015	13:59:12
7440-02-0	Nickel	19.0	D	11/09/2015	17:56:26
7440-09-7	Potassium	1290		11/09/2015	13:59:12
7782-49-2	Selenium	3.7	U	11/09/2015	13:59:12
7440-22-4	Silver	1.1	U	11/09/2015	13:59:12
7440-23-5	Sodium	63.8	J*	11/09/2015	13:59:12
7440-28-0	Thallium	2.7	U	11/09/2015	13:59:12
7440-62-2	Vanadium	18.7		11/09/2015	13:59:12
7440-66-6	Zinc	108		11/09/2015	13:59:12

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC769

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-005

% Solids: 84.3 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13800			11/09/2015	14:04:05
7440-36-0	Antimony	12.3		U*D	11/09/2015	18:01:21
7440-38-2	Arsenic	9.2		*	11/09/2015	14:04:05
7440-39-3	Barium	86.9			11/09/2015	14:04:05
7440-41-7	Beryllium	0.65			11/09/2015	14:04:05
7440-43-9	Cadmium	0.61		J*D	11/09/2015	18:01:21
7440-70-2	Calcium	3330			11/09/2015	14:04:05
7440-47-3	Chromium	18.4			11/09/2015	14:04:05
7440-48-4	Cobalt	7.8			11/09/2015	14:04:05
7440-50-8	Copper	41.4		D	11/09/2015	18:01:21
7439-89-6	Iron	24200		D	11/09/2015	18:01:21
7439-92-1	Lead	142		D	11/09/2015	18:01:21
7439-95-4	Magnesium	5050			11/09/2015	14:04:05
7439-96-5	Manganese	986		*	11/09/2015	14:04:05
7440-02-0	Nickel	20.1		D	11/09/2015	18:01:21
7440-09-7	Potassium	1200			11/09/2015	14:04:05
7782-49-2	Selenium	1.1		J	11/09/2015	14:04:05
7440-22-4	Silver	1.0		U	11/09/2015	14:04:05
7440-23-5	Sodium	85.1		J*	11/09/2015	14:04:05
7440-28-0	Thallium	1.0		J	11/09/2015	14:04:05
7440-62-2	Vanadium	20.7			11/09/2015	14:04:05
7440-66-6	Zinc	116			11/09/2015	14:04:05

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC770

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-006

% Solids: 88.3 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10200		11/09/2015	14:08:56
7440-36-0	Antimony	22.7	U*D	11/09/2015	18:06:15
7440-38-2	Arsenic	16.5	*	11/09/2015	14:08:56
7440-39-3	Barium	67.1		11/09/2015	14:08:56
7440-41-7	Beryllium	0.51		11/09/2015	14:08:56
7440-43-9	Cadmium	0.35	J*D	11/09/2015	18:06:15
7440-70-2	Calcium	11100		11/09/2015	14:08:56
7440-47-3	Chromium	22.6		11/09/2015	14:08:56
7440-48-4	Cobalt	9.4		11/09/2015	14:08:56
7440-50-8	Copper	81.6	D	11/09/2015	18:06:15
7439-89-6	Iron	31100	D	11/09/2015	18:06:15
7439-92-1	Lead	323	D	11/09/2015	18:06:15
7439-95-4	Magnesium	7190		11/09/2015	14:08:56
7439-96-5	Manganese	590	*	11/09/2015	14:08:56
7440-02-0	Nickel	24.1	D	11/09/2015	18:06:15
7440-09-7	Potassium	1070		11/09/2015	14:08:56
7782-49-2	Selenium	0.71	J	11/09/2015	14:08:56
7440-22-4	Silver	0.76	U	11/09/2015	14:08:56
7440-23-5	Sodium	118	J*	11/09/2015	14:08:56
7440-28-0	Thallium	0.65	J	11/09/2015	14:08:56
7440-62-2	Vanadium	22.4		11/09/2015	14:08:56
7440-66-6	Zinc	398		11/09/2015	14:08:56

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC771

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-007

% Solids: 87.9 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8660		11/09/2015	14:13:46
7440-36-0	Antimony	12.0	U*D	11/09/2015	18:11:02
7440-38-2	Arsenic	125	*	11/09/2015	14:13:46
7440-39-3	Barium	68.1		11/09/2015	14:13:46
7440-41-7	Beryllium	0.54		11/09/2015	14:13:46
7440-43-9	Cadmium	1.0	U*D	11/09/2015	18:11:02
7440-70-2	Calcium	20300		11/09/2015	14:13:46
7440-47-3	Chromium	42.8		11/09/2015	14:13:46
7440-48-4	Cobalt	6.9		11/09/2015	14:13:46
7440-50-8	Copper	76.3	D	11/09/2015	18:11:02
7439-89-6	Iron	22900	D	11/09/2015	18:11:02
7439-92-1	Lead	197	D	11/09/2015	18:11:02
7439-95-4	Magnesium	3730		11/09/2015	14:13:46
7439-96-5	Manganese	286	*	11/09/2015	14:13:46
7440-02-0	Nickel	16.1	D	11/09/2015	18:11:02
7440-09-7	Potassium	910		11/09/2015	14:13:46
7782-49-2	Selenium	0.92	J	11/09/2015	14:13:46
7440-22-4	Silver	1.0	U	11/09/2015	14:13:46
7440-23-5	Sodium	328	J*	11/09/2015	14:13:46
7440-28-0	Thallium	2.5	U	11/09/2015	14:13:46
7440-62-2	Vanadium	14.9		11/09/2015	14:13:46
7440-66-6	Zinc	73.3		11/09/2015	14:13:46

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC774

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-008

% Solids: 86.5 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11000		11/09/2015	14:18:37
7440-36-0	Antimony	13.0	U*D	11/09/2015	18:15:46
7440-38-2	Arsenic	25.6	*	11/09/2015	14:18:37
7440-39-3	Barium	95.3		11/09/2015	14:18:37
7440-41-7	Beryllium	0.56		11/09/2015	14:18:37
7440-43-9	Cadmium	0.61	J*D	11/09/2015	18:15:46
7440-70-2	Calcium	10800		11/09/2015	14:18:37
7440-47-3	Chromium	17.6		11/09/2015	14:18:37
7440-48-4	Cobalt	10.1		11/09/2015	14:18:37
7440-50-8	Copper	61.5	D	11/09/2015	18:15:46
7439-89-6	Iron	26300	D	11/09/2015	18:15:46
7439-92-1	Lead	73.1	D	11/09/2015	18:15:46
7439-95-4	Magnesium	8170		11/09/2015	14:18:37
7439-96-5	Manganese	818	*	11/09/2015	14:18:37
7440-02-0	Nickel	25.2	D	11/09/2015	18:15:46
7440-09-7	Potassium	1130		11/09/2015	14:18:37
7782-49-2	Selenium	1.7	J	11/09/2015	14:18:37
7440-22-4	Silver	1.1	U	11/09/2015	14:18:37
7440-23-5	Sodium	68.0	J*	11/09/2015	14:18:37
7440-28-0	Thallium	1.8	J	11/09/2015	14:18:37
7440-62-2	Vanadium	21.6		11/09/2015	14:18:37
7440-66-6	Zinc	113		11/09/2015	14:18:37

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-009

% Solids: 74.7 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15900			11/09/2015	14:23:28
7440-36-0	Antimony	12.9		U*D	11/09/2015	18:20:38
7440-38-2	Arsenic	4.8		*	11/09/2015	14:23:28
7440-39-3	Barium	66.2			11/09/2015	14:23:28
7440-41-7	Beryllium	0.57			11/09/2015	14:23:28
7440-43-9	Cadmium	1.1		U*D	11/09/2015	18:20:38
7440-70-2	Calcium	2690			11/09/2015	14:23:28
7440-47-3	Chromium	16.1			11/09/2015	14:23:28
7440-48-4	Cobalt	9.3			11/09/2015	14:23:28
7440-50-8	Copper	25.5		D	11/09/2015	18:20:38
7439-89-6	Iron	23300		D	11/09/2015	18:20:38
7439-92-1	Lead	19.4		D	11/09/2015	18:20:38
7439-95-4	Magnesium	5760			11/09/2015	14:23:28
7439-96-5	Manganese	265		*	11/09/2015	14:23:28
7440-02-0	Nickel	20.0		D	11/09/2015	18:20:38
7440-09-7	Potassium	1450			11/09/2015	14:23:28
7782-49-2	Selenium	3.8		U	11/09/2015	14:23:28
7440-22-4	Silver	1.1		U	11/09/2015	14:23:28
7440-23-5	Sodium	59.0		J*	11/09/2015	14:23:28
7440-28-0	Thallium	2.7		U	11/09/2015	14:23:28
7440-62-2	Vanadium	19.8			11/09/2015	14:23:28
7440-66-6	Zinc	71.4			11/09/2015	14:23:28

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-010

% Solids: 76.5 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11400	▪		11/09/2015	14:28:19
7440-36-0	Antimony	12.3	▪	U*D	11/09/2015	18:35:17
7440-38-2	Arsenic	4.6	▪	*	11/09/2015	14:28:19
7440-39-3	Barium	46.7	▪		11/09/2015	14:28:19
7440-41-7	Beryllium	0.49	▪	J	11/09/2015	14:28:19
7440-43-9	Cadmium	1.0	▪	U*D	11/09/2015	18:35:17
7440-70-2	Calcium	1620	▪		11/09/2015	14:28:19
7440-47-3	Chromium	13.1	▪		11/09/2015	14:28:19
7440-48-4	Cobalt	7.6	▪		11/09/2015	14:28:19
7440-50-8	Copper	29.7	▪	D	11/09/2015	18:35:17
7439-89-6	Iron	21000	▪	D	11/09/2015	18:35:17
7439-92-1	Lead	11.3	▪	D	11/09/2015	18:35:17
7439-95-4	Magnesium	4170	▪		11/09/2015	14:28:19
7439-96-5	Manganese	231	▪	*	11/09/2015	14:28:19
7440-02-0	Nickel	17.5	▪	D	11/09/2015	18:35:17
7440-09-7	Potassium	1190	▪		11/09/2015	14:28:19
7782-49-2	Selenium	3.6	▪	U	11/09/2015	14:28:19
7440-22-4	Silver	1.0	▪	U	11/09/2015	14:28:19
7440-23-5	Sodium	66.4	▪	J*	11/09/2015	14:28:19
7440-28-0	Thallium	2.6	▪	U	11/09/2015	14:28:19
7440-62-2	Vanadium	15.2	▪		11/09/2015	14:28:19
7440-66-6	Zinc	63.5	▪		11/09/2015	14:28:19

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-011

% Solids: 83.1 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12400		11/09/2015	14:33:10
7440-36-0	Antimony	33.9	U*D	11/09/2015	18:40:03
7440-38-2	Arsenic	6.0	*	11/09/2015	14:33:10
7440-39-3	Barium	45.0		11/09/2015	14:33:10
7440-41-7	Beryllium	0.55	J	11/09/2015	14:33:10
7440-43-9	Cadmium	2.8	U*D	11/09/2015	18:40:03
7440-70-2	Calcium	5830		11/09/2015	14:33:10
7440-47-3	Chromium	17.1		11/09/2015	14:33:10
7440-48-4	Cobalt	8.3		11/09/2015	14:33:10
7440-50-8	Copper	29.3	D	11/09/2015	18:40:03
7439-89-6	Iron	28000	D	11/09/2015	18:40:03
7439-92-1	Lead	16.2	D	11/09/2015	18:40:03
7439-95-4	Magnesium	7680		11/09/2015	14:33:10
7439-96-5	Manganese	892	*	11/09/2015	14:33:10
7440-02-0	Nickel	22.2	JD	11/09/2015	18:40:03
7440-09-7	Potassium	1350		11/09/2015	14:33:10
7782-49-2	Selenium	3.9	U	11/09/2015	14:33:10
7440-22-4	Silver	1.1	U	11/09/2015	14:33:10
7440-23-5	Sodium	72.8	J*	11/09/2015	14:33:10
7440-28-0	Thallium	0.72	J	11/09/2015	14:33:10
7440-62-2	Vanadium	17.3		11/09/2015	14:33:10
7440-66-6	Zinc	71.4		11/09/2015	14:33:10

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-012

% Solids: 84.9 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11300		11/09/2015	14:38:01
7440-36-0	Antimony	10.7	U*D	11/09/2015	18:44:50
7440-38-2	Arsenic	5.1	*	11/09/2015	14:38:01
7440-39-3	Barium	33.1		11/09/2015	14:38:01
7440-41-7	Beryllium	0.47		11/09/2015	14:38:01
7440-43-9	Cadmium	0.89	U*D	11/09/2015	18:44:50
7440-70-2	Calcium	6040		11/09/2015	14:38:01
7440-47-3	Chromium	13.4		11/09/2015	14:38:01
7440-48-4	Cobalt	7.4		11/09/2015	14:38:01
7440-50-8	Copper	21.7	D	11/09/2015	18:44:50
7439-89-6	Iron	24600	D	11/09/2015	18:44:50
7439-92-1	Lead	10.5	D	11/09/2015	18:44:50
7439-95-4	Magnesium	8190		11/09/2015	14:38:01
7439-96-5	Manganese	655	*	11/09/2015	14:38:01
7440-02-0	Nickel	19.6	D	11/09/2015	18:44:50
7440-09-7	Potassium	1270		11/09/2015	14:38:01
7782-49-2	Selenium	3.1	U	11/09/2015	14:38:01
7440-22-4	Silver	0.89	U	11/09/2015	14:38:01
7440-23-5	Sodium	64.0	J*	11/09/2015	14:38:01
7440-28-0	Thallium	0.57	J	11/09/2015	14:38:01
7440-62-2	Vanadium	14.1		11/09/2015	14:38:01
7440-66-6	Zinc	58.4		11/09/2015	14:38:01

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-013

% Solids: 86.8 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8340		11/09/2015	14:42:51
7440-36-0	Antimony	12.0	U*D	11/09/2015	18:49:43
7440-38-2	Arsenic	9.5	*	11/09/2015	14:42:51
7440-39-3	Barium	35.7		11/09/2015	14:42:51
7440-41-7	Beryllium	0.28	J	11/09/2015	14:42:51
7440-43-9	Cadmium	1.0	U*D	11/09/2015	18:49:43
7440-70-2	Calcium	3140		11/09/2015	14:42:51
7440-47-3	Chromium	23.7		11/09/2015	14:42:51
7440-48-4	Cobalt	5.4		11/09/2015	14:42:51
7440-50-8	Copper	33.1	D	11/09/2015	18:49:43
7439-89-6	Iron	21500	D	11/09/2015	18:49:43
7439-92-1	Lead	42.6	D	11/09/2015	18:49:43
7439-95-4	Magnesium	4420		11/09/2015	14:42:51
7439-96-5	Manganese	261	*	11/09/2015	14:42:51
7440-02-0	Nickel	16.5	D	11/09/2015	18:49:43
7440-09-7	Potassium	961		11/09/2015	14:42:51
7782-49-2	Selenium	0.86	J	11/09/2015	14:42:51
7440-22-4	Silver	1.0	U	11/09/2015	14:42:51
7440-23-5	Sodium	57.3	J*	11/09/2015	14:42:51
7440-28-0	Thallium	2.5	U	11/09/2015	14:42:51
7440-62-2	Vanadium	14.6		11/09/2015	14:42:51
7440-66-6	Zinc	58.4		11/09/2015	14:42:51

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-014

% Solids: 87.2 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10500		11/09/2015	14:47:42
7440-36-0	Antimony	10.3	U*D	11/09/2015	18:54:29
7440-38-2	Arsenic	4.3	*	11/09/2015	14:47:42
7440-39-3	Barium	30.6		11/09/2015	14:47:42
7440-41-7	Beryllium	0.57		11/09/2015	14:47:42
7440-43-9	Cadmium	0.86	U*D	11/09/2015	18:54:29
7440-70-2	Calcium	1310		11/09/2015	14:47:42
7440-47-3	Chromium	12.2		11/09/2015	14:47:42
7440-48-4	Cobalt	6.6		11/09/2015	14:47:42
7440-50-8	Copper	44.2	D	11/09/2015	18:54:29
7439-89-6	Iron	22800	D	11/09/2015	18:54:29
7439-92-1	Lead	7.1	D	11/09/2015	18:54:29
7439-95-4	Magnesium	4350		11/09/2015	14:47:42
7439-96-5	Manganese	161	*	11/09/2015	14:47:42
7440-02-0	Nickel	21.0	D	11/09/2015	18:54:29
7440-09-7	Potassium	863		11/09/2015	14:47:42
7782-49-2	Selenium	3.0	U	11/09/2015	14:47:42
7440-22-4	Silver	0.86	U	11/09/2015	14:47:42
7440-23-5	Sodium	52.8	J*	11/09/2015	14:47:42
7440-28-0	Thallium	2.2	U	11/09/2015	14:47:42
7440-62-2	Vanadium	10.7		11/09/2015	14:47:42
7440-66-6	Zinc	61.5		11/09/2015	14:47:42

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-015

% Solids: 61.8 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12300		11/09/2015	14:52:32
7440-36-0	Antimony	1.1	J*D	11/09/2015	18:59:14
7440-38-2	Arsenic	11.3	*	11/09/2015	14:52:32
7440-39-3	Barium	113		11/09/2015	14:52:32
7440-41-7	Beryllium	0.57	J	11/09/2015	14:52:32
7440-43-9	Cadmium	2.9	*D	11/09/2015	18:59:14
7440-70-2	Calcium	17400		11/09/2015	14:52:32
7440-47-3	Chromium	55.8		11/09/2015	14:52:32
7440-48-4	Cobalt	9.4		11/09/2015	14:52:32
7440-50-8	Copper	248	D	11/09/2015	18:59:14
7439-89-6	Iron	22400	D	11/09/2015	18:59:14
7439-92-1	Lead	195	D	11/09/2015	18:59:14
7439-95-4	Magnesium	7410		11/09/2015	14:52:32
7439-96-5	Manganese	619	*	11/09/2015	14:52:32
7440-02-0	Nickel	23.7	D	11/09/2015	18:59:14
7440-09-7	Potassium	1590		11/09/2015	14:52:32
7782-49-2	Selenium	0.98	J	11/09/2015	14:52:32
7440-22-4	Silver	1.5	U	11/09/2015	14:52:32
7440-23-5	Sodium	228	J*	11/09/2015	14:52:32
7440-28-0	Thallium	3.7	U	11/09/2015	14:52:32
7440-62-2	Vanadium	53.2		11/09/2015	14:52:32
7440-66-6	Zinc	283		11/09/2015	14:52:32

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-016

% Solids: 85.7 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11500		11/09/2015	14:57:24
7440-36-0	Antimony	25.3	U*D	11/09/2015	19:04:07
7440-38-2	Arsenic	5.0	*	11/09/2015	14:57:24
7440-39-3	Barium	33.3		11/09/2015	14:57:24
7440-41-7	Beryllium	0.52		11/09/2015	14:57:24
7440-43-9	Cadmium	2.1	U*D	11/09/2015	19:04:07
7440-70-2	Calcium	17500		11/09/2015	14:57:24
7440-47-3	Chromium	19.9		11/09/2015	14:57:24
7440-48-4	Cobalt	8.0		11/09/2015	14:57:24
7440-50-8	Copper	27.4	D	11/09/2015	19:04:07
7439-89-6	Iron	29700	D	11/09/2015	19:04:07
7439-92-1	Lead	19.9	D	11/09/2015	19:04:07
7439-95-4	Magnesium	8830		11/09/2015	14:57:24
7439-96-5	Manganese	600	*	11/09/2015	14:57:24
7440-02-0	Nickel	23.5	D	11/09/2015	19:04:07
7440-09-7	Potassium	1280		11/09/2015	14:57:24
7782-49-2	Selenium	0.54	J	11/09/2015	14:57:24
7440-22-4	Silver	0.84	U	11/09/2015	14:57:24
7440-23-5	Sodium	56.1	J*	11/09/2015	14:57:24
7440-28-0	Thallium	0.53	J	11/09/2015	14:57:24
7440-62-2	Vanadium	17.3		11/09/2015	14:57:24
7440-66-6	Zinc	64.2		11/09/2015	14:57:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-017

% Solids: 84.1 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	21300			11/09/2015	15:12:09
7440-36-0	Antimony	30.2		U*D	11/09/2015	19:08:53
7440-38-2	Arsenic	61.8		*	11/09/2015	15:12:09
7440-39-3	Barium	96.5			11/09/2015	15:12:09
7440-41-7	Beryllium	1.1			11/09/2015	15:12:09
7440-43-9	Cadmium	2.5		U*D	11/09/2015	19:08:53
7440-70-2	Calcium	10900			11/09/2015	15:12:09
7440-47-3	Chromium	32.3			11/09/2015	15:12:09
7440-48-4	Cobalt	14.3			11/09/2015	15:12:09
7440-50-8	Copper	95.5		D	11/09/2015	19:08:53
7439-89-6	Iron	46800		D	11/09/2015	19:08:53
7439-92-1	Lead	346		D	11/09/2015	19:08:53
7439-95-4	Magnesium	9080			11/09/2015	15:12:09
7439-96-5	Manganese	741		*	11/09/2015	15:12:09
7440-02-0	Nickel	37.2		D	11/09/2015	19:08:53
7440-09-7	Potassium	2050			11/09/2015	15:12:09
7782-49-2	Selenium	1.0		J	11/09/2015	15:12:09
7440-22-4	Silver	1.0		U	11/09/2015	15:12:09
7440-23-5	Sodium	193		J*	11/09/2015	15:12:09
7440-28-0	Thallium	0.43		J	11/09/2015	15:12:09
7440-62-2	Vanadium	32.1			11/09/2015	15:12:09
7440-66-6	Zinc	112			11/09/2015	15:12:09

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-018

% Solids: 87.0 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	26700		11/09/2015	15:17:00
7440-36-0	Antimony	33.6	U*D	11/09/2015	19:13:39
7440-38-2	Arsenic	8.7	*	11/09/2015	15:17:00
7440-39-3	Barium	59.3		11/09/2015	15:17:00
7440-41-7	Beryllium	0.77		11/09/2015	15:17:00
7440-43-9	Cadmium	2.8	U*D	11/09/2015	19:13:39
7440-70-2	Calcium	3830		11/09/2015	15:17:00
7440-47-3	Chromium	27.0		11/09/2015	15:17:00
7440-48-4	Cobalt	14.8		11/09/2015	15:17:00
7440-50-8	Copper	44.5	D	11/09/2015	19:13:39
7439-89-6	Iron	56100	D	11/09/2015	19:13:39
7439-92-1	Lead	23.9	D	11/09/2015	19:13:39
7439-95-4	Magnesium	12500		11/09/2015	15:17:00
7439-96-5	Manganese	949	*	11/09/2015	15:17:00
7440-02-0	Nickel	42.9	D	11/09/2015	19:13:39
7440-09-7	Potassium	1930		11/09/2015	15:17:00
7782-49-2	Selenium	3.9	U	11/09/2015	15:17:00
7440-22-4	Silver	1.1	U	11/09/2015	15:17:00
7440-23-5	Sodium	143	J*	11/09/2015	15:17:00
7440-28-0	Thallium	0.57	J	11/09/2015	15:17:00
7440-62-2	Vanadium	30.5		11/09/2015	15:17:00
7440-66-6	Zinc	107		11/09/2015	15:17:00

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-019

% Solids: 76.5 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	17300			11/09/2015	15:21:49
7440-36-0	Antimony	11.5		U*D	11/09/2015	19:18:33
7440-38-2	Arsenic	68.6		*	11/09/2015	15:21:49
7440-39-3	Barium	53.4			11/09/2015	15:21:49
7440-41-7	Beryllium	2.0			11/09/2015	15:21:49
7440-43-9	Cadmium	0.40		J*D	11/09/2015	19:18:33
7440-70-2	Calcium	3560			11/09/2015	15:21:49
7440-47-3	Chromium	46.2			11/09/2015	15:21:49
7440-48-4	Cobalt	39.1			11/09/2015	15:21:49
7440-50-8	Copper	229		D	11/09/2015	19:18:33
7439-89-6	Iron	16200		D	11/09/2015	19:18:33
7439-92-1	Lead	86.8		D	11/09/2015	19:18:33
7439-95-4	Magnesium	1410			11/09/2015	15:21:49
7439-96-5	Manganese	358		*	11/09/2015	15:21:49
7440-02-0	Nickel	30.8		D	11/09/2015	19:18:33
7440-09-7	Potassium	549			11/09/2015	15:21:49
7782-49-2	Selenium	1.1		J	11/09/2015	15:21:49
7440-22-4	Silver	0.96		U	11/09/2015	15:21:49
7440-23-5	Sodium	240		J*	11/09/2015	15:21:49
7440-28-0	Thallium	2.4		U	11/09/2015	15:21:49
7440-62-2	Vanadium	24.1			11/09/2015	15:21:49
7440-66-6	Zinc	156			11/09/2015	15:21:49

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-020

% Solids: 85.3 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	19000			11/09/2015	15:26:39
7440-36-0	Antimony	24.3		U*D	11/09/2015	19:23:26
7440-38-2	Arsenic	23.4		*	11/09/2015	15:26:39
7440-39-3	Barium	52.1			11/09/2015	15:26:39
7440-41-7	Beryllium	1.1			11/09/2015	15:26:39
7440-43-9	Cadmium	0.17		J*D	11/09/2015	19:23:26
7440-70-2	Calcium	23200			11/09/2015	15:26:39
7440-47-3	Chromium	39.4			11/09/2015	15:26:39
7440-48-4	Cobalt	23.8			11/09/2015	15:26:39
7440-50-8	Copper	95.1		D	11/09/2015	19:23:26
7439-89-6	Iron	39100		D	11/09/2015	19:23:26
7439-92-1	Lead	56.8		D	11/09/2015	19:23:26
7439-95-4	Magnesium	8550			11/09/2015	15:26:39
7439-96-5	Manganese	739		*	11/09/2015	15:26:39
7440-02-0	Nickel	39.3		D	11/09/2015	19:23:26
7440-09-7	Potassium	1540			11/09/2015	15:26:39
7782-49-2	Selenium	0.87		J	11/09/2015	15:26:39
7440-22-4	Silver	0.81		U	11/09/2015	15:26:39
7440-23-5	Sodium	281		J*	11/09/2015	15:26:39
7440-28-0	Thallium	0.50		J	11/09/2015	15:26:39
7440-62-2	Vanadium	26.8			11/09/2015	15:26:39
7440-66-6	Zinc	126			11/09/2015	15:26:39

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

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2660	106	1	50000	49300	99	0	48200	96	1
Antimony	994	995	100	0	2500	2430	97	0	2420	97	0
Arsenic	999	1020	102	0	2500	2490	100	0	2460	98	0
Barium	497	514	103	1	10000	9870	99	0	9640	96	1
Beryllium	495	518	105	1	1000	1020	102	1	999	100	1
Cadmium	496	492	99	0	1000	984	98	0	983	98	0
Calcium	10000	10700	107	1	50000	50200	100	0	48700	97	1
Chromium	490	507	103	0	10000	10100	101	1	9970	100	1
Cobalt	499	497	100	0	5000	4810	96	0	4800	96	0
Copper	492	494	100	1	12500	12200	98	0	11600	93	3
Iron	5080	5300	104	1	25000	25200	101	0	24600	98	1
Lead	1000	960	96	0	10000	9420	94	0	9360	94	0
Magnesium	6070	6420	106	0	50000	50800	102	0	50400	101	1
Manganese	499	522	105	0	5000	4870	97	2	4870	97	2
Nickel	503	499	99	0	5000	4770	95	0	4710	94	0
Potassium	10000	10600	106	1	37500	37900	101	0	37300	99	2
Selenium	1030	1000	97	0	1250	1240	99	0	1220	98	0
Silver	501	508	101	0	750	752	100	1	745	99	1
Sodium	10100	11100	110	1	25000	26100	104	0	25900	104	1
Thallium	1030	1010	98	0	1000	930	93	0	935	94	0
Vanadium	501	509	102	0	2500	2510	100	1	2460	98	1
Zinc	1030	1020	100	0	5000	4920	98	0	4890	98	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	47700	95	2	48200	96	1
Antimony					2500	2420	97	0	2440	98	0
Arsenic					2500	2460	98	1	2490	100	0
Barium					10000	9720	97	2	10100	101	1
Beryllium					1000	996	100	1	1010	101	3
Cadmium					1000	985	99	0	991	99	0
Calcium					50000	48700	97	2	50000	100	1
Chromium					10000	10000	100	1	10100	101	2
Cobalt					5000	4810	96	0	4840	97	0
Copper					12500	11800	94	1	12000	96	2
Iron					25000	24400	98	2	24800	99	1
Lead					10000	9400	94	0	9480	95	0
Magnesium					50000	49900	100	2	50700	101	0
Manganese					5000	4830	97	1	4920	98	2
Nickel					5000	4740	95	1	4790	96	0
Potassium					37500	37600	100	2	39000	104	1
Selenium					1250	1220	98	1	1240	99	0
Silver					750	750	100	1	753	100	2
Sodium					25000	26000	104	2	27000	108	0
Thallium					1000	938	94	0	942	94	0
Vanadium					2500	2470	99	1	2490	100	2
Zinc					5000	4910	98	0	4950	99	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	49000	98	1			
Antimony					2500	2510	100	0			
Arsenic					2500	2560	102	0			
Barium					10000	10200	102	1			
Beryllium					1000	1060	106	3			
Cadmium					1000	1020	102	0			
Calcium					50000	50400	101	1			
Chromium					10000	10600	106	2			
Cobalt					5000	4990	100	0			
Copper					12500	12500	100	2			
Iron					25000	24900	100	1			
Lead					10000	9760	98	0			
Magnesium					50000	51100	102	1			
Manganese					5000	5150	103	2			
Nickel					5000	4930	99	0			
Potassium					37500	39700	106	1			
Selenium					1250	1270	102	0			
Silver					750	788	105	2			
Sodium					25000	27500	110	1			
Thallium					1000	971	97	0			
Vanadium					2500	2610	104	2			
Zinc					5000	5100	102	0			

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: ICP-AES Preparation Batch: 89047

Run Batch: I5110915A ISM Preparation Method 3050B

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Calcium	5000	U	5000	U	5000	U	5000	U	15.1	J
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Cobalt	50.0	U	0.28	J	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Iron	100	U	100	U	100	U	100	U	2.7	J
Lead	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	1.5	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	148	J	123	J	5000	U	5000	U	500	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	500	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Preparation Blank Matrix:

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

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5110915A ISM Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID:	Q	ID:	Q
Aluminum			200	U	200	U				
Antimony			60.0	U	60.0	U				
Arsenic			10.0	U	10.0	U				
Barium			200	U	200	U				
Beryllium			5.0	U	0.064	J				
Cadmium			5.0	U	5.0	U				
Calcium			5000	U	5000	U				
Chromium			10.0	U	10.0	U				
Cobalt			50.0	U	50.0	U				
Copper			25.0	U	25.0	U				
Iron			20.6	J	100	U				
Lead			10.0	U	10.0	U				
Magnesium			5000	U	5000	U				
Manganese			15.0	U	15.0	U				
Nickel			40.0	U	40.0	U				
Potassium			5000	U	5000	U				
Selenium			35.0	U	35.0	U				
Silver			10.0	U	10.0	U				
Sodium			5000	U	5000	U				
Thallium			25.0	U	25.0	U				
Vanadium			50.0	U	50.0	U				
Zinc			60.0	U	60.0	U				

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5110915A ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	257000	101	256000	104
Antimony	0.00	618	1.2	0	598	97
Arsenic	0.00	104	-5.7	0	95.8	92
Barium	6.0	537	8.1	135	532	99
Beryllium	0.0000	495	0.23	0	552	112
Cadmium	1.0	972	1.1	110	1020	105
Calcium	245000	235000	255000	104	255000	109
Chromium	52.0	542	61.1	118	591	109
Cobalt	0.000	476	-0.29	0	475	100
Copper	2.0	511	2.0	100	516	101
Iron	101000	99300	102000	101	103000	104
Lead	0.00	49.0	4.5	0	48.4	99
Magnesium	255000	248000	269000	105	270000	109
Manganese	7.0	507	18.5	264	560	110
Nickel	2.0	954	3.0	150	947	99
Selenium	0.00	46.0	-1.1	0	51.3	112
Silver	0.00	201	0.12	0	220	109
Thallium	0.00	108	-2.2	0	91.5	85
Vanadium	0.00	491	1.9	0	527	107
Zinc	0.00	952	1.4	0	993	104

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC765S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 74.6

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	5.6	J	14.9	U	24.9	22	*D
Arsenic	75 - 125	14.5		5.8		10.0	87	
Barium	75 - 125	518		61.7		498	92	
Beryllium	75 - 125	11.7		0.55	J	12.4	90	
Cadmium	75 - 125	10.9		0.39	J	12.4	85	D
Chromium	75 - 125	58.6		15.2		49.8	87	
Cobalt	75 - 125	112		9.3		124	83	
Copper	75 - 125	89.7		34.2		62.2	89	D
Lead		59.5		52.9		5.0	132	D
Manganese		729		910		124	-146	
Nickel	75 - 125	122		21.0		124	81	D
Selenium	75 - 125	20.9		0.90	J	24.9	80	
Silver	75 - 125	10.9		1.2	U	12.4	88	
Thallium	75 - 125	10.7		0.67	J	12.4	81	
Vanadium	75 - 125	127		19.3		124	87	
Zinc	75 - 125	226		115		124	90	

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC765A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: ICP4 ISM02.2

% Solids:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		280		120	U	120	233	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC765D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 74.6

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		13000		12800		2	
Antimony		13.9	U	13.9	U		
Arsenic	1.2	5.8		5.4		7	
Barium	23.2	61.7		61.8		0	
Beryllium		0.55	J	0.51	J		
Cadmium		0.39	J	0.34	J		
Calcium		11200		11300		1	
Chromium		15.2		14.7		3	
Cobalt	5.8	9.3		8.0		15	
Copper		34.2		34.2		0	
Iron		24000		21900		9	
Lead		52.9		49.6		6	
Magnesium		8400		9150		9	
Manganese		910		566		47	*
Nickel	9.3	21.0		18.5		13	
Potassium	579	1430		1550		8	
Selenium		0.90	J	0.79	J		
Silver		1.2	U	1.2	U		
Sodium		54.4	J	55.7	J		
Thallium		0.67	J	2.9	U		
Vanadium	5.8	19.3		18.2		6	
Zinc		115		108		6	

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 89047

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

Analyte	True	Found	%R
Aluminum	40.0	46.6	117
Antimony	12.0	10.5	88
Arsenic	2.0	1.7	85
Barium	40.0	38.4	96
Beryllium	1.0	0.92	92
Cadmium	1.0	0.86	86
Calcium	1000	1010	101
Chromium	2.0	1.9	95
Cobalt	10.0	9.0	90
Copper	5.0	4.6	92
Iron	20.0	22.4	112
Lead	2.0	1.8	90
Magnesium	1000	1020	102
Manganese	3.0	2.8	93
Nickel	8.0	7.1	89
Potassium	1000	986	99
Selenium	7.0	6.1	87
Silver	2.0	1.8	90
Sodium	1000	1050	105
Thallium	5.0	4.2	84
Vanadium	10.0	9.1	91
Zinc	12.0	11.1	93

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC765L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	130000		128000		2	
Antimony	1.6	J	60.0	U		
Arsenic	57.8		63.9		11	*
Barium	618		603		2	
Beryllium	5.5		5.7		4	
Cadmium	3.9		1.5	J	62	*
Calcium	112000		111000		1	
Chromium	152		160		5	
Cobalt	93.6		100		7	
Copper	343		354		3	
Iron	240000		242000		1	
Lead	530		554		5	
Magnesium	84100		84300		0	
Manganese	9120		9600		5	
Nickel	211		216		2	
Potassium	14300		14000		2	
Selenium	9.0		11.8	J	31	
Silver	1.0	U	5.0	U		
Sodium	545		467	J	14	*
Thallium	6.7		10.9	J	63	
Vanadium	193		196		2	
Zinc	1160		1200		3	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	7.6	02/07/2015
Antimony	206.83	0.35	02/07/2015
Arsenic	189.04	0.39	02/07/2015
Barium	455.40	0.20	02/07/2015
Beryllium	313.04	0.0079	02/07/2015
Cadmium	228.80	0.040	02/07/2015
Calcium	422.67	6.9	02/07/2015
Chromium	267.72	0.012	02/07/2015
Cobalt	228.62	0.068	02/07/2015
Copper	327.40	0.24	02/07/2015
Iron	261.19	2.6	02/07/2015
Lead	220.35	0.28	02/07/2015
Magnesium	285.21	9.7	02/07/2015
Manganese	257.61	0.085	02/07/2015
Nickel	231.60	0.21	02/07/2015
Potassium	766.49	11.0	02/07/2015
Selenium	196.09	0.62	02/07/2015
Silver	328.07	0.19	02/07/2015
Sodium	589.59	4.9	02/07/2015
Thallium	190.86	0.36	02/07/2015
Vanadium	292.40	0.13	02/07/2015
Zinc	206.20	0.26	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

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	1152	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1157	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1201	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1206	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1211		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1217		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1222	X						X				X		X				X			X						
S07	1.0	1227	X						X				X		X													
S08	1.0	1232																	X			X						
S09	1.0	1236																				X						
S10	1.0	1241																	X									
ICV	1.0	1246	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1251	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1256	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1300	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1305	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1310	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS	1.0	1315	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1320	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC765	1.0	1325	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC765L	5.0	1329	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC765D	1.0	1334	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC765S	1.0	1339			X	X	X			X	X					X				X	X		X	X	X			
MBC765A	1.0	1344																										
MBC766	1.0	1349	X		X	X	X			X	X				X	X			X	X	X	X	X	X	X			
MBC767	1.0	1354	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC768	1.0	1359	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC769	1.0	1404	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC770	1.0	1408	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC771	1.0	1413	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC774	1.0	1418	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D5	1.0	1423	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D6	1.0	1428	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D7	1.0	1433	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D8	1.0	1438	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D9	1.0	1442	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7E0	1.0	1447	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7E1	1.0	1452	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

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		
MBC7E2	1.0	1457	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
CCV002	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB002	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7E3	1.0	1512	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7E4	1.0	1517	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7E5	1.0	1521	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7E6	1.0	1526	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1536																										
ZZZZZZ	1.0	1541																										
ZZZZZZ	5.0	1545																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1555																										
ZZZZZZ	1.0	1600																										
ZZZZZZ	1.0	1605																										
ZZZZZZ	1.0	1610																										
ZZZZZZ	1.0	1614																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1624																										
ZZZZZZ	1.0	1629																										
ZZZZZZ	1.0	1634																										
CCV003	1.0	1638	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB003	1.0	1644	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1648																										
ZZZZZZ	1.0	1653																										
ZZZZZZ	1.0	1658																										
ZZZZZZ	5.0	1703																										
ZZZZZZ	1.0	1708																										
ZZZZZZ	1.0	1712																										
ZZZZZZ	1.0	1717																										
MBC765	2.0	1722		X				X				X	X	X				X										
MBC765L	10	1727		X				X				X	X	X				X										
MBC765D	2.0	1732		X				X				X	X	X				X										
MBC765S	2.0	1737		X				X				X		X				X										
MBC765A	2.0	1741		X																								
MBC766	2.0	1746		X				X	X			X	X	X				X										
MBC767	5.0	1751		X				X				X	X	X				X										
MBC768	2.0	1756		X				X				X	X	X				X										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

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		
MBC769	2.0	1801		X				X				X	X	X				X										
MBC770	5.0	1806		X				X				X	X	X				X										
MBC771	2.0	1811		X				X				X	X	X				X										
MBC774	2.0	1815		X				X				X	X	X				X										
MBC7D5	2.0	1820		X				X				X	X	X				X										
CCV004	1.0	1825	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	1830	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7D6	2.0	1835		X				X				X	X	X				X										
MBC7D7	5.0	1840		X				X				X	X	X				X										
MBC7D8	2.0	1844		X				X				X	X	X				X										
MBC7D9	2.0	1849		X				X				X	X	X				X										
MBC7E0	2.0	1854		X				X				X	X	X				X										
MBC7E1	2.0	1859		X				X				X	X	X				X										
MBC7E2	5.0	1904		X				X				X	X	X				X										
MBC7E3	5.0	1908		X				X				X	X	X				X										
MBC7E4	5.0	1913		X				X				X	X	X				X										
MBC7E5	2.0	1918		X				X				X	X	X				X										
MBC7E6	5.0	1923		X				X				X	X	X				X										
ZZZZZZ	2.0	1928																										
ZZZZZZ	2.0	1933																										
ZZZZZZ	2.0	1937																										
ZZZZZZ	5.0	1942																										
ZZZZZZ	2.0	1947																										
ZZZZZZ	5.0	1952																										
CCV005	1.0	1957	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB005	1.0	2002	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	2006																										
ZZZZZZ	1.0	2011																										
ZZZZZZ	1.0	2016																										
ZZZZZZ	1.0	2021																										
ZZZZZZ	1.0	2026																										
ZZZZZZ	1.0	2030																										
ZZZZZZ	1.0	2035																										
ZZZZZZ	1.0	2040																										
ZZZZZZ	1.0	2045																										
ZZZZZZ	1.0	2050																										
ZZZZZZ	1.0	2055																										
ZZZZZZ	1.0	2100																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

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		
ZZZZZZ	1.0	2104																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2114																										
ZZZZZZ	1.0	2119																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2129																										
ZZZZZZ	1.0	2133																										
ZZZZZZ	1.0	2138																										
ZZZZZZ	1.0	2143																										
ZZZZZZ	1.0	2148																										
ZZZZZZ	1.0	2153																										
ZZZZZZ	1.0	2157																										
ZZZZZZ	1.0	2202																										
ZZZZZZ	1.0	2207																										
ZZZZZZ	1.0	2212																										
ZZZZZZ	1.0	2217																										
ZZZZZZ	1.0	2221																										
ZZZZZZ	1.0	2226																										
ZZZZZZ	1.0	2231																										
ZZZZZZ	1.0	2236																										
ZZZZZZ	1.0	2241																										
ZZZZZZ	1.0	2246																										
ZZZZZZ	1.0	2251																										
ZZZZZZ	1.0	2256																										
ZZZZZZ	1.0	2300																										
ZZZZZZ	1.0	2305																										
ZZZZZZ	1.0	2310																										
ZZZZZZ	1.0	2315																										
ZZZZZZ	1.0	2320																										
ZZZZZZ	1.0	2325																										
ZZZZZZ	1.0	2329																										
ZZZZZZ	1.0	2334																										
ZZZZZZ	1.0	2339																										
ZZZZZZ	1.0	2344																										
ZZZZZZ	1.0	2349																										
ZZZZZZ	1.0	2354																										
ZZZZZZ	1.0	2358																										
ZZZZZZ	1.0	0003																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

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		
ZZZZZZ	1.0	0008																										
ZZZZZZ	1.0	0013																										
ZZZZZZ	1.0	0018																										
ZZZZZZ	1.0	0023																										
ZZZZZZ	1.0	0027																										
ZZZZZZ	1.0	0032																										
ZZZZZZ	1.0	0037																										
ZZZZZZ	1.0	0042																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.049	0	200	250	25	800	809	1
Antimony	0.00	0.0058	0	60.0	57	-5	240	233	-3
Arsenic	0.00	0.0012	0	10.0	8.9	-11	40.0	40	-1
Barium	0.00	-0.0018	0	200	204	2	800	798	0
Beryllium	0.00	-0.00044	0	5.00	5.3	5	20.0	20	2
Cadmium	0.00	0.00080	0	5.00	4.6	-7	20.0	19	-7
Calcium	0.00	-0.44	0	5000	5284	6	20000	20659	3
Chromium	0.00	-0.00085	0	10.0	11	6	40.0	41	3
Cobalt	0.00	0.0029	0	50.0	50	1	200	192	-4
Copper	0.00	0.00045	0	25.0	26	3	100	97	-3
Iron	0.00	-0.028	0	100	119	19	400	435	9
Lead	0.00	0.0022	0	10.0	8.5	-15	40.0	39	-3
Magnesium	0.00	-0.38	0	5000	5257	5	20000	20480	2
Manganese	0.00	-0.0015	0	15.0	16	8	60.0	61	2
Nickel	0.00	0.0024	0	40.0	40	0	160	155	-3
Potassium	0.00	-0.78	0	5000	5270	5	20000	20610	3
Selenium	0.00	0.00080	0	35.0	35	-1	140	139	0
Silver	0.00	0.00083	0	10.0	9.6	-4	40.0	38	-4
Sodium	0.00	-0.61	0	3000	3346	12	12000	12832	7
Thallium	0.00	0.0041	0	25.0	24	-5	100	92	-8
Vanadium	0.00	-0.0012	0	50.0	52	4	200	197	-2
Zinc	0.00	0.00067	0	60.0	61	2	240	237	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: ICP5 Start Date: 11/9/2015

Analytical Method: ICP-AES Run Batch: I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	49215	-2			0			
Antimony	2500	2415	-3	3750	3672	-2	5000	5170	3
Arsenic	2500	2466	-1	3750	3671	-2	5000	5114	2
Barium	10000	9847	-2	15000	15041	0	20000	20110	1
Beryllium	1000	1041	4	1500	1470	-2	2000	1989	-1
Cadmium	1000	967	-3	1500	1523	2	2000	2123	6
Calcium	50000	50226	0			0			
Chromium	10000	10049	0	15000	14788	-1	20000	20162	1
Cobalt	5000	4737	-5	7500	7451	-1	10000	10320	3
Copper	12500	12109	-3	18750	18562	-1	25000	25582	2
Iron	25000	25145	1			0			
Lead	10000	9297	-7	15000	14957	0	20000	20751	4
Magnesium	50000	50310	1			0			
Manganese	5000	5006	0	7500	7468	0	10000	10024	0
Nickel	5000	4740	-5	7500	7447	-1	10000	10318	3
Potassium	37500	37790	1			0			
Selenium	1250	1231	-2	1875	1837	-2	2500	2559	2
Silver	750	748	0	1125	1109	-1	1500	1520	1
Sodium	25000	25930	4			0			
Thallium	1000	911	-9	1500	1511	1	2000	2088	4
Vanadium	2500	2513	1	3750	3693	-2	5000	5045	1
Zinc	5000	4865	-3	7500	7362	-2	10000	10275	3

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	149240	-1	300000	301490	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	149330	0	300000	299500	0			
Chromium									
Cobalt									
Copper									
Iron	75000	74821	0	150000	149980	0			
Lead									
Magnesium	150000	149300	0	300000	299700	0			
Manganese									
Nickel									
Potassium	112500	111400	-1				56250	55290	-2
Selenium									
Silver									
Sodium	75000	74592	-1				37500	37790	1
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10910	9			
Selenium									
Silver									
Sodium	100000	98010	-2						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

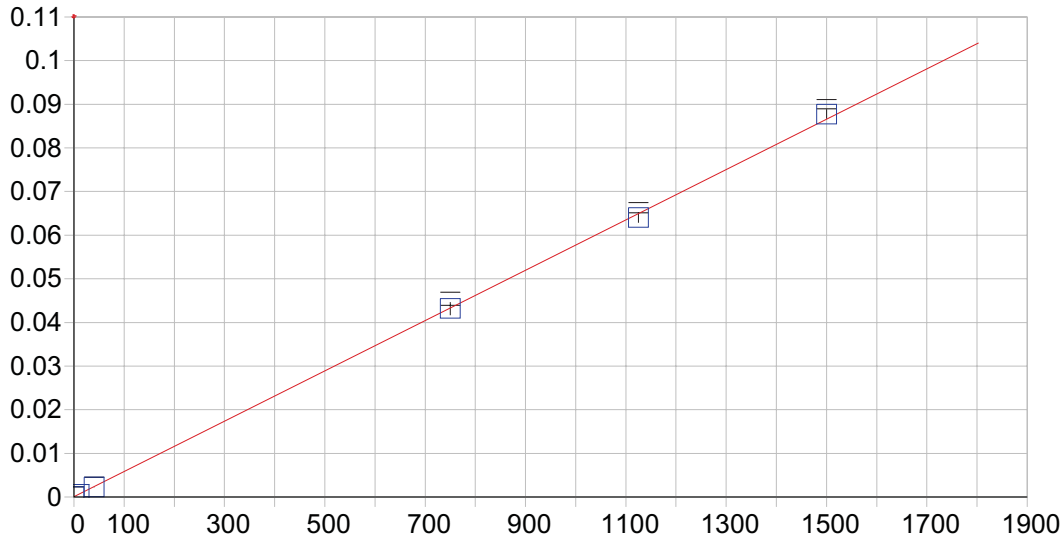
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	1.00	0.00290	Lin. Req	Inverse Conc
Antimony	0.9994	1.01	-0.000271	Lin. Req	Inverse Conc
Arsenic	0.9997	1.01	-0.000114	Lin. Req	Inverse Conc
Barium	1.0000	1.00	-0.00187	Lin. Req	Inverse Conc
Beryllium	0.9998	0.995	0.000533	Lin. Req	Inverse Conc
Cadmium	0.9993	1.04	-0.000244	Lin. Req	Inverse Conc
Calcium	1.0000	0.998	0.00463	Lin. Req	Inverse Conc
Chromium	0.9999	1.00	0.000126	Lin. Req	Inverse Conc
Cobalt	0.9994	1.01	0.000214	Lin. Req	Inverse Conc
Copper	0.9997	1.01	0.000897	Lin. Req	Inverse Conc
Iron	1.0000	0.999	0.000396	Lin. Req	Inverse Conc
Lead	0.9991	1.01	-0.000126	Lin. Req	Inverse Conc
Magnesium	1.0000	0.998	-0.0000630	Lin. Req	Inverse Conc
Manganese	1.0000	1.00	0.0000140	Lin. Req	Inverse Conc
Nickel	0.9994	1.01	-0.000411	Lin. Req	Inverse Conc
Potassium	0.9999	0.988	-0.000756	Lin. Req	Inverse Conc
Selenium	0.9997	1.01	-0.000101	Lin. Req	Inverse Conc
Silver	0.9999	1.00	0.0000450	Lin. Req	Inverse Conc
Sodium	0.9999	0.985	0.00441	Lin. Req	Inverse Conc
Thallium	0.9987	1.02	-0.000150	Lin. Req	Inverse Conc
Vanadium	0.9999	1.00	0.0000380	Lin. Req	Inverse Conc
Zinc	0.9996	1.01	-0.0000730	Lin. Req	Inverse Conc

ICP-AES
Raw Data



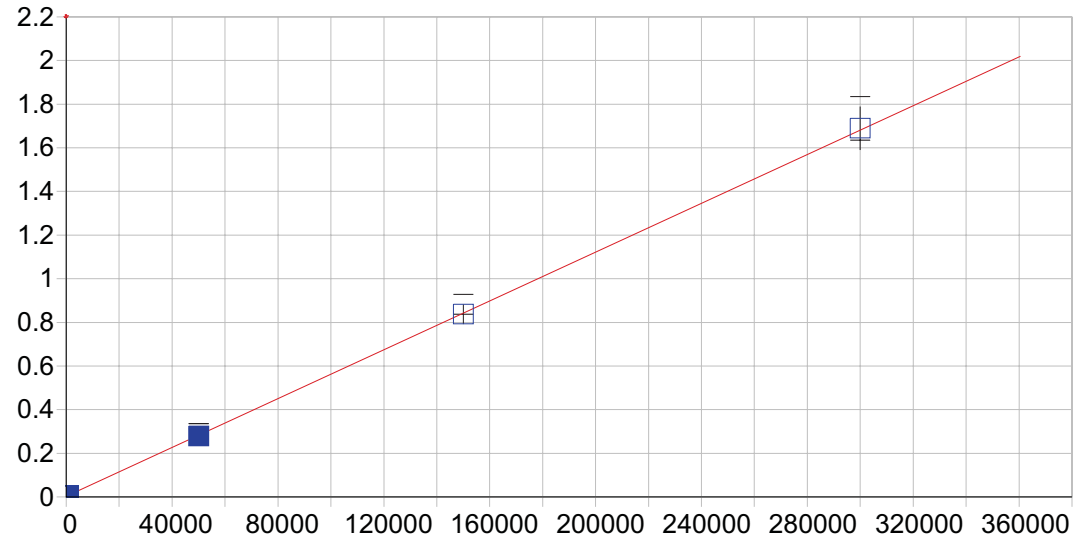
Ag 328.068 {103}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.502436		
Predicted MQL:	1.674787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00083	.001	.000	.00004	.000	1
S01 ISM-458	10.000	9.6202	-.380	-3.80	.00060	.000	1
S02 ISM-459	40.000	38.324	-1.68	-4.19	.00226	.000	1
S03 ISM-515	750.00	747.83	-2.17	-.290	.04319	.002	1
S04 ISM-461	1125.0	1109.2	-15.8	-1.41	.06403	.001	1
S05 ISM-462	1500.0	1520.1	20.1	1.34	.08773	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



Al 308.215 {109}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002897	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	81.915545		
Predicted MQL:	273.051815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.04903	-.049	.000	.00290	.000	1
S01 ISM-458	200.00	250.06	50.1	25.0	.00431	.000	1
S02 ISM-459	800.00	808.52	8.52	1.07	.00748	.000	1
S03 ISM-515	50000.	49215.	-785.	-1.57	.27890	.012	1
S06 ISM-463	150000.	149240.	-765.	-.510	.83778	.046	1
S07 ISM-464	300000.	301490.	1490.	.497	1.6896	.100	1

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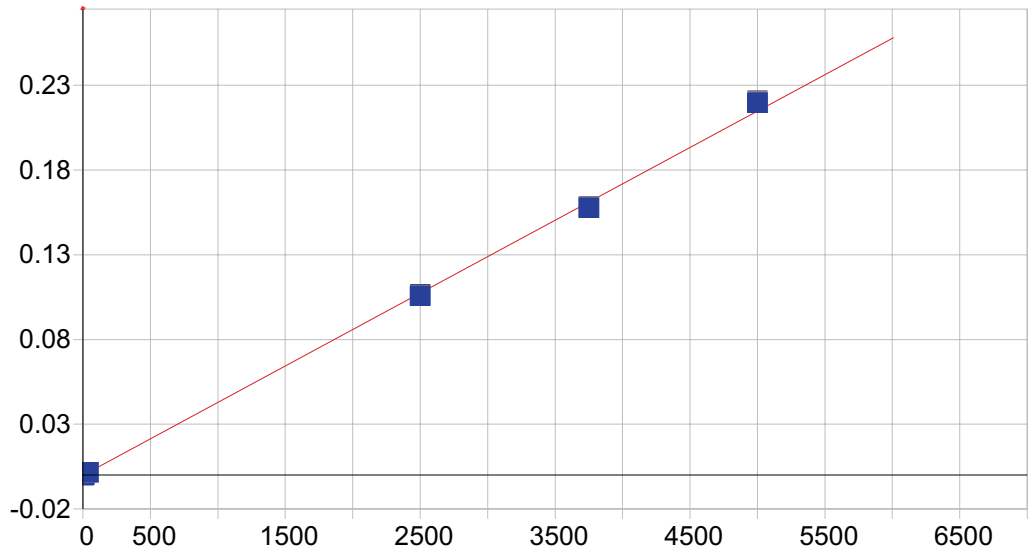

As 189.042 {478}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999786	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	1.311809		
Predicted MQL:	4.372695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00011	.000	1
S01 ISM-458	10.000	8.9385	-1.06	-10.6	.00027	.000	1
S02 ISM-459	40.000	39.733	-.267	-.666	.00160	.000	1
S03 ISM-515	2500.0	2465.6	-34.4	-1.37	.10612	.000	1
S04 ISM-461	3750.0	3671.2	-78.8	-2.10	.15805	.000	1
S05 ISM-462	5000.0	5114.5	114.	2.29	.22021	.001	1

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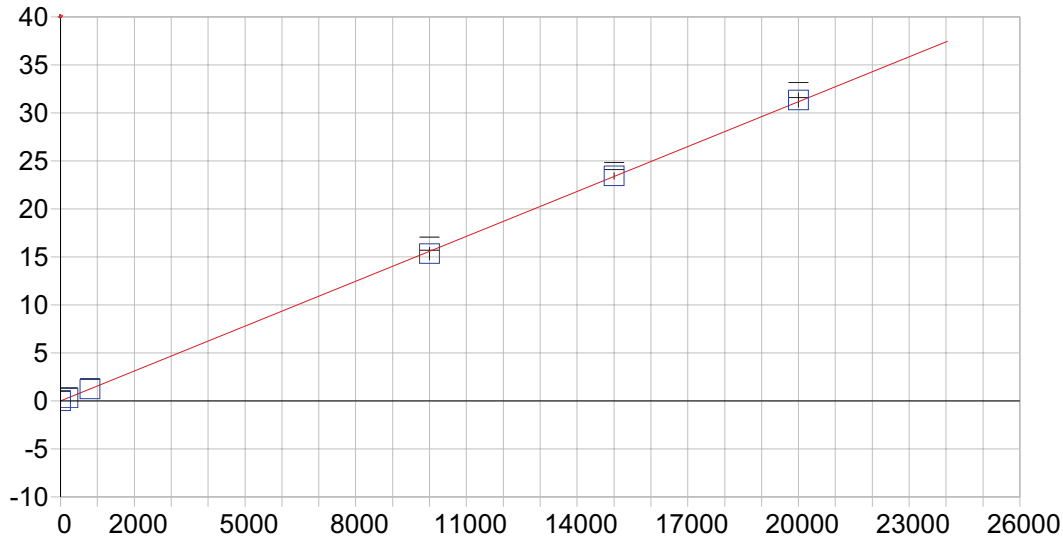

Ba 455.403 { 74}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001867	Re-Slope:	1.000000
A1 (Gain):	0.001559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.001511		
Predicted MDL:	0.787619		
Predicted MQL:	2.625397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00177	-.002	.000	-.00187	.001	1
S01 ISM-458	200.00	203.79	3.79	1.90	.31577	.001	1
S02 ISM-459	800.00	797.54	-2.46	-.307	1.2412	.010	1
S03 ISM-515	10000.	9847.2	-153.	-1.53	15.346	.684	1
S04 ISM-461	15000.	15041.	41.1	.274	23.442	.371	1
S05 ISM-462	20000.	20110.	110.	.552	31.343	.792	1

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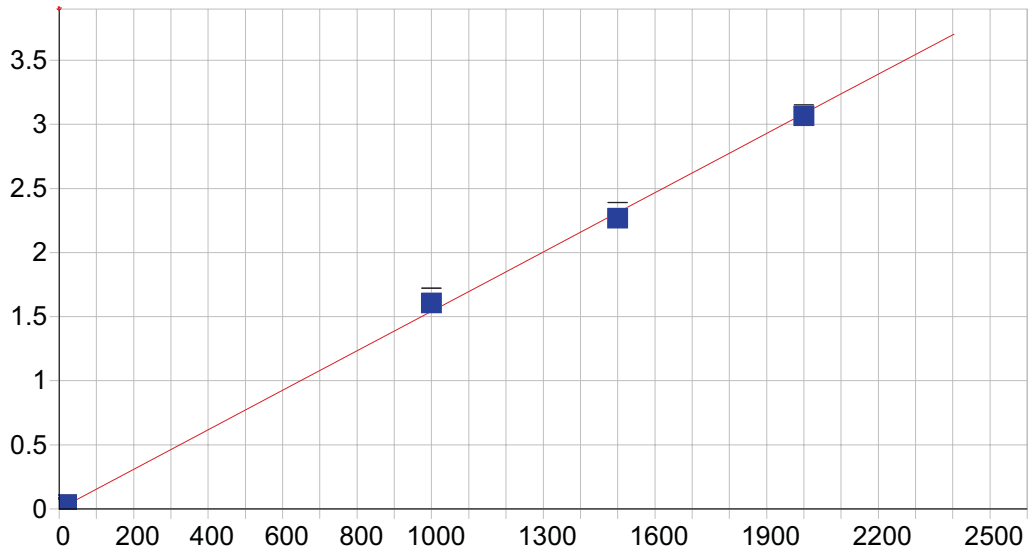

Be 313.042 {108}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000533	Re-Slope:	1.000000
A1 (Gain):	0.001542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999738	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.015945		
Predicted MQL:	0.053149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00044	-.000	.000	.00053	.000	1
S01 ISM-458	5.0000	5.2676	.268	5.35	.00869	.000	1
S02 ISM-459	20.000	20.396	.396	1.98	.03211	.000	1
S03 ISM-515	1000.0	1041.0	41.0	4.10	1.6070	.039	1
S04 ISM-461	1500.0	1469.6	-30.4	-2.02	2.2686	.046	1
S05 ISM-462	2000.0	1988.7	-11.3	-.564	3.0697	.005	1

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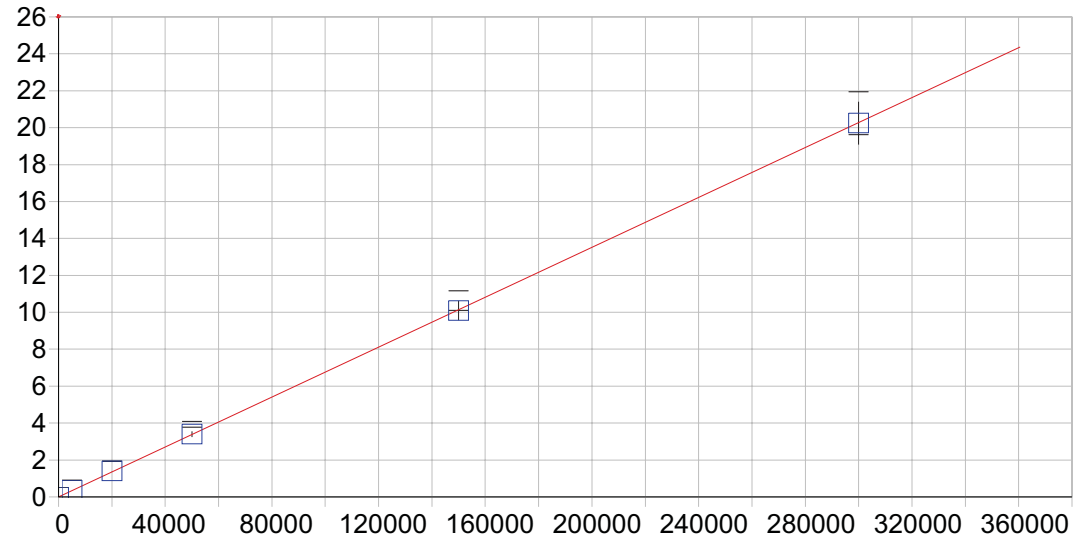

Ca 317.933 {106}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004626	Re-Slope:	1.000000
A1 (Gain):	0.000068	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.001208		
Predicted MDL:	8.341386		
Predicted MQL:	27.804619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.44029	-.440	.000	.00460	.000	1
S01 ISM-458	5000.0	5283.7	284.	5.67	.36164	.003	1
S02 ISM-459	20000.	20659.	659.	3.29	1.4005	.009	1
S03 ISM-515	50000.	50226.	226.	.452	3.3984	.152	1
S06 ISM-463	150000.	149330.	-668.	-.445	10.095	.530	1
S07 ISM-464	300000.	299500.	-500.	-.167	20.242	1.16	1

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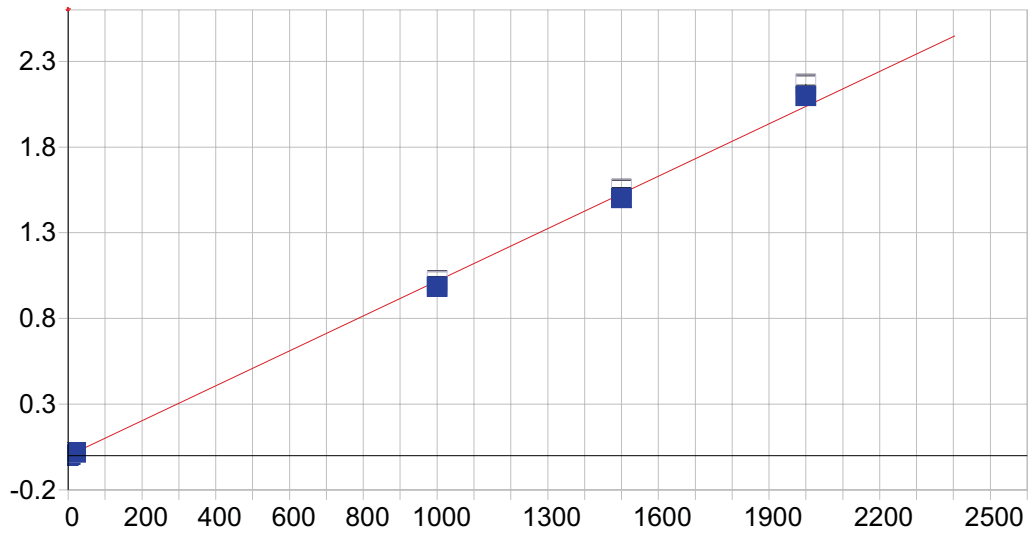

Cd 228.802 {447}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000244	Re-Slope:	1.000000
A1 (Gain):	0.001019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999649	Status:	OK.
Std Error of Est:	0.000162		
Predicted MDL:	0.195378		
Predicted MQL:	0.651261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00081	.001	.000	-.00024	.000	1
S01 ISM-458	5.0000	4.6265	-.373	-7.47	.00460	.000	1
S02 ISM-459	20.000	18.636	-1.36	-6.82	.01926	.000	1
S03 ISM-515	1000.0	966.97	-33.0	-3.30	1.0174	.003	1
S04 ISM-461	1500.0	1475.4	-24.6	-1.64	1.5514	.004	1
S05 ISM-462	2000.0	2059.4	59.4	2.97	2.1626	.005	1

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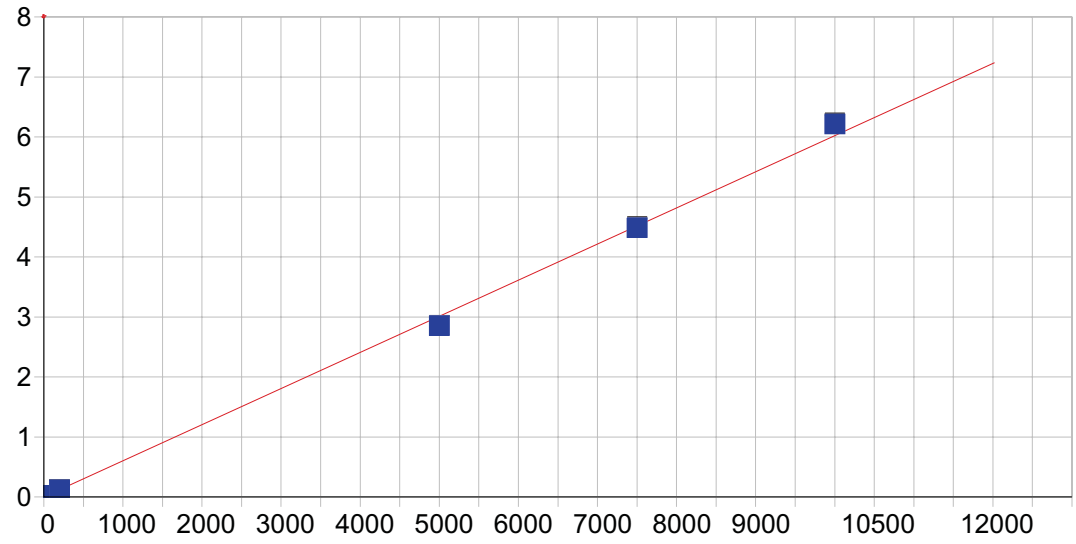

Co 228.616 {447}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000214	Re-Slope:	1.000000
A1 (Gain):	0.000602	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999459	Status:	OK.
Std Error of Est:	0.000818		
Predicted MDL:	0.193556		
Predicted MQL:	0.645186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00293	.003	.000	.00022	.000	1
S01 ISM-458	50.000	50.346	.346	.692	.03059	.000	1
S02 ISM-459	200.00	192.35	-7.65	-3.83	.11615	.000	1
S03 ISM-515	5000.0	4737.0	-263.	-5.26	2.8534	.007	1
S04 ISM-461	7500.0	7450.6	-49.4	-.659	4.4877	.012	1
S05 ISM-462	10000.	10320.	320.	3.20	6.2157	.016	1

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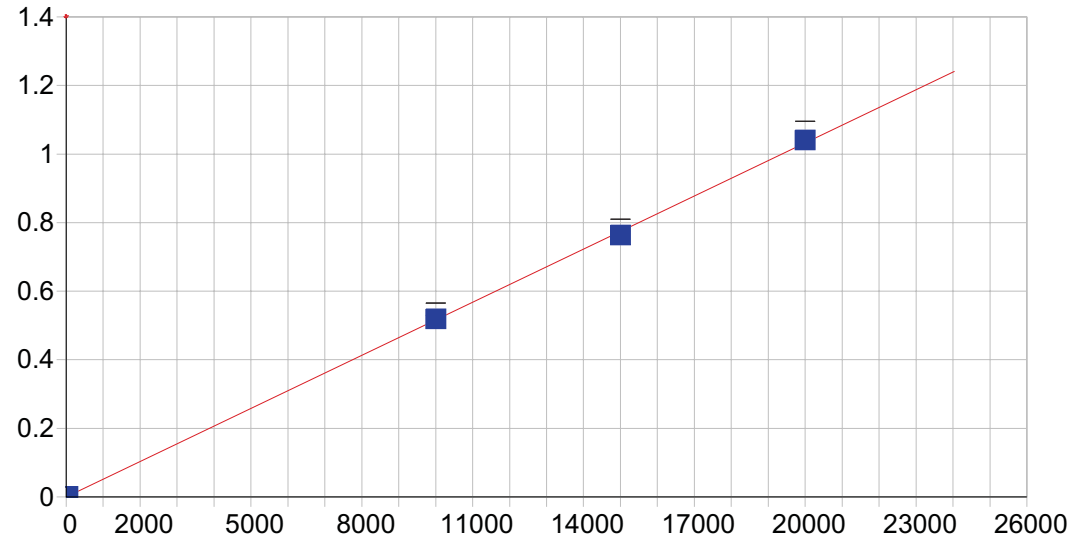


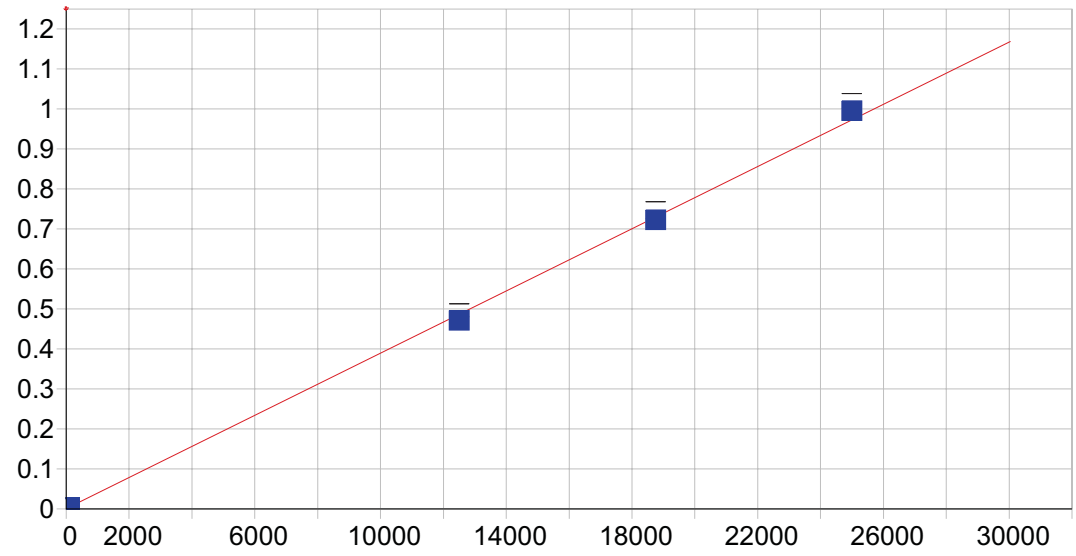
Cr 267.716 {126}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.354982		
Predicted MQL:	1.183274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00085	-.001	.000	.00013	.000	1
S01 ISM-458	10.000	10.584	.584	5.84	.00067	.000	1
S02 ISM-459	40.000	41.106	1.11	2.76	.00225	.000	1
S03 ISM-515	10000.	10049.	48.9	.489	.51888	.018	1
S04 ISM-461	15000.	14788.	-212.	-1.41	.76352	.018	1
S05 ISM-462	20000.	20162.	162.	.808	1.0409	.026	1

PDF created with pdfFactory trial version www.pdffactory.com



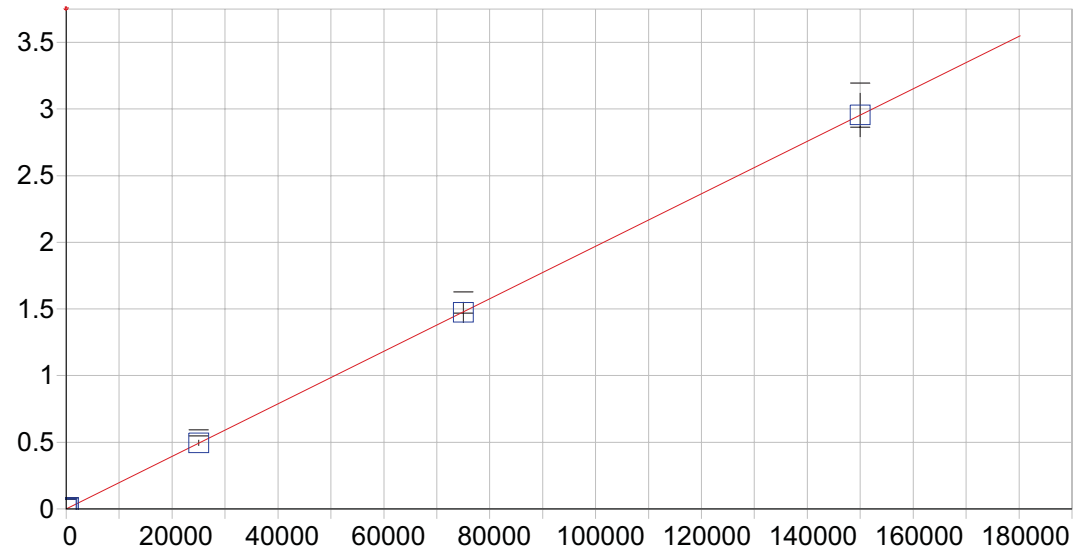
Cu 327.396 {103}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000897	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999753	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.756885		
Predicted MQL:	2.522951		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00044	.000	.000	.00090	.000	1
S01 ISM-458	25.000	25.797	.797	3.19	.00191	.000	1
S02 ISM-459	100.00	96.874	-3.13	-3.13	.00469	.000	1
S03 ISM-515	12500.	12108.	-392.	-3.13	.47168	.017	1
S04 ISM-461	18750.	18562.	-188.	-1.00	.72251	.021	1
S05 ISM-462	25000.	25582.	582.	2.33	.99541	.019	1

PDF created with pdfFactory trial version www.pdffactory.com



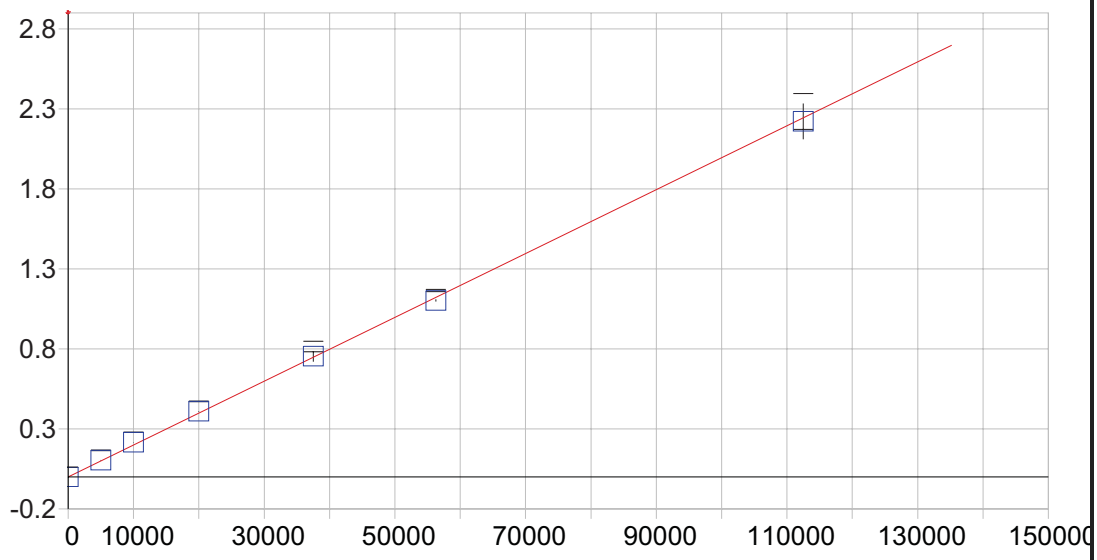
Fe 261.187 {129}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000396	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	16.552052		
Predicted MQL:	55.173507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02767	-.028	.000	.00040	.000	1
S01 ISM-458	100.00	118.61	18.6	18.6	.00273	.000	1
S02 ISM-459	400.00	434.92	34.9	8.73	.00896	.000	1
S03 ISM-515	25000.	25145.	145.	.581	.49572	.023	1
S06 ISM-463	75000.	74821.	-179.	-.238	1.4742	.080	1
S07 ISM-464	150000.	149980.	-20.2	-.013	2.9547	.165	1

PDF created with pdfFactory trial version www.pdffactory.com



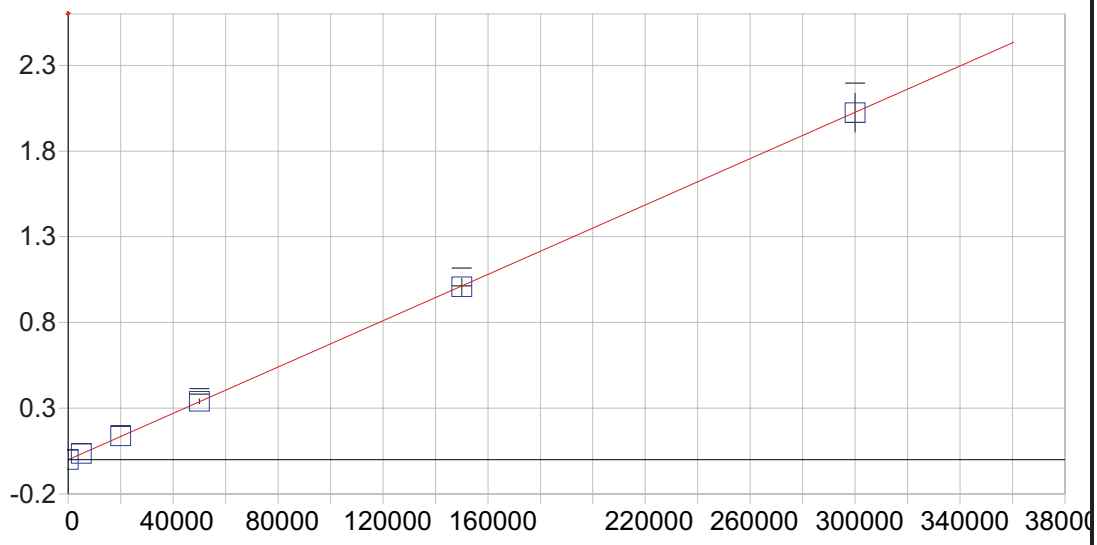
K 766.490 { 44}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000756	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000637		
Predicted MDL:	74.813593		
Predicted MQL:	249.378643		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.78061	-.781	.000	-.00077	.001	1
S02 ISM-459	20000.	20609.	609.	3.04	.41054	.002	1
S01 ISM-458	5000.0	5270.0	270.	5.40	.10442	.002	1
S03 ISM-515	37500.	37788.	288.	.769	.75339	.033	1
S08 ISM-465	56250.	55286.	-964.	-1.71	1.1026	.008	1
S06 ISM-463	112500.	111390.	-1110.	-.990	2.2222	.112	1
S10 ISM-457	10000.	10910.	910.	9.10	.21698	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



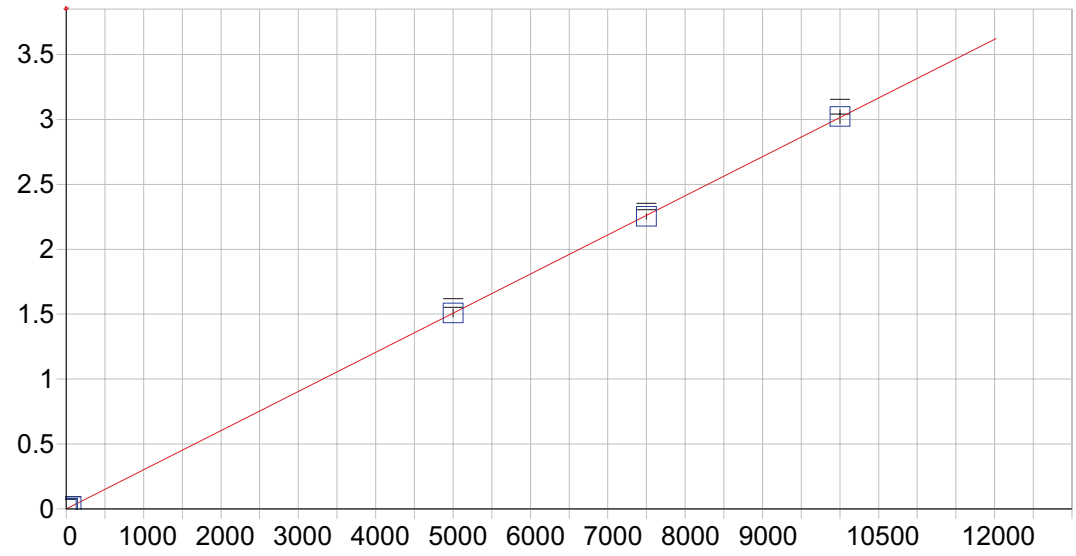
Mg 279.079 {121}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000063	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	43.409633		
Predicted MQL:	144.698776		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.37963	-.380	.000	-.00007	.000	1
S01 ISM-458	5000.0	5257.5	257.	5.15	.03544	.000	1
S02 ISM-459	20000.	20483.	483.	2.41	.13826	.001	1
S03 ISM-515	50000.	50307.	307.	.613	.33967	.016	1
S06 ISM-463	150000.	149290.	-708.	-.472	1.0082	.052	1
S07 ISM-464	300000.	299660.	-339.	-.113	2.0236	.115	1

PDF created with pdfFactory trial version www.pdffactory.com



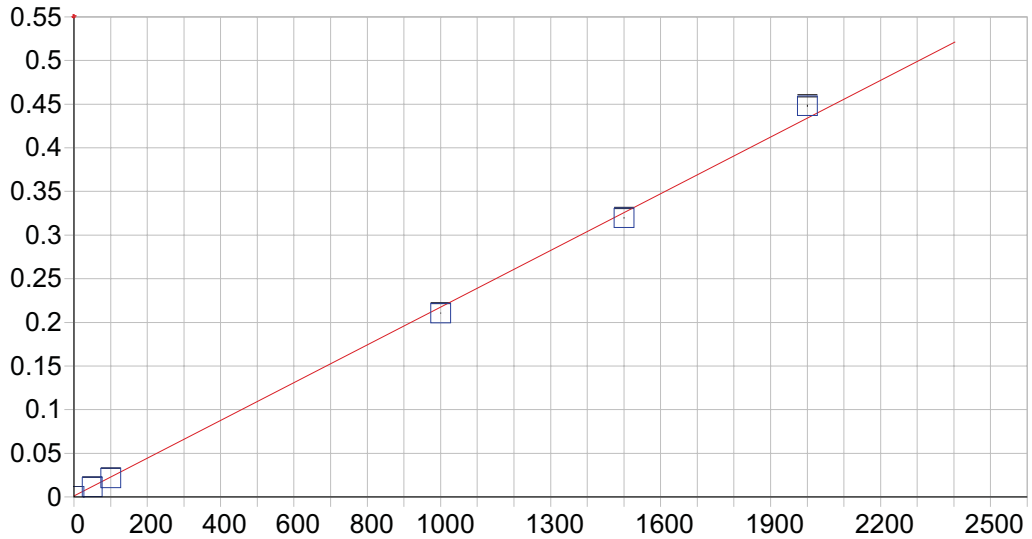
Mn 257.610 {131}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000301	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.058550		
Predicted MQL:	0.195168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00152	-.002	.000	.00001	.000	1
S01 ISM-458	15.000	16.247	1.25	8.31	.00491	.000	1
S02 ISM-459	60.000	61.150	1.15	1.92	.01845	.000	1
S03 ISM-515	5000.0	5005.8	5.76	.115	1.5092	.034	1
S04 ISM-461	7500.0	7468.3	-31.7	-.422	2.2517	.025	1
S05 ISM-462	10000.	10024.	23.5	.235	3.0221	.057	1

PDF created with pdfFactory trial version www.pdffactory.com



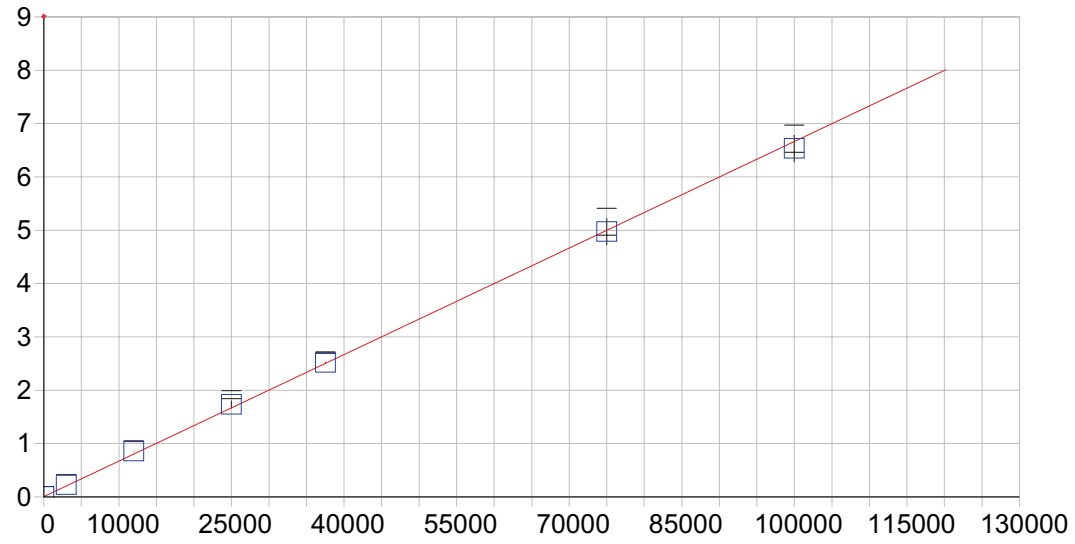
Mo 202.030 {467}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000929	Re-Slope:	1.000000
A1 (Gain):	0.000217	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999580	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.297983		
Predicted MQL:	0.993276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00508	.005	.000	.00093	.000	1
S01 ISM-458	50.000	47.873	-2.13	-4.25	.01130	.000	1
S02 ISM-459	100.00	95.824	-4.18	-4.18	.02168	.000	1
S03 ISM-515	1000.0	968.34	-31.7	-3.17	.21062	.001	1
S04 ISM-461	1500.0	1472.5	-27.5	-1.83	.31981	.001	1
S05 ISM-462	2000.0	2065.4	65.4	3.27	.44820	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



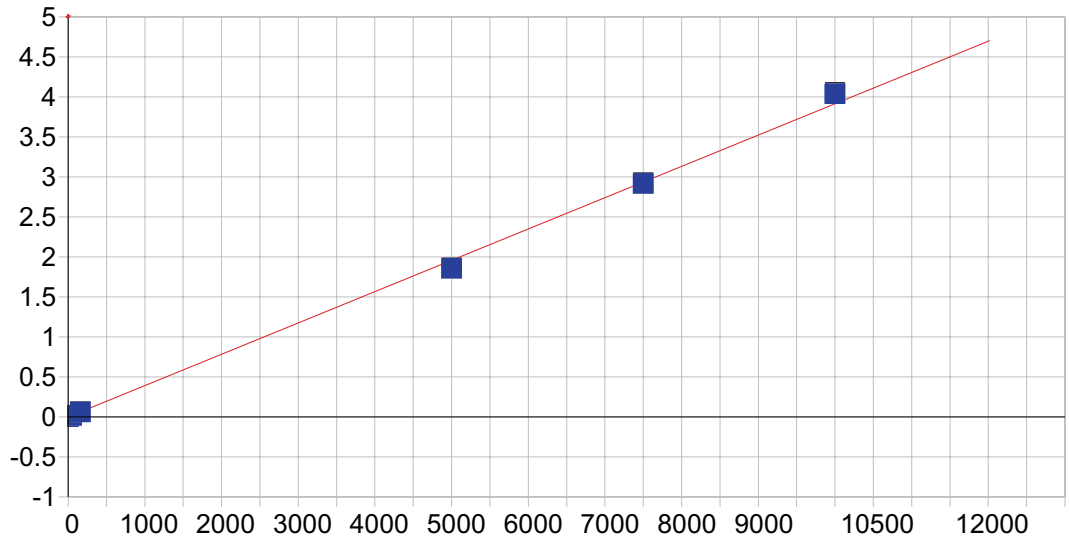
Na 589.592 { 57}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004415	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999651	Status:	OK.
Std Error of Est:	0.001811		
Predicted MDL:	27.330920		
Predicted MQL:	91.103067		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.61297	-.613	.000	.00437	.001	1
S01 ISM-458	3000.0	3346.2	346.	11.5	.22728	.002	1
S02 ISM-459	12000.	12832.	832.	6.93	.85903	.005	1
S03 ISM-515	25000.	25930.	930.	3.72	1.7314	.075	1
S06 ISM-463	75000.	74592.	-408.	-.544	4.9723	.252	1
S08 ISM-465	37500.	37790.	290.	.774	2.5213	.014	1
S09 ISM-456	100000.	98010.	-1990.	-1.99	6.5319	.256	1

PDF created with pdfFactory trial version www.pdffactory.com



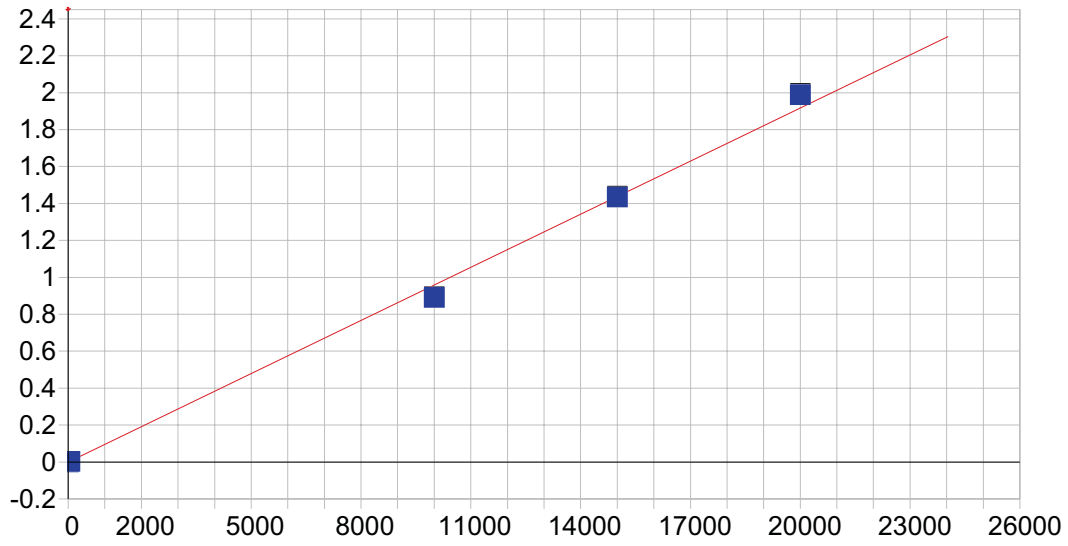
Ni 231.604 {445}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000411	Re-Slope:	1.000000
A1 (Gain):	0.000392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999468	Status:	OK.
Std Error of Est:	0.000471		
Predicted MDL:	0.305954		
Predicted MQL:	1.019847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00237	.002	.000	-.00041	.000	1
S01 ISM-458	40.000	40.059	.059	.147	.01528	.000	1
S02 ISM-459	160.00	154.64	-5.36	-3.35	.06017	.000	1
S03 ISM-515	5000.0	4740.0	-260.	-5.20	1.8561	.004	1
S04 ISM-461	7500.0	7447.2	-52.8	-.704	2.9170	.007	1
S05 ISM-462	10000.	10318.	318.	3.18	4.0415	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



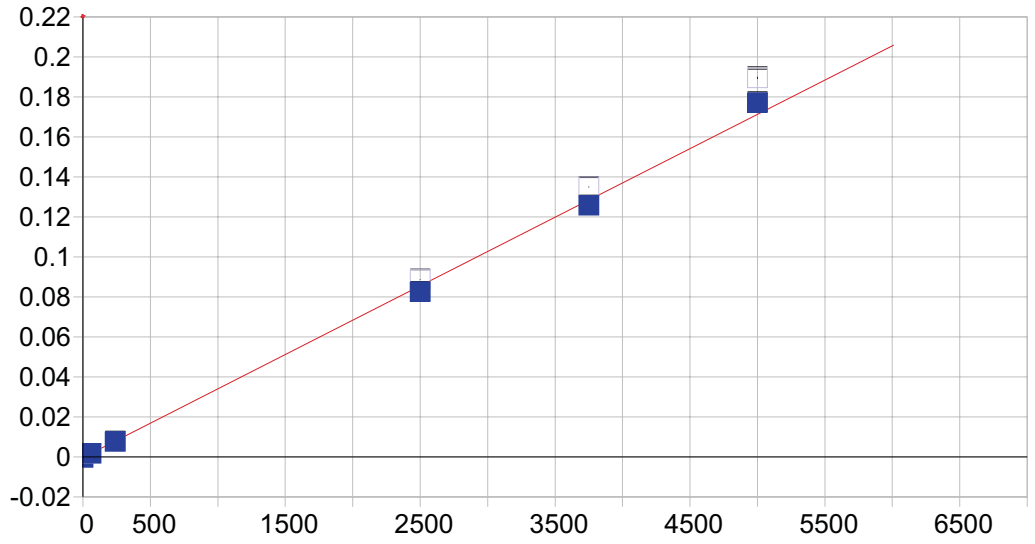
Pb 220.353 {453}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999136	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	1.581061		
Predicted MQL:	5.270203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00215	.002	.000	-.00013	.000	1
S01 ISM-458	10.000	8.5162	-1.48	-14.8	.00070	.000	1
S02 ISM-459	40.000	38.743	-1.26	-3.14	.00363	.000	1
S03 ISM-515	10000.	9296.1	-704.	-7.04	.89368	.002	1
S04 ISM-461	15000.	14957.	-42.8	-.285	1.4345	.004	1
S05 ISM-462	20000.	20751.	751.	3.75	1.9901	.006	1

PDF created with pdfFactory trial version www.pdffactory.com



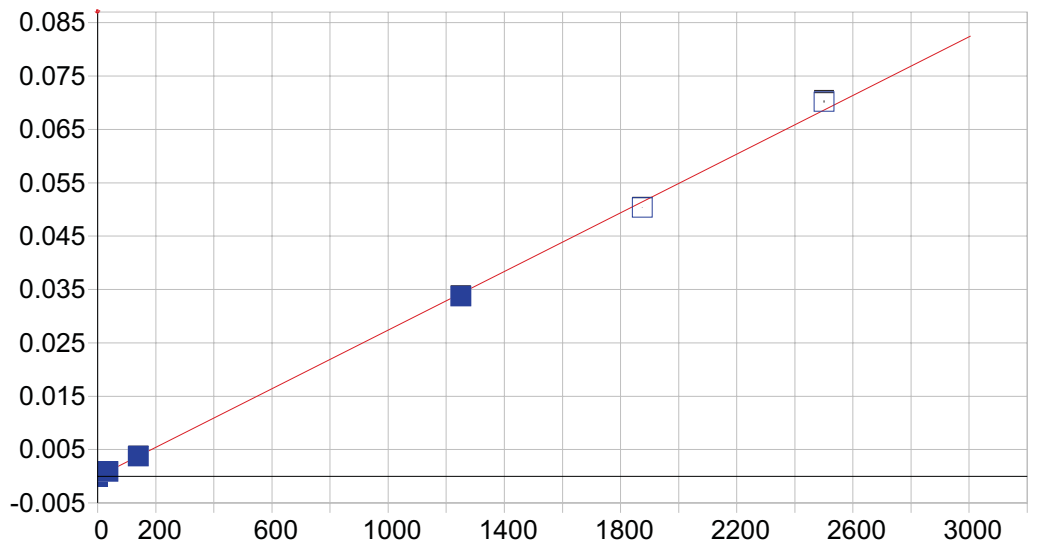
Sb 206.833 {463}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000034	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999604	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	2.149645		
Predicted MQL:	7.165483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00575	.006	.000	-.00027	.000	1
S01 ISM-458	60.000	57.128	-2.87	-4.79	.00168	.000	1
S02 ISM-459	240.00	233.31	-6.69	-2.79	.00774	.000	1
S03 ISM-515	2500.0	2416.6	-83.4	-3.34	.08878	.000	1
S04 ISM-461	3750.0	3672.4	-77.6	-2.07	.13501	.000	1
S05 ISM-462	5000.0	5169.9	170.	3.40	.18949	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



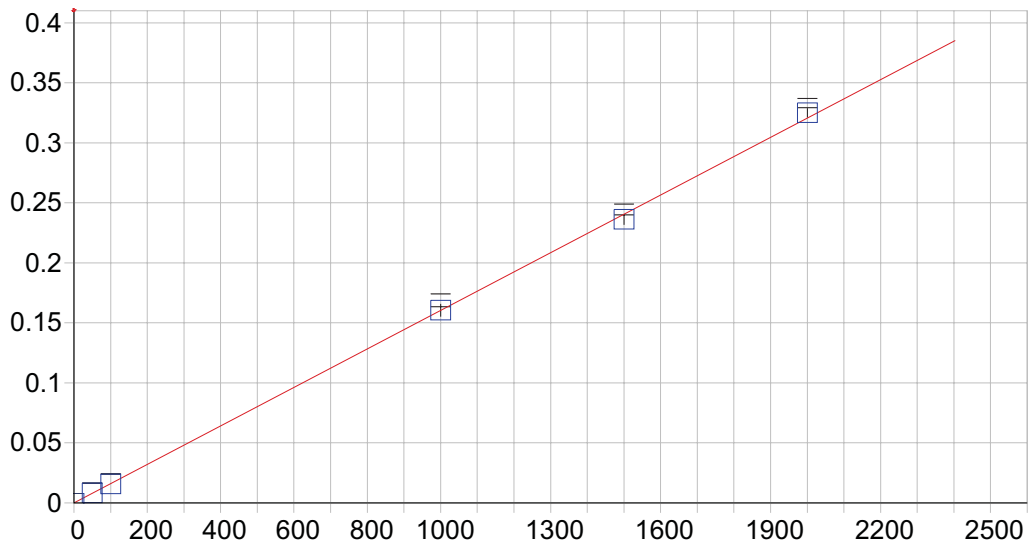
Se 196.090 {472}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.192881		
Predicted MQL:	7.309603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00080	.001	.000	-.00010	.000	1
S01 ISM-458	35.000	34.779	-.221	-.630	.00085	.000	1
S02 ISM-459	140.00	139.45	-.553	-.395	.00373	.000	1
S03 ISM-515	1250.0	1230.5	-19.5	-1.56	.03373	.000	1
S04 ISM-461	1875.0	1836.7	-38.3	-2.04	.05038	.000	1
S05 ISM-462	2500.0	2558.6	58.6	2.34	.07022	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



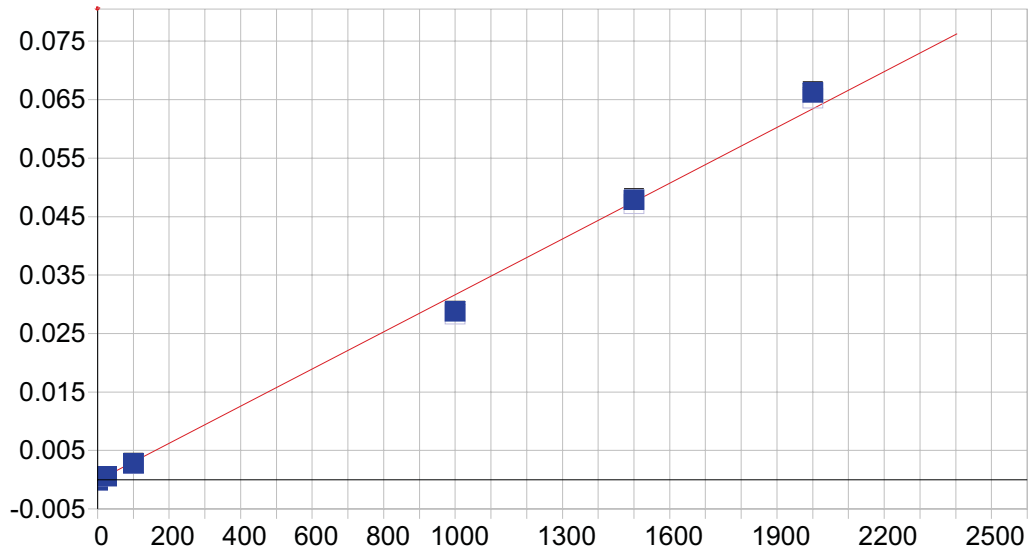
Ti 337.280 {100}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000064	Re-Slope:	1.000000
A1 (Gain):	0.000160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.214765		
Predicted MQL:	0.715882		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00006	.000	1
S01 ISM-458	50.000	51.083	1.08	2.17	.00825	.000	1
S02 ISM-459	100.00	98.055	-1.94	-1.94	.01578	.000	1
S03 ISM-515	1000.0	1001.2	1.17	.117	.16051	.005	1
S04 ISM-461	1500.0	1472.6	-27.4	-1.82	.23606	.005	1
S05 ISM-462	2000.0	2027.1	27.1	1.35	.32491	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



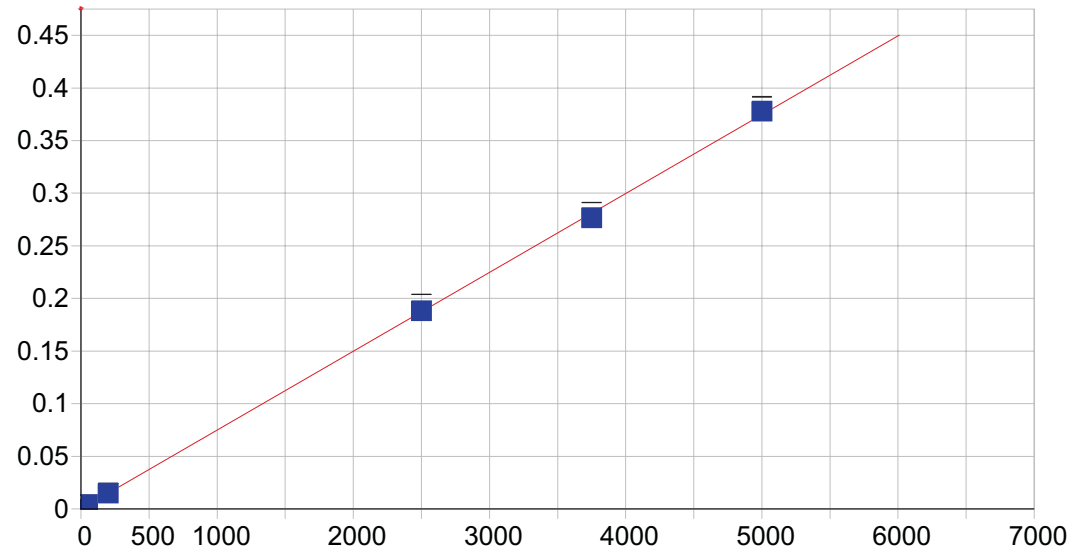
TI 190.856 {477}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000150	Re-Slope:	1.000000
A1 (Gain):	0.000032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998578	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	1.435083		
Predicted MQL:	4.783610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00417	.004	.000	-.00015	.000	1
S01 ISM-458	25.000	23.785	-1.22	-4.86	.00059	.000	1
S02 ISM-459	100.00	92.034	-7.97	-7.97	.00272	.000	1
S03 ISM-515	1000.0	909.92	-90.1	-9.01	.02828	.000	1
S04 ISM-461	1500.0	1511.2	11.2	.747	.04715	.000	1
S05 ISM-462	2000.0	2088.0	88.0	4.40	.06524	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



V 292.402 {115}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.345185		
Predicted MQL:	1.150618		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00119	-.001	.000	.00004	.000	1
S01 ISM-458	50.000	52.018	2.02	4.04	.00392	.000	1
S02 ISM-459	200.00	196.87	-3.13	-1.57	.01476	.000	1
S03 ISM-515	2500.0	2513.2	13.2	.527	.18803	.006	1
S04 ISM-461	3750.0	3692.8	-57.2	-1.53	.27626	.005	1
S05 ISM-462	5000.0	5045.2	45.2	.903	.37743	.004	1

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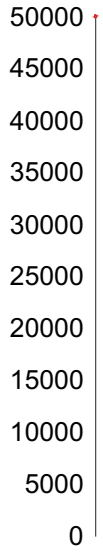
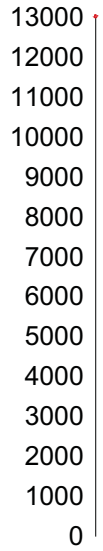


Y 224.306 {450}*

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

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

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	38814.	47.4	1



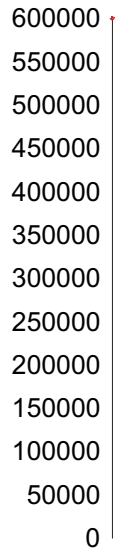
Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/10/2015 10:45:06		Type of Fit:	Linear	Weighting:	1/Conc

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

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	11802.	382.	1



Y 371.030 { 91}2*

Date of Fit:	11/10/2015 10:45:06		Type of Fit:	Linear	Weighting:	1/Conc

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

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	557550.	8110.	1

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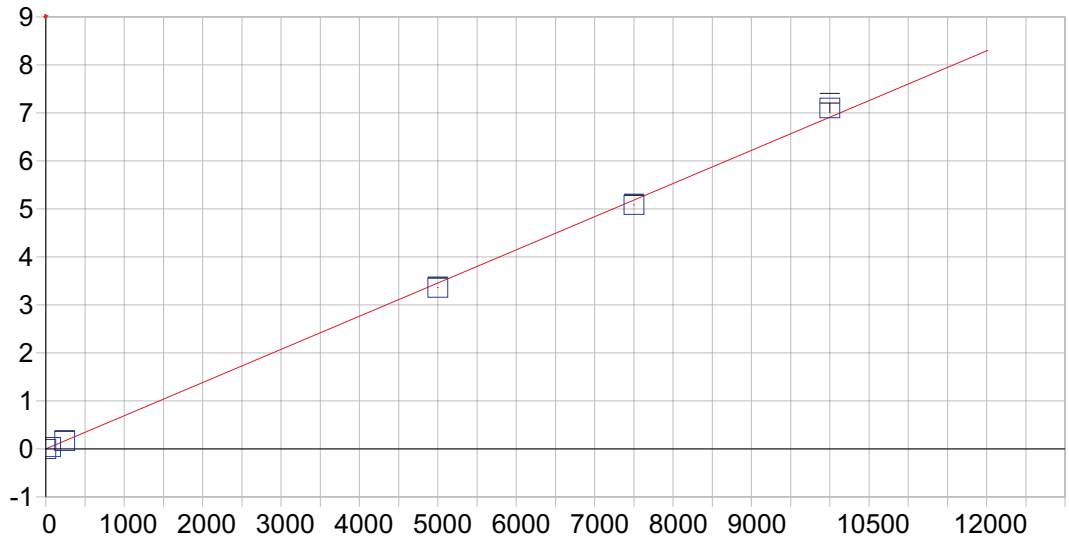

Zn 206.200 {463}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000073	Re-Slope:	1.000000
A1 (Gain):	0.000691	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000769		
Predicted MDL:	0.108667		
Predicted MQL:	0.362225		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	-.00007	.000	1
S01 ISM-458	60.000	61.129	1.13	1.88	.04217	.000	1
S02 ISM-459	240.00	237.12	-2.88	-1.20	.16379	.000	1
S03 ISM-515	5000.0	4865.0	-135.	-2.70	3.3620	.008	1
S04 ISM-461	7500.0	7362.1	-138.	-1.84	5.0877	.012	1
S05 ISM-462	10000.	10275.	275.	2.75	7.1004	.098	1

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Sample Name: S0 Acquired: 11/9/2015 11:52:21 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00290	-.00011	-.00187	.00053	.00460	-.0002
Stddev	.00000	.00023	.00004	.00057	.00001	.00042	.0001
%RSD	6.1155	7.8111	32.017	30.545	2.6715	9.1415	43.78
#1	.00004	.00264	-.00014	-.00173	.00053	.00506	-.0002
#2	.00005	.00299	-.00007	-.00138	.00052	.00448	-.0004
#3	.00004	.00306	-.00013	-.00250	.00055	.00424	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00022	.00013	.00090	.00040	-.0008	-.0001	.00001
Stddev	.00012	.00001	.00002	.00017	.0005	.0002	.00001
%RSD	57.594	5.5343	1.8886	42.630	66.74	248.7	67.896
#1	.00023	.00013	.00092	.00028	-.0004	-.0002	.00002
#2	.00009	.00012	.00089	.00059	-.0014	-.0000	.00000
#3	.00034	.00013	.00088	.00032	-.0006	.0001	.00002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00093	.00437	-.00041	-.00013	-.00027	-.00010	.0001
Stddev	.00005	.00054	.00011	.00014	.00012	.00006	.0000
%RSD	5.1007	12.419	26.767	111.43	44.106	60.158	5.425
#1	.00097	.00458	-.00032	-.00011	-.00040	-.00004	.0001
#2	.00094	.00376	-.00053	-.00028	-.00018	-.00016	.0001
#3	.00088	.00478	-.00038	.00000	-.00023	-.00010	.0001

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Sample Name: S0 Acquired: 11/9/2015 11:52:21 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00015	.00004	-.00007
Stddev	.00004	.00001	.00006
%RSD	23.892	30.580	76.472
#1	-.00012	.00003	-.00010
#2	-.00013	.00003	-.00011
#3	-.00019	.00005	-.00001
Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38814.	11802.	557550.
Stddev	47.	382.	8109.
%RSD	.12211	3.2385	1.4544
#1	38863.	11506.	549490.
#2	38808.	11667.	565710.
#3	38769.	12234.	557460.

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Sample Name: S01 ISM-458 Acquired: 11/9/2015 11:57:07 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00060	.00431	.00027	.31577	.00869	.36164	.0046
Stddev	.00002	.00040	.00003	.00125	.00005	.00336	.0000
%RSD	2.7176	9.3737	12.012	.39669	.62734	.92797	.7761
#1	.00062	.00419	.00025	.31457	.00863	.35807	.0046
#2	.00060	.00476	.00026	.31707	.00868	.36213	.0046
#3	.00059	.00399	.00031	.31566	.00874	.36472	.0046

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03059	.00067	.00191	.00273	.1044	.0354	.00491
Stddev	.00009	.00002	.00004	.00002	.0017	.0002	.00003
%RSD	.28365	2.3862	1.9855	.76291	1.604	.6735	.54467
#1	.03067	.00069	.00191	.00271	.1037	.0352	.00491
#2	.03061	.00067	.00187	.00274	.1033	.0354	.00489
#3	.03050	.00066	.00194	.00275	.1063	.0357	.00494

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01130	.22728	.01528	.00070	.00168	.00085	.0083
Stddev	.00006	.00227	.00014	.00012	.00001	.00003	.0000
%RSD	.53526	1.0002	.88824	16.534	.70673	3.0968	.5638
#1	.01130	.22631	.01539	.00059	.00167	.00084	.0082
#2	.01135	.22564	.01533	.00068	.00168	.00088	.0083
#3	.01123	.22987	.01513	.00082	.00170	.00084	.0083

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Sample Name: S01 ISM-458 Acquired: 11/9/2015 11:57:07 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00059	.00392	.04217
Stddev	.00003	.00003	.00011
%RSD	5.1336	.67819	.26421
#1	.00057	.00391	.04230
#2	.00058	.00390	.04213
#3	.00063	.00395	.04209

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38075.	11306.	537880.
Stddev	182.	137.	7559.
%RSD	.47810	1.2138	1.4054
#1	38109.	11259.	537180.
#2	37878.	11461.	545760.
#3	38238.	11199.	530690.

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Sample Name: S02 ISM-459 Acquired: 11/9/2015 12:01:51 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00226	.00748	.00160	1.2412	.03211	1.4005	.0193
Stddev	.00005	.00024	.00001	.0096	.00043	.0095	.0002
%RSD	2.0522	3.2333	.75377	.76985	1.3397	.67765	1.254
#1	.00225	.00720	.00160	1.2496	.03217	1.4114	.0191
#2	.00221	.00765	.00161	1.2308	.03165	1.3937	.0191
#3	.00230	.00757	.00158	1.2432	.03250	1.3965	.0195

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11615	.00225	.00469	.00896	.4105	.1383	.01845
Stddev	.00017	.00003	.00001	.00020	.0023	.0014	.00023
%RSD	.14269	1.1578	.13444	2.2104	.5657	1.035	1.2201
#1	.11633	.00226	.00470	.00901	.4131	.1399	.01850
#2	.11612	.00222	.00469	.00913	.4085	.1376	.01820
#3	.11600	.00226	.00469	.00875	.4101	.1373	.01865

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02168	.85903	.06017	.00363	.00774	.00373	.0158
Stddev	.00007	.00451	.00015	.00004	.00005	.00003	.0002
%RSD	.30790	.52546	.24697	1.1100	.69171	.92426	1.150
#1	.02172	.86416	.06031	.00367	.00770	.00376	.0158
#2	.02160	.85565	.06019	.00359	.00780	.00369	.0156
#3	.02172	.85729	.06001	.00363	.00771	.00374	.0159

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Sample Name: S02 ISM-459 Acquired: 11/9/2015 12:01:51 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00272	.01476	.16379
Stddev	.00003	.00018	.00038
%RSD	1.2735	1.2365	.23492
#1	.00269	.01473	.16424
#2	.00271	.01459	.16355
#3	.00276	.01495	.16360

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37883.	11196.	538990.
Stddev	137.	82.	1772.
%RSD	.36245	.73461	.32879
#1	37756.	11225.	540650.
#2	38029.	11103.	539190.
#3	37864.	11260.	537120.

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Sample Name: S03 ISM-515 Acquired: 11/9/2015 12:06:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04319	.27890	.10612	15.346	1.6070	3.3984	1.017
Stddev	.00150	.01216	.00046	.684	.0393	.1519	.003
%RSD	3.4826	4.3598	.43255	4.4571	2.4483	4.4682	.2812
#1	.04492	.26493	.10582	14.558	1.6523	3.2238	1.017
#2	.04228	.28709	.10590	15.779	1.5863	3.5000	1.015
#3	.04236	.28468	.10665	15.702	1.5823	3.4713	1.021

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8534	.51888	.47168	.49572	.7534	.3397	1.5092
Stddev	.0069	.01769	.01656	.02336	.0330	.0158	.0336
%RSD	.24132	3.4096	3.5117	4.7119	4.378	4.666	2.2230
#1	2.8505	.53931	.49080	.46884	.7153	.3216	1.5467
#2	2.8484	.50855	.46199	.51110	.7733	.3510	1.4820
#3	2.8612	.50878	.46224	.50721	.7716	.3464	1.4990

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.21062	1.7314	1.8561	.89368	.08878	.03373	.1605
Stddev	.00062	.0748	.0043	.00213	.00014	.00008	.0053
%RSD	.29200	4.3197	.23166	.23782	.15571	.25178	3.303
#1	.21020	1.6456	1.8542	.89226	.08883	.03365	.1666
#2	.21034	1.7832	1.8531	.89265	.08862	.03371	.1573
#3	.21133	1.7653	1.8611	.89612	.08888	.03382	.1576

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Sample Name: S03 ISM-515 Acquired: 11/9/2015 12:06:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.02828	.18803	3.3620
Stddev	.00004	.00626	.0084
%RSD	.12454	3.3289	.25081
#1	.02831	.19526	3.3596
#2	.02824	.18434	3.3551
#3	.02830	.18449	3.3714

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36345.	11342.	518600.
Stddev	114.	386.	16534.
%RSD	.31347	3.4028	3.1883
#1	36476.	11786.	499760.
#2	36264.	11091.	530720.
#3	36296.	11148.	525300.

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Sample Name: S04 ISM-461 Acquired: 11/9/2015 12:11:41 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06403	.15805	23.442	2.2686	1.551	4.4877	.76352
Stddev	.00118	.00032	.371	.0457	.004	.0121	.01764
%RSD	1.8440	.20546	1.5835	2.0156	.2424	.26882	2.3099
#1	.06450	.15768	23.018	2.2676	1.547	4.4743	.75387
#2	.06269	.15817	23.709	2.2234	1.554	4.4912	.75282
#3	.06491	.15830	23.598	2.3149	1.554	4.4977	.78388

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.72251	2.2517	.31981	2.9170	1.4345	.13501	.05038
Stddev	.02122	.0246	.00068	.0071	.0043	.00026	.00005
%RSD	2.9369	1.0945	.21328	.24199	.30107	.19081	.10561
#1	.71479	2.2652	.31903	2.9090	1.4297	.13472	.05034
#2	.70623	2.2233	.32008	2.9193	1.4358	.13517	.05036
#3	.74651	2.2667	.32031	2.9226	1.4380	.13515	.05044

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2361	.04715	.27626	5.0877
Stddev	.0045	.00020	.00535	.0123
%RSD	1.920	.42715	1.9378	.24228
#1	.2378	.04693	.27854	5.0735
#2	.2309	.04719	.27014	5.0937
#3	.2394	.04733	.28009	5.0959

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Sample Name: S04 ISM-461 Acquired: 11/9/2015 12:11:41 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37383.	11149.	551650.
Stddev	127.	119.	8810.
%RSD	.33865	1.0700	1.5971
#1	37524.	11206.	549760.
#2	37279.	11012.	561240.
#3	37347.	11229.	543930.

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Sample Name: S05 ISM-462 Acquired: 11/9/2015 12:17:06 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08773	.22021	31.343	3.0697	2.163	6.2157	1.0409
Stddev	.00106	.00061	.792	.0054	.005	.0157	.0258
%RSD	1.2087	.27782	2.5263	.17520	.2363	.25183	2.4779
#1	.08878	.21951	30.714	3.0759	2.158	6.2015	1.0683
#2	.08775	.22044	32.232	3.0671	2.163	6.2130	1.0373
#3	.08666	.22066	31.082	3.0661	2.168	6.2325	1.0172

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.99541	3.0221	.44820	4.0415	1.9901	.18949	.07022
Stddev	.01891	.0572	.00140	.0104	.0057	.00052	.00021
%RSD	1.8996	1.8940	.31131	.25815	.28425	.27416	.30359
#1	1.0170	3.0795	.44693	4.0324	1.9846	.18892	.07003
#2	.98732	3.0218	.44796	4.0394	1.9899	.18962	.07019
#3	.98190	2.9650	.44970	4.0529	1.9959	.18993	.07045

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3249	.06524	.37743	7.1004
Stddev	.0038	.00016	.00450	.0982
%RSD	1.184	.24746	1.1911	1.3824
#1	.3286	.06513	.38168	6.9924
#2	.3252	.06516	.37789	7.1248
#3	.3209	.06542	.37273	7.1841

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Sample Name: S05 ISM-462 Acquired: 11/9/2015 12:17:06 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36137.	11216.	542320.
Stddev	229.	156.	8011.
%RSD	.63254	1.3870	1.4771
#1	36339.	11198.	533610.
#2	36182.	11070.	544000.
#3	35889.	11380.	549360.

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Sample Name: S06 ISM-463 Acquired: 11/9/2015 12:22:39 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.83778	10.095	1.4742	2.222	1.008	4.9723
Stddev	.04585	.530	.0796	.112	.052	.2520
%RSD	5.4727	5.2547	5.3997	5.042	5.188	5.0685
#1	.87113	10.457	1.5312	2.302	1.045	5.1462
#2	.78550	9.4860	1.3833	2.094	.9484	4.6833
#3	.85672	10.342	1.5082	2.270	1.031	5.0875

Int. Std.	Y_3710
Units	Cts/S
Avg	11247.
Stddev	571.
%RSD	5.0795
#1	10831.
#2	11898.
#3	11011.

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Sample Name: S07 ISM-464 Acquired: 11/9/2015 12:27:24 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6896	20.242	2.9547	2.024
Stddev	.0997	1.162	.1653	.115
%RSD	5.8977	5.7381	5.5927	5.673
#1	1.6367	19.626	2.8718	1.966
#2	1.8045	21.581	3.1450	2.156
#3	1.6275	19.517	2.8474	1.949

Int. Std.	Y_3710
Units	Cts/S
Avg	10775.
Stddev	555.
%RSD	5.1489
#1	11144.
#2	10137.
#3	11043.

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Sample Name: S08 ISM-465 Acquired: 11/9/2015 12:32:05 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.103	2.5213
Stddev	.008	.0137
%RSD	.6871	.54189
#1	1.095	2.5086
#2	1.103	2.5195
#3	1.110	2.5357

Int. Std.	Y_3710
Units	Cts/S
Avg	11221.
Stddev	77.
%RSD	.68572
#1	11241.
#2	11286.
#3	11136.

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Sample Name: S09 ISM-456 Acquired: 11/9/2015 12:36:48 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	6.5319
Stddev	.2557
%RSD	3.9142
#1	6.3421
#2	6.4310
#3	6.8227
Int. Std.	Y_3710
Units	Cts/S
Avg	10881.
Stddev	359.
%RSD	3.2959
#1	11190.
#2	10965.
#3	10488.

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Sample Name: S10 ISM-457 Acquired: 11/9/2015 12:41:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2170
Stddev	.0016
%RSD	.7454
#1	.2164
#2	.2157
#3	.2188
Int. Std.	Y_3710
Units	Cts/S
Avg	11058.
Stddev	5.
%RSD	.04603
#1	11057.
#2	11053.
#3	11063.

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Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	508.17	2663.2	1024.2	514.38	517.68	10691.	491.6
Stddev	2.44	35.1	2.2	4.23	7.43	91.	.6
%RSD	.48091	1.3163	.21937	.82316	1.4362	.85360	.1295
#1	508.77	2700.4	1021.6	509.51	516.01	10591.	492.3
#2	510.27	2630.7	1025.1	516.43	525.81	10714.	491.0
#3	505.49	2658.4	1025.9	517.20	511.22	10769.	491.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497.18	507.10	494.09	5302.4	10630.	6419.	521.58
Stddev	.49	2.36	2.96	50.6	154.	26.	2.32
%RSD	.09799	.46593	.59882	.95419	1.451	.4106	.44415
#1	497.58	508.49	494.90	5254.1	10450.	6388.	521.66
#2	496.64	508.43	496.56	5298.3	10720.	6435.	523.85
#3	497.31	504.37	490.81	5355.0	10720.	6432.	519.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5403	11081.	499.22	959.69	995.34	1004.0	.1685
Stddev	.3183	80.	.12	2.88	1.82	2.0	.0860
%RSD	12.530	.72548	.02371	.30014	.18253	.19824	51.07
#1	-2.7526	11006.	499.31	962.84	997.42	1003.7	.2594
#2	-2.6941	11166.	499.08	957.20	994.03	1002.2	.0883
#3	-2.1744	11071.	499.25	959.02	994.59	1006.1	.1578
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1014.3	508.68	1021.5
Stddev	4.8	1.84	.9
%RSD	.47518	.36096	.08969
#1	1013.7	509.44	1022.2
#2	1009.7	510.01	1020.5
#3	1019.3	506.59	1021.9
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37257.	11089.	535470.
Stddev	49.	93.	1564.
%RSD	.13168	.84057	.29206
#1	37261.	11176.	536550.
#2	37303.	11102.	533680.
#3	37205.	10991.	536190.

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Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18547	-3.5194	-.01814	-.25830	.02416	2.8207	-.0703
Stddev	.13102	35.028	1.1273	.32769	.01082	1.9890	.1443
%RSD	70.645	995.29	6213.6	126.86	44.768	70.516	205.3
#1	-.05845	4.4719	-1.1517	.09700	.01636	3.9469	.0592
#2	-.17780	-41.852	-.00566	-.54866	.01962	.52409	-.0442
#3	-.32016	26.822	1.1029	-.32324	.03651	3.9910	-.2259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02294	.45883	.55659	10.313	148.3	17.82	-.05984
Stddev	.14016	.19979	1.0954	12.574	67.1	63.30	.05366
%RSD	610.98	43.543	196.80	121.93	45.28	355.3	89.679
#1	-.01556	.62596	.86500	18.076	195.1	-36.97	-.10687
#2	-.16665	.23755	-.65990	17.057	71.37	87.12	-.00138
#3	.11339	.51298	1.4647	-4.1946	178.4	3.304	-.07126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3483	24.931	-.13355	.00905	-.68864	-.09221	.4349
Stddev	.1892	10.344	.11573	.87033	1.0573	1.8824	.6236
%RSD	8.0563	41.490	86.656	9619.7	153.53	2041.3	143.4
#1	-2.1305	14.485	-.24550	-.36051	.39062	-.57982	-.0087
#2	-2.4723	25.139	-.14078	1.0032	-.73403	1.9860	1.148
#3	-2.4420	35.170	-.01438	-.61553	-1.7225	-1.6829	.1655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.01763	-.10245	-.25370
Stddev	.57867	.08697	.07422
%RSD	3282.3	84.884	29.256
#1	.17423	-.12569	-.18434
#2	.50188	-.00623	-.33198
#3	-.62322	-.17544	-.24478
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38064.	11267.	540720.
Stddev	71.	345.	15064.
%RSD	.18565	3.0623	2.7860
#1	37983.	10961.	543100.
#2	38110.	11200.	554450.
#3	38100.	11641.	524610.

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Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12048	257470.	-5.6677	8.0565	.22971	255200.	1.067
Stddev	.39186	1693.	.6528	.1249	.01235	2460.	.084
%RSD	325.24	.65743	11.517	1.5508	5.3752	.96412	7.903
#1	.37413	255790.	-5.3775	7.9125	.21546	253150.	1.162
#2	-.33084	257450.	-6.4152	8.1203	.23716	254520.	.9998
#3	.31816	259180.	-5.2104	8.1366	.23652	257930.	1.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29338	61.092	1.9983	102240.	246.5	269200.	18.486
Stddev	.07273	.753	.6956	931.	43.8	3385.	.214
%RSD	24.790	1.2326	34.811	.91102	17.78	1.258	1.1552
#1	-.37202	61.896	2.7328	101520.	261.4	266100.	18.733
#2	-.22854	60.978	1.9127	101900.	197.2	268500.	18.356
#3	-.27957	60.403	1.3495	103290.	281.0	272800.	18.371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35681	70.036	2.9550	4.4526	1.2455	-1.1257	3.707
Stddev	.25539	17.127	.2007	.7587	2.0920	2.8209	.084
%RSD	71.577	24.455	6.7900	17.039	167.97	250.60	2.271
#1	-.06200	50.927	2.7824	4.1345	3.6210	-3.8896	3.748
#2	-.51069	84.004	3.1752	5.3186	.43794	1.7490	3.763
#3	-.49774	75.176	2.9075	3.9048	-.32239	-1.2364	3.610
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.2125	1.8512	1.3899
Stddev	1.3017	.5277	.0676
%RSD	58.836	28.508	4.8626
#1	-2.4186	1.6667	1.3200
#2	-.81998	1.4404	1.4549
#3	-3.3988	2.4464	1.3946
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34445.	10727.	480390.
Stddev	145.	35.	4942.
%RSD	.42181	.32453	1.0288
#1	34369.	10712.	475030.
#2	34613.	10766.	481370.
#3	34354.	10701.	484770.

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Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	220.12	255530.	95.762	531.60	551.95	255330.	1024.
Stddev	8.84	12539.	.599	24.77	28.66	12131.	1.
%RSD	4.0174	4.9070	.62547	4.6604	5.1925	4.7510	.0718
#1	227.89	259610.	96.338	539.02	584.26	259850.	1023.
#2	210.50	265520.	95.806	551.82	529.60	264550.	1024.
#3	221.99	241460.	95.143	503.96	541.98	241590.	1024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	475.30	590.58	515.55	102600.	134.5	269700.	560.02
Stddev	.50	24.41	23.59	4985.	72.7	12950.	22.44
%RSD	.10547	4.1337	4.5748	4.8590	54.06	4.804	4.0075
#1	474.97	612.47	535.95	104540.	160.1	274800.	580.48
#2	475.05	564.25	489.72	106320.	190.9	279300.	536.02
#3	475.88	595.02	520.96	96933.	52.44	254900.	563.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.97847	80.248	946.69	48.440	598.28	51.288	4.032
Stddev	.47100	19.907	1.45	7.672	2.16	3.891	.652
%RSD	48.137	24.806	.15295	15.838	.36064	7.5871	16.17
#1	-1.3845	103.01	945.34	43.247	598.40	47.359	4.783
#2	-.46210	71.676	946.50	44.821	600.38	55.140	3.619
#3	-1.0888	66.064	948.22	57.252	596.07	51.366	3.693
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	91.538	526.96	993.37
Stddev	1.119	20.95	1.46
%RSD	1.2225	3.9762	.14658
#1	90.291	545.86	992.69
#2	91.869	504.43	992.38
#3	92.454	530.59	995.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34741.	10904.	477630.
Stddev	246.	432.	21548.
%RSD	.70813	3.9631	4.5114
#1	34562.	10637.	457620.
#2	35021.	10673.	500440.
#3	34639.	11403.	474810.

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Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	751.98	49306.	2486.5	9865.0	1017.7	50227.	984.1
Stddev	9.78	230.	3.6	43.9	10.5	183.	.4
%RSD	1.3011	.46686	.14604	.44525	1.0343	.36340	.0402
#1	746.68	49209.	2490.7	9816.0	1007.1	50060.	983.7
#2	763.28	49140.	2484.5	9878.3	1028.2	50200.	984.1
#3	746.00	49568.	2484.3	9900.8	1017.7	50422.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4810.5	10093.	12200.	25152.	37870.	50760.	4866.4
Stddev	2.4	142.	8.	55.	117.	241.	79.4
%RSD	.05047	1.4053	.06401	.21949	.3085	.4746	1.6321
#1	4812.4	10007.	12194.	25092.	37750.	50680.	4873.0
#2	4807.8	10257.	12209.	25164.	37890.	50570.	4942.4
#3	4811.4	10016.	12196.	25201.	37980.	51030.	4783.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	973.80	26125.	4769.0	9416.0	2434.1	1239.2	995.0
Stddev	.55	104.	3.3	11.6	4.9	2.9	14.3
%RSD	.05687	.39659	.06954	.12291	.20235	.23653	1.438
#1	974.27	26061.	4772.7	9429.4	2435.3	1242.0	987.7
#2	973.19	26070.	4766.3	9408.7	2428.7	1239.6	1011.
#3	973.94	26245.	4768.1	9410.0	2438.4	1236.2	985.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	930.12	2505.0	4921.0
Stddev	1.36	34.2	6.4
%RSD	.14609	1.3670	.12918
#1	928.71	2489.3	4928.3
#2	930.23	2544.3	4917.7
#3	931.42	2481.4	4917.0
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36508.	11369.	524690.
Stddev	107.	100.	4343.
%RSD	.29436	.87590	.82774
#1	36394.	11315.	528880.
#2	36522.	11484.	520210.
#3	36608.	11307.	524990.

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Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32722	-5.7538	-.11571	.95655	.04800	27.868	-.0542
Stddev	.69847	96.755	.55623	.43543	.01836	6.033	.1082
%RSD	213.45	1681.6	480.70	45.521	38.257	21.648	199.5
#1	-.27443	-108.56	-.56673	1.3431	.05076	24.564	-.1767
#2	-1.0506	7.766	.50582	1.0417	.02841	34.831	-.0143
#3	.34336	83.530	-.28623	.48484	.06482	24.210	.0283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27959	.20509	.74421	15.742	122.7	4.813	.08680
Stddev	.06715	.48598	.62072	15.604	19.7	32.85	.07267
%RSD	24.016	236.96	83.408	99.121	16.04	682.7	83.720
#1	.20266	.75381	1.4581	33.633	142.8	-19.49	.14484
#2	.32641	.03252	.44223	8.6429	122.0	42.19	.11025
#3	.30969	-.17105	.33225	4.9504	103.5	-8.267	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.46747	.64214	-.15398	-.41180	-1.8552	-.44707	.3465
Stddev	.34926	18.252	.18391	1.2229	.3542	1.7250	.0786
%RSD	74.713	2842.3	119.44	296.96	19.090	385.85	22.69
#1	-.11056	19.051	-.07664	-1.5195	-2.0440	.66611	.4082
#2	-.48330	-17.448	-.36392	.90046	-1.4466	-2.4341	.2580
#3	-.80854	.3229	-.02137	-.61639	-2.0749	.42684	.3734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.07778	.09037	-.07693
Stddev	.99886	.31021	.04866
%RSD	1284.3	343.25	63.252
#1	1.0418	-.06972	-.02305
#2	-.87752	.44792	-.09008
#3	-.39765	-.10708	-.11766
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37978.	10980.	542060.
Stddev	52.	119.	6332.
%RSD	.13583	1.0847	1.1681
#1	37997.	11046.	535070.
#2	37920.	10842.	543680.
#3	38017.	11051.	547420.

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Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11469	64.627	-.67372	.42173	.01810	150.66	-.0774
Stddev	.08305	84.300	.27450	.55325	.00711	6.10	.1646
%RSD	72.409	130.44	40.743	131.19	39.289	4.0455	212.6
#1	-.07214	-10.896	-.50198	-.15103	.01642	151.74	-.2416
#2	-.21040	49.202	-.52889	.46307	.02590	144.10	-.0782
#3	-.06155	155.57	-.99030	.95315	.01198	156.14	.0876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00374	.38110	1.1567	27.422	80.11	-1.762	.08276
Stddev	.24896	.22459	.0531	8.095	47.86	31.51	.08382
%RSD	6650.6	58.933	4.5894	29.520	59.74	1788.	101.29
#1	.10441	.38183	1.1877	20.318	62.04	-36.18	.00471
#2	.18660	.60532	1.0954	25.713	43.92	25.68	.17135
#3	-.27978	.15614	1.1870	36.235	134.4	5.206	.07221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7643	32.184	-.01538	.07861	-1.3004	1.0933	.6506
Stddev	.0944	14.483	.25615	.90618	.8599	1.1906	.2049
%RSD	5.3526	45.001	1666.0	1152.7	66.129	108.90	31.50
#1	-1.6583	37.790	.20924	.79999	-1.0347	.27994	.4156
#2	-1.7953	15.736	.03897	-.93849	-.60464	2.4599	.7922
#3	-1.8394	43.026	-.29434	.37434	-2.2618	.54007	.7439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.0844	.45013	1.2099
Stddev	1.7590	.06728	.0582
%RSD	162.21	14.946	4.8098
#1	-3.0226	.49787	1.1527
#2	.41087	.47934	1.2691
#3	-.64155	.37319	1.2079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38566.	11062.	546410.
Stddev	59.	89.	5104.
%RSD	.15367	.80259	.93412
#1	38506.	11127.	549940.
#2	38625.	10961.	548720.
#3	38568.	11099.	540560.

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Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.413	465.76	16.954	384.20	9.1715	10122.	8.595
Stddev	.404	62.76	.989	14.79	.1329	409.	.193
%RSD	2.1949	13.474	5.8362	3.8486	1.4492	4.0454	2.249
#1	18.559	444.22	15.981	368.87	9.3181	9718.9	8.480
#2	18.724	536.45	17.959	398.37	9.0588	10538.	8.487
#3	17.956	416.62	16.922	385.37	9.1378	10110.	8.818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89.924	18.632	45.525	224.15	9862.	10220.	28.378
Stddev	.262	.348	.410	20.50	439.	428.	.381
%RSD	.29188	1.8699	.89970	9.1454	4.456	4.187	1.3423
#1	89.630	18.919	45.949	203.26	9396.	9780.	28.818
#2	90.135	18.733	45.495	244.23	10270.	10630.	28.151
#3	90.007	18.244	45.132	224.96	9920.	10260.	28.166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1509	10535.	70.712	17.631	105.15	61.482	.3295
Stddev	.2179	413.	.182	.786	.76	.642	.0385
%RSD	10.130	3.9162	.25678	4.4560	.71830	1.0449	11.68
#1	-1.9223	10136.	70.883	17.414	104.54	61.564	.3044
#2	-2.1743	10960.	70.521	18.502	105.99	60.802	.3739
#3	-2.3562	10511.	70.732	16.976	104.90	62.079	.3104
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	41.753	91.120	111.17
Stddev	.492	1.190	.14
%RSD	1.1777	1.3061	.12698
#1	42.117	92.488	111.32
#2	41.948	90.551	111.15
#3	41.193	90.321	111.04
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37794.	10607.	544880.
Stddev	208.	343.	4892.
%RSD	.54958	3.2380	.89775
#1	37648.	10866.	540230.
#2	37701.	10217.	544440.
#3	38032.	10737.	549980.

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Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05173	130360.	57.754	617.80	5.5292	112150.
Stddev	.21776	687.	.717	4.24	.1193	640.
%RSD	420.93	.52681	1.2407	.68580	2.1579	.57038
#1	-.23430	129900.	57.694	615.02	5.5888	111740.
#2	.18929	131150.	58.498	622.67	5.6069	112880.
#3	-.11019	130040.	57.069	615.69	5.3918	111820.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.569	93.587	152.06	330.04	F 236580.	14280.
Stddev	.028	.137	3.54	7.01	1112.	76.
%RSD	.7816	.14621	2.3270	2.1241	.46992	.5291
#1	3.569	93.477	153.76	333.45	236060.	14190.
#2	3.597	93.543	154.43	334.70	237850.	14330.
#3	3.542	93.740	148.00	321.98	235820.	14310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84130.	9118.0	1.8126	544.64	203.47	500.16
Stddev	677.	179.7	.2687	1.68	.14	.54
%RSD	.8041	1.9707	14.826	.30859	.06830	.10873
#1	83660.	9084.5	1.8594	544.24	203.55	499.82
#2	84910.	9312.0	1.5235	546.49	203.55	499.88
#3	83820.	8957.3	2.0549	543.20	203.31	500.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.81727	9.0390	446.6	6.6742	193.18	1156.1
Stddev	1.2922	.3748	10.3	1.3505	3.64	1.9
%RSD	158.12	4.1464	2.294	20.235	1.8842	.16295
#1	-.16900	9.4288	450.3	8.0972	194.68	1154.0
#2	2.2801	9.0070	454.5	5.4102	195.82	1156.6
#3	.34072	8.6812	435.0	6.5152	189.02	1157.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37884.	11465.	536630.
Stddev	321.	92.	9977.
%RSD	.84760	.79853	1.8592
#1	38232.	11534.	529790.
#2	37821.	11361.	532010.
#3	37599.	11500.	548070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.605%	97.146%	96.247%
Range			

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Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03779	25559.	12.773	120.61	1.1318	22174.	.4201
Stddev	.48535	361.	.952	3.05	.0887	366.	.1865
%RSD	1284.2	1.4118	7.4554	2.5286	7.8375	1.6524	44.40
#1	-.55042	25232.	11.682	117.43	1.2334	21843.	.6271
#2	.41467	25499.	13.204	120.92	1.0698	22112.	.3678
#3	.02237	25946.	13.434	123.50	1.0923	22568.	.2653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.019	32.024	68.795	47054.	2804.	16860.	1920.9
Stddev	.213	1.757	3.892	775.	42.	269.	85.3
%RSD	1.0661	5.4874	5.6568	1.6472	1.504	1.594	4.4392
#1	19.781	34.050	73.286	46365.	2758.	16600.	1992.5
#2	20.193	31.113	66.409	46903.	2811.	16840.	1826.6
#3	20.084	30.909	66.690	47893.	2841.	17140.	1943.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.6288	93.363	42.759	108.84	-1.8038	2.3524	93.20
Stddev	.0331	18.196	.382	1.64	1.5187	.7368	4.74
%RSD	2.0314	19.489	.89401	1.5072	84.191	31.322	5.086
#1	-1.5939	79.935	42.601	107.06	-3.3388	1.6958	98.67
#2	-1.6328	86.083	42.481	110.29	-1.7707	3.1493	90.58
#3	-1.6598	114.07	43.195	109.18	-.30198	2.2120	90.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1891	39.217	240.78
Stddev	.5412	2.098	1.27
%RSD	24.722	5.3490	.52770
#1	1.8253	41.638	239.63
#2	2.8110	38.079	240.58
#3	1.9310	37.934	242.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38205.	11480.	542470.
Stddev	80.	69.	21000.
%RSD	.21030	.60026	3.8712
#1	38276.	11446.	519290.
#2	38220.	11559.	560220.
#3	38118.	11433.	547900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.431%	97.266%	97.295%
Range			

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Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28097	110330.	46.592	533.56	4.4203	97721.
Stddev	.35735	9014.	1.623	43.93	.1090	8185.
%RSD	127.18	8.1701	3.4839	8.2330	2.4650	8.3763
#1	.00011	105490.	45.973	509.84	4.5444	93137.
#2	-.68313	120730.	45.369	584.25	4.3761	107170.
#3	-.15990	104770.	48.434	506.60	4.3404	92854.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.665	69.206	126.94	289.50	F 202350.	13420.
Stddev	.105	.573	2.55	5.67	16681.	1106.
%RSD	3.956	.82809	2.0109	1.9602	8.2439	8.242
#1	2.588	68.547	129.88	296.01	193130.	12820.
#2	2.785	69.481	125.69	286.85	221600.	14700.
#3	2.622	69.590	125.26	285.63	192310.	12750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78950.	4884.9	.93709	480.77	155.26	401.60
Stddev	6600.	118.4	.50127	56.27	1.37	5.50
%RSD	8.359	2.4243	53.493	11.704	.88169	1.3689
#1	75240.	5021.2	1.3346	434.37	153.74	398.47
#2	86570.	4806.8	1.1027	543.36	156.38	398.39
#3	75050.	4826.8	.37396	464.57	155.67	407.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.78163	6.8144	459.2	2.8321	156.86	929.66
Stddev	.36437	1.7000	9.8	.3592	3.48	6.75
%RSD	46.617	24.948	2.125	12.681	2.2190	.72619
#1	.45088	8.7587	470.4	3.1010	160.88	921.86
#2	1.1722	6.0767	454.9	2.9711	154.87	933.45
#3	.72180	5.6077	452.3	2.4243	154.83	933.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37977.	10618.	529860.
Stddev	443.	805.	10424.
%RSD	1.1660	7.5836	1.9674
#1	38477.	11103.	518290.
#2	37820.	9688.3	538530.
#3	37634.	11062.	532770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.845%	89.964%	95.034%
Range			

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Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.892	101980.	116.87	4165.5	94.379	94761.
Stddev	3.582	5895.	1.93	242.0	4.135	5539.
%RSD	4.0757	5.7798	1.6479	5.8089	4.3818	5.8454
#1	85.387	108790.	118.28	4444.8	90.973	101160.
#2	86.294	98809.	114.67	4033.6	93.184	91701.
#3	91.995	98359.	117.65	4018.2	98.981	91428.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.10	899.27	470.92	710.86	F 182210.	12230.
Stddev	.82	12.34	21.37	31.78	10844.	705.
%RSD	.9367	1.3721	4.5388	4.4704	5.9514	5.761
#1	87.99	913.49	453.25	684.91	194720.	13050.
#2	86.94	891.37	464.83	701.36	176280.	11840.
#3	86.38	892.96	494.68	746.30	175610.	11810.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72960.	5860.0	.58683	450.44	963.33	459.90
Stddev	4368.	221.1	.28479	50.96	13.01	4.19
%RSD	5.987	3.7732	48.530	11.313	1.3504	.91117
#1	78000.	5757.6	.80047	504.85	978.34	464.51
#2	70640.	5708.6	.69653	403.83	955.32	458.89
#3	70250.	6113.7	.26350	442.66	956.34	456.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.845	167.54	402.8	86.318	1018.1	1814.6
Stddev	.879	1.10	19.7	1.706	45.7	23.1
%RSD	1.7995	.65494	4.882	1.9770	4.4877	1.2703
#1	49.759	167.63	387.2	87.977	980.74	1841.0
#2	48.006	168.58	396.4	84.567	1004.4	1798.6
#3	48.770	166.39	424.9	86.412	1069.0	1804.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37321.	11054.	530400.
Stddev	305.	506.	15876.
%RSD	.81713	4.5789	2.9932
#1	36971.	10478.	537990.
#2	37525.	11251.	541050.
#3	37468.	11431.	512150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.155%	93.657%	95.130%
Range			

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Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.394	128730.	103.03	1553.4	29.719	131560.
Stddev	.951	468.	.94	7.5	.437	717.
%RSD	1.9648	.36332	.90846	.48524	1.4718	.54500
#1	49.302	128250.	102.08	1544.7	30.219	130730.
#2	48.474	128750.	103.08	1557.8	29.531	131940.
#3	47.405	129180.	103.95	1557.7	29.407	132000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.65	309.40	202.61	441.16	F 228350.	40040.
Stddev	.14	.56	2.29	4.87	900.	270.
%RSD	.5323	.18038	1.1323	1.1045	.39397	.6736
#1	25.75	309.63	205.22	446.70	227310.	39740.
#2	25.50	308.76	201.67	439.21	228850.	40240.
#3	25.71	309.81	200.93	437.55	228890.	40150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105100.	8794.7	1.5136	26007.	369.43	531.05
Stddev	657.	164.8	.3746	96.	.93	.08
%RSD	.6247	1.8744	24.749	.37097	.25073	.01484
#1	104400.	8985.0	1.6186	25902.	370.27	530.98
#2	105400.	8701.4	1.8244	26026.	368.44	531.03
#3	105600.	8697.6	1.0977	26092.	369.60	531.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	264.58	168.76	748.2	110.16	431.65	1418.3
Stddev	2.08	2.08	14.3	.81	5.62	.9
%RSD	.78661	1.2311	1.908	.73277	1.3027	.06612
#1	266.82	171.13	760.9	110.85	438.09	1419.1
#2	264.20	167.90	750.8	110.36	429.20	1417.3
#3	262.70	167.26	732.7	109.27	427.68	1418.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37175.	11390.	521750.
Stddev	134.	94.	8839.
%RSD	.36163	.82866	1.6941
#1	37202.	11315.	511570.
#2	37029.	11496.	526200.
#3	37293.	11359.	527480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.778%	96.508%	93.578%
Range			

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Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.52960	111710.	70.735	436.59	5.0809	F 422800.
Stddev	.44569	561.	.674	2.54	.0603	4388.
%RSD	84.156	.50200	.95244	.58271	1.1860	1.0378
#1	-.15265	111150.	71.040	433.76	5.1317	417760.
#2	-.41464	111690.	71.203	437.32	5.0143	424870.
#3	-1.0215	112270.	69.963	438.69	5.0968	425780.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.116	82.658	151.53	292.04	F 242300.	15090.
Stddev	.058	.128	2.13	4.82	1357.	180.
%RSD	2.761	.15444	1.4028	1.6496	.55998	1.194
#1	2.121	82.754	153.59	296.90	241020.	14880.
#2	2.172	82.707	149.35	287.26	242170.	15170.
#3	2.056	82.513	151.67	291.96	243720.	15210.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	263400.	7634.8	2.6726	1036.2	192.77	196.54
Stddev	1957.	95.3	.3457	10.7	.59	1.79
%RSD	.7432	1.2480	12.936	1.0312	.30469	.91302
#1	261600.	7690.5	3.0652	1035.7	192.12	195.55
#2	263000.	7524.8	2.5391	1047.1	193.26	198.61
#3	265500.	7689.1	2.4136	1025.8	192.93	195.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2163	5.3408	306.5	4.7926	162.09	752.56
Stddev	1.7430	1.3406	4.0	2.3061	2.22	1.12
%RSD	143.30	25.101	1.314	48.117	1.3673	.14824
#1	.22973	6.2706	310.3	3.1564	164.34	751.27
#2	-3.1517	5.9478	302.3	3.7913	159.91	753.17
#3	-.72699	3.8041	306.7	7.4301	162.01	753.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35162.	11039.	496720.
Stddev	119.	106.	5502.
%RSD	.33910	.95755	1.1076
#1	35229.	11100.	490670.
#2	35025.	10917.	501420.
#3	35234.	11100.	498070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	90.593%	93.530%	89.089%
Range			

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Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57639	133100.	116.54	796.82	6.6170	111570.
Stddev	.30396	1605.	.69	8.18	.0959	1340.
%RSD	52.735	1.2060	.59035	1.0267	1.4501	1.2007
#1	.77365	131600.	117.27	789.81	6.5655	110210.
#2	.22635	132890.	115.90	794.83	6.7277	111620.
#3	.72915	134790.	116.47	805.81	6.5578	112890.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.924	101.34	249.06	687.74	F 290720.	15180.
Stddev	.114	.32	1.88	6.56	2999.	252.
%RSD	2.907	.31825	.75477	.95454	1.0317	1.660
#1	3.848	100.98	248.03	684.09	287740.	15010.
#2	3.869	101.43	251.23	695.32	290680.	15070.
#3	4.056	101.60	247.93	683.81	293730.	15470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78370.	7880.5	8.1849	918.69	249.41	1600.8
Stddev	1193.	179.1	.0610	2.10	.64	4.4
%RSD	1.522	2.2724	.74515	.22879	.25743	.27315
#1	77210.	7696.8	8.2232	916.34	248.95	1596.1
#2	78310.	8054.5	8.2169	919.35	249.14	1604.8
#3	79600.	7890.1	8.1146	920.39	250.14	1601.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2330	12.141	554.5	7.6372	349.93	1663.1
Stddev	2.7080	.606	6.2	.6652	3.91	4.5
%RSD	121.27	4.9879	1.116	8.7100	1.1182	.26872
#1	4.9533	11.826	551.7	8.4020	347.88	1658.0
#2	2.2083	11.758	561.6	7.1929	354.44	1665.2
#3	-.46254	12.839	550.3	7.3168	347.47	1666.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37434.	11196.	528550.
Stddev	184.	105.	3942.
%RSD	.49154	.94139	.74580
#1	37588.	11259.	531290.
#2	37230.	11254.	524030.
#3	37485.	11074.	530320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.447%	94.860%	94.798%
Range			

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Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15062	99560.	46.852	411.78	4.2322	128390.
Stddev	.29368	1295.	1.144	3.22	.0378	1390.
%RSD	194.98	1.3004	2.4407	.78162	.89383	1.0829
#1	.42205	101030.	45.910	415.49	4.2214	129990.
#2	-.16114	99047.	46.520	410.15	4.2010	127720.
#3	.19094	98600.	48.124	409.70	4.2743	127460.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.248	73.388	127.93	254.09	F 201440.	12120.
Stddev	.167	.372	1.27	2.53	2251.	103.
%RSD	7.410	.50687	.99234	.99430	1.1175	.8455
#1	2.076	73.792	128.02	254.00	204040.	12240.
#2	2.260	73.314	126.62	251.62	200150.	12080.
#3	2.408	73.059	129.16	256.67	200130.	12040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73660.	5740.5	.81507	599.72	169.41	296.62
Stddev	741.	72.8	.20639	31.71	.21	1.14
%RSD	1.006	1.2676	25.322	5.2872	.12234	.38514
#1	74500.	5656.7	.61707	564.36	169.63	296.11
#2	73120.	5777.8	1.0289	609.18	169.39	295.81
#3	73350.	5787.1	.79921	625.62	169.21	297.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05876	6.0224	355.6	3.0882	176.19	1017.1
Stddev	.97158	2.1076	2.8	.4673	1.73	3.2
%RSD	1653.5	34.996	.7758	15.133	.97996	.31030
#1	1.1351	5.6835	354.1	3.5687	176.44	1020.3
#2	-.20530	4.1048	354.0	2.6352	174.36	1016.9
#3	-.75349	8.2789	358.8	3.0607	177.79	1014.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37439.	11414.	526300.
Stddev	156.	162.	3729.
%RSD	.41753	1.4228	.70856
#1	37399.	11230.	525570.
#2	37306.	11536.	530340.
#3	37611.	11476.	522990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.458%	96.710%	94.394%
Range			

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Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17825	135190.	90.097	849.55	6.3819	32603.
Stddev	.28345	787.	.442	6.45	.0688	355.
%RSD	159.02	.58251	.49052	.75887	1.0778	1.0878
#1	-.00904	134520.	90.607	844.61	6.4261	32220.
#2	-.02023	134990.	89.831	847.19	6.3027	32667.
#3	-.50548	136060.	89.852	856.84	6.4170	32921.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.722	75.940	179.81	390.61	F 229130.	11750.
Stddev	.112	.183	2.05	4.46	2369.	127.
%RSD	1.953	.24056	1.1411	1.1415	1.0341	1.076
#1	5.748	76.088	181.48	394.34	226560.	11610.
#2	5.599	75.736	177.52	385.67	229580.	11840.
#3	5.818	75.997	180.43	391.82	231240.	11810.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49430.	9645.4	4.2288	832.74	187.44	1317.5
Stddev	625.	70.4	.3515	27.07	.24	6.3
%RSD	1.265	.72960	8.3118	3.2510	.12804	.47693
#1	48750.	9689.6	4.1630	808.67	187.57	1324.8
#2	49580.	9564.2	3.9148	862.05	187.16	1314.5
#3	49970.	9682.3	4.6085	827.49	187.58	1313.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9722	10.884	577.9	9.9543	202.26	1139.3
Stddev	2.2555	2.456	5.6	.9859	2.24	1.3
%RSD	45.362	22.561	.9686	9.9038	1.1073	.11823
#1	5.1502	13.668	582.4	8.8402	203.93	1140.3
#2	7.1334	9.9578	571.7	10.309	199.71	1139.8
#3	2.6329	9.0265	579.8	10.714	203.13	1137.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38561.	11645.	537150.
Stddev	37.	115.	5335.
%RSD	.09614	.98636	.99322
#1	38571.	11653.	531800.
#2	38520.	11756.	542470.
#3	38592.	11527.	537180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.350%	98.669%	96.340%
Range			

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Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44105	134830.	218.06	887.53	6.7342	147280.
Stddev	.31216	906.	1.60	6.00	.0694	791.
%RSD	70.775	.67206	.73519	.67659	1.0306	.53675
#1	.53835	134260.	219.90	881.45	6.7431	146510.
#2	.09184	134350.	217.34	887.70	6.7987	147240.
#3	.69297	135870.	216.95	893.45	6.6608	148090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.066	123.83	298.31	993.38	F 377080.	14190.
Stddev	.167	.22	3.05	10.17	2291.	69.
%RSD	3.298	.18003	1.0219	1.0235	.60744	.4863
#1	5.241	123.84	299.09	995.42	374960.	14150.
#2	4.909	123.61	300.89	1002.4	376760.	14150.
#3	5.047	124.06	294.95	982.34	379510.	14270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95070.	7795.4	7.1763	1558.0	290.39	3828.5
Stddev	685.	57.7	.2486	16.8	.98	11.0
%RSD	.7201	.74057	3.4643	1.0797	.33778	.28682
#1	94680.	7728.8	6.8908	1567.7	289.94	3815.8
#2	94670.	7825.5	7.3446	1538.6	289.72	3833.9
#3	95860.	7831.8	7.2935	1567.7	291.52	3835.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.229	9.4095	1074.	8.6404	296.36	5261.5
Stddev	1.224	2.6984	12.	1.6364	3.04	13.2
%RSD	9.2483	28.678	1.091	18.938	1.0255	.25170
#1	14.307	12.409	1078.	6.8785	296.49	5249.5
#2	13.480	8.6411	1084.	8.9305	299.34	5259.4
#3	11.899	7.1786	1061.	10.112	293.26	5275.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37021.	11282.	523440.
Stddev	303.	157.	7316.
%RSD	.81846	1.3939	1.3977
#1	37325.	11181.	522900.
#2	37020.	11463.	516410.
#3	36719.	11202.	531010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.382%	95.593%	93.882%
Range			

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Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17689	86599.	1249.9	680.73	5.4327	202920.
Stddev	.17095	315.	1.3	2.27	.0266	596.
%RSD	96.647	.36328	.10010	.33283	.48867	.29352
#1	-.33360	86353.	1250.3	678.17	5.4138	202630.
#2	.00542	86490.	1248.5	681.54	5.4630	202530.
#3	-.20248	86953.	1250.9	682.47	5.4212	203610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.940	68.962	427.85	754.47	F 232160.	9097.
Stddev	.075	.223	.61	1.41	736.	13.
%RSD	1.914	.32376	.14210	.18732	.31690	.1442
#1	-3.953	69.048	427.18	753.03	231620.	9098.
#2	-3.859	68.709	428.37	755.85	231860.	9084.
#3	-4.008	69.130	428.00	754.53	233000.	9110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37270.	2858.7	5.8603	3284.2	158.61	1915.2
Stddev	159.	46.6	.3072	35.7	.55	2.7
%RSD	.4271	1.6284	5.2419	1.0855	.34755	.13863
#1	37190.	2876.9	6.2120	3243.0	158.83	1914.3
#2	37170.	2805.8	5.7241	3303.8	159.02	1913.1
#3	37450.	2893.4	5.6447	3305.7	157.98	1918.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0178	9.2113	957.2	2.5402	149.08	732.93
Stddev	2.5223	1.8112	1.1	1.2239	.11	.26
%RSD	50.268	19.663	.1198	48.179	.07559	.03558
#1	2.1055	7.1908	957.1	2.9547	149.21	732.77
#2	6.5096	9.7540	958.4	3.5031	149.05	732.79
#3	6.4382	10.689	956.2	1.1630	148.99	733.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36909.	11129.	520850.
Stddev	178.	85.	3017.
%RSD	.48183	.76246	.57922
#1	37101.	11032.	523870.
#2	36878.	11188.	520860.
#3	36749.	11168.	517830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.094%	94.299%	93.418%
Range			

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Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55378	102220.	237.50	882.64	5.1566	100230.
Stddev	.03868	1294.	1.07	11.38	.0459	970.
%RSD	6.9852	1.2657	.44940	1.2890	.88912	.96793
#1	.50961	101580.	238.40	877.41	5.1803	99721.
#2	.57007	101370.	236.32	874.81	5.1037	99625.
#3	.58164	103710.	237.78	895.69	5.1857	101350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.671	93.199	162.88	545.28	F 231940.	10510.
Stddev	.024	.252	1.12	4.81	2192.	175.
%RSD	.4230	.27019	.68754	.88242	.94502	1.659
#1	5.683	93.485	163.38	546.29	231140.	10390.
#2	5.687	93.011	161.60	540.05	230270.	10450.
#3	5.643	93.100	163.67	549.51	234420.	10710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75690.	7582.3	15.323	630.14	217.24	621.89
Stddev	683.	99.4	.375	10.17	.47	3.50
%RSD	.9021	1.3107	2.4489	1.6145	.21472	.56244
#1	75550.	7524.9	15.341	641.88	217.53	624.84
#2	75090.	7524.8	14.939	624.65	216.70	622.80
#3	76440.	7697.0	15.689	623.89	217.48	618.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.0026	16.155	1282.	17.124	199.96	1045.7
Stddev	2.7184	1.945	10.	1.948	2.02	1.1
%RSD	33.968	12.039	.7876	11.376	1.0115	.10095
#1	5.9063	13.910	1287.	17.971	201.24	1046.5
#2	11.074	17.319	1270.	14.896	197.63	1044.5
#3	7.0276	17.236	1289.	18.506	201.02	1046.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37824.	11308.	528210.
Stddev	68.	115.	6831.
%RSD	.17898	1.0137	1.2933
#1	37900.	11222.	527310.
#2	37804.	11438.	535440.
#3	37769.	11263.	521870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.451%	95.811%	94.737%
Range			

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Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9792	148190.	45.025	617.29	5.3561	25143.
Stddev	.2988	733.	.217	3.77	.1054	115.
%RSD	15.097	.49486	.48136	.61069	1.9681	.45726
#1	-1.6375	147410.	45.209	616.07	5.2814	25061.
#2	-2.1087	148300.	44.786	614.28	5.3102	25093.
#3	-2.1914	148860.	45.080	621.52	5.4766	25274.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7702	86.674	150.66	228.60	F 214410.	13560.
Stddev	.0094	.349	2.01	3.03	1013.	99.
%RSD	1.217	.40302	1.3335	1.3244	.47263	.7273
#1	.7605	86.584	148.84	225.91	213810.	13500.
#2	.7792	86.378	150.33	228.01	213840.	13500.
#3	.7709	87.059	152.82	231.88	215580.	13670.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53770.	2470.0	1.1070	550.77	181.93	171.01
Stddev	363.	38.0	.3435	25.89	.66	.53
%RSD	.6750	1.5386	31.030	4.7012	.36380	.30844
#1	53430.	2454.0	1.1794	542.79	181.80	171.61
#2	53730.	2442.6	1.4086	529.81	181.34	170.71
#3	54150.	2513.4	.73312	579.72	182.64	170.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7103	4.6048	539.9	-.52871	185.06	666.43
Stddev	2.1997	3.6920	7.1	.51257	2.75	1.74
%RSD	128.62	80.177	1.317	96.948	1.4849	.26164
#1	2.6302	.34356	534.2	.01369	183.05	665.57
#2	-.80004	6.6250	537.6	-1.0051	183.95	665.28
#3	3.3007	6.8458	547.9	-.59478	188.19	668.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38751.	11662.	549110.
Stddev	51.	62.	4136.
%RSD	.13170	.52859	.75324
#1	38779.	11607.	551420.
#2	38781.	11729.	551580.
#3	38692.	11650.	544340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.838%	98.814%	98.486%
Range			

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Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0086	111140.	44.988	454.53	4.7916	15731.
Stddev	.3738	4701.	1.033	17.86	.0735	660.
%RSD	37.061	4.2296	2.2956	3.9296	1.5331	4.1962
#1	-1.4364	105720.	44.894	433.96	4.8754	14970.
#2	-.84450	113780.	46.064	463.60	4.7609	16146.
#3	-.74494	113940.	44.005	466.04	4.7385	16077.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5032	74.161	127.34	279.74	F 202370.	11550.
Stddev	.0293	.146	1.54	3.88	8736.	537.
%RSD	5.822	.19752	1.2093	1.3877	4.3170	4.646
#1	.5368	74.189	129.11	284.18	192280.	10940.
#2	.4897	74.002	126.32	276.98	207490.	11780.
#3	.4831	74.291	126.58	278.06	207320.	11940.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40640.	2250.7	.53229	646.30	168.30	109.23
Stddev	1813.	10.3	.24750	55.49	.65	2.23
%RSD	4.461	.45615	46.497	8.5856	.38500	2.0393
#1	38550.	2262.2	.81135	588.12	167.56	111.09
#2	41690.	2247.5	.33938	698.64	168.57	109.84
#3	41680.	2242.4	.44614	652.14	168.78	106.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22166	4.1179	336.9	-.93014	148.36	618.52
Stddev	1.9395	.9687	4.3	.58702	2.06	.47
%RSD	875.01	23.524	1.270	63.111	1.3901	.07554
#1	.41968	4.2073	341.8	-1.6078	150.74	618.90
#2	-2.4006	3.1076	333.7	-.57950	147.03	618.00
#3	1.3160	5.0388	335.2	-.60308	147.32	618.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38351.	11584.	545100.
Stddev	91.	414.	5873.
%RSD	.23644	3.5703	1.0773
#1	38383.	12046.	538370.
#2	38421.	11247.	547740.
#3	38248.	11459.	549190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.807%	98.151%	97.767%
Range			

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Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34633	110190.	52.928	398.58	4.8538	51661.
Stddev	.41452	10013.	2.290	35.84	.0866	4723.
%RSD	119.69	9.0875	4.3259	8.9914	1.7836	9.1429
#1	-.82365	98714.	54.481	357.41	4.9537	46242.
#2	-.13855	114680.	50.299	415.60	4.8070	53841.
#3	-.07679	117160.	54.006	422.74	4.8006	54901.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2927	73.280	151.13	253.28	F 236030.	11990.
Stddev	.2702	.221	3.06	4.35	21473.	1108.
%RSD	92.34	.30187	2.0251	1.7169	9.0974	9.242
#1	.2706	73.511	154.62	258.26	211410.	10710.
#2	.5733	73.260	149.88	251.35	245850.	12570.
#3	.0341	73.070	148.89	250.23	250850.	12680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68070.	7906.6	2.4336	645.52	190.65	140.33
Stddev	6309.	146.9	.2576	39.46	.60	5.18
%RSD	9.268	1.8584	10.584	6.1127	.31542	3.6890
#1	60840.	8055.9	2.1380	600.32	189.97	145.92
#2	70920.	7901.8	2.6101	663.14	191.12	139.35
#3	72460.	7762.1	2.5527	673.09	190.87	135.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16611	3.9607	280.4	6.4236	153.12	632.70
Stddev	3.9172	1.4232	4.4	.8763	2.71	.35
%RSD	2358.2	35.933	1.559	13.642	1.7673	.05553
#1	.36864	5.4451	285.4	5.7728	156.23	632.97
#2	-4.3233	2.6078	278.1	7.4200	151.82	632.30
#3	3.4563	3.8294	277.6	6.0779	151.31	632.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37779.	11830.	532330.
Stddev	36.	880.	9472.
%RSD	.09604	7.4357	1.7794
#1	37739.	12838.	521730.
#2	37790.	11436.	535280.
#3	37810.	11216.	539970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.336%	100.23%	95.476%
Range			

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Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19503	127060.	57.427	371.37	5.3073	67775.
Stddev	.04407	941.	.457	4.09	.0754	578.
%RSD	22.596	.74042	.79587	1.1017	1.4215	.85335
#1	-.14849	126130.	56.909	366.75	5.3192	67258.
#2	-.23611	127030.	57.775	372.82	5.3760	67667.
#3	-.20049	128010.	57.597	374.54	5.2266	68400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0718	82.841	150.63	242.58	F 279540.	14220.
Stddev	.0886	.131	1.84	4.25	2180.	120.
%RSD	123.4	.15826	1.2218	1.7539	.77986	.8415
#1	-.1690	82.781	150.86	242.98	277740.	14100.
#2	.0044	82.750	152.34	246.63	278920.	14220.
#3	-.0507	82.991	148.68	238.14	281960.	14340.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91870.	7353.9	.37136	718.14	214.69	112.53
Stddev	1164.	164.4	.02384	7.66	.05	1.00
%RSD	1.267	2.2361	6.4188	1.0663	.02485	.89196
#1	90860.	7513.4	.37945	710.17	214.65	113.14
#2	91610.	7184.9	.39009	718.78	214.67	111.37
#3	93150.	7363.2	.34453	725.45	214.75	113.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0978	5.0086	264.0	6.4071	158.34	655.75
Stddev	2.1994	2.8686	4.2	1.0103	2.42	.38
%RSD	200.34	57.273	1.584	15.768	1.5254	.05843
#1	.56230	2.5067	264.1	5.5042	158.83	655.34
#2	3.5155	8.1395	268.1	7.4983	160.47	656.09
#3	-.78434	4.3797	259.7	6.2187	155.72	655.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37686.	11143.	529380.
Stddev	198.	35.	7268.
%RSD	.52408	.31419	1.3729
#1	37894.	11183.	525180.
#2	37501.	11124.	525180.
#3	37663.	11122.	537770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.095%	94.415%	94.947%
Range			

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Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47266	83123.	94.957	355.71	2.7907	31326.
Stddev	.43415	2162.	1.654	8.52	.0507	828.
%RSD	91.854	2.6013	1.7415	2.3956	1.8177	2.6447
#1	-.74810	84920.	94.317	361.59	2.7710	31938.
#2	.02782	80723.	93.720	345.94	2.7528	30383.
#3	-.69768	83725.	96.836	359.61	2.8484	31657.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5873	53.438	236.17	311.17	F 196550.	9573.
Stddev	.0907	.434	3.60	4.82	5416.	206.
%RSD	15.44	.81209	1.5246	1.5497	2.7554	2.155
#1	.5851	52.940	237.09	312.13	200520.	9633.
#2	.4977	53.639	232.20	305.94	190380.	9343.
#3	.6790	53.736	239.22	315.45	198750.	9742.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44060.	2600.4	5.4076	570.61	152.49	391.24
Stddev	1231.	71.5	.2356	28.02	.17	3.12
%RSD	2.793	2.7482	4.3568	4.9105	.11398	.79743
#1	44860.	2632.1	5.6301	576.14	152.68	387.79
#2	42650.	2518.5	5.1608	540.23	152.42	392.07
#3	44680.	2650.5	5.4319	595.45	152.36	393.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14850	8.5499	325.6	.36008	145.30	581.98
Stddev	2.2204	.4105	5.8	.21284	2.94	1.42
%RSD	1495.2	4.8009	1.774	59.110	2.0205	.24426
#1	-1.5741	9.0033	327.2	.12662	145.70	581.08
#2	-1.2813	8.2037	319.2	.41028	142.18	581.24
#3	2.4098	8.4425	330.4	.54333	148.01	583.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37530.	11335.	525090.
Stddev	240.	209.	6196.
%RSD	.63971	1.8467	1.1799
#1	37506.	11235.	520680.
#2	37781.	11575.	532170.
#3	37303.	11193.	522420.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.693%	96.038%	94.178%
Range			

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Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0608	122370.	49.686	356.07	6.5960	15282.
Stddev	.2572	8506.	.430	23.46	.1439	1015.
%RSD	24.249	6.9507	.86600	6.5883	2.1822	6.6396
#1	-1.0941	123840.	50.041	361.40	6.4520	15570.
#2	-.78851	113220.	49.809	330.40	6.5962	14155.
#3	-1.2997	130040.	49.207	376.39	6.7398	16123.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0474	76.141	141.85	501.54	F 255520.	10030.
Stddev	.1133	.215	2.26	8.30	17209.	604.
%RSD	238.7	.28230	1.5943	1.6558	6.7348	6.020
#1	-.1766	76.041	139.58	494.30	259490.	10200.
#2	.0350	75.995	141.87	499.72	236680.	9353.
#3	-.0008	76.388	144.11	510.61	270400.	10520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50530.	1868.8	-.71063	613.31	239.81	81.971
Stddev	3375.	14.2	.15094	58.29	.54	2.373
%RSD	6.679	.75758	21.240	9.5050	.22350	2.8953
#1	51260.	1860.3	-.56697	605.47	239.98	80.989
#2	46850.	1861.0	-.69699	559.33	239.22	84.677
#3	53470.	1885.1	-.86792	675.13	240.25	80.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47192	3.2235	229.0	.09389	124.64	715.33
Stddev	3.1664	.8552	3.5	.21703	2.54	.98
%RSD	670.96	26.532	1.539	231.15	2.0343	.13727
#1	2.8132	2.3439	225.9	-.11097	122.11	714.23
#2	-.72463	3.2744	228.4	.32132	124.64	715.66
#3	-3.5044	4.0521	232.8	.07133	127.18	716.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37859.	11417.	534520.
Stddev	73.	567.	9684.
%RSD	.19333	4.9660	1.8118
#1	37936.	11224.	541450.
#2	37790.	12055.	538640.
#3	37853.	10972.	523450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.541%	96.734%	95.868%
Range			

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Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.90012	83187.	76.426	761.46	3.8471	117270.
Stddev	.19515	1207.	.131	13.55	.0600	1921.
%RSD	21.680	1.4512	.17151	1.7795	1.5600	1.6379
#1	.88723	84580.	76.557	777.02	3.9132	119450.
#2	.71173	82449.	76.427	752.24	3.8320	115830.
#3	1.1014	82532.	76.295	755.12	3.7960	116520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.10	63.214	375.99	1634.0	F 151230.	10690.
Stddev	.04	.098	3.49	20.9	2438.	119.
%RSD	.2015	.15436	.92874	1.2777	1.6123	1.110
#1	19.11	63.237	379.99	1658.1	154000.	10800.
#2	19.13	63.298	374.42	1622.2	149400.	10560.
#3	19.06	63.107	373.56	1621.7	150290.	10710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49970.	4176.6	.83810	1534.7	154.17	1253.9
Stddev	738.	18.0	.19325	42.6	.29	2.0
%RSD	1.476	.43139	23.058	2.7770	.19042	.15677
#1	50800.	4156.7	.98832	1583.8	153.86	1256.1
#2	49410.	4181.4	.62009	1508.6	154.20	1252.8
#3	49690.	4191.7	.90589	1511.6	154.44	1252.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.9793	6.6405	471.8	3.5360	358.71	1909.7
Stddev	1.7408	.8751	4.8	.8909	4.44	5.1
%RSD	17.444	13.178	1.016	25.196	1.2377	.26619
#1	7.9702	5.6658	477.4	2.5094	363.84	1915.2
#2	10.930	6.8972	469.3	3.9906	356.22	1908.6
#3	11.038	7.3586	468.9	4.1079	356.08	1905.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38190.	11300.	537070.
Stddev	97.	206.	1092.
%RSD	.25369	1.8214	.20340
#1	38201.	11072.	536130.
#2	38088.	11472.	538270.
#3	38281.	11356.	536810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.394%	95.746%	96.326%
Range			

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Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45290	136570.	59.365	396.05	6.2289	207430.
Stddev	.52193	1173.	.848	4.22	.0488	2430.
%RSD	115.24	.85899	1.4288	1.0650	.78359	1.1717
#1	-.97917	135470.	59.703	391.95	6.2852	204800.
#2	-.44410	136450.	58.400	395.82	6.2032	207890.
#3	.06458	137800.	59.993	400.38	6.1982	209590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7493	95.340	235.81	278.23	F 304460.	15190.
Stddev	.0742	.200	1.01	1.56	3050.	100.
%RSD	9.900	.20951	.42891	.56203	1.0018	.6575
#1	.7969	95.202	236.97	279.98	301160.	15120.
#2	.7872	95.569	235.15	276.97	305070.	15140.
#3	.6638	95.249	235.30	277.73	307170.	15300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104900.	7120.5	-.44028	666.85	243.35	193.93
Stddev	1129.	98.9	.38007	16.56	.46	1.42
%RSD	1.076	1.3894	86.324	2.4825	.19033	.73443
#1	103600.	7040.3	-.11170	652.74	243.81	195.49
#2	105300.	7090.1	-.35261	685.08	243.34	193.61
#3	105800.	7231.0	-.85652	662.73	242.89	192.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3920	6.4121	234.7	6.3039	205.21	762.96
Stddev	1.6765	1.2137	1.6	1.4531	1.48	.94
%RSD	120.44	18.928	.6604	23.051	.72096	.12365
#1	-3.2169	5.4574	236.4	7.8740	206.91	763.34
#2	.07999	6.0010	234.3	5.0064	204.30	763.66
#3	-1.0391	7.7780	233.4	6.0312	204.40	761.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37228.	11258.	528130.
Stddev	140.	84.	1071.
%RSD	.37517	.74202	.20279
#1	37340.	11310.	527140.
#2	37071.	11302.	529270.
#3	37273.	11161.	527980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.915%	95.388%	94.723%
Range			

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Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	745.07	48152.	2456.0	9642.2	999.01	48749.	982.5
Stddev	9.55	620.	2.6	133.3	10.27	533.	1.0
%RSD	1.2820	1.2883	.10702	1.3826	1.0278	1.0932	.1058
#1	742.34	47454.	2454.0	9488.5	998.47	48137.	983.3
#2	755.69	48362.	2455.0	9711.5	1009.5	48998.	981.3
#3	737.19	48640.	2459.0	9726.6	989.02	49112.	982.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4795.1	9968.1	11620.	24558.	37340.	50370.	4869.4
Stddev	4.2	123.0	394.	255.	641.	464.	116.1
%RSD	.08765	1.2336	3.3947	1.0400	1.717	.9205	2.3848
#1	4798.0	9932.7	11497.	24263.	36610.	49870.	4847.4
#2	4790.3	10105.	12062.	24693.	37620.	50460.	4994.9
#3	4797.0	9866.7	11303.	24717.	37800.	50780.	4765.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	962.61	25873.	4714.0	9362.3	2417.4	1217.8	972.5
Stddev	.97	294.	3.3	12.2	3.5	3.3	12.2
%RSD	.10049	1.1355	.07044	.13052	.14442	.27193	1.252
#1	963.48	25552.	4715.5	9375.6	2419.9	1216.7	969.5
#2	961.57	25936.	4710.1	9351.6	2413.4	1215.2	985.9
#3	962.78	26130.	4716.2	9359.7	2419.0	1221.5	962.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	934.76	2460.2	4891.7
Stddev	2.78	30.0	4.5
%RSD	.29698	1.2201	.09163
#1	937.91	2452.9	4896.2
#2	932.69	2493.2	4887.2
#3	933.67	2434.5	4891.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36205.	10821.	522480.
Stddev	262.	233.	7967.
%RSD	.72234	2.1511	1.5249
#1	35906.	11088.	523690.
#2	36324.	10660.	513970.
#3	36387.	10714.	529770.

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Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33657	4.9274	-1.1771	.05272	.04099	.81680	-.1638
Stddev	.61305	46.245	.4201	.64909	.01094	9.4809	.0697
%RSD	182.15	938.53	35.691	1231.3	26.686	1160.7	42.52
#1	.09632	28.175	-1.1841	.11877	.03255	-.78457	-.1388
#2	-.06795	34.936	-1.5937	.66626	.05334	-7.7614	-.2425
#3	-1.0381	-48.329	-.75355	-.62688	.03706	10.996	-.1101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00535	.15346	1.6838	8.8702	60.29	-15.17	.01009
Stddev	.21248	.21030	.7087	6.4659	101.6	68.25	.00162
%RSD	3970.7	137.04	42.092	72.895	168.6	450.0	16.092
#1	.16872	.36588	2.4833	1.7202	147.2	-53.54	.01178
#2	-.24213	.14916	1.1326	10.583	-51.42	-55.59	.00996
#3	.05736	-.05466	1.4354	14.307	85.05	63.64	.00854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1181	-35.538	-.16330	-.56262	-1.0678	-1.3276	.2055
Stddev	.2207	14.695	.42085	.93150	2.1573	1.0366	.2585
%RSD	19.740	41.349	257.71	165.56	202.03	78.078	125.8
#1	-.89168	-24.658	-.20365	-1.4468	-3.2523	-.19108	.1229
#2	-1.1299	-52.254	.27627	-.65101	-1.0122	-1.5708	-.0016
#3	-1.3326	-29.701	-.56253	.40992	1.0612	-2.2210	.4952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.69008	.02926	-.24069
Stddev	.91293	.26301	.11879
%RSD	132.29	898.81	49.353
#1	.36341	.25658	-.10394
#2	-1.2494	-.25881	-.29982
#3	-1.1842	.09002	-.31831
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37768.	10858.	554200.
Stddev	819.	120.	10113.
%RSD	2.1688	1.1021	1.8248
#1	36830.	10996.	552890.
#2	38338.	10783.	544810.
#3	38137.	10796.	564910.

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Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41453	211610.	615.03	959.91	10.864	108790.
Stddev	.56281	723.	1.56	3.25	.066	292.
%RSD	135.77	.34149	.25317	.33846	.60785	.26808
#1	-.34153	210840.	613.72	956.18	10.796	108480.
#2	-1.0103	211730.	614.62	962.12	10.928	108830.
#3	.10821	212270.	616.75	961.44	10.868	109060.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.245	142.52	320.74	875.90	F 426380.	20370.
Stddev	.063	.27	2.57	5.13	1037.	119.
%RSD	5.058	.19184	.80094	.58567	.24321	.5858
#1	-1.250	142.39	317.98	870.80	425370.	20240.
#2	-1.180	142.34	323.06	881.06	426320.	20390.
#3	-1.306	142.83	321.19	875.83	427440.	20470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90290.	7368.7	11.714	1919.7	335.21	3002.3
Stddev	415.	117.0	.372	10.6	.34	4.3
%RSD	.4596	1.5874	3.1725	.55288	.10215	.14222
#1	89880.	7253.6	12.139	1908.7	335.38	3004.8
#2	90270.	7487.5	11.556	1920.5	334.82	2997.4
#3	90710.	7365.0	11.447	1929.8	335.44	3004.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6818	9.9800	1304.	4.2843	319.06	1110.1
Stddev	2.1296	2.2694	7.	1.5973	2.59	.4
%RSD	57.842	22.739	.5668	37.282	.81036	.03671
#1	1.2919	10.689	1297.	5.2042	316.19	1110.1
#2	5.3783	7.4408	1311.	2.4399	321.22	1110.6
#3	4.3753	11.810	1305.	5.2087	319.78	1109.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37961.	11370.	534420.
Stddev	171.	152.	6574.
%RSD	.44925	1.3336	1.2300
#1	37773.	11430.	540290.
#2	38004.	11197.	527320.
#3	38105.	11482.	535660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.803%	96.337%	95.852%
Range			

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Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7113	238760.	77.342	529.82	6.8429	34207.
Stddev	.3808	2307.	.123	4.63	.1039	294.
%RSD	22.250	.96607	.15889	.87379	1.5180	.85924
#1	-1.6493	236200.	77.202	524.63	6.9582	33868.
#2	-2.1193	239400.	77.390	531.29	6.8139	34390.
#3	-1.3653	240680.	77.433	533.53	6.7566	34363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3031	131.95	241.39	326.05	F 429420.	17240.
Stddev	.0263	.64	2.84	3.98	3840.	183.
%RSD	8.681	.48396	1.1750	1.2195	.89423	1.062
#1	.2728	131.43	244.45	330.61	424990.	17080.
#2	.3180	132.66	240.87	324.26	431710.	17220.
#3	.3186	131.76	238.85	323.29	431570.	17440.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111300.	8478.0	6.3770	1280.7	325.25	176.08
Stddev	1041.	69.3	.2543	13.5	.46	3.39
%RSD	.9347	.81711	3.9871	1.0543	.14210	1.9258
#1	110200.	8424.1	6.2210	1287.6	324.77	176.65
#2	111800.	8453.8	6.6704	1265.2	325.70	179.14
#3	112100.	8556.2	6.2396	1289.4	325.29	172.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.84088	4.8504	578.3	5.1263	272.65	958.34
Stddev	2.1342	1.0596	7.2	.3089	3.53	1.12
%RSD	253.81	21.845	1.243	6.0251	1.2952	.11669
#1	-.75555	4.0104	586.4	5.2361	276.68	957.09
#2	1.2494	6.0408	575.8	5.3653	271.19	958.70
#3	-3.0165	4.5000	572.7	4.7776	270.08	959.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37591.	11223.	539200.
Stddev	100.	95.	4954.
%RSD	.26548	.84501	.91870
#1	37499.	11333.	533970.
#2	37697.	11170.	539810.
#3	37577.	11167.	543820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.850%	95.094%	96.709%
Range			

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Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.95549	180420.	714.17	555.32	20.342	37059.
Stddev	.36825	1378.	3.07	4.22	.212	290.
%RSD	38.540	.76394	.43022	.75945	1.0444	.78363
#1	-.56020	178890.	713.54	550.50	20.259	36759.
#2	-1.2888	180830.	711.46	557.14	20.184	37080.
#3	-1.0174	181550.	717.51	558.33	20.583	37339.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.920	406.99	481.08	2290.2	F 162100.	5709.
Stddev	.158	.50	4.76	20.9	1231.	123.
%RSD	4.038	.12390	.98914	.91247	.75943	2.155
#1	3.738	406.67	478.44	2280.3	160760.	5567.
#2	4.025	406.73	478.24	2276.0	162350.	5786.
#3	3.998	407.57	486.58	2314.2	163190.	5773.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14710.	3728.1	10.693	2499.8	299.85	832.25
Stddev	91.	18.1	.315	31.4	.46	1.82
%RSD	.6189	.48590	2.9433	1.2573	.15495	.21907
#1	14630.	3726.5	11.039	2463.5	299.66	830.16
#2	14690.	3710.9	10.618	2518.3	299.51	833.03
#3	14810.	3747.0	10.423	2517.6	300.38	833.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.3113	11.338	916.3	-1.0222	250.52	1625.5
Stddev	2.0335	1.477	8.8	1.5820	2.24	2.2
%RSD	24.467	13.030	.9615	154.76	.89552	.13261
#1	7.8890	12.708	912.0	-2.8252	248.95	1625.1
#2	10.523	9.7731	910.4	-.37471	249.51	1623.5
#3	6.5221	11.533	926.4	.13334	253.09	1627.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39750.	11399.	550880.
Stddev	178.	132.	2214.
%RSD	.44888	1.1582	.40182
#1	39597.	11278.	552190.
#2	39708.	11378.	552130.
#3	39946.	11540.	548320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.41%	96.581%	98.803%
Range			

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Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44169	234380.	288.44	642.48	13.594	285810.
Stddev	.51397	300.	.78	2.72	.055	822.
%RSD	116.37	.12807	.27076	.42257	.40229	.28759
#1	-.18499	234180.	288.21	639.36	13.647	284860.
#2	-.10662	234230.	287.81	643.89	13.596	286290.
#3	-1.0334	234730.	289.31	644.21	13.538	286270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.018	293.43	485.52	1032.9	F 430460.	19010.
Stddev	.114	.43	2.24	4.2	1193.	22.
%RSD	5.627	.14600	.46105	.40889	.27720	.1178
#1	2.018	293.13	487.96	1037.7	429080.	19020.
#2	1.904	293.24	485.03	1029.9	431100.	19020.
#3	2.131	293.92	483.57	1031.1	431180.	18990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105400.	9106.6	8.8447	3457.8	424.09	586.85
Stddev	346.	153.0	.1395	2.0	.11	.41
%RSD	.3285	1.6806	1.5771	.05807	.02650	.07000
#1	105100.	9277.3	8.9202	3455.8	424.04	587.22
#2	105400.	9061.0	8.9302	3457.7	424.01	586.40
#3	105800.	8981.6	8.6837	3459.8	424.21	586.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4941	10.681	938.4	6.1701	330.52	1552.0
Stddev	.4571	1.469	3.5	1.2817	1.53	.6
%RSD	8.3200	13.752	.3702	20.772	.46190	.04081
#1	4.9805	11.345	942.3	5.4184	332.18	1552.0
#2	5.6457	11.700	937.2	7.6500	330.22	1551.3
#3	5.8562	8.9971	935.7	5.4419	329.18	1552.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38168.	11503.	549800.
Stddev	124.	273.	5498.
%RSD	.32478	2.3754	1.0001
#1	38032.	11198.	543620.
#2	38196.	11586.	551610.
#3	38275.	11725.	554160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.337%	97.463%	98.609%
Range			

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Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03624	-1.5661	-.04030	1.0061	.03458	106.69	-.0100
Stddev	.33766	21.404	1.0454	.6965	.01208	1.72	.0736
%RSD	931.85	1366.7	2593.8	69.228	34.928	1.6119	737.2
#1	-.42597	-26.102	1.0927	1.4023	.04468	104.73	-.0734
#2	.14869	8.1229	-.96733	1.4142	.03786	107.42	.0708
#3	.16857	13.280	-.24630	.20189	.02120	107.93	-.0273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13201	.31298	1.2180	19.163	32.14	3.154	.22317
Stddev	.03309	.10506	.5898	13.085	21.86	52.14	.07194
%RSD	25.064	33.568	48.424	68.285	68.01	1653.	32.235
#1	-.16717	.34122	.70797	12.056	57.37	-34.78	.28221
#2	-.10150	.19668	1.8639	11.169	19.45	62.62	.14304
#3	-.12735	.40103	1.0822	34.264	19.59	-18.38	.24425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6340	-22.768	.07081	-.89758	-.93643	-.10551	1.221
Stddev	.1987	29.401	.22095	.44287	2.8009	.24645	.942
%RSD	7.5427	129.13	312.01	49.341	299.10	233.58	77.12
#1	-2.4654	-25.751	-.14984	-1.3216	-4.1587	.17904	.4832
#2	-2.8530	-50.564	.29205	-.43802	.43527	-.24476	2.282
#3	-2.5837	8.0104	.07022	-.93309	.91418	-.25082	.8987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0060	.18695	1.1238
Stddev	.7018	.28657	.1404
%RSD	34.983	153.29	12.496
#1	-1.5228	.07921	1.0686
#2	-1.6844	.51178	1.0193
#3	-2.8110	-.03014	1.2834
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39266.	11016.	560540.
Stddev	94.	112.	10692.
%RSD	.23882	1.0181	1.9075
#1	39331.	11145.	548770.
#2	39159.	10959.	563190.
#3	39309.	10943.	569650.

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Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.787	473.87	17.455	381.07	9.4784	9855.1	8.884
Stddev	.154	36.30	.451	1.65	.0162	64.2	.016
%RSD	.81953	7.6595	2.5817	.43224	.17040	.65145	.1828
#1	18.622	432.88	17.976	380.37	9.4965	9830.4	8.867
#2	18.927	501.93	17.182	379.88	9.4653	9807.0	8.886
#3	18.814	486.79	17.209	382.95	9.4735	9928.0	8.899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.547	19.156	48.051	192.75	9778.	9934.	29.257
Stddev	.073	.061	.843	21.53	90.	94.	.016
%RSD	.07883	.31850	1.7545	11.171	.9244	.9435	.05357
#1	92.618	19.226	48.759	192.00	9701.	9865.	29.275
#2	92.472	19.114	48.277	171.61	9755.	9897.	29.248
#3	92.551	19.129	47.118	214.65	9877.	10040.	29.248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5280	10373.	72.781	17.644	107.82	63.176	.5890
Stddev	.1293	74.	.256	.724	.84	.912	.0995
%RSD	5.1156	.71562	.35151	4.1035	.77831	1.4439	16.89
#1	-2.5775	10339.	73.024	17.759	108.47	63.110	.7039
#2	-2.3812	10321.	72.805	16.869	106.87	64.120	.5326
#3	-2.6253	10458.	72.514	18.303	108.13	62.299	.5306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.647	94.640	113.11
Stddev	.644	.350	.29
%RSD	1.4745	.37014	.26028
#1	42.954	94.987	113.33
#2	43.761	94.286	113.23
#3	44.226	94.647	112.78
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38337.	10955.	549240.
Stddev	208.	97.	849.
%RSD	.54359	.88558	.15452
#1	38499.	10923.	548780.
#2	38102.	10878.	548730.
#3	38410.	11064.	550220.

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Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1306	32414.	62.605	300.37	2.1265	42927.	.7369
Stddev	.2572	251.	1.761	2.68	.0063	259.	.1949
%RSD	22.750	.77308	2.8125	.89168	.29471	.60258	26.45
#1	1.3793	32144.	60.986	297.78	2.1297	42629.	.8527
#2	.86563	32458.	62.348	300.20	2.1307	43052.	.5119
#3	1.1469	32639.	64.480	303.13	2.1193	43099.	.8462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.780	109.21	635.40	74945.	5016.	12270.	1600.3
Stddev	.098	.54	5.56	493.	68.	71.	11.0
%RSD	.23447	.49162	.87430	.65736	1.351	.5821	.68561
#1	41.668	109.58	637.27	74398.	5061.	12200.	1606.1
#2	41.850	108.59	629.15	75085.	4938.	12270.	1587.6
#3	41.821	109.45	639.77	75353.	5049.	12340.	1607.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1098	829.15	104.65	2344.9	8.3954	5.3891	851.6
Stddev	.3634	24.89	.12	1.8	1.4401	.9884	8.0
%RSD	7.1117	3.0022	.11785	.07564	17.153	18.340	.9429
#1	5.3840	812.60	104.58	2347.0	7.4273	5.2033	857.5
#2	5.2478	817.06	104.79	2344.0	10.050	6.4571	842.5
#3	4.6976	857.77	104.58	2343.8	7.7086	4.5067	854.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.35934	83.833	457.93
Stddev	.86142	.874	.33
%RSD	239.72	1.0422	.07308
#1	-1.1665	84.496	458.19
#2	-.45916	82.843	458.06
#3	.54764	84.159	457.55
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38319.	11060.	537860.
Stddev	67.	53.	3349.
%RSD	.17505	.48369	.62261
#1	38363.	11056.	535960.
#2	38242.	11115.	541720.
#3	38353.	11008.	535890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.727%	93.708%	96.468%
Range			

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Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11967	6493.0	11.883	57.451	.45573	8338.6	-.0241
Stddev	.43412	18.3	.348	.914	.01308	32.5	.1302
%RSD	362.75	.28228	2.9278	1.5905	2.8711	.38969	539.9
#1	.35480	6500.2	12.272	57.322	.46281	8313.4	.0681
#2	-.49699	6506.7	11.772	58.422	.46375	8327.1	.0326
#3	-.21683	6472.2	11.603	56.608	.44063	8375.3	-.1730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.5748	21.581	123.42	14600.	958.5	2420.	310.60
Stddev	.0773	.125	1.55	22.	72.7	13.	2.23
%RSD	.90200	.57707	1.2532	.15331	7.583	.5342	.71800
#1	8.5490	21.669	125.16	14594.	994.8	2406.	312.60
#2	8.6617	21.635	122.89	14581.	874.8	2424.	310.99
#3	8.5136	21.439	122.20	14625.	1006.	2431.	308.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1838	123.11	20.998	467.77	.65933	3.4082	164.6
Stddev	.2448	20.73	.114	3.75	.71921	1.0598	1.9
%RSD	20.679	16.840	.54284	.80265	109.08	31.096	1.164
#1	-.90167	99.500	20.869	463.44	1.0448	3.1239	166.4
#2	-1.3096	138.35	21.038	470.13	1.1037	2.5195	164.9
#3	-1.3401	131.46	21.086	469.73	-.17045	4.5811	162.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.02843	16.309	89.261
Stddev	.87713	.466	.309
%RSD	3085.3	2.8593	.34672
#1	.11006	16.013	88.910
#2	.77122	16.846	89.378
#3	-.96657	16.066	89.494
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38907.	11105.	548400.
Stddev	154.	195.	7843.
%RSD	.39585	1.7547	1.4302
#1	39083.	10889.	540050.
#2	38801.	11268.	549530.
#3	38836.	11157.	555610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.24%	94.093%	98.358%
Range			

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Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4140	20583.	44.713	209.90	1.4000	24862.	.5411
Stddev	.5651	581.	1.441	4.43	.0129	657.	.0173
%RSD	8.8111	2.8251	3.2231	2.1106	.91818	2.6439	3.201
#1	6.2684	20122.	45.936	205.80	1.4103	24343.	.5219
#2	7.0377	20391.	45.080	209.30	1.4040	24643.	.5460
#3	5.9360	21236.	43.124	214.60	1.3856	25601.	.5555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.641	68.011	14438.	52084.	2871.	7415.	992.17
Stddev	.119	.941	285.	1464.	39.	190.	9.53
%RSD	.43090	1.3843	1.9706	2.8115	1.348	2.566	.96089
#1	27.513	68.292	14593.	50861.	2870.	7218.	996.90
#2	27.661	68.779	14611.	51685.	2832.	7429.	998.41
#3	27.748	66.960	14110.	53707.	2910.	7597.	981.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3607	483.54	67.941	933.40	1.8468	2.7138	567.3
Stddev	.1434	23.31	.346	.81	1.5398	1.8803	4.9
%RSD	4.2682	4.8215	.50979	.08667	83.379	69.286	.8712
#1	3.4571	458.32	68.150	934.33	3.3162	.57857	569.5
#2	3.1958	504.30	67.541	932.88	1.9790	4.1221	570.7
#3	3.4291	488.01	68.132	932.99	.24511	3.4407	561.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.6563	58.880	971.77
Stddev	.7437	.588	.68
%RSD	44.901	.99854	.06964
#1	-2.5132	59.175	972.37
#2	-1.1798	59.263	971.91
#3	-1.2758	58.203	971.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38572.	11045.	548030.
Stddev	38.	173.	7322.
%RSD	.09935	1.5695	1.3360
#1	38535.	11212.	544660.
#2	38611.	11057.	543000.
#3	38572.	10866.	556430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.379%	93.584%	98.293%
Range			

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Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.769	21394.	106.59	3500.0	86.304	36711.	81.79
Stddev	1.864	282.	1.24	25.1	1.866	321.	.41
%RSD	2.1235	1.3163	1.1632	.71795	2.1616	.87544	.5010
#1	88.917	21230.	106.02	3475.7	87.717	36465.	81.45
#2	88.772	21232.	105.74	3498.3	87.007	36593.	81.67
#3	85.619	21719.	108.02	3525.9	84.190	37075.	82.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	840.11	408.40	794.95	50896.	3257.	8973.	2281.7
Stddev	3.87	8.27	17.18	480.	47.	62.	64.1
%RSD	.46035	2.0259	2.1606	.94381	1.439	.6934	2.8101
#1	836.76	414.13	807.29	50487.	3281.	8950.	2280.1
#2	839.24	412.15	802.21	50777.	3203.	8925.	2346.6
#3	844.34	398.91	775.33	51425.	3287.	9043.	2218.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3539	550.85	859.70	971.09	79.734	162.09	868.4
Stddev	.1359	25.03	3.85	2.77	.880	2.20	17.5
%RSD	10.036	4.5437	.44767	.28550	1.1043	1.3567	2.016
#1	1.2590	522.57	856.52	970.31	80.723	163.12	881.1
#2	1.2931	559.81	858.61	968.80	79.446	163.59	875.7
#3	1.5096	570.16	863.98	974.17	79.034	159.57	848.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	83.212	897.34	1144.4
Stddev	.930	18.87	4.6
%RSD	1.1178	2.1026	.40591
#1	84.072	911.50	1140.8
#2	82.225	904.59	1142.8
#3	83.338	875.92	1149.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38266.	11012.	546680.
Stddev	168.	46.	12480.
%RSD	.43894	.41991	2.2828
#1	38424.	10997.	538670.
#2	38285.	11063.	540310.
#3	38090.	10974.	561060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.590%	93.301%	98.049%
Range			

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Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.946	31822.	79.735	673.40	11.965	50655.	9.658
Stddev	.087	135.	.925	4.93	.135	213.	.336
%RSD	.43469	.42415	1.1595	.73275	1.1308	.42054	3.475
#1	20.024	31737.	78.668	667.78	12.104	50419.	9.319
#2	19.853	31751.	80.292	675.39	11.833	50713.	9.991
#3	19.962	31977.	80.246	677.03	11.960	50833.	9.664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	133.11	123.80	640.50	71803.	14960.	21810.	1529.9
Stddev	.24	1.55	6.43	314.	74.	95.	16.2
%RSD	.17873	1.2533	1.0034	.43723	.4954	.4364	1.0615
#1	132.83	125.55	646.70	71455.	14870.	21830.	1546.4
#2	133.23	122.58	633.87	71889.	14990.	21710.	1513.9
#3	133.26	123.28	640.92	72064.	15010.	21900.	1529.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8491	11449.	173.27	2232.9	118.24	69.317	857.7
Stddev	.2464	32.	.44	1.7	.93	.675	5.4
%RSD	5.0813	.27674	.25389	.07720	.78620	.97423	.6312
#1	5.0973	11415.	173.09	2230.9	117.48	68.925	863.6
#2	4.8453	11454.	173.77	2234.0	119.28	70.097	853.0
#3	4.6046	11478.	172.96	2233.8	117.97	68.929	856.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.670	177.50	552.15
Stddev	.753	1.96	.61
%RSD	1.6861	1.1029	.11130
#1	44.508	179.33	551.52
#2	45.491	175.44	552.75
#3	44.012	177.74	552.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38059.	11103.	538530.
Stddev	32.	51.	6348.
%RSD	.08514	.46115	1.1787
#1	38024.	11162.	531650.
#2	38089.	11075.	544160.
#3	38063.	11072.	539780.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.055%	94.078%	96.588%
Range			

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Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34063	74685.	124.85	290.87	3.8180	12962.
Stddev	.40385	464.	1.90	2.33	.0303	75.
%RSD	118.56	.62141	1.5222	.80162	.79483	.57534
#1	-.05671	74216.	122.95	290.34	3.8526	12894.
#2	.32791	74695.	124.86	288.85	3.8060	12951.
#3	.75069	75144.	126.75	293.42	3.7956	13042.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.337	56.145	245.95	436.97	F 161800.	8037.
Stddev	.180	.275	1.32	2.38	697.	123.
%RSD	13.49	.48965	.53800	.54508	.43103	1.530
#1	1.518	56.072	247.32	439.72	161430.	7948.
#2	1.336	56.449	245.86	435.55	161360.	7987.
#3	1.157	55.914	244.68	435.64	162600.	8178.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35260.	2583.5	2.6503	652.07	163.92	353.25
Stddev	349.	8.9	.1012	10.63	.68	2.27
%RSD	.9883	.34525	3.8200	1.6307	.41612	.64343
#1	35080.	2580.4	2.7596	647.04	163.63	352.68
#2	35040.	2576.6	2.6316	664.28	164.70	355.75
#3	35660.	2593.6	2.5597	644.88	163.43	351.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9184	3.9467	1125.	.88891	159.60	744.13
Stddev	.8683	3.1244	6.	1.0297	1.15	2.45
%RSD	45.262	79.165	.5172	115.84	.72363	.32967
#1	2.7977	3.2064	1132.	1.4789	160.91	744.80
#2	1.8958	1.2590	1122.	-.30007	158.73	746.19
#3	1.0616	7.3748	1122.	1.4879	159.16	741.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38063.	10997.	533250.
Stddev	286.	88.	3521.
%RSD	.75022	.79914	.66024
#1	37842.	10968.	529680.
#2	37961.	11095.	533340.
#3	38385.	10927.	536720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.066%	93.175%	95.641%
Range			

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Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12758	87857.	258.26	433.32	3.8594	227940.
Stddev	.49186	2398.	.97	9.82	.0627	5624.
%RSD	385.52	2.7294	.37725	2.2665	1.6255	2.4675
#1	-.52157	87001.	257.44	430.79	3.7923	225960.
#2	.42368	86005.	258.00	425.01	3.9166	223570.
#3	-.28486	90566.	259.33	444.15	3.8693	234280.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.870	57.895	2067.5	680.30	F 177150.	9713.
Stddev	.210	.113	34.6	12.09	4369.	224.
%RSD	2.664	.19482	1.6714	1.7778	2.4659	2.307
#1	8.085	58.003	2027.9	666.51	175460.	9589.
#2	7.666	57.905	2091.4	689.10	173890.	9578.
#3	7.858	57.778	2083.2	685.29	182120.	9971.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67930.	3441.9	7.0773	3208.6	132.35	2086.0
Stddev	1754.	118.9	.3275	85.9	.23	2.0
%RSD	2.582	3.4556	4.6270	2.6780	.17256	.09613
#1	67260.	3309.3	6.7293	3193.0	132.22	2083.8
#2	66600.	3539.3	7.1231	3131.5	132.22	2086.3
#3	69920.	3477.0	7.3794	3301.2	132.61	2087.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.375	11.685	1485.	1.7610	201.07	1184.4
Stddev	.354	.854	25.	1.0052	2.97	.8
%RSD	1.3416	7.3099	1.717	57.084	1.4779	.06947
#1	26.504	11.728	1456.	2.9215	197.80	1184.2
#2	25.975	10.810	1504.	1.1606	203.60	1183.7
#3	26.646	12.516	1495.	1.2009	201.80	1185.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37144.	10993.	531540.
Stddev	55.	180.	9209.
%RSD	.14768	1.6354	1.7325
#1	37096.	11002.	542150.
#2	37133.	11168.	526850.
#3	37204.	10809.	525620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.699%	93.141%	95.334%
Range			

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Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2329	112330.	23.028	505.55	4.5082	10613.
Stddev	.3187	4683.	.981	22.02	.0408	450.
%RSD	25.855	4.1691	4.2588	4.3551	.90532	4.2440
#1	-.91955	117550.	22.229	530.14	4.5153	11117.
#2	-1.2222	110960.	24.123	498.83	4.5450	10471.
#3	-1.5568	108490.	22.734	487.67	4.4643	10251.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0823	67.425	370.49	138.23	F 214130.	9580.
Stddev	.2136	.280	1.25	1.48	8782.	322.
%RSD	259.6	.41554	.33692	1.0677	4.1013	3.365
#1	-.1046	67.406	370.24	137.25	223970.	9930.
#2	.3152	67.154	371.84	139.93	211330.	9512.
#3	.0363	67.714	369.38	137.52	207090.	9296.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48330.	2231.7	-.96684	467.80	159.77	100.23
Stddev	1833.	42.1	.07659	35.86	.22	4.53
%RSD	3.792	1.8877	7.9214	7.6655	.13719	4.5201
#1	50410.	2273.3	-1.0086	496.56	159.68	95.157
#2	47590.	2232.9	-1.0135	479.21	159.61	101.66
#3	46970.	2189.0	-.87845	427.62	160.02	103.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.2425	2.1530	275.1	-.30804	128.35	489.00
Stddev	1.3001	1.0117	.6	1.3092	.25	.67
%RSD	17.951	46.991	.2021	425.02	.19235	.13641
#1	8.2942	1.2320	275.6	.45090	128.36	488.67
#2	5.7890	1.9911	275.1	.44479	128.59	488.56
#3	7.6444	3.2360	274.5	-1.8198	128.09	489.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38270.	10829.	543630.
Stddev	80.	524.	2319.
%RSD	.20883	4.8397	.42652
#1	38187.	10239.	541920.
#2	38278.	11007.	542700.
#3	38346.	11241.	546270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.600%	91.751%	97.503%
Range			

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Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.81528	138360.	111.09	524.23	6.2093	50955.
Stddev	.38110	10558.	1.46	39.82	.0604	3889.
%RSD	46.745	7.6304	1.3132	7.5963	.97341	7.6331
#1	-1.0699	144310.	109.45	546.03	6.2621	53141.
#2	-.37714	144610.	112.23	548.38	6.2223	53259.
#3	-.99882	126170.	111.60	478.26	6.1434	46464.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3898	108.73	165.09	328.13	F 280600.	15290.
Stddev	.0936	.07	1.61	4.13	21745.	1024.
%RSD	24.01	.06622	.97361	1.2600	7.7492	6.701
#1	.2823	108.66	166.76	331.83	293050.	15870.
#2	.4343	108.71	164.96	328.89	293270.	15890.
#3	.4529	108.80	163.55	323.67	255500.	14100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69470.	6672.0	4.2779	387.38	241.32	216.68
Stddev	5253.	18.8	.1896	27.97	.45	4.10
%RSD	7.561	.28106	4.4316	7.2212	.18599	1.8928
#1	72430.	6693.7	4.1906	398.25	241.54	216.13
#2	72580.	6660.9	4.1477	408.28	241.63	212.88
#3	63410.	6661.5	4.4954	355.60	240.81	221.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22943	6.0030	375.7	5.3040	191.29	842.58
Stddev	.62629	1.9019	4.8	1.1569	1.91	.29
%RSD	272.97	31.683	1.273	21.812	.99648	.03480
#1	-.41423	6.2008	380.3	4.6968	193.30	842.61
#2	.83676	7.7982	376.2	6.6381	191.06	842.27
#3	.26577	4.0098	370.7	4.5770	189.51	842.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38239.	11650.	545170.
Stddev	148.	767.	3374.
%RSD	.38732	6.5870	.61890
#1	38140.	11313.	541300.
#2	38409.	11109.	546720.
#3	38168.	12528.	547490.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.520%	98.712%	97.779%
Range			

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Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34834	68271.	255.16	641.21	4.7696	198500.
Stddev	.24550	1125.	.59	9.03	.0725	2834.
%RSD	70.478	1.6483	.23222	1.4085	1.5207	1.4279
#1	.18420	66972.	255.81	630.79	4.8532	195270.
#2	.23026	68948.	254.65	646.04	4.7236	199670.
#3	.63058	68892.	255.03	646.80	4.7320	200560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.655	65.324	122.75	4013.7	F 157430.	9201.
Stddev	.146	.089	1.22	34.4	2244.	168.
%RSD	2.202	.13625	.99535	.85754	1.4256	1.828
#1	6.487	65.233	124.16	4053.4	154880.	9007.
#2	6.719	65.411	122.03	3994.5	158280.	9293.
#3	6.759	65.327	122.07	3993.1	159120.	9303.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102500.	4633.1	15.786	655.41	157.68	597.79
Stddev	1360.	70.0	.155	4.02	.48	.47
%RSD	1.327	1.5119	.98081	.61388	.30383	.07833
#1	101000.	4712.3	15.965	654.43	158.20	598.24
#2	102800.	4607.9	15.708	651.96	157.58	597.30
#3	103700.	4579.1	15.686	659.83	157.25	597.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.6222	13.951	798.5	11.649	147.65	951.37
Stddev	2.4253	1.965	6.5	1.901	1.19	1.79
%RSD	43.138	14.082	.8125	16.319	.80811	.18810
#1	6.1244	14.174	806.0	12.201	148.94	953.38
#2	7.7572	15.794	794.2	13.214	146.58	950.77
#3	2.9851	11.884	795.3	9.5336	147.45	949.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37053.	10921.	520350.
Stddev	29.	117.	2673.
%RSD	.07933	1.0683	.51376
#1	37021.	10897.	517260.
#2	37079.	10818.	522050.
#3	37060.	11048.	521720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.465%	92.534%	93.327%
Range			

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Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.98074	34965.	197.55	987.67	4.7721	128810.	.4655
Stddev	.22656	612.	1.60	17.69	.0459	2061.	.1526
%RSD	23.101	1.7509	.81032	1.7908	.96297	1.5997	32.77
#1	1.2103	34264.	198.78	967.58	4.7222	126460.	.3713
#2	.97461	35242.	195.74	994.53	4.8126	129680.	.6416
#3	.75731	35391.	198.13	1000.9	4.7815	130290.	.3838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.770	207.32	2801.3	117200.	5122.	20870.	1660.0
Stddev	.155	2.43	30.2	1767.	97.	319.	16.6
%RSD	.31070	1.1731	1.0768	1.5073	1.896	1.530	1.0006
#1	49.927	204.55	2767.5	115190.	5011.	20510.	1641.1
#2	49.618	208.35	2810.8	117900.	5163.	20950.	1666.7
#3	49.765	209.08	2825.5	118510.	5191.	21140.	1672.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.968	835.63	123.27	1368.2	.47013	9.0518	1425.
Stddev	.299	10.70	.44	2.4	.66607	.5001	14.
%RSD	1.0325	1.2805	.35631	.17828	141.68	5.5252	.9790
#1	29.271	834.69	123.53	1371.0	-.20694	8.8070	1409.
#2	28.673	846.76	123.51	1366.9	1.1246	9.6271	1431.
#3	28.959	825.42	122.76	1366.6	.49271	8.7212	1435.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	5.0894	119.03	405.89
Stddev	.5229	.91	1.33
%RSD	10.275	.76841	.32679
#1	5.1906	117.98	407.42
#2	4.5233	119.44	405.27
#3	5.5543	119.67	404.99
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38169.	11132.	540050.
Stddev	82.	265.	5497.
%RSD	.21516	2.3834	1.0179
#1	38212.	11439.	546290.
#2	38220.	10983.	537930.
#3	38074.	10975.	535920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.338%	94.324%	96.860%
Range			

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Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2897	137720.	96.413	498.36	5.5820	46186.
Stddev	.3337	1011.	1.398	4.74	.0734	393.
%RSD	25.875	.73433	1.4497	.95136	1.3142	.85073
#1	-1.0714	137300.	95.343	497.06	5.4973	46137.
#2	-1.6739	136970.	97.995	494.40	5.6260	45820.
#3	-1.1240	138870.	95.902	503.61	5.6227	46602.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5093	114.35	153.58	301.27	F 272460.	14980.
Stddev	.0446	.12	1.33	2.27	2205.	147.
%RSD	8.754	.10792	.86322	.75414	.80911	.9827
#1	.4659	114.48	152.06	298.94	272060.	14830.
#2	.5069	114.23	154.52	301.38	270480.	15010.
#3	.5550	114.33	154.15	303.49	274830.	15120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63480.	7468.7	4.2996	345.52	223.90	195.54
Stddev	484.	97.9	.2912	5.11	.24	1.57
%RSD	.7628	1.3106	6.7729	1.4792	.10760	.80202
#1	63300.	7372.4	4.5749	344.59	224.13	195.00
#2	63100.	7568.1	4.3292	351.04	223.93	197.31
#3	64020.	7465.6	3.9948	340.95	223.65	194.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5078	7.1004	390.5	7.7102	179.26	764.45
Stddev	2.3172	1.3002	3.6	.2541	1.81	.55
%RSD	153.68	18.312	.9333	3.2963	1.0077	.07188
#1	3.3816	8.2163	386.4	7.4288	177.17	764.64
#2	-1.0832	7.4122	391.8	7.7786	180.33	764.89
#3	2.2250	5.6726	393.3	7.9231	180.27	763.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38392.	11258.	546840.
Stddev	57.	57.	438.
%RSD	.14829	.50530	.08015
#1	38339.	11293.	546470.
#2	38452.	11192.	547320.
#3	38385.	11288.	546720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.914%	95.387%	98.079%
Range			

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Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	749.68	47694.	2461.2	9720.0	996.42	48691.	985.2
Stddev	4.88	1017.	12.9	217.5	14.48	1101.	3.9
%RSD	.65044	2.1322	.52530	2.2378	1.4530	2.2606	.3987
#1	744.10	47146.	2446.7	9545.1	997.33	47828.	980.7
#2	751.81	47068.	2465.2	9651.4	1010.4	48315.	986.9
#3	753.12	48867.	2471.6	9963.5	981.51	49931.	988.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4808.5	10042.	11782.	24365.	37620.	49860.	4833.8
Stddev	20.0	85.	69.	496.	859.	1041.	30.6
%RSD	.41648	.84779	.58375	2.0350	2.282	2.087	.63359
#1	4786.7	9945.7	11851.	23978.	36950.	49220.	4828.2
#2	4812.8	10074.	11780.	24195.	37320.	49300.	4806.4
#3	4826.1	10107.	11714.	24924.	38590.	51060.	4866.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	967.04	26042.	4735.5	9400.2	2423.6	1223.0	980.6
Stddev	4.09	564.	24.1	41.2	11.5	6.6	7.7
%RSD	.42283	2.1648	.50846	.43798	.47610	.53747	.7832
#1	962.33	25617.	4708.8	9357.1	2410.4	1215.7	971.9
#2	969.26	25827.	4741.9	9404.4	2431.7	1224.9	983.3
#3	969.55	26681.	4755.7	9439.1	2428.8	1228.4	986.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	937.98	2473.1	4905.6
Stddev	3.42	19.2	22.9
%RSD	.36490	.77484	.46749
#1	934.27	2451.3	4881.1
#2	938.67	2480.7	4909.0
#3	941.01	2487.3	4926.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35876.	10498.	519750.
Stddev	275.	60.	2251.
%RSD	.76520	.57524	.43315
#1	36136.	10545.	522250.
#2	35903.	10517.	519130.
#3	35589.	10430.	517880.

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Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08247	-3.3005	-.57806	.68827	.04176	-9.9966	-.3134
Stddev	.16660	125.60	1.0754	.77071	.00928	5.0450	.0536
%RSD	202.02	3805.4	186.04	111.98	22.220	50.467	17.11
#1	-.10536	-125.62	-1.8194	-.10891	.05229	-15.800	-.3449
#2	.14036	125.34	.07168	.74427	.03476	-6.6547	-.2515
#3	.21240	-9.616	.01352	1.4295	.03824	-7.5353	-.3438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14879	.20947	1.6040	11.047	76.67	-1.674	-.02301
Stddev	.20395	.23056	1.1655	6.555	69.66	6.023	.02785
%RSD	137.07	110.07	72.663	59.339	90.86	359.7	121.05
#1	.37703	.03378	2.8608	4.2780	11.09	5.170	.00831
#2	.08493	.47054	.55875	17.365	149.8	-6.166	-.04499
#3	-.01559	.12408	1.3924	11.498	69.11	-4.028	-.03234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5568	-39.380	-.30456	-.42374	.40650	.38951	.0933
Stddev	.2619	11.752	.01730	.17783	1.0920	.79541	.1228
%RSD	16.822	29.843	5.6794	41.966	268.64	204.21	131.7
#1	-1.4178	-49.914	-.31520	-.55097	-.82972	.78386	.2313
#2	-1.3937	-41.522	-.31387	-.22055	.80934	.91069	.0527
#3	-1.8589	-26.704	-.28460	-.49970	1.2399	-.52602	-.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.41837	.27629	-.14526
Stddev	1.2769	.23385	.07170
%RSD	305.20	84.638	49.364
#1	-.98653	.48759	-.08712
#2	-1.3126	.02504	-.22538
#3	1.0440	.31624	-.12327
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39205.	10664.	551020.
Stddev	1078.	101.	1579.
%RSD	2.7500	.94635	.28656
#1	38369.	10655.	550080.
#2	38825.	10569.	552840.
#3	40422.	10770.	550140.

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Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09633	28.757	-.00011	.22211	.04928	-30.009	-.3520
Stddev	.20717	83.231	1.4273	.09252	.01637	2.659	.1233
%RSD	215.06	289.43	1294800.	41.656	33.222	8.8609	35.03
#1	-.13010	-37.140	-.37725	.23880	.04992	-32.591	-.4872
#2	.14271	1.1192	-1.2010	.30516	.06533	-27.279	-.2456
#3	.27639	122.29	1.5779	.12238	.03260	-30.156	-.3233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19769	-.21525	.26014	6.8390	11.40	2.573	-.00858
Stddev	.14099	.33647	.69957	14.859	36.98	27.52	.04553
%RSD	71.319	156.32	268.92	217.26	324.4	1070.	530.40
#1	.03501	.06595	.04854	-4.7152	-17.13	24.04	.00910
#2	.27345	-.12367	1.0411	1.6318	-1.852	12.13	.02545
#3	.28459	-.58803	-.30921	23.600	53.18	-28.45	-.06031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5618	-49.579	-.17589	-.49594	-.98038	1.4530	.0677
Stddev	.0732	11.819	.09824	1.4070	1.8235	.6606	.1950
%RSD	2.8578	23.839	55.853	283.69	186.00	45.468	287.9
#1	-2.5749	-36.873	-.28587	-1.3076	.99017	2.1820	.1766
#2	-2.6275	-51.617	-.09683	1.1287	-2.6081	.89379	.1841
#3	-2.4829	-60.246	-.14496	-1.3089	-1.3232	1.2832	-.1574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.58239	.06059	.35574
Stddev	.30772	.11628	.11205
%RSD	52.838	191.93	31.499
#1	-.93707	.12179	.48348
#2	-.42363	.13349	.27402
#3	-.38647	-.07352	.30973
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39455.	10995.	569930.
Stddev	125.	299.	10103.
%RSD	.31649	2.7213	1.7727
#1	39369.	10868.	563610.
#2	39598.	11336.	564590.
#3	39398.	10780.	581580.

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Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.796	401.85	20.639	404.43	10.245	10364.	9.820
Stddev	.410	57.72	.540	5.73	.124	164.	.172
%RSD	1.9721	14.365	2.6170	1.4158	1.2091	1.5799	1.754
#1	20.436	338.86	21.001	398.47	10.180	10190.	9.691
#2	20.709	452.23	20.018	409.89	10.167	10516.	9.753
#3	21.243	414.45	20.898	404.92	10.388	10385.	10.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.04	20.921	50.181	208.27	10510.	10610.	31.515
Stddev	.46	.425	.726	12.37	60.	183.	.355
%RSD	.45304	2.0294	1.4474	5.9411	.5736	1.727	1.1274
#1	100.71	20.660	50.687	195.78	10450.	10420.	31.443
#2	100.84	20.691	49.349	208.51	10560.	10780.	31.201
#3	101.56	21.410	50.507	220.53	10530.	10620.	31.900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5952	11150.	79.125	19.547	122.66	73.027	.3749
Stddev	.1579	136.	.634	2.234	1.59	2.014	.1013
%RSD	6.0835	1.2219	.80111	11.427	1.2946	2.7580	27.02
#1	-2.5867	11023.	78.822	20.306	124.34	73.235	.2915
#2	-2.4417	11294.	78.700	17.033	122.45	70.917	.3456
#3	-2.7571	11133.	79.854	21.303	121.19	74.929	.4876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	50.355	100.72	123.35
Stddev	1.494	1.20	.66
%RSD	2.9666	1.1956	.53778
#1	49.259	100.67	122.85
#2	49.749	99.551	123.11
#3	52.056	101.96	124.11
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37589.	10754.	538470.
Stddev	289.	106.	6214.
%RSD	.76808	.98942	1.1539
#1	37803.	10871.	539850.
#2	37703.	10727.	543880.
#3	37260.	10663.	531680.

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Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35745	-23.980	-1.5093	-.15910	.03796	-26.237	-.2378
Stddev	.16028	54.516	.9953	.17342	.01247	1.787	.1460
%RSD	44.841	227.34	65.947	109.00	32.847	6.8100	61.40
#1	-.50210	-86.476	-2.5563	.04115	.02603	-26.644	-.3160
#2	-.38512	13.801	-.57521	-.25911	.03693	-27.785	-.3281
#3	-.18513	.7339	-1.3964	-.25933	.05091	-24.282	-.0693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15707	.02594	2.3458	21.022	-45.73	-16.53	2.3513
Stddev	.04474	.11163	1.0584	9.570	43.37	39.03	.0725
%RSD	28.482	430.32	45.119	45.524	94.84	236.2	3.0849
#1	.10546	-.10188	3.3112	26.824	4.068	-7.131	2.3729
#2	.18110	.07547	1.2141	9.9762	-66.04	-59.40	2.2704
#3	.18467	.10423	2.5119	26.266	-75.21	16.95	2.4105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5692	-47.925	-.08450	.22463	.90433	-.95940	.2644
Stddev	.1272	13.814	.27536	1.1195	1.1181	.37167	.0422
%RSD	4.9509	28.823	325.89	498.38	123.64	38.740	15.97
#1	-2.6868	-54.443	.20063	1.1706	2.1948	-.56365	.2807
#2	-2.4342	-57.273	-.10520	.51465	.22673	-1.0135	.2165
#3	-2.5866	-32.058	-.34892	-1.0113	.29142	-1.3011	.2961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54064	.15309	.40824
Stddev	.84039	.08801	.06642
%RSD	155.44	57.489	16.269
#1	1.5108	.05862	.37905
#2	.03883	.16790	.36142
#3	.07224	.23276	.48425
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39187.	10829.	557080.
Stddev	130.	358.	7345.
%RSD	.33207	3.3054	1.3184
#1	39067.	10702.	552580.
#2	39325.	10551.	565550.
#3	39169.	11233.	553100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.96%	91.751%	99.915%
Range			

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Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03454	-24.222	-.62143	.72830	.02897	8.6978	-.0466
Stddev	.46286	42.075	.92516	.20584	.00451	3.5620	.2004
%RSD	1340.2	173.71	148.87	28.263	15.575	40.953	430.1
#1	.49731	23.576	-.77961	.59899	.03007	11.094	-.0739
#2	-.34626	-40.583	-1.4573	.96566	.03283	4.6046	.1661
#3	-.25465	-55.659	.37261	.62024	.02401	10.395	-.2320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10691	-.31811	.83674	7.4754	-58.91	5.236	.40828
Stddev	.17301	.28010	1.5980	3.7860	48.86	18.37	.02787
%RSD	161.82	88.054	190.98	50.647	82.95	350.8	6.8261
#1	.14932	-.06052	.84669	4.1525	-106.6	8.852	.41952
#2	-.08335	-.27750	2.4297	6.6766	-8.962	21.52	.42877
#3	.25477	-.61630	-.76621	11.597	-61.14	-14.67	.37654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6107	-32.241	-.07413	.51635	-1.2351	.39457	1.010
Stddev	.1371	20.154	.26889	1.3560	1.6192	1.4030	.594
%RSD	5.2511	62.510	362.72	262.61	131.10	355.58	58.77
#1	-2.4739	-9.8131	.23389	-.07745	-2.7138	-1.1481	.3251
#2	-2.6100	-48.832	-.26194	2.0680	-1.4866	.73741	1.331
#3	-2.7481	-38.077	-.19434	-.44146	.49518	1.5944	1.374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.4232	.18806	.04033
Stddev	.7241	.24241	.08100
%RSD	29.884	128.90	200.85
#1	-3.1479	-.00047	.08569
#2	-2.4221	.10313	-.05319
#3	-1.6996	.46150	.08847
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38899.	10890.	557640.
Stddev	46.	126.	10253.
%RSD	.11866	1.1544	1.8387
#1	38933.	10849.	552680.
#2	38919.	11031.	550810.
#3	38847.	10789.	569430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.22%	92.267%	100.02%
Range			

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Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12763	47.112	.07776	.01408	.05951	-17.916	-.2107
Stddev	.07922	69.403	.59741	.69479	.01174	.913	.0744
%RSD	62.067	147.32	768.31	4932.9	19.734	5.0963	35.33
#1	-.06901	4.3259	-.09785	-.52976	.06169	-17.170	-.1298
#2	-.09613	9.8208	-.41217	.79681	.04683	-17.644	-.2258
#3	-.21775	127.19	.74328	-.22480	.07001	-18.934	-.2764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26988	.03616	3.6108	18.191	-16.58	24.89	2.3419
Stddev	.09674	.33287	1.1874	7.530	18.82	59.02	.0565
%RSD	35.847	920.58	32.885	41.392	113.5	237.1	2.4143
#1	.30733	.17747	4.1111	24.117	-29.37	-34.36	2.4034
#2	.34229	.27506	2.2551	9.7181	-25.40	83.67	2.3301
#3	.16001	-.34405	4.4662	20.738	5.037	25.37	2.2921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.7007	-25.801	.13406	.10516	-2.1926	-.64733	.1124
Stddev	.1814	5.167	.10727	.77671	.2186	2.0133	.1886
%RSD	6.7149	20.027	80.013	738.57	9.9699	311.02	167.8
#1	-2.5947	-29.526	.01348	-.17075	-1.9840	.28650	.1732
#2	-2.5973	-27.974	.21887	.98217	-2.1739	.72951	.2632
#3	-2.9101	-19.902	.16984	-.49592	-2.4200	-2.9580	-.0991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.9910	-.00729	.73413
Stddev	1.0910	.52169	.10398
%RSD	54.795	7154.8	14.164
#1	-1.7991	.54527	.61686
#2	-1.0087	-.49133	.77046
#3	-3.1651	-.07581	.81508
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38768.	10804.	549560.
Stddev	56.	109.	9291.
%RSD	.14346	1.0114	1.6906
#1	38821.	10860.	539520.
#2	38710.	10678.	557860.
#3	38773.	10873.	551290.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.882%	91.539%	98.566%
Range			

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Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.992	2124.1	40.083	1997.3	50.823	-17.589	49.64
Stddev	1.109	26.1	.323	34.8	.501	4.157	.17
%RSD	2.0545	1.2310	.80587	1.7424	.98609	23.636	.3487
#1	55.145	2094.2	40.409	1958.6	51.289	-20.629	49.77
#2	52.933	2142.3	40.077	2007.3	50.293	-19.287	49.71
#3	53.897	2135.9	39.763	2026.0	50.885	-12.852	49.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	510.11	210.03	255.82	1047.2	-55.39	6.438	538.62
Stddev	.63	2.33	3.13	23.1	82.04	16.21	6.33
%RSD	.12421	1.1092	1.2248	2.2020	148.1	251.8	1.1752
#1	509.70	212.55	258.35	1021.5	-140.3	24.88	544.68
#2	509.79	207.95	252.32	1054.1	23.44	-5.547	532.05
#3	510.84	209.59	256.79	1066.0	-49.30	-.0244	539.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.9335	-69.754	504.75	19.716	101.53	103.22	.2119
Stddev	.2009	25.484	.43	1.756	.43	1.73	.0772
%RSD	6.8501	36.534	.08484	8.9074	.42706	1.6780	36.42
#1	-2.7066	-60.657	505.10	21.607	101.06	102.36	.1229
#2	-3.0050	-50.068	504.27	19.403	101.62	105.21	.2604
#3	-3.0889	-98.538	504.89	18.137	101.91	102.08	.2525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	53.886	503.30	510.24
Stddev	1.145	5.97	.47
%RSD	2.1256	1.1860	.09190
#1	55.191	508.80	510.03
#2	53.049	496.95	509.92
#3	53.417	504.15	510.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38848.	11111.	549880.
Stddev	80.	65.	7522.
%RSD	.20697	.58387	1.3680
#1	38939.	11166.	542740.
#2	38816.	11127.	557740.
#3	38788.	11039.	549160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	94.140%	98.624%
Range			

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Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.957	412.17	19.326	386.02	10.140	9954.4	9.461
Stddev	.930	47.22	.927	6.00	.387	182.5	.102
%RSD	4.4386	11.457	4.7971	1.5547	3.8208	1.8332	1.080
#1	20.877	357.69	19.177	379.50	10.169	9775.6	9.376
#2	21.924	441.37	20.318	387.22	10.513	9947.2	9.575
#3	20.069	437.45	18.482	391.32	9.7395	10140.	9.434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	98.515	20.811	51.362	224.28	10140.	10260.	33.228
Stddev	.346	1.255	3.207	7.18	196.	143.	1.299
%RSD	.35108	6.0294	6.2431	3.1992	1.927	1.397	3.9094
#1	98.909	21.162	51.448	216.43	9974.	10120.	33.379
#2	98.377	21.853	54.525	230.51	10100.	10270.	34.445
#3	98.260	19.418	48.113	225.89	10360.	10400.	31.860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6405	10684.	77.355	18.323	113.62	71.422	.2135
Stddev	.1842	191.	.377	.647	.75	.657	.2016
%RSD	6.9740	1.7884	.48726	3.5284	.66067	.91937	94.43
#1	-2.8008	10498.	77.517	17.816	114.12	72.019	-.0122
#2	-2.4394	10675.	77.624	19.051	113.97	71.530	.2770
#3	-2.6814	10880.	76.924	18.102	112.75	70.719	.3758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.517	99.433	120.52
Stddev	.736	3.250	.48
%RSD	1.4858	3.2685	.40188
#1	49.357	99.492	121.06
#2	48.875	102.65	120.39
#3	50.320	96.154	120.12
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37733.	10914.	533070.
Stddev	347.	178.	23237.
%RSD	.92023	1.6278	4.3590
#1	37334.	11028.	533730.
#2	37902.	11005.	509520.
#3	37963.	10709.	555980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.216%	92.475%	95.610%
Range			

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Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55827	65729.	29.705	316.14	2.8808	56918.	1.930
Stddev	.15909	429.	1.232	1.75	.0643	307.	.033
%RSD	28.497	.65268	4.1484	.55398	2.2318	.53996	1.727
#1	-.74175	65322.	29.326	314.23	2.8072	56584.	1.962
#2	-.47427	65688.	28.706	316.50	2.9263	56983.	1.896
#3	-.45878	66177.	31.082	317.68	2.9089	57188.	1.931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.268	79.620	171.29	120230.	7257.	42880.	4865.7
Stddev	.110	1.999	4.61	545.	39.	167.	83.5
%RSD	.22362	2.5108	2.6906	.45321	.5324	.3893	1.7160
#1	49.395	77.321	166.04	119730.	7245.	42730.	4774.0
#2	49.220	80.948	174.70	120150.	7300.	42860.	4937.4
#3	49.191	80.591	173.12	120810.	7226.	43060.	4885.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.69812	230.10	105.29	264.83	.78043	5.5027	229.3
Stddev	.22068	20.98	.26	1.11	1.2045	1.5085	5.3
%RSD	31.610	9.1200	.24393	.41904	154.34	27.413	2.291
#1	-.58658	230.17	105.54	265.83	1.1317	7.1639	223.3
#2	-.95230	251.06	105.03	265.01	-.56067	5.1256	233.0
#3	-.55547	209.09	105.31	263.64	1.7702	4.2186	231.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.1580	100.29	603.59
Stddev	.6644	2.44	1.75
%RSD	21.039	2.4345	.28992
#1	3.5984	97.560	605.29
#2	2.3937	102.26	603.70
#3	3.4817	101.06	601.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37732.	10878.	533670.
Stddev	108.	115.	13058.
%RSD	.28647	1.0557	2.4469
#1	37700.	10778.	548750.
#2	37643.	10851.	525750.
#3	37852.	11003.	526520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.212%	92.167%	95.717%
Range			

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Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15650	13125.	4.5680	62.709	.58206	11471.	.1549
Stddev	.74692	100.	1.0529	.558	.02701	120.	.0855
%RSD	477.27	.76379	23.049	.88997	4.6398	1.0476	55.23
#1	-.43244	13010.	5.2415	62.174	.55423	11370.	.2345
#2	-.72619	13169.	3.3547	62.666	.60816	11438.	.0645
#3	.68913	13196.	5.1079	63.288	.58380	11604.	.1656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.386	16.313	35.397	24197.	1477.	8709.	982.49
Stddev	.174	.324	.365	227.	57.	80.	10.66
%RSD	1.6800	1.9868	1.0315	.93886	3.887	.9192	1.0847
#1	10.222	15.973	35.034	23964.	1501.	8629.	971.73
#2	10.367	16.618	35.394	24208.	1519.	8710.	993.04
#3	10.569	16.347	35.764	24418.	1412.	8789.	982.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3399	8.2676	21.583	55.442	-1.4851	1.1246	46.99
Stddev	.2004	22.875	.191	1.310	.3153	.1915	.74
%RSD	8.5624	276.68	.88658	2.3626	21.229	17.029	1.580
#1	-2.4590	19.146	21.385	56.815	-1.3483	.98504	46.18
#2	-2.4521	-18.016	21.598	55.305	-1.8457	1.0457	47.62
#3	-2.1086	23.673	21.767	54.206	-1.2614	1.3429	47.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.46756	19.973	123.09
Stddev	.77863	.084	.46
%RSD	166.53	.42221	.37597
#1	-.53338	20.016	122.55
#2	.34188	20.027	123.33
#3	-1.2112	19.876	123.38
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38086.	10747.	542550.
Stddev	77.	63.	7241.
%RSD	.20117	.58299	1.3346
#1	38123.	10815.	548310.
#2	37998.	10690.	534420.
#3	38138.	10737.	544920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.127%	91.063%	97.309%
Range			

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Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32059	51418.	23.273	254.89	2.2368	45913.	1.484
Stddev	.78875	402.	.813	2.10	.0858	300.	.117
%RSD	246.03	.78206	3.4934	.82285	3.8346	.65441	7.892
#1	.39352	50992.	23.991	252.53	2.3130	45566.	1.356
#2	-.18810	51471.	23.439	255.60	2.2535	46074.	1.585
#3	-1.1672	51791.	22.390	256.53	2.1439	46098.	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.953	65.073	147.55	94417.	6370.	37190.	2493.5
Stddev	.227	1.860	4.68	609.	97.	282.	52.0
%RSD	.63166	2.8582	3.1739	.64473	1.519	.7575	2.0850
#1	36.200	66.796	152.43	93723.	6265.	36890.	2531.8
#2	35.754	65.323	147.14	94673.	6455.	37220.	2514.3
#3	35.905	63.101	143.09	94857.	6390.	37450.	2434.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70381	215.70	79.681	214.07	-.69821	5.3866	231.9
Stddev	.17325	14.97	.706	1.00	.36099	1.7630	7.4
%RSD	24.615	6.9378	.88664	.46945	51.703	32.729	3.182
#1	-.70490	231.43	80.436	215.07	-.59010	4.0391	239.6
#2	-.53002	201.64	79.570	214.06	-.40363	7.3818	231.4
#3	-.87651	214.03	79.036	213.06	-1.1009	4.7389	224.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.26742	79.511	481.07
Stddev	.92608	2.466	3.11
%RSD	346.30	3.1021	.64611
#1	.68601	81.957	484.33
#2	-1.1635	79.552	480.73
#3	-.32479	77.025	478.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37416.	10649.	530900.
Stddev	211.	84.	12852.
%RSD	.56509	.78522	2.4207
#1	37618.	10731.	518830.
#2	37433.	10653.	529480.
#3	37196.	10564.	544410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.398%	90.232%	95.221%
Range			

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Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.576	48949.	57.952	2033.7	47.419	45574.	43.76
Stddev	1.257	459.	1.041	11.6	.407	294.	.13
%RSD	2.8209	.93848	1.7962	.56812	.85735	.64594	.2952
#1	45.998	48420.	58.472	2020.7	47.888	45266.	43.91
#2	44.122	49187.	56.753	2037.7	47.162	45605.	43.70
#3	43.609	49242.	58.631	2042.8	47.207	45852.	43.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	459.61	241.42	360.44	87192.	5960.	35240.	2999.9
Stddev	2.19	2.02	3.69	528.	115.	283.	44.5
%RSD	.47634	.83655	1.0235	.60538	1.921	.8017	1.4824
#1	461.87	243.74	364.58	86687.	5828.	34920.	3050.3
#2	459.46	240.07	359.23	87150.	6029.	35400.	2982.9
#3	457.50	240.46	357.51	87740.	6023.	35420.	2966.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.96097	170.00	491.30	239.08	22.551	82.914	203.3
Stddev	.00691	12.81	1.79	1.39	.219	2.447	1.6
%RSD	.71881	7.5386	.36466	.58018	.97288	2.9511	.7754
#1	-.96663	155.24	493.23	240.60	22.418	84.577	205.1
#2	-.95327	176.38	490.98	238.75	22.432	84.061	202.7
#3	-.96301	178.36	489.69	237.89	22.805	80.105	202.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.607	517.05	924.26
Stddev	.847	3.97	4.09
%RSD	1.9434	.76697	.44239
#1	43.718	521.60	928.34
#2	42.710	514.32	924.28
#3	44.394	515.23	920.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37291.	10675.	528700.
Stddev	82.	90.	4418.
%RSD	.22063	.84027	.83557
#1	37196.	10612.	523630.
#2	37333.	10635.	531700.
#3	37343.	10777.	530770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.076%	90.445%	94.826%
Range			

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Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.267	66610.	54.793	823.76	15.431	68998.	13.34
Stddev	.440	352.	.498	6.24	.154	495.	.03
%RSD	1.7412	.52795	.90835	.75757	.99671	.71735	.2405
#1	25.775	66292.	54.706	817.10	15.575	68500.	13.31
#2	24.996	66549.	55.328	824.72	15.269	69003.	13.38
#3	25.031	66988.	54.344	829.47	15.449	69490.	13.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	165.92	107.25	231.62	119180.	21390.	55280.	4831.9
Stddev	.56	.60	1.99	703.	282.	600.	54.8
%RSD	.33633	.55667	.86002	.58981	1.316	1.086	1.1341
#1	166.56	107.93	233.59	118490.	21090.	54690.	4893.0
#2	165.64	106.83	229.61	119150.	21440.	55270.	4787.1
#3	165.56	106.99	231.67	119900.	21650.	55890.	4815.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45021	14061.	196.86	287.77	140.09	87.525	362.9
Stddev	.25133	154.	.48	2.04	1.21	1.327	3.3
%RSD	55.826	1.0986	.24494	.71012	.86297	1.5162	.9206
#1	-.71031	13905.	197.42	289.67	139.23	86.546	365.7
#2	-.20867	14066.	196.53	288.03	139.56	89.035	359.2
#3	-.43165	14213.	196.64	285.61	141.47	86.994	363.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	58.726	225.68	755.29
Stddev	.726	1.59	2.24
%RSD	1.2362	.70362	.29722
#1	58.700	227.22	757.86
#2	59.465	224.04	753.68
#3	58.014	225.79	754.35
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36823.	10406.	520390.
Stddev	99.	200.	3753.
%RSD	.26851	1.9238	.72126
#1	36743.	10631.	516270.
#2	36792.	10337.	523610.
#3	36933.	10249.	521300.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.871%	88.167%	93.335%
Range			

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Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21863	57486.	33.741	232.36	2.5873	226990.	1.087
Stddev	.67510	42.	.807	.87	.0536	376.	.080
%RSD	308.78	.07234	2.3922	.37510	2.0714	.16568	7.324
#1	.52399	57461.	34.669	231.77	2.6166	226750.	1.109
#2	-.79522	57462.	33.353	231.96	2.6199	226780.	.9984
#3	-.38467	57534.	33.201	233.37	2.5255	227420.	1.153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.664	78.563	149.58	126040.	7751.	137300.	3937.8
Stddev	.129	1.354	3.33	424.	58.	261.	31.8
%RSD	.30301	1.7241	2.2288	.33646	.7509	.1899	.80861
#1	42.782	79.195	150.94	125670.	7685.	137000.	3974.3
#2	42.682	79.485	152.02	125950.	7795.	137500.	3922.6
#3	42.526	77.008	145.78	126500.	7772.	137400.	3916.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12348	514.46	98.003	101.85	-1.8522	4.0646	156.1
Stddev	.09712	17.98	.517	1.52	3.9273	3.3956	2.3
%RSD	78.647	3.4953	.52766	1.4918	212.03	83.540	1.474
#1	-.23551	523.93	98.582	103.22	-5.7990	1.9106	157.1
#2	-.07185	525.73	97.839	102.12	-1.8130	7.9788	157.7
#3	-.06309	493.72	97.587	100.22	2.0554	2.3043	153.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6962	82.593	384.42
Stddev	1.2261	1.113	2.48
%RSD	72.283	1.3481	.64398
#1	3.0150	82.961	387.06
#2	1.4828	83.476	384.04
#3	.59086	81.342	382.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36040.	10311.	508500.
Stddev	162.	34.	6753.
%RSD	.45081	.33257	1.3280
#1	36172.	10344.	506440.
#2	35859.	10275.	503010.
#3	36090.	10312.	516040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.855%	87.361%	91.202%
Range			

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Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11028	27978.	23.338	169.26	1.3940	23557.	.6742
Stddev	.32062	244.	.604	1.99	.0273	112.	.1046
%RSD	290.74	.87308	2.5885	1.1778	1.9557	.47749	15.52
#1	.25230	27962.	24.022	168.00	1.4027	23524.	.6656
#2	-.22677	27743.	22.877	168.23	1.4159	23464.	.7829
#3	-.35637	28230.	23.116	171.56	1.3635	23682.	.5742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.211	52.269	142.53	60955.	3215.	16560.	1734.0
Stddev	.198	.464	.84	315.	42.	62.	14.3
%RSD	.89205	.88860	.59210	.51608	1.300	.3765	.82458
#1	22.196	51.754	141.80	60913.	3191.	16570.	1727.1
#2	22.416	52.656	143.45	60664.	3191.	16490.	1750.5
#3	22.021	52.398	142.34	61289.	3264.	16610.	1724.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23870	161.22	53.676	355.40	-.10630	3.5211	114.2
Stddev	.13633	4.85	.384	1.44	.94188	1.2902	.7
%RSD	57.115	3.0085	.71548	.40556	886.03	36.642	.6307
#1	-.21713	155.86	53.685	356.92	.78205	3.0805	113.6
#2	-.11444	165.30	54.055	355.22	-1.0939	2.5088	115.0
#3	-.38452	162.51	53.288	354.05	-.00710	4.9738	113.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.79512	73.073	358.01
Stddev	1.8388	.282	1.44
%RSD	231.26	.38646	.40154
#1	-.75116	73.184	359.46
#2	2.8284	73.283	357.97
#3	.30813	72.752	356.59
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37663.	10588.	541640.
Stddev	107.	29.	3861.
%RSD	.28280	.27740	.71275
#1	37594.	10594.	541240.
#2	37610.	10613.	538000.
#3	37786.	10556.	545690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.036%	89.709%	97.146%
Range			

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Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01718	51515.	23.121	216.33	2.2611	65980.	1.094
Stddev	.41017	738.	.234	2.98	.0261	1126.	.153
%RSD	2387.5	1.4319	1.0119	1.3783	1.1552	1.7063	13.99
#1	-.48738	50807.	23.112	213.74	2.2534	64802.	1.263
#2	.26712	51459.	22.892	215.65	2.2397	66093.	.9640
#3	.16872	52279.	23.360	219.59	2.2902	67045.	1.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.914	67.230	133.10	102310.	6292.	37520.	3047.7
Stddev	.207	1.147	1.44	1752.	50.	748.	28.3
%RSD	.53249	1.7056	1.0784	1.7125	.7989	1.993	.92980
#1	39.063	66.905	132.58	100470.	6245.	36750.	3070.3
#2	38.677	66.282	132.00	102500.	6287.	37580.	3015.9
#3	39.001	68.505	134.72	103960.	6345.	38240.	3056.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.79293	274.27	89.559	158.56	-.81466	.28616	185.2
Stddev	.42580	21.58	.258	1.42	1.6742	2.0681	2.6
%RSD	53.700	7.8666	.28786	.89760	205.51	722.70	1.404
#1	-1.1366	250.26	89.267	157.40	.53043	-1.7715	183.9
#2	-.92562	292.04	89.755	160.15	-2.6897	2.3645	183.6
#3	-.31657	280.50	89.655	158.14	-.28474	.26541	188.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98367	93.213	536.30
Stddev	.95335	1.028	1.12
%RSD	96.917	1.1029	.20830
#1	.36335	93.214	537.46
#2	.50626	92.184	535.23
#3	2.0814	94.240	536.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37419.	10498.	525880.
Stddev	242.	146.	6946.
%RSD	.64563	1.3945	1.3207
#1	37617.	10635.	523200.
#2	37490.	10515.	533770.
#3	37150.	10344.	520690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.407%	88.951%	94.320%
Range			

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Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02311	71151.	46.347	455.99	3.3805	17093.	2.990
Stddev	.39189	526.	1.293	2.95	.0819	124.	.041
%RSD	1696.0	.73961	2.7908	.64776	2.4213	.72826	1.368
#1	.45735	70596.	47.282	452.59	3.4418	16963.	3.014
#2	-.30426	71212.	46.888	457.56	3.4122	17106.	3.013
#3	-.08377	71644.	44.871	457.83	3.2876	17211.	2.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.885	92.723	202.28	118380.	6313.	25460.	5182.2
Stddev	.142	1.873	5.71	721.	19.	198.	103.8
%RSD	.35601	2.0204	2.8240	.60908	.3035	.7771	2.0035
#1	40.019	94.409	206.14	117720.	6328.	25300.	5247.9
#2	39.901	93.054	204.98	118260.	6321.	25390.	5236.2
#3	39.736	90.706	195.72	119150.	6291.	25680.	5062.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60489	412.18	98.190	695.48	2.0060	5.5329	299.6
Stddev	.05395	22.32	.815	4.90	1.0155	2.3647	6.5
%RSD	8.9189	5.4163	.83022	.70463	50.622	42.739	2.176
#1	.54593	426.54	99.117	699.71	.84274	6.1014	305.3
#2	.61695	386.46	97.872	696.62	2.4600	7.5617	301.1
#3	.65179	423.54	97.582	690.11	2.7153	2.9358	292.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.2845	105.98	594.31
Stddev	.7337	2.35	3.61
%RSD	17.123	2.2183	.60780
#1	3.9573	107.96	597.84
#2	5.1249	106.60	594.47
#3	3.7715	103.38	590.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38408.	10595.	537340.
Stddev	98.	140.	9691.
%RSD	.25451	1.3199	1.8034
#1	38474.	10687.	527960.
#2	38296.	10434.	536760.
#3	38455.	10664.	547310.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.956%	89.774%	96.375%
Range			

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Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38311	29461.	45.239	196.93	1.5209	32388.	.9325
Stddev	.45276	293.	1.113	1.55	.0533	244.	.1908
%RSD	118.18	.99617	2.4600	.78796	3.5034	.75250	20.46
#1	-.12185	29162.	44.293	195.22	1.5820	32115.	.7741
#2	-.12157	29473.	46.465	197.33	1.4966	32463.	.8790
#3	-.90592	29748.	44.957	198.25	1.4840	32584.	1.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.654	65.334	215.91	82186.	3095.	20770.	1788.0
Stddev	.179	1.766	6.16	514.	52.	144.	47.1
%RSD	.64719	2.7026	2.8529	.62599	1.676	.6921	2.6360
#1	27.505	67.369	222.90	81625.	3073.	20610.	1841.9
#2	27.852	64.420	213.58	82297.	3154.	20840.	1767.3
#3	27.603	64.212	211.26	82636.	3058.	20870.	1754.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48949	281.55	63.742	854.76	.62912	3.3686	234.0
Stddev	.09602	23.70	.846	3.21	1.4194	.7317	5.6
%RSD	19.616	8.4168	1.3268	.37536	225.62	21.722	2.382
#1	-.59790	257.45	64.610	858.30	-.73800	2.9587	240.4
#2	-.45544	304.82	63.695	853.93	.52972	2.9337	230.9
#3	-.41514	282.39	62.920	852.05	2.0956	4.2134	230.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.91692	65.376	1173.2
Stddev	.91250	1.940	3.7
%RSD	99.519	2.9680	.31191
#1	1.7300	67.608	1177.3
#2	1.0908	64.424	1172.2
#3	-.07001	64.095	1170.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37878.	10583.	532680.
Stddev	172.	86.	10400.
%RSD	.45417	.81657	1.9525
#1	37906.	10493.	520670.
#2	38034.	10665.	538890.
#3	37693.	10591.	538470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.589%	89.668%	95.539%
Range			

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Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18770	42482.	626.42	344.55	2.7405	100950.	-2.004
Stddev	.20827	279.	1.39	3.57	.0656	973.	.096
%RSD	110.96	.65607	.22173	1.0349	2.3947	.96417	4.799
#1	.02619	42167.	626.02	340.49	2.8049	99884.	-1.898
#2	.11414	42583.	625.28	346.01	2.6737	101190.	-2.029
#3	.42276	42696.	627.97	347.17	2.7429	101790.	-2.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.419	217.06	381.60	114400.	4507.	18430.	1480.9
Stddev	.231	4.80	9.17	980.	98.	99.	32.3
%RSD	.65142	2.2132	2.4041	.85629	2.177	.5356	2.1797
#1	35.503	222.23	391.68	113310.	4394.	18340.	1516.5
#2	35.596	212.73	373.74	114710.	4565.	18410.	1453.5
#3	35.158	216.22	379.38	115190.	4563.	18530.	1472.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7941	1656.4	80.540	986.51	.56421	3.1485	481.9
Stddev	.2433	35.2	.265	2.42	1.0723	.3041	10.6
%RSD	13.563	2.1259	.32901	.24561	190.06	9.6587	2.206
#1	1.6709	1625.2	80.490	989.21	1.7996	3.4220	493.6
#2	2.0744	1649.3	80.303	985.79	.01928	3.2026	472.8
#3	1.6370	1694.6	80.826	984.53	-.12625	2.8210	479.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.81572	74.909	373.13
Stddev	.82086	1.469	.14
%RSD	100.63	1.9606	.03822
#1	.17733	76.477	373.17
#2	.52817	73.565	373.24
#3	1.7417	74.685	372.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36869.	10359.	519800.
Stddev	79.	41.	8701.
%RSD	.21510	.39455	1.6739
#1	36960.	10391.	510290.
#2	36814.	10373.	527360.
#3	36832.	10313.	521760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.989%	87.771%	93.230%
Range			

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Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44187	53653.	125.43	476.97	2.7062	53344.	2.826
Stddev	.13431	594.	.61	5.00	.0134	641.	.054
%RSD	30.397	1.1069	.48578	1.0477	.49547	1.2007	1.912
#1	.55313	53145.	125.58	472.14	2.7147	52662.	2.888
#2	.47980	53509.	124.77	476.66	2.6907	53435.	2.786
#3	.29267	54306.	125.96	482.12	2.7131	53934.	2.806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.465	85.572	284.88	121690.	5642.	39710.	4092.7
Stddev	.096	.286	1.50	1310.	41.	377.	39.5
%RSD	.19111	.33380	.52811	1.0763	.7308	.9498	.96523
#1	50.479	85.667	285.25	120370.	5642.	39330.	4062.3
#2	50.553	85.798	286.17	121710.	5683.	39700.	4137.4
#3	50.362	85.251	283.23	122990.	5601.	40080.	4078.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0400	285.56	116.73	338.72	2.6480	10.030	670.2
Stddev	.1004	32.50	.25	.77	1.3643	1.816	2.9
%RSD	1.4264	11.381	.21665	.22837	51.523	18.106	.4271
#1	7.0965	319.04	116.71	339.53	1.6643	11.896	670.6
#2	6.9241	283.49	117.00	337.99	4.2055	9.9263	672.9
#3	7.0995	254.15	116.50	338.62	2.0742	8.2683	667.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	8.6948	105.16	559.89
Stddev	1.4882	.05	.57
%RSD	17.115	.04344	.10268
#1	7.3010	105.19	560.28
#2	10.262	105.19	560.16
#3	8.5214	105.11	559.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37266.	10486.	529430.
Stddev	97.	94.	1378.
%RSD	.26107	.89681	.26020
#1	37343.	10462.	528010.
#2	37299.	10590.	530760.
#3	37157.	10407.	529530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.014%	88.852%	94.957%
Range			

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Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1618	74959.	23.199	325.21	2.7890	12960.	.1913
Stddev	.7242	2012.	.870	9.09	.0589	403.	.1390
%RSD	62.338	2.6839	3.7483	2.7939	2.1134	3.1104	72.64
#1	-.79630	74889.	24.081	325.72	2.7243	12979.	.3398
#2	-1.9959	72983.	22.342	315.87	2.8397	12548.	.1699
#3	-.69312	77005.	23.174	334.02	2.8029	13353.	.0643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.283	78.217	118.99	108550.	7026.	27190.	1296.6
Stddev	.033	1.093	1.82	2948.	237.	920.	16.9
%RSD	.07551	1.3977	1.5286	2.7160	3.374	3.384	1.3046
#1	44.315	77.393	116.96	108620.	6984.	27190.	1280.0
#2	44.287	79.457	120.46	105560.	6814.	26280.	1313.8
#3	44.248	77.801	119.56	111460.	7282.	28120.	1296.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76746	252.12	93.349	90.534	1.3021	2.9495	277.5
Stddev	.36682	30.73	.378	.882	1.6225	.8410	3.8
%RSD	47.797	12.187	.40448	.97477	124.61	28.513	1.380
#1	-1.1470	222.72	93.784	90.145	1.9814	2.1504	273.8
#2	-.74054	249.62	93.147	89.913	2.4745	3.8269	281.5
#3	-.41485	284.02	93.115	91.544	-.54967	2.8711	277.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.77565	95.890	339.08
Stddev	1.0208	1.330	.56
%RSD	131.60	1.3869	.16425
#1	.25252	94.599	339.70
#2	-1.7889	97.255	338.91
#3	-.79059	95.817	338.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38245.	10781.	535900.
Stddev	173.	281.	9397.
%RSD	.45124	2.6107	1.7535
#1	38334.	10796.	545360.
#2	38354.	11055.	526570.
#3	38046.	10492.	535760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.535%	91.348%	96.116%
Range			

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Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	753.13	48192.	2492.1	10089.	1010.1	50026.	990.6
Stddev	12.28	343.	3.2	61.	27.7	272.	3.0
%RSD	1.6298	.71272	.12897	.60925	2.7394	.54391	.3066
#1	757.28	48243.	2488.8	10105.	1008.5	50015.	989.6
#2	739.32	47826.	2492.3	10022.	983.34	49760.	988.1
#3	762.79	48507.	2495.3	10142.	1038.6	50304.	994.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4836.5	10127.	12038.	24763.	38990.	50660.	4916.3
Stddev	12.6	166.	191.	125.	202.	129.	96.6
%RSD	.26011	1.6402	1.5863	.50676	.5186	.2543	1.9644
#1	4829.7	10184.	12117.	24788.	38970.	50530.	4954.6
#2	4828.8	9939.5	11821.	24626.	38800.	50650.	4806.4
#3	4851.0	10256.	12177.	24874.	39200.	50790.	4987.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.62	27011.	4787.6	9478.4	2440.4	1237.9	989.6
Stddev	2.73	113.	11.6	20.1	6.8	2.3	16.4
%RSD	.27936	.41848	.24165	.21201	.28042	.18426	1.657
#1	974.71	27009.	4782.9	9471.0	2434.0	1235.7	995.1
#2	975.41	26898.	4779.1	9463.1	2439.6	1237.6	971.1
#3	979.75	27125.	4800.8	9501.2	2447.7	1240.2	1003.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	941.90	2487.0	4945.9
Stddev	3.44	42.0	9.0
%RSD	.36484	1.6872	.18109
#1	940.39	2500.6	4943.3
#2	939.47	2439.9	4938.6
#3	945.83	2520.5	4955.9
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35575.	10195.	517360.
Stddev	62.	124.	9396.
%RSD	.17308	1.2208	1.8161
#1	35513.	10064.	511460.
#2	35575.	10311.	528190.
#3	35636.	10209.	512420.

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Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19473	75.729	-1.3247	.95518	.03663	7.4603	-.1980
Stddev	.48493	78.830	.4253	.32470	.01475	5.2397	.0527
%RSD	249.03	104.10	32.106	33.994	40.270	70.235	26.62
#1	.30224	23.301	-1.7943	1.2953	.02713	11.468	-.1433
#2	-.66665	37.502	-.96533	.92179	.05362	1.5310	-.2024
#3	-.21978	166.38	-1.2145	.64847	.02913	9.3824	-.2484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04782	.00595	1.0100	20.623	63.71	11.84	-.01018
Stddev	.15464	.12674	1.1090	13.917	55.23	22.42	.03809
%RSD	323.39	2129.2	109.80	67.481	86.69	189.4	374.16
#1	-.06008	.06554	.14256	34.815	16.10	-12.91	-.02609
#2	-.02145	.09192	2.2596	6.9982	124.3	30.80	-.03773
#3	.22498	-.13960	.62792	20.057	50.76	17.62	.03328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5539	-58.220	-.19780	.86375	-.32887	.89508	.0690
Stddev	.2962	15.527	.26284	.75392	1.7302	1.4852	.0676
%RSD	19.061	26.669	132.88	87.284	526.10	165.93	97.98
#1	-1.2750	-40.402	-.49721	1.5129	-.80490	-.79456	.0183
#2	-1.8647	-65.404	-.00503	1.0416	1.5895	1.9941	.1458
#3	-1.5219	-68.853	-.09117	.03682	-1.7712	1.4857	.0430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.55826	.09093	-.17063
Stddev	.82832	.12614	.03686
%RSD	148.37	138.72	21.603
#1	-.18263	.22214	-.20237
#2	.01570	.08009	-.17930
#3	-1.5078	-.02944	-.13020
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37523.	10072.	533370.
Stddev	198.	178.	10987.
%RSD	.52779	1.7721	2.0598
#1	37408.	9884.8	540590.
#2	37752.	10090.	520730.
#3	37410.	10240.	538790.

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Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65437	56755.	22.151	236.85	2.4713	8092.2	.1706
Stddev	.55885	653.	1.356	2.76	.0418	75.5	.2202
%RSD	85.403	1.1507	6.1224	1.1654	1.6894	.93239	129.1
#1	-.01654	56119.	22.875	233.66	2.5066	8015.5	-.0010
#2	-.88847	56723.	22.992	238.50	2.4252	8094.8	.0939
#3	-1.0581	57424.	20.587	238.38	2.4819	8166.4	.4190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.653	65.052	144.63	102100.	5976.	20400.	1166.0
Stddev	.278	.540	2.20	955.	96.	221.	13.3
%RSD	.73749	.82939	1.5201	.93532	1.601	1.082	1.1437
#1	37.716	65.505	147.11	101100.	5940.	20180.	1179.3
#2	37.894	64.455	142.92	102190.	5904.	20410.	1152.6
#3	37.350	65.197	143.86	103010.	6085.	20620.	1165.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71416	295.69	85.059	54.812	-2.0492	1.9252	172.4
Stddev	.18495	7.39	.218	.536	1.4689	2.2029	1.9
%RSD	25.898	2.4978	.25643	.97784	71.682	114.42	1.116
#1	-.85224	287.69	85.244	55.232	-.41997	-.16160	174.2
#2	-.50403	297.12	85.115	54.209	-2.4552	1.7091	170.4
#3	-.78620	302.25	84.819	54.996	-3.2723	4.2282	172.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.00456	76.205	312.39
Stddev	1.4557	.925	1.03
%RSD	31938.	1.2134	.33041
#1	1.3405	77.172	313.50
#2	.19586	75.329	312.23
#3	-1.5500	76.114	311.45
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37674.	10468.	528130.
Stddev	178.	111.	7890.
%RSD	.47366	1.0593	1.4940
#1	37636.	10458.	519020.
#2	37868.	10583.	532610.
#3	37518.	10362.	532760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.064%	88.692%	94.723%
Range			

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Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33307	22989.	9.8306	85.742	1.0010	11031.	-.0357
Stddev	.52270	43.	.2829	.954	.0246	68.	.0590
%RSD	156.93	.18809	2.8783	1.1131	2.4531	.61533	165.0
#1	-.20300	22946.	9.8952	85.623	1.0289	10954.	.0230
#2	-.90853	23032.	10.076	84.853	.99149	11057.	-.0950
#3	.11230	22990.	9.5209	86.751	.98264	11081.	-.0352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.232	30.747	51.958	49689.	2528.	14300.	1677.7
Stddev	.076	.119	.437	282.	64.	178.	16.8
%RSD	.50083	.38629	.84080	.56793	2.549	1.244	1.0024
#1	15.255	30.882	52.152	49366.	2455.	14090.	1697.0
#2	15.294	30.659	51.458	49817.	2578.	14410.	1665.8
#3	15.147	30.699	52.264	49885.	2550.	14400.	1670.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5434	101.45	39.284	28.707	.30382	.89536	56.25
Stddev	.1019	15.66	.345	.383	1.9485	.81690	.61
%RSD	6.6028	15.433	.87905	1.3348	641.35	91.237	1.093
#1	-1.6578	117.85	39.173	28.548	-1.4686	1.8386	56.96
#2	-1.4622	99.826	39.007	28.428	-.01025	.42458	55.94
#3	-1.5102	86.668	39.671	29.144	2.3903	.42286	55.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.33854	30.771	129.83
Stddev	1.1249	.239	.14
%RSD	332.28	.77636	.10618
#1	.47977	31.037	129.89
#2	1.3862	30.575	129.67
#3	-.85033	30.701	129.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37693.	10352.	536800.
Stddev	73.	92.	7735.
%RSD	.19487	.89344	1.4410
#1	37629.	10269.	527870.
#2	37678.	10336.	541290.
#3	37773.	10452.	541240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.114%	87.716%	96.278%
Range			

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Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53228	62533.	28.542	187.59	2.6780	33911.	.1457
Stddev	.36327	694.	1.456	2.01	.0193	363.	.1744
%RSD	68.248	1.1104	5.1023	1.0731	.72180	1.0716	119.7
#1	-.67517	61828.	29.864	187.71	2.6789	33514.	.3361
#2	-.80239	62553.	26.981	185.52	2.6582	33990.	-.0062
#3	-.11929	63216.	28.780	189.54	2.6968	34228.	.1071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.666	76.172	121.85	138080.	7137.	45380.	3723.0
Stddev	.101	.690	.38	1329.	79.	454.	54.6
%RSD	.23733	.90637	.31392	.96231	1.105	1.000	1.4661
#1	42.720	76.193	122.21	136660.	7113.	44880.	3743.6
#2	42.550	75.471	121.45	138310.	7224.	45510.	3661.1
#3	42.730	76.852	121.88	139280.	7072.	45760.	3764.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.81384	340.68	109.92	58.796	-.55537	2.4497	132.0
Stddev	.02898	2.95	.23	.899	1.3408	1.3481	.9
%RSD	3.5612	.86466	.20992	1.5286	241.42	55.032	.7195
#1	-.83855	339.91	109.70	59.831	.96567	1.7769	131.5
#2	-.78194	343.93	109.90	58.340	-1.5660	4.0017	131.4
#3	-.82103	338.19	110.16	58.216	-1.0657	1.5704	133.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9437	79.764	336.68
Stddev	.5715	.127	.37
%RSD	29.402	.15922	.11098
#1	1.2880	79.667	336.98
#2	2.3360	79.717	336.26
#3	2.2070	79.908	336.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37009.	10384.	530650.
Stddev	123.	84.	3811.
%RSD	.33142	.80440	.71809
#1	37118.	10379.	526480.
#2	37033.	10303.	533950.
#3	36876.	10469.	531520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.350%	87.980%	95.175%
Range			

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Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09556	45095.	49.097	199.31	1.4784	17241.	.3570
Stddev	.44776	317.	1.274	2.07	.0092	88.	.0711
%RSD	468.57	.70311	2.5955	1.0400	.61876	.51144	19.91
#1	.40355	44756.	50.039	196.94	1.4716	17140.	.2839
#2	-.46196	45142.	47.647	200.19	1.4888	17286.	.3614
#3	-.22826	45385.	49.606	200.80	1.4749	17298.	.4259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.956	125.22	164.90	107050.	5356.	24000.	1413.8
Stddev	.250	1.70	1.34	638.	74.	190.	17.7
%RSD	.86213	1.3559	.81129	.59610	1.378	.7899	1.2553
#1	29.182	123.62	163.51	106320.	5416.	23780.	1399.5
#2	28.999	127.01	166.18	107320.	5273.	24090.	1433.7
#3	28.688	125.04	165.02	107500.	5378.	24130.	1408.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6969	284.74	82.314	212.36	-1.5652	4.7687	172.6
Stddev	.0705	24.30	.801	1.65	1.8072	.8170	2.3
%RSD	4.1523	8.5320	.97312	.77626	115.46	17.133	1.332
#1	1.7776	310.31	83.225	212.67	-3.5808	5.7083	170.6
#2	1.6473	261.96	81.995	213.83	-.08940	4.3719	175.1
#3	1.6659	281.96	81.721	210.57	-1.0254	4.2258	172.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.32692	76.438	313.10
Stddev	.09101	1.004	1.72
%RSD	27.840	1.3136	.54837
#1	-.22395	76.183	315.01
#2	-.36023	77.545	312.61
#3	-.39660	75.586	311.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37352.	10452.	533180.
Stddev	94.	25.	5833.
%RSD	.25069	.24051	1.0941
#1	37276.	10442.	536600.
#2	37323.	10481.	526450.
#3	37456.	10434.	536510.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.234%	88.563%	95.629%
Range			

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Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0263	63141.	24.163	189.56	3.3512	8010.4	-.0278
Stddev	.4278	423.	.284	.29	.0389	63.8	.0452
%RSD	41.677	.66981	1.1765	.15486	1.1614	.79597	162.5
#1	-.74080	62684.	23.835	189.36	3.3950	7944.9	-.0774
#2	-1.5181	63218.	24.342	189.90	3.3379	8014.1	-.0171
#3	-.82009	63519.	24.311	189.43	3.3207	8072.2	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.152	72.668	257.08	132720.	5338.	26250.	973.61
Stddev	.257	.654	3.34	860.	50.	210.	9.54
%RSD	.65727	.89994	1.2981	.64762	.9333	.7989	.97981
#1	39.427	73.388	260.73	132000.	5283.	26060.	984.07
#2	39.112	72.507	256.33	132490.	5351.	26210.	971.35
#3	38.917	72.110	254.18	133670.	5381.	26480.	965.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7823	295.46	122.23	41.170	-1.0648	1.6249	116.5
Stddev	.0501	26.76	.28	.464	1.7304	1.6331	1.1
%RSD	2.8123	9.0572	.23225	1.1262	162.52	100.51	.9151
#1	-1.8102	265.08	122.56	41.456	-1.8541	2.8457	117.6
#2	-1.8123	315.53	122.06	41.419	-2.2598	-.23020	116.4
#3	-1.7244	305.77	122.08	40.635	.91959	2.2592	115.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.4648	63.329	363.98
Stddev	.2308	.809	1.87
%RSD	15.756	1.2776	.51445
#1	-1.5661	64.195	366.11
#2	-1.2007	63.200	363.19
#3	-1.6277	62.593	362.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37701.	10467.	531710.
Stddev	187.	68.	7330.
%RSD	.49709	.64880	1.3787
#1	37621.	10458.	523260.
#2	37567.	10539.	536410.
#3	37915.	10404.	535450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.133%	88.684%	95.365%
Range			

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Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12057	41216.	38.560	390.26	1.9830	59110.	9.714
Stddev	.24817	814.	.536	7.89	.0389	1172.	.207
%RSD	205.84	1.9742	1.3904	2.0227	1.9638	1.9829	2.126
#1	.08181	40519.	39.176	383.12	1.9579	58017.	9.797
#2	-.10595	42110.	38.303	398.74	2.0279	60348.	9.479
#3	.38584	41019.	38.201	388.93	1.9632	58965.	9.866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.800	193.96	836.27	75549.	5460.	25070.	2154.1
Stddev	.250	3.82	18.11	1327.	93.	471.	58.9
%RSD	.76279	1.9684	2.1649	1.7565	1.705	1.878	2.7362
#1	32.962	192.27	828.04	74415.	5401.	24700.	2121.6
#2	32.926	198.33	857.03	77008.	5567.	25600.	2222.1
#3	32.512	191.27	823.74	75222.	5411.	24910.	2118.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.73410	752.64	79.862	657.07	3.5765	3.5057	241.4
Stddev	.29326	28.19	.172	1.25	1.3125	2.5551	4.9
%RSD	39.949	3.7454	.21549	.19027	36.698	72.884	2.038
#1	-1.0719	725.40	79.768	657.96	2.0633	1.1917	239.0
#2	-.58529	781.69	80.060	655.64	4.2594	3.0776	247.1
#3	-.54507	750.81	79.757	657.61	4.4067	6.2478	238.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3136	183.74	985.47
Stddev	1.0927	4.37	1.96
%RSD	83.186	2.3769	.19851
#1	.10387	181.95	987.66
#2	2.2291	188.72	984.81
#3	1.6079	180.55	983.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38314.	10610.	537410.
Stddev	33.	64.	10049.
%RSD	.08729	.60627	1.8699
#1	38283.	10651.	541570.
#2	38310.	10536.	525950.
#3	38349.	10644.	544710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.713%	89.901%	96.388%
Range			

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Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15766	31184.	11.784	93.429	1.4315	48316.	.0926
Stddev	.27476	180.	1.478	.347	.0362	278.	.1635
%RSD	174.27	.57580	12.545	.37191	2.5325	.57516	176.6
#1	-.05570	30984.	10.845	93.513	1.4050	48002.	.1211
#2	.05154	31330.	13.488	93.048	1.4167	48531.	.2400
#3	-.46882	31239.	11.018	93.728	1.4728	48414.	-.0833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.160	54.471	65.089	70441.	3520.	24450.	1701.6
Stddev	.143	1.579	1.835	327.	51.	200.	38.5
%RSD	.64441	2.8986	2.8198	.46372	1.461	.8171	2.2615
#1	22.286	53.011	63.664	70064.	3470.	24220.	1670.6
#2	22.191	54.256	64.443	70629.	3573.	24540.	1689.4
#3	22.005	56.147	67.160	70630.	3519.	24580.	1744.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0969	128.14	55.784	47.179	-1.2818	1.8800	56.05
Stddev	.1630	22.42	.509	1.678	.9315	2.3257	1.20
%RSD	7.7723	17.495	.91179	3.5558	72.673	123.71	2.148
#1	-2.1867	114.02	56.271	49.059	-2.3182	-.60529	55.19
#2	-2.1952	153.99	55.825	45.833	-1.0133	4.0037	55.52
#3	-1.9088	116.41	55.257	46.647	-.51405	2.2415	57.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4727	46.506	177.23
Stddev	.7116	.904	1.23
%RSD	48.316	1.9442	.69390
#1	.78317	45.613	178.48
#2	2.2044	46.483	177.19
#3	1.4306	47.421	176.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36855.	10209.	528180.
Stddev	69.	47.	12049.
%RSD	.18693	.46418	2.2812
#1	36793.	10197.	538310.
#2	36929.	10168.	531360.
#3	36844.	10261.	514850.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.955%	86.497%	94.731%
Range			

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Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38109	45326.	132.55	212.13	2.3262	23896.	-.4021
Stddev	.40898	178.	.34	.36	.0258	136.	.0798
%RSD	107.32	.39311	.25504	.16942	1.1088	.57056	19.84
#1	-.41754	45186.	132.39	212.20	2.3116	23794.	-.3108
#2	-.77063	45527.	132.32	212.45	2.3111	24051.	-.4375
#3	.04489	45266.	132.94	211.74	2.3560	23845.	-.4582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.324	70.279	189.95	93010.	4478.	19750.	1654.1
Stddev	.269	.251	.42	533.	25.	146.	2.0
%RSD	.83361	.35753	.22035	.57299	.5626	.7376	.12323
#1	32.323	70.069	189.48	92579.	4495.	19700.	1652.5
#2	32.055	70.209	190.26	93606.	4490.	19910.	1653.4
#3	32.594	70.557	190.12	92846.	4449.	19630.	1656.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27950	363.76	74.079	687.59	2.1722	2.2929	278.6
Stddev	.27926	8.11	.143	3.19	1.2502	1.9475	.2
%RSD	99.913	2.2299	.19361	.46368	57.555	84.939	.0657
#1	.58021	359.04	73.920	685.17	3.4908	1.6033	278.8
#2	.22998	359.11	74.198	686.41	1.0039	4.4913	278.4
#3	.02832	373.13	74.119	691.20	2.0220	.78393	278.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.25564	68.599	248.47
Stddev	.83079	.053	.56
%RSD	324.99	.07774	.22344
#1	.42351	68.659	247.85
#2	.98967	68.579	248.67
#3	-.64627	68.558	248.91
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36969.	10171.	525150.
Stddev	112.	188.	2454.
%RSD	.30284	1.8518	.46735
#1	36874.	9963.9	527150.
#2	36941.	10215.	525890.
#3	37093.	10332.	522410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.249%	86.175%	94.188%
Range			

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Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36102	54830.	17.116	125.15	1.6222	8058.1	-.0591
Stddev	.24121	231.	1.209	.46	.0327	45.3	.1330
%RSD	66.815	.42133	7.0615	.36700	2.0139	.56199	224.9
#1	-.30262	55091.	18.308	125.68	1.5855	8033.9	-.1789
#2	-.15437	54651.	17.149	124.84	1.6330	8110.4	-.0823
#3	-.62607	54748.	15.892	124.93	1.6481	8030.1	.0839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.760	58.321	79.458	100230.	4008.	25930.	2144.4
Stddev	.032	.808	1.945	217.	41.	117.	52.3
%RSD	.10134	1.3860	2.4476	.21619	1.016	.4492	2.4406
#1	31.788	57.569	77.242	100280.	4047.	25960.	2107.4
#2	31.725	58.219	80.248	100410.	4012.	26030.	2121.5
#3	31.766	59.176	80.883	99986.	3966.	25800.	2204.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58527	268.49	76.747	42.809	-.37207	1.4162	136.5
Stddev	.34468	20.15	.096	1.866	1.1011	.8384	2.2
%RSD	58.892	7.5033	.12502	4.3599	295.93	59.202	1.648
#1	-.75078	245.23	76.678	44.610	.65013	1.8397	134.1
#2	-.81598	280.46	76.857	42.932	-1.5379	.45049	136.7
#3	-.18906	279.79	76.707	40.884	-.22843	1.9583	138.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.38265	64.683	227.35
Stddev	1.6012	.736	.28
%RSD	418.44	1.1376	.12370
#1	.15938	63.849	227.44
#2	2.0837	64.961	227.57
#3	-1.0951	65.240	227.03
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36977.	10231.	524730.
Stddev	70.	293.	8024.
%RSD	.18903	2.8614	1.5292
#1	36905.	9943.1	533620.
#2	36984.	10222.	522560.
#3	37044.	10528.	518020.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.270%	86.688%	94.114%
Range			

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Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20059	93707.	377.70	296.18	10.531	19485.	2.066
Stddev	.10679	744.	2.13	2.56	.256	225.	.146
%RSD	53.238	.79395	.56458	.86357	2.4283	1.1570	7.079
#1	.23129	92910.	376.07	293.59	10.639	19246.	1.917
#2	.08181	93829.	376.92	296.24	10.239	19514.	2.209
#3	.28867	94383.	380.12	298.71	10.714	19694.	2.071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	217.24	250.73	1190.8	84163.	2994.	7648.	1966.8
Stddev	.44	5.17	24.9	802.	55.	102.	11.1
%RSD	.20028	2.0621	2.0928	.95337	1.842	1.338	.56676
#1	217.05	253.28	1202.1	83354.	3052.	7536.	1969.9
#2	216.94	244.79	1162.3	84178.	2943.	7670.	1976.1
#3	217.74	254.14	1208.1	84959.	2987.	7737.	1954.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4622	1306.7	160.13	451.65	3.1889	9.4887	474.9
Stddev	.2170	17.7	.42	1.10	.7187	2.4073	10.5
%RSD	4.8632	1.3552	.25993	.24396	22.537	25.371	2.204
#1	4.4509	1290.6	159.65	452.86	3.3598	12.261	479.4
#2	4.6846	1304.0	160.37	450.69	2.4002	8.2747	462.9
#3	4.2511	1325.7	160.37	451.41	3.8068	7.9301	482.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.6949	129.92	861.15
Stddev	.6214	2.92	.33
%RSD	36.664	2.2464	.03855
#1	-1.6541	131.03	861.04
#2	-1.0949	126.61	860.89
#3	-2.3358	132.12	861.52
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38703.	10479.	540130.
Stddev	107.	199.	7037.
%RSD	.27743	1.8957	1.3028
#1	38682.	10252.	534650.
#2	38607.	10618.	548070.
#3	38819.	10568.	537670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.715%	88.791%	96.876%
Range			

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Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10215	51204.	63.630	144.01	3.0450	64189.	.4128
Stddev	.18805	342.	1.219	.31	.0156	508.	.0328
%RSD	184.09	.66742	1.9156	.21416	.51082	.79127	7.953
#1	-.17035	50818.	65.007	144.08	3.0310	63681.	.4293
#2	.11048	51323.	62.690	143.67	3.0422	64188.	.3750
#3	-.24658	51470.	63.193	144.27	3.0617	64697.	.4342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68.285	112.26	234.36	96271.	4097.	23810.	2156.3
Stddev	.041	.93	2.35	681.	45.	289.	28.1
%RSD	.06031	.82678	1.0021	.70733	1.101	1.212	1.3050
#1	68.277	112.60	234.15	95594.	4074.	23530.	2132.4
#2	68.248	111.21	232.13	96263.	4068.	23800.	2149.2
#3	68.330	112.97	236.81	96956.	4149.	24110.	2187.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23274	755.95	96.984	140.12	-1.5478	2.6763	210.9
Stddev	.17528	25.41	.198	.83	1.5365	.8856	2.1
%RSD	75.311	3.3616	.20445	.59069	99.270	33.089	.9860
#1	-.06101	767.66	97.209	140.23	-2.8588	1.6933	210.5
#2	-.22584	773.39	96.909	140.89	-1.9278	3.4117	209.1
#3	-.41136	726.79	96.834	139.24	.14302	2.9240	213.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.42542	74.824	357.34
Stddev	.59184	.876	.12
%RSD	139.12	1.1701	.03462
#1	.31933	74.483	357.46
#2	1.0631	74.170	357.35
#3	-.10620	75.818	357.22
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37123.	10357.	528440.
Stddev	158.	41.	1589.
%RSD	.42608	.39637	.30071
#1	37067.	10357.	529170.
#2	37001.	10398.	529520.
#3	37302.	10316.	526610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.645%	87.755%	94.778%
Range			

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Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34009	37227.	63.205	147.94	1.9058	6487.3	.4967
Stddev	.31506	1657.	1.492	6.22	.0231	276.2	.2285
%RSD	92.640	4.4496	2.3604	4.2060	1.2121	4.2581	46.00
#1	.58586	38603.	62.714	152.40	1.8808	6719.6	.2573
#2	-.01508	35388.	64.880	140.83	1.9103	6181.8	.5201
#3	.44949	37691.	62.020	150.59	1.9263	6560.4	.7125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.993	123.09	219.32	80541.	4015.	17520.	1318.7
Stddev	.149	1.59	2.95	3707.	100.	839.	15.9
%RSD	.51346	1.2922	1.3450	4.6029	2.479	4.790	1.2040
#1	28.846	121.28	215.93	83761.	4094.	18170.	1300.9
#2	28.989	123.71	220.72	76488.	3903.	16570.	1323.9
#3	29.144	124.27	221.31	81373.	4047.	17820.	1331.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02269	309.35	84.168	183.17	1.6499	1.1659	558.2
Stddev	.21791	13.19	.329	2.15	1.5248	1.0677	6.9
%RSD	960.49	4.2644	.39103	1.1755	92.422	91.575	1.243
#1	.27109	324.56	84.037	180.72	2.6162	.04244	550.4
#2	-.13625	301.03	83.924	184.74	2.4413	1.2880	560.4
#3	-.06678	302.46	84.543	184.05	-.10796	2.1673	563.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.27459	79.186	382.54
Stddev	1.3651	1.045	1.22
%RSD	497.16	1.3190	.32004
#1	-1.8364	77.988	381.55
#2	.69098	79.662	382.15
#3	.32170	79.907	383.90
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37534.	10518.	542770.
Stddev	77.	507.	4556.
%RSD	.20391	4.8227	.83934
#1	37614.	10042.	548000.
#2	37526.	11051.	540620.
#3	37462.	10462.	539680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.703%	89.123%	97.348%
Range			

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Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04247	44289.	133.29	224.57	2.0032	117090.	3.944
Stddev	.43105	503.	.66	2.90	.0267	1124.	.131
%RSD	1015.0	1.1359	.49716	1.2893	1.3332	.95988	3.312
#1	-.37436	43767.	133.65	221.25	2.0330	115810.	3.966
#2	.44471	44329.	132.53	225.94	1.9952	117530.	4.062
#3	-.19776	44771.	133.71	226.53	1.9815	117930.	3.804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.509	1071.7	352.46	90334.	4976.	34930.	1832.0
Stddev	.115	21.6	6.33	795.	74.	435.	38.4
%RSD	.37702	2.0138	1.7967	.87968	1.481	1.244	2.0939
#1	30.450	1091.3	358.32	89427.	4926.	34450.	1865.9
#2	30.436	1075.4	353.32	90666.	4941.	35020.	1839.7
#3	30.642	1048.6	345.74	90909.	5060.	35310.	1790.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3599	1706.9	68.890	1101.1	14.153	5.8285	764.9
Stddev	.1521	23.6	.357	4.4	1.396	1.7601	16.3
%RSD	6.4436	1.3837	.51842	.40162	9.8641	30.199	2.129
#1	2.1922	1701.9	69.294	1104.8	12.548	7.2223	778.7
#2	2.3986	1732.5	68.762	1102.4	15.089	3.8506	769.1
#3	2.4888	1686.1	68.615	1096.2	14.821	6.4125	746.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.69149	103.67	619.21
Stddev	1.5749	2.03	2.05
%RSD	227.75	1.9584	.33064
#1	-1.1264	105.36	620.91
#2	1.6401	104.22	619.79
#3	1.5608	101.42	616.94
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36552.	10373.	522880.
Stddev	59.	56.	8193.
%RSD	.16060	.54067	1.5668
#1	36603.	10406.	514710.
#2	36488.	10308.	522850.
#3	36564.	10405.	531090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.172%	87.890%	93.782%
Range			

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Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.59224	55194.	11.783	254.80	2.3226	5291.3	.0083
Stddev	.09909	495.	1.153	1.81	.0347	32.4	.1459
%RSD	16.732	.89742	9.7816	.70960	1.4924	.61220	1749.
#1	-.60351	54622.	10.483	252.78	2.3526	5254.8	.0984
#2	-.68521	55476.	12.183	256.26	2.2847	5302.6	.0866
#3	-.48799	55484.	12.682	255.35	2.3304	5316.6	-.1600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.257	192.70	71.990	106010.	4849.	23950.	1165.6
Stddev	.162	1.26	1.148	782.	49.	251.	8.9
%RSD	.45824	.65571	1.5949	.73750	1.020	1.046	.76052
#1	35.353	192.12	72.218	105120.	4837.	23700.	1164.8
#2	35.071	191.84	70.744	106350.	4807.	23940.	1157.2
#3	35.348	194.15	73.006	106570.	4904.	24200.	1174.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0110	252.83	95.021	54.167	4.7991	2.3285	141.3
Stddev	.1758	13.58	.078	1.631	1.1659	1.0149	2.0
%RSD	8.7424	5.3705	.08175	3.0113	24.294	43.583	1.402
#1	-1.9550	259.99	94.984	54.239	5.4598	1.1793	140.6
#2	-2.2079	261.33	94.968	55.760	3.4529	3.1016	139.8
#3	-1.8699	237.17	95.110	52.501	5.4846	2.7047	143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.4891	65.899	255.11
Stddev	1.1032	.490	.23
%RSD	74.085	.74397	.09148
#1	-2.6158	65.887	255.03
#2	-1.4405	65.414	254.94
#3	-.41098	66.394	255.38
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37301.	10251.	533560.
Stddev	212.	96.	2818.
%RSD	.56912	.93836	.52822
#1	37253.	10273.	532720.
#2	37116.	10146.	536710.
#3	37533.	10334.	531260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.102%	86.856%	95.697%
Range			

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Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37846	29818.	22.406	114.51	1.3248	11210.	.1642
Stddev	.09011	685.	1.441	2.49	.0212	208.	.2654
%RSD	23.810	2.2985	6.4319	2.1780	1.6004	1.8560	161.6
#1	-.47896	29052.	20.830	111.97	1.3250	10980.	-.1372
#2	-.35157	30372.	22.733	116.95	1.3459	11385.	.2671
#3	-.30486	30031.	23.656	114.63	1.3035	11266.	.3627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.719	35.670	70.891	61366.	3257.	15250.	1471.8
Stddev	.144	.539	1.525	1178.	54.	301.	31.8
%RSD	.60666	1.5100	2.1512	1.9190	1.646	1.977	2.1607
#1	23.663	35.775	71.866	60067.	3210.	14910.	1481.1
#2	23.612	36.149	71.672	62364.	3244.	15500.	1497.9
#3	23.883	35.087	69.133	61668.	3315.	15330.	1436.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1530	50.184	51.634	46.956	-.34283	.07309	77.39
Stddev	.2525	6.317	.303	2.000	.85584	.43164	1.88
%RSD	21.894	12.587	.58686	4.2587	249.64	590.55	2.426
#1	-.86365	56.286	51.843	48.972	-.69189	-.28710	78.08
#2	-1.3280	43.672	51.287	44.973	.63237	.55153	78.83
#3	-1.2675	50.592	51.773	46.924	-.96898	-.04516	75.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.08075	40.160	181.91
Stddev	.60041	.896	.60
%RSD	743.52	2.2311	.32754
#1	.59795	40.487	181.73
#2	-.29761	40.846	181.42
#3	-.54260	39.146	182.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36893.	10161.	523870.
Stddev	171.	136.	7163.
%RSD	.46325	1.3381	1.3673
#1	37027.	10317.	523610.
#2	36951.	10076.	516830.
#3	36700.	10088.	531150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.051%	86.091%	93.958%
Range			

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Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28351	34617.	129.64	336.35	2.4060	103320.	3.180
Stddev	.19651	177.	1.39	3.00	.0402	663.	.127
%RSD	69.312	.50988	1.0739	.89265	1.6706	.64210	3.996
#1	.11696	34641.	128.35	333.72	2.4391	102820.	3.244
#2	.23334	34429.	129.46	335.72	2.4177	103060.	3.034
#3	.50025	34780.	131.12	339.62	2.3613	104070.	3.262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.367	63.517	2064.6	81694.	4665.	53510.	2407.5
Stddev	.076	.957	27.4	562.	48.	358.	41.9
%RSD	.22076	1.5060	1.3248	.68800	1.019	.6684	1.7414
#1	34.318	63.824	2079.4	81250.	4661.	53190.	2401.9
#2	34.328	64.282	2081.5	81507.	4620.	53450.	2451.9
#3	34.454	62.444	2033.1	82326.	4715.	53900.	2368.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.9007	319.69	82.236	318.71	.78735	9.5100	403.4
Stddev	.3892	19.20	.596	2.86	.86139	.4358	5.3
%RSD	5.6403	6.0067	.72515	.89794	109.40	4.5822	1.322
#1	7.3050	333.23	82.713	321.65	.90745	10.001	405.8
#2	6.5286	297.71	82.427	318.54	-.12779	9.1705	407.2
#3	6.8683	328.13	81.568	315.94	1.5824	9.3580	397.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.7719	75.257	496.54
Stddev	1.0592	.994	2.43
%RSD	22.197	1.3203	.48856
#1	5.8864	75.932	499.24
#2	4.6510	75.722	495.84
#3	3.7783	74.116	494.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36495.	10271.	516570.
Stddev	119.	213.	4456.
%RSD	.32593	2.0741	.86264
#1	36377.	10181.	515020.
#2	36615.	10514.	513100.
#3	36494.	10118.	521600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.027%	87.025%	92.651%
Range			

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Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03688	28916.	19.656	106.59	1.1887	9906.4	-.0311
Stddev	.09242	103.	.694	.67	.0277	34.0	.1244
%RSD	250.56	.35535	3.5290	.62925	2.3268	.34273	400.3
#1	-.01116	28810.	19.735	107.21	1.1990	9868.1	-.1259
#2	.03994	29015.	18.926	106.70	1.1574	9918.4	-.0771
#3	-.13944	28924.	20.307	105.88	1.2098	9932.8	.1098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.649	33.172	65.308	58174.	3163.	13640.	1641.1
Stddev	.066	.614	1.377	146.	51.	172.	28.7
%RSD	.26871	1.8506	2.1085	.25175	1.612	1.257	1.7477
#1	24.688	33.211	65.750	58008.	3185.	13480.	1643.5
#2	24.572	32.539	63.764	58228.	3105.	13820.	1611.3
#3	24.686	33.765	66.409	58285.	3199.	13630.	1668.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1432	36.577	47.476	42.461	-.50846	1.5829	81.08
Stddev	.3354	19.255	.107	.840	1.7865	1.7175	1.22
%RSD	29.342	52.643	.22516	1.9791	351.35	108.50	1.505
#1	-.83433	24.353	47.538	42.376	-1.7910	2.4601	81.43
#2	-1.0951	58.772	47.353	43.340	1.5320	-.39601	79.72
#3	-1.5000	26.605	47.537	41.666	-1.2665	2.6846	82.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01192	37.964	163.11
Stddev	.17040	.763	.18
%RSD	1429.6	2.0097	.11236
#1	-.13808	37.667	162.93
#2	-.07960	37.394	163.11
#3	.18192	38.831	163.29
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37187.	10010.	525790.
Stddev	168.	83.	10192.
%RSD	.45240	.82663	1.9384
#1	37193.	9918.9	526290.
#2	37016.	10080.	535720.
#3	37352.	10031.	515350.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.809%	84.815%	94.303%
Range			

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Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	787.92	48995.	2563.4	10207.	1064.0	50371.	1022.
Stddev	18.98	633.	3.7	93.	36.6	426.	2.
%RSD	2.4087	1.2911	.14407	.90802	3.4361	.84556	.2020
#1	809.72	48399.	2559.5	10112.	1102.1	49956.	1020.
#2	778.99	48926.	2563.8	10212.	1029.3	50351.	1021.
#3	775.06	49659.	2566.9	10297.	1060.5	50807.	1024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4992.6	10606.	12480.	24886.	39690.	51050.	5154.7
Stddev	9.0	246.	294.	180.	390.	386.	78.2
%RSD	.18074	2.3175	2.3571	.72152	.9836	.7560	1.5169
#1	4987.8	10886.	12796.	24684.	39280.	50610.	5234.5
#2	4987.0	10509.	12430.	24948.	39730.	51230.	5151.4
#3	5003.0	10424.	12214.	25027.	40050.	51320.	5078.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.6	27479.	4927.9	9764.6	2514.2	1270.5	1036.
Stddev	.7	165.	5.7	12.8	10.2	1.2	23.
%RSD	.06655	.60220	.11505	.13103	.40573	.09811	2.234
#1	1006.3	27297.	4926.8	9750.7	2503.5	1271.4	1062.
#2	1006.1	27516.	4922.9	9767.2	2515.3	1269.0	1026.
#3	1007.3	27622.	4934.1	9775.9	2523.8	1271.0	1019.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	971.24	2609.5	5101.8
Stddev	2.72	61.1	5.5
%RSD	.28014	2.3419	.10717
#1	970.13	2679.2	5096.4
#2	969.24	2584.3	5101.6
#3	974.34	2565.0	5107.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34738.	9792.2	492380.
Stddev	132.	56.5	11656.
%RSD	.37948	.57669	2.3674
#1	34875.	9855.9	479100.
#2	34612.	9772.5	500940.
#3	34728.	9748.3	497100.

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Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09401	30.065	-.86578	-.17706	.06349	-2.7223	-.0546
Stddev	.36693	24.016	.43513	.61348	.00572	8.0358	.0330
%RSD	390.33	79.880	50.259	346.48	9.0044	295.18	60.39
#1	-.35749	37.631	-1.0733	.00936	.06141	6.4829	-.0745
#2	-.24962	49.387	-.36573	.32159	.05910	-6.3139	-.0728
#3	.32509	3.1771	-1.1583	-.86213	.06995	-8.3359	-.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11294	.21485	1.5919	9.1026	65.26	-40.34	-.02972
Stddev	.19265	.29626	.6521	4.4560	26.60	43.19	.01995
%RSD	170.58	137.89	40.961	48.953	40.76	107.1	67.133
#1	.28638	.19639	.93116	5.9402	34.61	-58.05	-.02691
#2	.14684	-.07174	1.6096	14.199	82.33	-71.87	-.01132
#3	-.09441	.51991	2.2349	7.1687	78.84	8.885	-.05093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5865	-27.441	-.44456	-.90336	-1.4324	.68630	.2579
Stddev	.2515	16.791	.13050	1.3019	3.2217	.76419	.0862
%RSD	15.852	61.190	29.354	144.11	224.91	111.35	33.43
#1	-1.4100	-26.537	-.41633	-1.7101	1.7335	.84798	.1722
#2	-1.4751	-11.120	-.58686	.59852	-4.7071	-.14579	.2568
#3	-1.8745	-44.665	-.33049	-1.5985	-1.3237	1.3567	.3446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.76560	.14826	-.20030
Stddev	.82597	.07552	.12885
%RSD	107.89	50.942	64.327
#1	-1.7103	.07303	-.34770
#2	-.40645	.22407	-.10907
#3	-.18000	.14766	-.14413
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37296.	9849.5	528500.
Stddev	40.	71.4	6327.
%RSD	.10801	.72465	1.1971
#1	37342.	9930.2	533620.
#2	37266.	9794.6	530450.
#3	37280.	9823.7	521420.

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Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33560	74.297	3.9244	64.876	.11849	42424.	.2466
Stddev	.08668	37.645	.4620	.626	.01680	191.	.1213
%RSD	25.829	50.668	11.772	.96512	14.182	.45070	49.17
#1	-.40214	94.953	4.2641	65.477	.11150	42288.	.1175
#2	-.36708	30.846	4.1108	64.227	.13766	42341.	.3581
#3	-.23758	97.092	3.3983	64.922	.10630	42642.	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5054	10.688	4.8589	21352.	5871.	7091.	182.57
Stddev	.1970	.261	.4031	65.	22.	34.	1.99
%RSD	13.087	2.4407	8.2963	.30500	.3814	.4788	1.0900
#1	1.2814	10.573	5.0655	21330.	5850.	7052.	180.65
#2	1.6517	10.986	5.1168	21302.	5894.	7109.	184.62
#3	1.5832	10.504	4.3944	21426.	5869.	7113.	182.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.96559	24391.	12.548	.82352	-1.0115	-.14306	.1470
Stddev	.32405	176.	.220	.92462	.9049	.19040	.1524
%RSD	33.560	.72023	1.7533	112.28	89.468	133.09	103.6
#1	-1.1661	24204.	12.438	1.8843	-.02730	-.35647	.0890
#2	-1.1389	24416.	12.801	.39778	-1.8076	-.08213	.0322
#3	-.59174	24552.	12.405	.18846	-1.1995	.00941	.3199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.19380	1.3863	47.123
Stddev	1.3206	.3554	.076
%RSD	681.40	25.637	.16234
#1	-1.5849	1.7423	47.144
#2	-.03915	1.3850	47.039
#3	1.0426	1.0315	47.187
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37237.	10328.	529190.
Stddev	84.	95.	3831.
%RSD	.22656	.92360	.72402
#1	37140.	10259.	530630.
#2	37294.	10288.	524850.
#3	37277.	10437.	532100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.938%	87.508%	94.913%
Range			

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Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.85233	503.79	.85091	144.68	.56572	1404.4	.1012
Stddev	.12550	68.07	.41014	1.82	.02936	13.7	.0477
%RSD	14.724	13.512	48.200	1.2582	5.1899	.97734	47.18
#1	-.96677	580.47	.38771	142.89	.54818	1390.3	.0681
#2	-.71812	480.41	.99710	144.60	.59961	1405.0	.0796
#3	-.87208	450.50	1.1679	146.53	.54937	1417.8	.1559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.633	1.1551	3.7179	1456.0	2441.	3162.	39.230
Stddev	.152	.5465	.1283	26.0	58.	26.	.551
%RSD	.42646	47.312	3.4516	1.7849	2.377	.8271	1.4039
#1	35.482	1.4866	3.7313	1429.0	2378.	3133.	39.032
#2	35.632	1.4543	3.8389	1458.3	2493.	3184.	39.852
#3	35.786	.52431	3.5833	1480.8	2450.	3169.	38.805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4273	17815.	242.14	1.0068	-.39775	.16985	.6949
Stddev	.1628	155.	.34	.6032	1.3127	.96918	.1559
%RSD	6.7091	.86883	.13859	59.911	330.04	570.62	22.43
#1	-2.5965	17636.	242.03	1.2321	-1.9127	1.1381	.8199
#2	-2.4139	17904.	241.87	1.4648	.40429	-.80022	.7446
#3	-2.2716	17904.	242.52	.32337	.31515	.17163	.5203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.50504	.31341	15.165
Stddev	.72501	.11856	.056
%RSD	143.56	37.829	.37075
#1	-1.0798	.26420	15.150
#2	.30947	.44865	15.117
#3	-.74474	.22738	15.227
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38014.	10377.	534360.
Stddev	124.	77.	5899.
%RSD	.32621	.74302	1.1040
#1	38146.	10351.	536480.
#2	37901.	10317.	527690.
#3	37996.	10464.	538900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.941%	87.927%	95.840%
Range			

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Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30907	220.00	.98394	56.723	.36677	8297.7	-.1716
Stddev	.44170	63.97	.90328	1.074	.01497	54.5	.1550
%RSD	142.91	29.078	91.803	1.8932	4.0812	.65669	90.31
#1	.73751	265.50	-.05903	55.616	.36076	8235.3	-.3006
#2	-.14480	247.66	1.4966	56.792	.38380	8321.9	.0003
#3	.33450	146.86	1.5142	57.761	.35573	8335.8	-.2147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6669	1.4713	3.1344	1961.6	1801.	4180.	24.722
Stddev	.1298	.3133	.4663	12.9	50.	52.	.230
%RSD	7.7863	21.291	14.877	.66009	2.802	1.238	.93097
#1	1.5181	1.3979	3.0786	1973.5	1773.	4238.	24.540
#2	1.7258	1.8148	2.6985	1947.8	1859.	4139.	24.980
#3	1.7567	1.2013	3.6261	1963.3	1771.	4164.	24.645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3862	3740.0	1.1371	-.00566	-.40457	.30654	.1108
Stddev	.0898	23.3	.0834	.70942	.55431	.71371	.1508
%RSD	3.7654	.62340	7.3375	12532.	137.01	232.83	136.1
#1	-2.4072	3716.7	1.1324	-.69781	.22581	1.0413	-.0633
#2	-2.2877	3740.1	1.0562	-.03903	-.81577	.26247	.2004
#3	-2.4637	3763.3	1.2228	.71986	-.62375	-.38412	.1954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.70467	.38125	6.0887
Stddev	.27137	.25508	.0535
%RSD	38.510	66.906	.87935
#1	-.48388	.15662	6.1156
#2	-.62252	.32857	6.0270
#3	-1.0076	.65856	6.1234
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37460.	10209.	534970.
Stddev	74.	87.	4113.
%RSD	.19629	.85233	.76882
#1	37428.	10109.	536730.
#2	37544.	10255.	530260.
#3	37408.	10263.	537900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.512%	86.500%	95.949%
Range			

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Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12278	72.941	-.77389	141.47	.10108	442.80	-.1434
Stddev	.40018	29.395	1.4432	6.23	.00996	18.58	.2412
%RSD	325.92	40.299	186.49	4.4053	9.8577	4.1960	168.3
#1	-.52513	40.291	-2.4072	144.65	.09444	448.33	-.2389
#2	-.11842	81.233	.32948	134.29	.09626	422.08	.1310
#3	.27520	97.300	-.24399	145.48	.11253	457.98	-.3222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2847	31.965	1.6194	230.75	2695.	3222.	38.080
Stddev	.0882	.179	.2659	20.90	227.	143.	.393
%RSD	6.8685	.56103	16.420	9.0574	8.438	4.426	1.0317
#1	1.2202	32.045	1.5452	236.10	2856.	3252.	37.901
#2	1.3852	31.760	1.3986	207.70	2435.	3066.	37.809
#3	1.2486	32.090	1.9146	248.46	2795.	3346.	38.531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1026	10671.	7.9304	-.13703	-2.0562	-.35292	1.726
Stddev	.1319	573.	.3424	.99798	1.2175	.87962	1.762
%RSD	11.963	5.3655	4.3179	728.28	59.211	249.24	102.1
#1	-1.0472	10934.	8.3179	-.90882	-.75024	-1.0189	3.761
#2	-1.2531	10014.	7.6686	-.49223	-3.1599	.64422	.6724
#3	-1.0074	11065.	7.8046	.98996	-2.2585	-.68409	.7450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.08714	.32670	2.5378
Stddev	.23637	.31635	.0656
%RSD	271.25	96.831	2.5856
#1	.03316	.05271	2.5924
#2	.34583	.67291	2.4650
#3	-.11757	.25448	2.5559
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37964.	10791.	541800.
Stddev	187.	427.	3864.
%RSD	.49165	3.9591	.71311
#1	37763.	10583.	543860.
#2	38132.	11282.	544190.
#3	37997.	10507.	537340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.811%	91.430%	97.175%
Range			

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Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11918	-31.857	-.68352	141.36	.23446	13711.	-.3159
Stddev	.60403	92.800	1.6321	1.83	.02818	198.	.0776
%RSD	506.84	291.30	238.78	1.2933	12.021	1.4474	24.56
#1	-.81341	-115.89	-2.5576	139.90	.21260	13578.	-.4054
#2	.28608	-47.417	.08168	143.41	.26627	13939.	-.2741
#3	.16980	67.739	.42538	140.76	.22450	13616.	-.2681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8171	11.213	4.7271	1098.3	3464.	4740.	55.975
Stddev	.0927	.676	.9760	14.9	86.	56.	.974
%RSD	5.0997	6.0311	20.647	1.3523	2.490	1.186	1.7396
#1	1.8036	10.827	4.3201	1081.5	3372.	4721.	55.149
#2	1.7320	11.994	5.8407	1109.6	3543.	4804.	57.049
#3	1.9158	10.818	4.0205	1103.9	3477.	4697.	55.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0795	23472.	9.6546	.27791	-1.3307	-.86469	.2839
Stddev	.1201	363.	.0801	.88055	.3003	2.5634	.3942
%RSD	11.124	1.5448	.82969	316.85	22.565	296.45	138.9
#1	-.95058	23197.	9.7390	.03193	-1.6719	-3.1904	-.1481
#2	-1.0996	23883.	9.6452	-.45350	-1.2139	1.8837	.6242
#3	-1.1882	23336.	9.5796	1.2553	-1.1064	-1.2874	.3755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.39832	.33973	24.942
Stddev	1.0545	.22512	.121
%RSD	264.74	66.266	.48529
#1	-.43671	.28163	25.006
#2	.67488	.14935	24.802
#3	-1.4331	.58821	25.018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36976.	10369.	530920.
Stddev	141.	199.	10059.
%RSD	.37996	1.9176	1.8946
#1	36816.	10420.	538960.
#2	37036.	10150.	519640.
#3	37077.	10538.	534160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.267%	87.859%	95.223%
Range			

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Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36113	71.110	32.192	51.758	.08109	2929.7	-.3741
Stddev	.42349	12.135	.659	1.012	.00245	21.8	.1156
%RSD	117.27	17.065	2.0480	1.9557	3.0250	.74504	30.91
#1	-.75071	68.467	31.495	51.312	.07830	2932.7	-.3001
#2	.08963	60.515	32.806	52.917	.08206	2906.6	-.3150
#3	-.42229	84.349	32.274	51.045	.08291	2949.9	-.5074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02971	1.7242	1.8544	32163.	2380.	3827.	61.893
Stddev	.11862	.1961	.3885	192.	32.	34.	.457
%RSD	399.25	11.372	20.952	.59729	1.353	.8756	.73870
#1	-.10538	1.8553	2.1284	32049.	2378.	3866.	62.421
#2	.11686	1.8185	1.4097	32056.	2413.	3803.	61.647
#3	.07766	1.4988	2.0249	32385.	2349.	3813.	61.612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6355	8113.2	1.9628	.26224	-2.8916	-.36344	1.184
Stddev	.0574	33.2	.2992	.58916	1.3819	1.3606	.179
%RSD	2.1785	.40975	15.245	224.67	47.789	374.36	15.16
#1	-2.6992	8103.3	2.2286	.30947	-2.0841	1.0099	1.028
#2	-2.6194	8086.0	2.0212	-.34911	-4.4872	-.38932	1.380
#3	-2.5878	8150.2	1.6387	.82636	-2.1035	-1.7109	1.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.61755	.89353	11.415
Stddev	1.5832	.45563	.051
%RSD	256.37	50.992	.44927
#1	-.78476	1.3521	11.382
#2	-2.1106	.88764	11.389
#3	1.0427	.44087	11.474
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37915.	10265.	540510.
Stddev	46.	152.	4888.
%RSD	.12212	1.4814	.90438
#1	37910.	10254.	538590.
#2	37964.	10422.	546070.
#3	37871.	10119.	536870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	86.978%	96.943%
Range			

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Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02838	239.43	-.31010	468.99	.19245	2641.3	.0963
Stddev	.32234	47.24	1.0078	2.93	.00924	16.6	.0817
%RSD	1135.8	19.731	325.01	.62438	4.8035	.62804	84.91
#1	.23080	187.81	-1.1654	471.61	.19389	2654.0	.0360
#2	.07338	249.95	-.56585	465.83	.18256	2622.6	.0635
#3	-.38932	280.52	.80097	469.54	.20088	2647.5	.1893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0720	5.1543	8.6873	136.98	4133.	9841.	86.600
Stddev	.3205	.2545	.6431	18.36	143.	71.	1.241
%RSD	7.8705	4.9372	7.4024	13.400	3.464	.7197	1.4326
#1	4.2321	5.4454	9.3655	129.73	4292.	9872.	88.021
#2	4.2808	4.9740	8.6101	157.85	4014.	9760.	85.728
#3	3.7030	5.0436	8.0863	123.36	4093.	9891.	86.052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8153	34523.	6.4083	.49450	-1.8941	1.2391	1.557
Stddev	.2032	244.	.2447	1.6300	2.1864	.8858	.259
%RSD	11.191	.70776	3.8191	329.63	115.43	71.485	16.66
#1	-1.9266	34728.	6.4384	1.4608	.16613	2.0884	1.260
#2	-1.5808	34253.	6.6366	-1.3875	-1.6606	.32095	1.669
#3	-1.9386	34588.	6.1499	1.4102	-4.1879	1.3078	1.742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.27572	.52382	24.712
Stddev	.68618	.08592	.083
%RSD	248.87	16.402	.33498
#1	-.51039	.48034	24.616
#2	-.81377	.46832	24.764
#3	.49701	.62278	24.755
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37427.	10264.	540880.
Stddev	179.	160.	6285.
%RSD	.47949	1.5611	1.1620
#1	37571.	10181.	533630.
#2	37226.	10449.	544750.
#3	37485.	10163.	544260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.428%	86.971%	97.010%
Range			

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Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	784.26	49966.	2567.1	10203.	1071.8	50778.	1021.
Stddev	27.39	235.	.7	56.	31.0	335.	2.
%RSD	3.4927	.47120	.02772	.54641	2.8950	.65919	.1535
#1	777.32	49947.	2567.8	10158.	1082.9	50500.	1020.
#2	761.00	50210.	2566.4	10265.	1036.7	51150.	1020.
#3	814.45	49740.	2567.0	10184.	1095.7	50685.	1023.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5002.1	10496.	12440.	25314.	39330.	51720.	5092.0
Stddev	7.2	380.	570.	168.	438.	396.	165.9
%RSD	.14329	3.6244	4.5824	.66178	1.115	.7653	3.2588
#1	4997.5	10397.	12380.	25237.	39160.	51360.	4978.4
#2	4998.4	10176.	11902.	25506.	39830.	52140.	5015.1
#3	5010.3	10917.	13038.	25199.	39010.	51650.	5282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.3	27164.	4918.0	9748.6	2521.8	1278.1	1030.
Stddev	1.3	145.	7.4	17.2	6.0	3.9	38.
%RSD	.12713	.53237	.14989	.17606	.23952	.30812	3.677
#1	1005.3	27058.	4913.6	9740.4	2523.4	1276.2	1019.
#2	1005.7	27329.	4914.0	9737.1	2526.8	1275.4	999.3
#3	1007.7	27105.	4926.6	9768.3	2515.1	1282.6	1073.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	968.74	2608.3	5098.9
Stddev	3.28	96.8	7.1
%RSD	.33809	3.7113	.13840
#1	968.17	2579.9	5092.8
#2	965.78	2528.9	5097.2
#3	972.26	2716.1	5106.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35041.	10029.	496610.
Stddev	54.	127.	16661.
%RSD	.15355	1.2669	3.3549
#1	35065.	10023.	500490.
#2	35077.	9905.6	510980.
#3	34979.	10159.	478350.

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Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07169	46.488	-.98135	.95067	.06455	-3.5587	-.1659
Stddev	.44107	82.891	.46891	.68946	.00688	6.6427	.0741
%RSD	615.25	178.31	47.782	72.524	10.660	186.66	44.65
#1	.08432	135.95	-1.5214	1.3718	.06317	3.9977	-.2341
#2	.50631	-27.702	-.74514	.15500	.05846	-6.1964	-.1765
#3	-.37556	31.210	-.67751	1.3252	.07201	-8.4774	-.0871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25299	.04210	1.8792	4.3202	121.4	36.18	.00001
Stddev	.11354	.19268	1.0876	6.9799	103.4	42.07	.03740
%RSD	44.881	457.70	57.874	161.56	85.18	116.3	424480.
#1	.23306	.09196	1.0002	12.295	81.99	32.76	-.04257
#2	.15074	-.17061	3.0954	1.3422	43.50	79.86	.01508
#3	.37519	.20494	1.5419	-.67673	238.7	-4.069	.02752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3133	-11.843	-.22367	.53135	-1.7583	-.01699	.2774
Stddev	.1516	20.603	.21663	.87828	1.4509	1.4125	.0938
%RSD	11.543	173.96	96.853	165.29	82.519	8314.8	33.81
#1	-1.1666	-28.446	-.33538	1.3669	-1.7257	.53104	.3848
#2	-1.4693	-18.299	-.36164	.61140	-.32397	1.0393	.2365
#3	-1.3039	11.215	.02601	-.38422	-3.2253	-1.6213	.2111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.0381	.24097	-.21548
Stddev	.9946	.19803	.05785
%RSD	95.810	82.179	26.848
#1	-1.1284	.01305	-.19977
#2	-1.9845	.33898	-.16711
#3	-.00143	.37089	-.27957
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37134.	10067.	524780.
Stddev	88.	268.	4777.
%RSD	.23734	2.6638	.91035
#1	37050.	10332.	530010.
#2	37226.	10073.	520640.
#3	37127.	9795.8	523700.

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Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20401	30.072	-.10236	11.903	-.30509	266.94	-.1238
Stddev	.20928	72.267	1.0852	.271	.00979	2.30	.0632
%RSD	102.58	240.31	1060.1	2.2801	3.2092	.86169	51.07
#1	-.16276	27.482	.37985	12.053	-.31333	268.61	-.1142
#2	-.01843	103.60	.65817	12.066	-.30769	264.32	-.1914
#3	-.43084	-40.865	-1.3451	11.590	-.29427	267.89	-.0660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08052	.56479	2.1940	24.925	135.4	34.83	5.0061
Stddev	.14859	.33412	.2450	12.933	33.5	44.06	.0162
%RSD	184.54	59.157	11.166	51.888	24.77	126.5	.32344
#1	-.06032	.83123	2.1546	16.454	165.0	76.60	5.0215
#2	.06608	.67321	1.9712	18.510	99.00	39.10	4.9892
#3	.23581	.18993	2.4563	39.812	142.2	-11.22	5.0076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2780	1992.2	.88444	.50327	.28224	1.8823	603.2
Stddev	.1459	44.4	.21070	1.4000	2.0022	2.3376	8.2
%RSD	6.4068	2.2290	23.823	278.19	709.38	124.18	1.355
#1	-2.1596	1942.8	.94699	-.77486	2.4642	4.1987	612.6
#2	-2.2332	2005.1	.64954	1.9996	-.14705	1.9241	597.6
#3	-2.4410	2028.7	1.0568	.28510	-1.4705	-.47583	599.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.2378	.79105	330.84
Stddev	.1337	.10109	1.22
%RSD	3.1557	12.779	.36987
#1	-4.0976	.90732	332.01
#2	-4.3640	.74187	330.94
#3	-4.2516	.72396	329.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38491.	10249.	562400.
Stddev	46.	18.	5478.
%RSD	.12000	.17399	.97408
#1	38504.	10247.	557070.
#2	38440.	10232.	568020.
#3	38530.	10268.	562120.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.170%	86.839%	100.87%
Range			

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Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.946	458.15	18.376	387.66	9.0768	9695.1	9.437
Stddev	.790	89.59	1.327	3.28	.1250	66.9	.206
%RSD	3.7696	19.555	7.2203	.84692	1.3766	.69024	2.188
#1	21.232	457.53	17.114	384.09	9.1357	9620.2	9.406
#2	20.054	548.05	19.759	388.34	8.9333	9716.1	9.247
#3	21.554	368.88	18.254	390.55	9.1614	9749.1	9.656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.190	19.552	48.926	209.11	10070.	9585.	35.271
Stddev	.227	.420	.843	11.41	87.	110.	.450
%RSD	.24875	2.1500	1.7226	5.4555	.8658	1.152	1.2744
#1	91.448	19.754	49.657	197.87	9967.	9459.	35.498
#2	91.102	19.069	48.004	220.68	10120.	9631.	34.754
#3	91.021	19.833	49.115	208.78	10110.	9664.	35.562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4152	12238.	71.886	18.707	104.63	65.363	634.9
Stddev	.1787	66.	.290	.941	2.43	1.954	11.7
%RSD	7.3993	.53883	.40288	5.0288	2.3245	2.9897	1.837
#1	-2.2094	12176.	71.940	18.101	104.02	64.380	642.6
#2	-2.5044	12230.	71.573	18.230	107.31	67.613	621.5
#3	-2.5317	12307.	72.144	19.791	102.56	64.095	640.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.517	94.413	404.12
Stddev	1.341	1.249	.72
%RSD	3.0819	1.3232	.17820
#1	44.904	95.322	404.93
#2	42.227	92.988	403.57
#3	43.420	94.929	403.84
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37150.	10146.	532300.
Stddev	213.	53.	8941.
%RSD	.57303	.51956	1.6796
#1	37007.	10156.	532120.
#2	37395.	10192.	541330.
#3	37048.	10089.	523450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.714%	85.965%	95.471%
Range			

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Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03016	447.55	-.41554	31.622	-.18774	3040.4	.2420
Stddev	.36685	48.43	.86838	1.087	.01092	75.7	.0932
%RSD	1216.4	10.821	208.98	3.4361	5.8181	2.4912	38.51
#1	.31614	437.77	-1.3983	30.607	-.18062	2984.3	.1344
#2	-.38347	500.12	-.09676	31.493	-.18228	3010.4	.2952
#3	.15780	404.75	.24840	32.768	-.20031	3126.6	.2963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47776	1.7159	6.4597	413.55	1147.	374.0	18.416
Stddev	.06926	.0612	1.0053	10.43	20.	29.7	.024
%RSD	14.497	3.5635	15.562	2.5230	1.730	7.948	.12808
#1	.55773	1.6486	5.9796	413.76	1127.	368.7	18.418
#2	.43890	1.7311	7.6150	403.01	1149.	406.0	18.439
#3	.43666	1.7681	5.7845	423.87	1166.	347.3	18.392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1455	8379.3	1.9234	23.020	-1.2027	1.8562	445.1
Stddev	.1839	186.4	.3198	.101	1.5420	2.7413	3.6
%RSD	8.5736	2.2248	16.626	.44034	128.21	147.68	.8192
#1	-2.0376	8238.1	1.6408	23.025	-.76747	-1.1933	443.0
#2	-2.3579	8309.3	2.2706	22.917	.07482	2.6462	449.3
#3	-2.0410	8590.6	1.8589	23.119	-2.9155	4.1158	443.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4581	1.4342	301.07
Stddev	1.3613	.1003	1.02
%RSD	39.366	6.9936	.34029
#1	-3.2812	1.5215	302.24
#2	-4.8991	1.4566	300.64
#3	-2.1938	1.3247	300.33
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37999.	10338.	553290.
Stddev	167.	147.	3993.
%RSD	.44032	1.4177	.72174
#1	37903.	10366.	556560.
#2	38192.	10469.	548840.
#3	37902.	10180.	554460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.902%	87.595%	99.236%
Range			

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Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09237	164.69	1.0407	20.839	.04544	3487.5	-.1594
Stddev	.32384	15.71	.5266	.292	.00626	27.4	.0964
%RSD	350.58	9.5361	50.602	1.3996	13.767	.78667	60.48
#1	-.27408	174.20	.49530	20.537	.04010	3457.0	-.0903
#2	.21112	146.57	1.0806	21.119	.04389	3495.5	-.2695
#3	.34008	173.32	1.5463	20.862	.05232	3510.1	-.1183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28690	1.1211	2.5020	48.137	169.4	1107.	7.5789
Stddev	.02651	.2795	.7325	6.406	19.7	34.	.0775
%RSD	9.2394	24.928	29.278	13.307	11.60	3.071	1.0229
#1	.26291	.90322	1.9492	41.130	148.6	1084.	7.5064
#2	.31535	1.0240	3.3328	49.588	171.9	1091.	7.6606
#3	.28243	1.4362	2.2239	53.693	187.6	1146.	7.5696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5006	16370.	.08537	294.63	-.91991	2.7627	3.918
Stddev	.1728	159.	.14692	.99	1.5617	.9434	.288
%RSD	6.9097	.96976	172.11	.33521	169.77	34.148	7.351
#1	-2.5150	16206.	-.07764	295.75	-.09904	2.5376	3.635
#2	-2.6657	16381.	.12616	293.86	.06017	1.9522	4.211
#3	-2.3211	16523.	.20758	294.30	-2.7208	3.7983	3.910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.6917	.53581	268.70
Stddev	.6291	.04441	.42
%RSD	23.371	8.2883	.15795
#1	-3.3717	.51174	268.51
#2	-2.1304	.58706	268.40
#3	-2.5731	.50864	269.18
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37670.	10233.	547100.
Stddev	155.	57.	5559.
%RSD	.41176	.55623	1.0161
#1	37679.	10173.	550040.
#2	37820.	10239.	540690.
#3	37510.	10286.	550570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.053%	86.702%	98.126%
Range			

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Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04996	4885.2	10.486	117.32	-.35890	15162.	.3544
Stddev	.36677	59.1	.395	.57	.00837	41.	.0132
%RSD	734.08	1.2093	3.7663	.49001	2.3317	.26765	3.734
#1	-.44384	4952.5	10.543	117.75	-.36656	15190.	.3393
#2	.28174	4841.6	10.849	117.53	-.36018	15179.	.3639
#3	.01222	4861.6	10.066	116.66	-.34997	15115.	.3599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5595	19.509	50.445	5578.1	3698.	2581.	186.13
Stddev	.1694	.478	1.419	33.0	34.	58.	2.10
%RSD	6.6201	2.4511	2.8126	.59115	.9063	2.252	1.1270
#1	2.5770	19.639	51.606	5548.5	3662.	2581.	187.37
#2	2.3820	19.909	50.865	5572.3	3729.	2523.	187.30
#3	2.7195	18.980	48.864	5613.7	3702.	2640.	183.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5227	16455.	10.326	41.937	2.9179	1.4542	1117.
Stddev	.1031	59.	.347	.682	2.6595	2.5557	11.
%RSD	6.7709	.36145	3.3590	1.6269	91.145	175.75	.9618
#1	-1.4244	16520.	10.317	41.844	5.5472	4.2558	1125.
#2	-1.6300	16444.	10.677	42.661	.22911	-.74965	1121.
#3	-1.5137	16402.	9.9833	41.306	2.9774	.85645	1105.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.6136	14.574	443.63
Stddev	1.2609	.222	.91
%RSD	27.329	1.5228	.20594
#1	-3.4703	14.827	444.54
#2	-4.4044	14.483	443.65
#3	-5.9659	14.412	442.71
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36662.	9923.6	517330.
Stddev	120.	40.8	6680.
%RSD	.32742	.41074	1.2912
#1	36769.	9908.7	513240.
#2	36532.	9892.5	513720.
#3	36684.	9969.8	525040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.457%	84.083%	92.786%
Range			

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Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17692	848.98	-.35232	28.713	-.39146	4484.3	.0957
Stddev	.41860	132.43	.70438	.885	.01309	29.9	.1261
%RSD	236.60	15.598	199.93	3.0837	3.3433	.66648	131.8
#1	.00791	929.30	.25108	27.691	-.38632	4458.6	.2330
#2	-.65612	696.13	-1.1263	29.244	-.40634	4477.2	-.0151
#3	.11744	921.49	-.18171	29.203	-.38172	4517.1	.0693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44473	3.1153	10.604	810.14	1759.	640.6	43.477
Stddev	.11175	.1872	.722	26.59	23.	2.2	.182
%RSD	25.128	6.0083	6.8039	3.2825	1.289	.3369	.41770
#1	.56563	3.3252	9.7803	807.08	1735.	638.9	43.274
#2	.34522	2.9656	11.122	785.21	1760.	643.0	43.623
#3	.42333	3.0552	10.910	838.14	1781.	639.8	43.534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1422	12669.	2.3794	6.1080	-.03584	-.13759	838.2
Stddev	.1806	92.	.3199	1.0681	1.5052	1.1859	11.1
%RSD	8.4293	.72757	13.445	17.486	4200.0	861.87	1.324
#1	-2.1917	12582.	2.0151	7.0643	-1.7511	.98183	828.4
#2	-1.9420	12660.	2.6148	6.3042	.57887	-.01434	850.3
#3	-2.2929	12765.	2.5082	4.9554	1.0647	-1.3803	836.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.8429	3.0387	322.86
Stddev	1.6945	.0867	.79
%RSD	44.094	2.8519	.24467
#1	-3.4051	3.1354	322.84
#2	-5.7134	3.0125	323.66
#3	-2.4103	2.9681	322.08
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37833.	10249.	551070.
Stddev	144.	54.	3948.
%RSD	.38001	.52628	.71644
#1	37729.	10214.	553230.
#2	37772.	10311.	553470.
#3	37997.	10222.	546520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.473%	86.841%	98.838%
Range			

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Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23908	684.37	.10946	28.849	-.57270	3971.3	.0360
Stddev	.30242	49.78	2.1166	.128	.01216	22.4	.1697
%RSD	126.50	7.2742	1933.8	.44411	2.1228	.56463	472.0
#1	.09075	731.37	1.2669	28.784	-.56256	3949.0	-.1598
#2	-.50334	689.52	1.3949	28.766	-.58618	3993.9	.1429
#3	-.30464	632.21	-2.3335	28.996	-.56937	3971.1	.1247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55880	2.9704	9.1506	580.02	1462.	725.2	27.634
Stddev	.13608	.1881	.8298	11.32	38.	8.3	.372
%RSD	24.352	6.3313	9.0680	1.9510	2.626	1.139	1.3454
#1	.40921	3.0279	9.9733	592.75	1432.	721.5	28.061
#2	.67524	3.1230	9.1646	571.10	1449.	719.5	27.386
#3	.59196	2.7603	8.3139	576.23	1506.	734.7	27.454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3137	11719.	3.5466	6.1457	.11586	.92053	1165.
Stddev	.2268	9.	.1102	.5250	1.7570	.51458	17.
%RSD	9.8003	.08101	3.1066	8.5419	1516.5	55.901	1.439
#1	-2.4717	11710.	3.4313	5.7460	-1.7930	1.0534	1184.
#2	-2.4156	11729.	3.5577	5.9509	.47521	.35252	1161.
#3	-2.0539	11717.	3.6508	6.7402	1.6654	1.3556	1151.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.2363	2.7858	283.97
Stddev	1.1607	.0365	1.19
%RSD	27.399	1.3107	.41805
#1	-3.8831	2.8280	283.29
#2	-3.2933	2.7658	283.29
#3	-5.5326	2.7637	285.34
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38062.	10304.	544530.
Stddev	164.	67.	5492.
%RSD	.43065	.64565	1.0086
#1	38008.	10282.	538850.
#2	37932.	10379.	544930.
#3	38246.	10251.	549810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.063%	87.305%	97.664%
Range			

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Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25526	2422.4	.27034	53.655	-.43716	106120.	.2808
Stddev	.62001	78.7	1.9919	.711	.02438	1180.	.0443
%RSD	242.89	3.2499	736.80	1.3248	5.5770	1.1124	15.79
#1	.41585	2332.5	2.5636	53.309	-.46267	104760.	.2423
#2	.77918	2455.8	-1.0287	53.182	-.43471	106910.	.3293
#3	-.42924	2478.9	-.72392	54.472	-.41409	106680.	.2709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0027	26.787	118.83	1393.3	2158.	2700.	95.228
Stddev	.1603	.276	1.21	20.7	62.	50.	.615
%RSD	3.2034	1.0295	1.0153	1.4850	2.887	1.859	.64589
#1	5.0847	27.071	120.23	1378.0	2089.	2642.	95.899
#2	4.8181	26.520	118.14	1385.0	2177.	2731.	95.092
#3	5.1054	26.771	118.13	1416.8	2209.	2727.	94.692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.8849	13351.	8.5086	19.394	-.84221	2.2888	1135.
Stddev	.2863	196.	.0213	.417	1.5192	1.1531	29.
%RSD	4.1584	1.4701	.25067	2.1518	180.38	50.381	2.530
#1	6.8104	13128.	8.5104	19.712	-1.6864	3.1919	1160.
#2	7.2011	13496.	8.5289	18.921	.91156	2.6844	1141.
#3	6.6432	13430.	8.4864	19.547	-1.7518	.98992	1103.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4905	5.9026	608.02
Stddev	1.1147	.3495	.91
%RSD	24.824	5.9204	.15000
#1	-3.8131	5.5536	608.41
#2	-3.8813	5.9018	608.67
#3	-5.7770	6.2525	606.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36296.	10065.	522130.
Stddev	38.	44.	3431.
%RSD	.10357	.44081	.65715
#1	36254.	10100.	518250.
#2	36307.	10015.	524750.
#3	36327.	10079.	523380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.514%	85.279%	93.647%
Range			

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Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16325	460.00	-1.1474	60.316	-.61724	2704.4	.0212
Stddev	.02837	35.17	1.1451	.609	.00799	16.8	.0241
%RSD	17.381	7.6465	99.797	1.0096	1.2945	.61941	113.4
#1	.16517	485.35	.08610	59.726	-.60838	2685.6	.0489
#2	.19062	474.81	-2.1765	60.280	-.62390	2717.8	.0053
#3	.13397	419.84	-1.3518	60.942	-.61944	2709.9	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34261	2.2632	8.3857	407.77	569.1	302.2	27.910
Stddev	.17975	.1412	.3911	8.26	97.0	8.3	.244
%RSD	52.464	6.2389	4.6635	2.0265	17.04	2.741	.87362
#1	.37587	2.1547	7.9349	416.13	567.2	305.9	27.634
#2	.14856	2.2119	8.5880	399.61	667.0	292.7	27.998
#3	.50341	2.4228	8.6342	407.58	473.1	307.9	28.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4725	10134.	2.3742	13.459	-.24175	2.2484	1211.
Stddev	.1728	70.	.1848	1.099	.66305	2.5603	6.
%RSD	6.9884	.69505	7.7839	8.1620	274.28	113.87	.5119
#1	-2.6665	10059.	2.1992	14.591	-.93016	.74168	1204.
#2	-2.4160	10145.	2.3558	12.397	.39264	5.2047	1217.
#3	-2.3350	10199.	2.5675	13.389	-.18772	.79899	1212.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.7263	2.4310	1422.6
Stddev	.8424	.1388	1.2
%RSD	17.823	5.7091	.08614
#1	-5.0586	2.5702	1421.3
#2	-3.7685	2.2926	1423.8
#3	-5.3518	2.4301	1422.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37706.	10280.	541760.
Stddev	48.	61.	1648.
%RSD	.12711	.59662	.30425
#1	37756.	10326.	543570.
#2	37703.	10304.	541350.
#3	37660.	10211.	540350.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.147%	87.107%	97.167%
Range			

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Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22386	268.42	-.02359	23.313	-.17011	2386.8	-.0755
Stddev	.59313	88.58	.33267	.354	.01375	25.8	.0384
%RSD	264.95	32.999	1410.4	1.5203	8.0802	1.0798	50.83
#1	.36086	234.06	-.30677	23.721	-.17936	2360.9	-.1198
#2	-.82505	369.03	.34279	23.142	-.15432	2387.1	-.0523
#3	-.20740	202.17	-.10678	23.077	-.17666	2412.5	-.0544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29661	2.2236	6.6442	239.04	547.8	197.5	28.992
Stddev	.04016	.2936	.8946	11.95	95.4	15.1	.062
%RSD	13.541	13.202	13.464	4.9984	17.42	7.629	.21229
#1	.34239	2.1242	6.5567	232.96	438.1	203.7	28.998
#2	.28019	2.5540	5.7966	252.80	611.3	208.5	29.050
#3	.26726	1.9927	7.5793	231.35	594.0	180.3	28.927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3803	8808.4	1.8688	10.958	1.3277	1.7575	437.3
Stddev	.1078	106.8	.3543	1.504	.8225	.7969	4.8
%RSD	4.5286	1.2120	18.960	13.729	61.949	45.343	1.092
#1	-2.5000	8689.9	1.4610	12.187	2.0594	1.4492	441.9
#2	-2.2908	8838.3	2.0437	11.408	.43748	2.6625	432.4
#3	-2.3501	8897.0	2.1016	9.2806	1.4861	1.1608	437.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1306	1.0693	1113.8
Stddev	1.2006	.2268	4.0
%RSD	29.067	21.207	.36121
#1	-4.8407	.82617	1117.8
#2	-4.8067	1.1066	1113.6
#3	-2.7444	1.2751	1109.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37180.	10057.	534090.
Stddev	180.	98.	4195.
%RSD	.48322	.97607	.78539
#1	37034.	10093.	529730.
#2	37126.	9946.2	534430.
#3	37381.	10133.	538100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.791%	85.214%	95.792%
Range			

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Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05720	354.38	.88375	20.770	-.38709	1940.8	.0691
Stddev	.16565	39.81	.45554	.784	.01412	32.7	.0436
%RSD	289.59	11.234	51.547	3.7745	3.6477	1.6839	63.15
#1	.09977	392.18	1.2425	19.870	-.37254	1903.1	.0412
#2	-.04104	312.82	1.0375	21.130	-.38798	1957.6	.1194
#3	-.23033	358.12	.37122	21.309	-.40074	1961.6	.0467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34329	2.7255	6.7481	198.76	490.6	245.9	16.212
Stddev	.09986	.3143	.2755	7.73	37.2	32.7	.207
%RSD	29.089	11.531	4.0823	3.8882	7.582	13.31	1.2797
#1	.25382	2.8431	6.7744	192.80	531.5	252.8	16.342
#2	.45103	2.9641	7.0095	196.00	458.8	210.3	16.322
#3	.32503	2.3694	6.4604	207.50	481.6	274.7	15.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4784	7991.0	2.8863	11.968	-1.3105	1.7863	793.5
Stddev	.1247	130.7	.1296	.544	.9099	.9055	11.1
%RSD	5.0311	1.6359	4.4914	4.5477	69.428	50.692	1.402
#1	-2.5679	7841.6	2.7946	11.743	-2.2234	1.6068	801.8
#2	-2.5314	8047.4	2.8298	12.589	-1.3046	2.7682	797.7
#3	-2.3360	8084.1	3.0346	11.572	-.40366	.98401	780.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4533	1.2106	309.44
Stddev	1.1096	.2274	.28
%RSD	32.130	18.785	.09183
#1	-4.7305	1.4253	309.13
#2	-2.9022	1.2341	309.69
#3	-2.7272	.97231	309.50
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38017.	10365.	546080.
Stddev	86.	133.	5611.
%RSD	.22670	1.2792	1.0275
#1	38102.	10483.	540800.
#2	37930.	10390.	545480.
#3	38019.	10221.	551970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.948%	87.821%	97.943%
Range			

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Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34247	1667.3	1.3765	328.96	-.82163	8102.0	7.300
Stddev	.14100	28.6	.5012	1.52	.01473	40.8	.241
%RSD	41.171	1.7140	36.413	.46147	1.7932	.50326	3.309
#1	.41138	1690.6	1.9495	328.40	-.83809	8094.0	7.339
#2	.43577	1635.4	1.1605	327.81	-.80969	8065.8	7.041
#3	.18027	1675.9	1.0194	330.68	-.81711	8146.2	7.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8811	7.6755	16.765	1531.9	526.7	929.0	56.134
Stddev	.1150	.2607	.787	16.8	27.5	11.9	.706
%RSD	3.9919	3.3969	4.6920	1.0936	5.212	1.277	1.2571
#1	3.0067	7.3866	17.075	1541.0	534.5	942.4	56.590
#2	2.8556	7.7468	15.870	1512.5	496.2	924.9	55.321
#3	2.7809	7.8932	17.348	1542.1	549.5	919.8	56.490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1258	7830.5	4.0797	984.04	1.4417	2.1419	1638.
Stddev	.1486	75.3	.3523	5.58	.5545	1.8486	12.
%RSD	6.9890	.96120	8.6343	.56673	38.465	86.305	.7476
#1	-2.2963	7820.4	3.8967	990.40	1.9598	3.8813	1642.
#2	-2.0237	7760.8	3.8567	981.73	1.5086	.20071	1625.
#3	-2.0575	7910.3	4.4858	979.99	.85675	2.3437	1648.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.7428	5.1486	867.79
Stddev	.8862	.2771	3.93
%RSD	18.685	5.3828	.45331
#1	-4.1035	5.0040	872.16
#2	-4.3705	4.9736	866.66
#3	-5.7544	5.4681	864.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37869.	10249.	538900.
Stddev	278.	57.	3442.
%RSD	.73314	.55390	.63867
#1	37751.	10209.	535820.
#2	37669.	10314.	542620.
#3	38186.	10225.	538260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.565%	86.843%	96.655%
Range			

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Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09053	3013.5	1.3735	95.300	-.19950	17274.	.5062
Stddev	.21082	188.0	.7944	6.661	.00935	1101.	.1730
%RSD	232.86	6.2378	57.839	6.9896	4.6853	6.3737	34.18
#1	-.11297	3226.0	.74931	102.98	-.20347	18545.	.3306
#2	.07660	2945.7	1.1035	91.082	-.18882	16632.	.5114
#3	.30797	2868.9	2.2678	91.838	-.20621	16644.	.6765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6822	12.031	35.106	3927.1	2480.	1817.	125.17
Stddev	.1515	.619	1.126	267.5	188.	102.	2.41
%RSD	9.0047	5.1411	3.2066	6.8109	7.572	5.629	1.9222
#1	1.5898	11.327	34.222	4234.5	2691.	1932.	122.52
#2	1.8571	12.275	34.723	3747.4	2417.	1783.	125.79
#3	1.5999	12.489	36.373	3799.3	2331.	1736.	127.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.4995	8616.4	7.4183	22.211	-.38959	1.8917	640.5
Stddev	.2009	490.1	.1904	.803	1.5773	.3172	9.9
%RSD	13.397	5.6874	2.5671	3.6149	404.87	16.771	1.550
#1	-1.5672	9180.7	7.2937	22.239	.99632	2.2141	629.3
#2	-1.6579	8297.9	7.6375	21.395	-.05909	1.5799	648.1
#3	-1.2735	8370.6	7.3238	23.000	-2.1060	1.8810	644.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4261	8.7252	467.38
Stddev	.6016	.2660	.86
%RSD	13.592	3.0483	.18336
#1	-4.1682	8.4218	468.21
#2	-3.9966	8.8358	466.50
#3	-5.1137	8.9180	467.42
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37453.	9999.6	540630.
Stddev	124.	433.2	9062.
%RSD	.33105	4.3317	1.6762
#1	37310.	9504.8	551000.
#2	37538.	10310.	536630.
#3	37510.	10184.	534260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.493%	84.727%	96.965%
Range			

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Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53741	317.08	.12389	31.993	-.46917	2988.9	-.0929
Stddev	.24369	76.42	1.5321	.606	.00805	29.4	.0751
%RSD	45.345	24.101	1236.7	1.8935	1.7165	.98215	80.80
#1	-.72479	398.82	-.05936	31.418	-.46762	2964.3	-.1410
#2	-.62552	305.01	-1.3084	31.935	-.46201	2980.9	-.1313
#3	-.26192	247.41	1.7394	32.625	-.47789	3021.4	-.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.49933	1.9712	6.9819	247.49	1244.	229.8	19.615
Stddev	.08671	.4327	1.0005	13.61	49.	18.7	.311
%RSD	17.365	21.951	14.330	5.5002	3.926	8.139	1.5880
#1	.45090	1.4715	7.9586	247.84	1243.	213.9	19.964
#2	.44765	2.2235	5.9592	233.70	1294.	225.1	19.366
#3	.59943	2.2184	7.0278	260.92	1196.	250.4	19.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5407	6110.3	1.7775	1.9876	5.7027	2.0944	922.5
Stddev	.1745	48.0	.2677	.6281	.5774	1.8962	26.4
%RSD	6.8683	.78564	15.058	31.602	10.125	90.538	2.858
#1	-2.5279	6073.9	2.0858	1.5584	5.1354	1.7109	952.5
#2	-2.3730	6092.4	1.6416	1.6958	6.2898	4.1531	903.3
#3	-2.7213	6164.7	1.6050	2.7085	5.6829	.41926	911.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1894	1.6286	342.40
Stddev	2.1468	.1787	.40
%RSD	51.242	10.969	.11674
#1	-4.5072	1.6875	342.86
#2	-1.9015	1.4280	342.15
#3	-6.1596	1.7704	342.18
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37899.	10243.	546410.
Stddev	127.	20.	8995.
%RSD	.33505	.19988	1.6462
#1	37876.	10220.	536180.
#2	38037.	10248.	553090.
#3	37786.	10259.	549960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.645%	86.785%	98.002%
Range			

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Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02936	577.82	.03576	32.153	-.35243	5609.0	.1463
Stddev	.10687	35.93	.81504	.114	.00992	43.6	.0909
%RSD	364.05	6.2182	2279.0	.35558	2.8145	.77644	62.18
#1	-.12112	557.76	.64878	32.262	-.34490	5560.0	.0717
#2	.08798	556.40	.34769	32.034	-.36367	5623.7	.2476
#3	-.05492	619.30	-.88917	32.162	-.34872	5643.3	.1195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44738	2.5011	16.225	527.59	1630.	459.3	32.161
Stddev	.10444	.2373	.393	13.65	68.	28.9	.231
%RSD	23.346	9.4878	2.4193	2.5863	4.151	6.289	.71725
#1	.49086	2.7372	16.061	531.59	1559.	489.3	32.427
#2	.32822	2.2626	15.940	512.39	1693.	431.7	32.022
#3	.52307	2.5035	16.672	538.79	1638.	456.8	32.034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4111	8867.4	3.0442	6.1613	6.4559	4.3131	767.9
Stddev	.0987	57.0	.2318	.3681	.6441	1.3723	20.3
%RSD	4.0939	.64258	7.6160	5.9737	9.9772	31.817	2.641
#1	-2.3035	8802.2	3.2206	6.3986	7.0191	3.5831	787.8
#2	-2.4974	8892.5	2.7816	5.7373	6.5950	5.8961	768.5
#3	-2.4323	8907.7	3.1303	6.3480	5.7536	3.4600	747.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.9148	3.9175	392.93
Stddev	.9126	.2502	.59
%RSD	18.569	6.3859	.15131
#1	-5.1447	4.1690	393.61
#2	-5.6905	3.9147	392.62
#3	-3.9092	3.6687	392.55
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37332.	10006.	539160.
Stddev	120.	50.	6479.
%RSD	.32260	.49791	1.2017
#1	37358.	9997.7	532710.
#2	37200.	9961.3	539110.
#3	37436.	10060.	545670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.182%	84.784%	96.702%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.80110	7627.5	7.3733	227.76	-.64869	70510.	11.86
Stddev	.37527	188.7	.8833	1.19	.01852	278.	.09
%RSD	46.844	2.4739	11.979	.52067	2.8554	.39410	.7642
#1	.78902	7503.8	8.0241	226.49	-.63018	70216.	11.79
#2	1.1823	7844.7	6.3678	228.83	-.66723	70546.	11.96
#3	.43201	7534.0	7.7280	227.96	-.64867	70768.	11.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0451	27.399	131.71	7370.4	4808.	4482.	223.21
Stddev	.0752	.463	2.17	21.0	86.	32.	3.19
%RSD	1.0673	1.6891	1.6503	.28465	1.781	.7223	1.4281
#1	7.1260	27.404	129.78	7346.5	4787.	4478.	220.85
#2	6.9774	27.859	134.07	7385.8	4902.	4516.	226.84
#3	7.0320	26.934	131.30	7379.0	4735.	4452.	221.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5187	17895.	23.495	114.85	3.2923	2.8031	1645.
Stddev	.1921	71.	.370	.65	2.6712	.1588	23.
%RSD	12.650	.39881	1.5754	.56416	81.134	5.6668	1.417
#1	1.3005	17814.	23.894	114.12	3.4738	2.8138	1639.
#2	1.6624	17925.	23.429	115.33	.53503	2.9564	1671.
#3	1.5933	17946.	23.163	115.12	5.8681	2.6393	1625.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-6.7427	18.892	5951.2
Stddev	.8348	.283	8.6
%RSD	12.381	1.4991	.14518
#1	-7.0270	18.679	5959.9
#2	-5.8029	19.213	5951.2
#3	-7.3982	18.785	5942.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36277.	10136.	520300.
Stddev	153.	46.	4569.
%RSD	.42054	.45207	.87811
#1	36425.	10128.	523390.
#2	36287.	10094.	515050.
#3	36120.	10185.	522460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.465%	85.880%	93.319%
Range			

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Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07204	299.05	1.2482	25.491	-.44901	3129.7	.1701
Stddev	.40976	58.41	1.1188	.886	.01497	44.4	.0432
%RSD	568.79	19.532	89.637	3.4769	3.3343	1.4187	25.41
#1	-.20156	271.12	2.5400	24.480	-.43183	3099.9	.2178
#2	-.12546	366.19	.60994	25.857	-.45926	3108.5	.1335
#3	.54314	259.85	.59451	26.135	-.45595	3180.7	.1590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1755	4.8231	11.558	295.85	1154.	304.4	21.913
Stddev	.0673	.1981	.679	9.11	53.	46.9	.378
%RSD	5.7214	4.1068	5.8712	3.0799	4.590	15.41	1.7266
#1	1.2368	4.8750	12.291	285.48	1183.	258.6	22.318
#2	1.1861	4.9900	10.951	299.51	1093.	352.4	21.852
#3	1.1035	4.6042	11.433	302.57	1185.	302.2	21.569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4213	8904.7	2.1877	29.863	-2.1650	2.4974	906.8
Stddev	.3811	100.4	.1852	.890	.2255	1.4848	15.8
%RSD	15.740	1.1279	8.4646	2.9805	10.416	59.454	1.744
#1	-1.9916	8900.4	2.2724	30.374	-1.9385	4.1043	924.3
#2	-2.7186	8806.5	2.3154	28.835	-2.3895	2.2118	902.2
#3	-2.5535	9007.2	1.9754	30.379	-2.1669	1.1761	893.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.5164	1.3468	359.97
Stddev	1.2507	.1981	.74
%RSD	22.672	14.709	.20513
#1	-6.7329	1.1811	360.80
#2	-4.2342	1.5662	359.70
#3	-5.5820	1.2930	359.40
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37328.	10069.	535760.
Stddev	71.	13.	7722.
%RSD	.18972	.13239	1.4412
#1	37279.	10058.	526930.
#2	37297.	10084.	539080.
#3	37410.	10065.	541270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.174%	85.317%	96.092%
Range			

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Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19910	318.59	.03696	24.745	-.23354	2520.9	.0571
Stddev	.13514	36.05	.53398	1.596	.01677	22.3	.0700
%RSD	67.876	11.315	1444.6	6.4497	7.1809	.88647	122.7
#1	.13371	288.54	-.38853	23.438	-.23596	2499.2	.0522
#2	.10909	358.56	.63617	26.523	-.24897	2519.5	-.0104
#3	.35450	308.67	-.13675	24.273	-.21569	2543.9	.1294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2600	2.1882	19.893	209.95	1206.	184.8	18.598
Stddev	.1069	.1712	.598	12.12	20.	19.6	.196
%RSD	8.4857	7.8232	3.0068	5.7747	1.619	10.62	1.0535
#1	1.1854	2.3766	19.821	199.65	1183.	165.0	18.678
#2	1.2121	2.0421	20.525	223.31	1217.	185.0	18.742
#3	1.3825	2.1460	19.335	206.88	1218.	204.3	18.375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4184	8192.2	1.3850	16.496	.80019	1.9025	529.8
Stddev	.1749	76.5	.1196	1.099	.64029	.6047	12.8
%RSD	7.2300	.93334	8.6369	6.6606	80.017	31.786	2.421
#1	-2.2676	8124.8	1.4835	16.096	1.1176	2.2089	538.7
#2	-2.3775	8176.6	1.4198	17.739	1.2197	1.2059	535.6
#3	-2.6100	8275.3	1.2519	15.654	.06321	2.2928	515.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4236	1.2454	314.35
Stddev	.8669	.1324	.61
%RSD	25.321	10.630	.19442
#1	-3.6114	1.3382	313.89
#2	-4.1812	1.3042	314.13
#3	-2.4782	1.0938	315.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37250.	10130.	538670.
Stddev	88.	97.	3021.
%RSD	.23532	.95399	.56087
#1	37350.	10202.	536830.
#2	37216.	10169.	537030.
#3	37185.	10020.	542160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.972%	85.835%	96.613%
Range			

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Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6788	306.70	.54184	22.815	-.24089	2660.4	.1072
Stddev	.3056	100.46	.39381	.520	.00772	9.9	.1716
%RSD	18.201	32.755	72.679	2.2797	3.2037	.37314	160.1
#1	1.9606	387.34	.52734	22.295	-.24750	2651.5	.3052
#2	1.7218	194.17	.94270	22.814	-.23241	2658.6	.0015
#3	1.3541	338.59	.15549	23.335	-.24275	2671.1	.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1260	2.1436	7.2565	206.55	1236.	221.6	24.404
Stddev	.1287	.2799	1.2912	20.07	58.	19.7	.811
%RSD	11.428	13.059	17.794	9.7189	4.707	8.898	3.3229
#1	1.1645	1.8440	7.6700	183.79	1265.	228.0	24.216
#2	.98251	2.3985	8.2904	221.75	1275.	199.5	25.293
#3	1.2311	2.1884	5.8092	214.11	1169.	237.3	23.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3864	7565.2	1.8710	17.660	.01532	1.3020	546.9
Stddev	.3287	36.5	.2444	.890	2.6914	.7007	28.3
%RSD	13.775	.48249	13.061	5.0373	17567.	53.818	5.182
#1	-2.0631	7545.3	1.7685	16.743	3.0339	1.7980	534.8
#2	-2.7203	7543.0	2.1499	18.520	-2.1341	.50039	579.3
#3	-2.3759	7607.3	1.6946	17.718	-.85382	1.6077	526.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9517	1.0722	331.41
Stddev	.3580	.4799	.88
%RSD	9.0599	44.763	.26648
#1	-4.3628	.87259	332.43
#2	-3.7082	.72425	330.88
#3	-3.7842	1.6197	330.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37498.	10214.	536590.
Stddev	130.	90.	15301.
%RSD	.34611	.88435	2.8514
#1	37466.	10205.	535460.
#2	37641.	10128.	521890.
#3	37387.	10308.	552430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.611%	86.541%	96.241%
Range			

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Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66929	3515.8	2.7900	163.80	-.31553	16130.	3.153
Stddev	.45527	30.8	1.2416	1.63	.00733	164.	.140
%RSD	68.023	.87544	44.502	.99204	2.3231	1.0170	4.452
#1	1.1860	3483.1	2.8089	162.28	-.30714	15942.	3.117
#2	.49476	3544.3	4.0221	163.62	-.31872	16203.	3.308
#3	.32710	3519.9	1.5391	165.51	-.32072	16245.	3.035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3416	12.305	50.832	2221.5	1152.	1589.	64.352
Stddev	.2048	.158	.944	31.3	78.	28.	.299
%RSD	3.8348	1.2834	1.8573	1.4075	6.813	1.771	.46399
#1	5.3254	12.478	51.242	2192.0	1075.	1562.	64.070
#2	5.5541	12.269	49.752	2218.4	1147.	1618.	64.323
#3	5.1454	12.168	51.502	2254.3	1232.	1588.	64.665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1051	8024.2	12.968	1036.2	58.373	2.2208	820.7
Stddev	.1380	98.0	.338	8.0	2.072	.4173	10.5
%RSD	6.5571	1.2212	2.6096	.77346	3.5498	18.789	1.284
#1	-1.9882	7915.0	13.326	1044.9	56.659	1.8827	808.6
#2	-2.2574	8053.4	12.923	1034.6	60.676	2.6871	828.1
#3	-2.0697	8104.3	12.654	1029.2	57.783	2.0926	825.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.6889	4.4091	1491.2
Stddev	.3545	.1352	7.9
%RSD	9.6110	3.0657	.53077
#1	-3.6499	4.3609	1499.0
#2	-4.0613	4.5618	1491.5
#3	-3.3555	4.3047	1483.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37282.	10015.	524940.
Stddev	99.	102.	4001.
%RSD	.26597	1.0139	.76211
#1	37183.	9986.9	527260.
#2	37280.	9931.1	527240.
#3	37382.	10128.	520320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.054%	84.861%	94.151%
Range			

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Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24877	1547.7	.96933	55.867	-.15058	8955.1	.2736
Stddev	.35836	38.4	1.4261	.543	.00815	59.1	.1111
%RSD	144.05	2.4821	147.12	.97237	5.4139	.65951	40.59
#1	-.11923	1592.0	2.1424	55.710	-.14153	8902.2	.3519
#2	.59665	1523.3	1.3835	55.420	-.15733	8944.2	.1465
#3	.26891	1527.9	-.61798	56.472	-.15289	9018.8	.3224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1887	4.6396	25.618	1296.9	2669.	1009.	47.437
Stddev	.0401	.3092	.802	11.4	46.	33.	.561
%RSD	3.3726	6.6634	3.1291	.87527	1.730	3.224	1.1836
#1	1.1556	4.9476	26.378	1292.9	2628.	987.4	48.055
#2	1.2333	4.3293	25.694	1309.8	2719.	1047.	47.297
#3	1.1773	4.6420	24.781	1288.2	2658.	993.8	46.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7222	11002.	3.8453	64.532	-.69659	3.0078	468.2
Stddev	.1557	86.	.2564	.604	1.5250	.8574	6.3
%RSD	9.0388	.78249	6.6685	.93668	218.92	28.505	1.350
#1	-1.9018	10919.	3.7613	63.836	-2.2170	2.0569	475.4
#2	-1.6280	10997.	4.1332	64.835	-.70566	3.7218	463.6
#3	-1.6367	11091.	3.6415	64.924	.83290	3.2449	465.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.3096	3.6208	413.88
Stddev	.4726	.1274	.68
%RSD	14.280	3.5196	.16392
#1	-2.7766	3.5174	414.09
#2	-3.4744	3.5817	413.12
#3	-3.6777	3.7632	414.43
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37581.	10155.	536170.
Stddev	15.	136.	8308.
%RSD	.03868	1.3364	1.5495
#1	37578.	10186.	526590.
#2	37568.	10272.	541260.
#3	37597.	10006.	540670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.825%	86.040%	96.166%
Range			

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Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09195	1093.5	.23511	70.516	-.66375	6972.8	.2441
Stddev	.41256	73.6	.49097	.588	.01546	75.4	.1190
%RSD	448.66	6.7332	208.83	.83426	2.3294	1.0815	48.75
#1	.37147	1034.8	.76234	69.934	-.68105	6911.1	.3794
#2	-.22811	1176.1	.15196	70.504	-.65889	6950.4	.1554
#3	-.41922	1069.6	-.20899	71.111	-.65130	7056.9	.1976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.65122	3.5430	19.316	1000.0	2468.	899.2	37.940
Stddev	.24689	.2544	1.216	23.3	67.	20.0	.486
%RSD	37.911	7.1812	6.2960	2.3278	2.700	2.221	1.2804
#1	.67779	3.2648	19.532	1014.8	2411.	885.7	38.336
#2	.88375	3.6005	20.410	973.19	2452.	889.6	38.087
#3	.39212	3.7638	18.007	1012.0	2542.	922.1	37.398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2351	14745.	3.5466	67.684	.36052	1.6180	1337.
Stddev	.1989	104.	.2718	.732	1.8495	1.1092	28.
%RSD	8.8974	.70812	7.6625	1.0809	513.02	68.554	2.125
#1	-2.2390	14640.	3.8597	66.845	-.15797	2.8004	1365.
#2	-2.4320	14745.	3.4084	68.020	2.4140	.60047	1339.
#3	-2.0343	14849.	3.3718	68.188	-1.1744	1.4530	1308.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.1567	3.7407	492.03
Stddev	1.8824	.2277	1.38
%RSD	36.504	6.0872	.27979
#1	-6.6814	3.6973	493.56
#2	-3.0528	3.9870	491.63
#3	-5.7361	3.5378	490.89
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37302.	10104.	533580.
Stddev	138.	66.	5236.
%RSD	.36870	.65305	.98134
#1	37273.	10147.	529630.
#2	37181.	10136.	531600.
#3	37451.	10028.	539520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.105%	85.611%	95.701%
Range			

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Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12973	1012.9	1.0320	562.29	-.57122	10306.	5.386
Stddev	.25594	60.7	.6471	6.16	.00465	58.	.129
%RSD	197.29	5.9935	62.709	1.0956	.81430	.55970	2.397
#1	.28089	1025.7	1.5066	555.47	-.57150	10242.	5.391
#2	.27407	1066.1	.29482	563.96	-.57573	10321.	5.513
#3	-.16577	946.77	1.2945	567.45	-.56644	10355.	5.255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3145	3.7908	29.999	1096.6	2096.	1300.	51.234
Stddev	.1152	.3567	.615	19.3	75.	29.	.756
%RSD	3.4763	9.4093	2.0497	1.7588	3.577	2.211	1.4758
#1	3.1914	4.1775	30.693	1078.1	2098.	1331.	52.014
#2	3.4197	3.7200	29.520	1116.6	2020.	1274.	51.184
#3	3.3325	3.4748	29.786	1095.1	2170.	1295.	50.504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0592	29811.	4.7947	124.11	.12201	1.6038	1159.
Stddev	.0731	154.	.1136	1.12	1.5639	.8295	26.
%RSD	3.5515	.51648	2.3690	.90273	1281.8	51.717	2.254
#1	-2.1423	29662.	4.6635	124.64	-1.6479	.64731	1179.
#2	-2.0306	29803.	4.8611	124.86	.69675	2.0398	1168.
#3	-2.0047	29969.	4.8594	122.82	1.3172	2.1244	1129.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.5122	4.4857	935.15
Stddev	.4666	.2078	2.29
%RSD	8.4654	4.6322	.24512
#1	-5.8361	4.5774	937.35
#2	-5.7231	4.2478	932.77
#3	-4.9773	4.6318	935.34
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36670.	10174.	534930.
Stddev	142.	100.	10513.
%RSD	.38849	.98075	1.9653
#1	36530.	10174.	523120.
#2	36815.	10075.	538430.
#3	36666.	10274.	543250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.478%	86.208%	95.943%
Range			

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Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.07649	F -6.7788	F -.60344	F .32246	F .06679	F -6.1867	F -.0679
Stddev	.07358	65.863	1.2702	.61127	.00579	10.003	.1856
%RSD	96.192	971.60	210.49	189.56	8.6699	161.68	273.5
#1	-.15849	-43.112	-.18410	-.36513	.06411	-13.658	.0314
#2	-.01624	69.248	-2.0303	.80434	.06283	-10.080	.0470
#3	-.05473	-46.472	.40402	.52818	.07344	5.1773	-.2820
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	750.00	50000.	2500.0	10000.	1000.0	50000.	1000.
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.00986	F -.19954	F -.50234	F 3.8565	F -10.96	F -24.03	F -.06373
Stddev	.12204	.19995	.29866	4.1931	35.18	24.41	.03327
%RSD	1238.2	100.21	59.455	108.73	321.0	101.6	52.198
#1	.00935	-.38386	-.20255	-.81982	-45.90	-38.03	-.04169
#2	.10144	-.22777	-.79987	5.1079	24.46	4.160	-.10200
#3	-.14036	.01303	-.50459	7.2813	-11.44	-38.22	-.04750
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	5000.0	10000.	12500.	25000.	37500.	50000.	5000.0
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%	-10.00%	-10.000%

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Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -2.9556	F -20.403	F .07938	F -.08919	F -1.0972	F .53958	F .5637
Stddev	.1993	26.313	.25073	.93889	1.3575	.78421	.2332
%RSD	6.7419	128.97	315.87	1052.7	123.72	145.34	41.37
#1	-2.8057	-11.601	-.02513	-.81705	-2.5613	.98593	.7474
#2	-2.8795	.3818	-.10219	-.42109	-.85020	.99873	.6422
#3	-3.1818	-49.989	.36545	.97057	.11976	-.36591	.3013
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1000.0	25000.	5000.0	10000.	2500.0	1250.0	1000.
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F -1.2309	F .16123	F -.19605
Stddev	1.1843	.22787	.06303
%RSD	96.216	141.33	32.149
#1	-.98475	.38563	-.12355
#2	-.18899	.16802	-.23779
#3	-2.5190	-.06996	-.22682
Check ?	Chk Fail	Chk Fail	Chk Fail
Value	1000.0	2500.0	5000.0
Range	-10.000%	-10.000%	-10.000%

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39477.	10623.	570400.
Stddev	70.	59.	3740.
%RSD	.17664	.55188	.65570
#1	39422.	10669.	569850.
#2	39454.	10557.	566960.
#3	39555.	10643.	574380.

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Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 778.57	F 49512.	F 2578.2	F 10206.	F 1043.9	F 50111.	F 1037.
Stddev	15.27	460.	6.3	58.	34.8	323.	1.
%RSD	1.9612	.92861	.24479	.57003	3.3313	.64392	.0768
#1	761.43	49581.	2571.1	10222.	1009.9	50264.	1037.
#2	790.72	49022.	2583.3	10142.	1079.4	49740.	1037.
#3	783.57	49933.	2580.2	10255.	1042.4	50328.	1038.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	10.000	200.00	10.000	200.00	5.0000	5000.0	5.000
Low Limit	-10.000	-200.00	-10.000	-200.00	-5.0000	-5000.0	-5.000

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 5020.9	F 10236.	F 12302.	F 24844.	F 39580.	F 50940.	F 4966.5
Stddev	4.9	204.	371.	175.	221.	318.	56.2
%RSD	.09792	1.9917	3.0151	.70438	.5575	.6245	1.1308
#1	5016.8	10007.	11883.	24887.	39590.	51150.	4913.3
#2	5019.6	10396.	12587.	24651.	39350.	50570.	4961.1
#3	5026.4	10306.	12436.	24993.	39790.	51090.	5025.2
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	50.000	10.000	25.000	100.00	5000.	5000.	15.000
Low Limit	-50.000	-10.000	-25.000	-100.00	-5000.	-5000.	-15.000

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Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1008.4	F 27580.	F 4922.4	F 9767.5	F 2569.7	F 1285.0	F 1010.
Stddev	.8	174.	7.7	17.8	1.1	4.2	20.
%RSD	.08021	.62917	.15706	.18245	.04261	.32989	1.988
#1	1007.9	27667.	4914.7	9747.8	2570.6	1282.6	987.1
#2	1008.0	27380.	4922.3	9772.1	2570.0	1282.5	1025.
#3	1009.3	27693.	4930.1	9782.6	2568.5	1289.9	1017.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	50.000	3000.0	40.000	10.000	60.000	35.000	50.00
Low Limit	-50.000	-3000.0	-40.000	-10.000	-60.000	-35.000	-50.00

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F 979.96	F 2556.7	F 5078.3
Stddev	5.47	51.7	12.1
%RSD	.55826	2.0217	.23815
#1	973.67	2498.1	5066.4
#2	982.60	2596.0	5077.7
#3	983.61	2575.9	5090.6
Check ?	Chk Fail	Chk Fail	Chk Fail
High Limit	25.000	50.000	60.000
Low Limit	-25.000	-50.000	-60.000

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Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36042.	10392.	529570.
Stddev	244.	101.	9148.
%RSD	.67637	.97399	1.7274
#1	36314.	10299.	538830.
#2	35968.	10378.	520540.
#3	35843.	10500.	529350.

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Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09111	13.305	-.73230	12.007	.04167	138.03	-.1172
Stddev	.21006	100.60	1.1759	.866	.00425	6.47	.0772
%RSD	230.55	756.13	160.57	7.2137	10.192	4.6886	65.88
#1	.32987	-75.597	-.71610	11.061	.04271	137.80	-.2063
#2	-.06534	-6.9957	-1.9162	12.761	.04531	144.61	-.0741
#3	.00881	122.51	.43539	12.198	.03701	131.67	-.0711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10932	.73600	2.2090	20.658	231.5	20.11	7.8146
Stddev	.10194	.19591	.3209	14.640	76.2	42.63	.1037
%RSD	93.248	26.618	14.528	70.867	32.91	212.0	1.3266
#1	.16721	.73379	2.2304	37.282	143.6	3.107	7.9340
#2	-.00838	.54121	2.5186	15.004	278.6	-11.40	7.7627
#3	.16913	.93301	1.8779	9.6888	272.4	68.62	7.7471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2722	1943.8	.79182	-.61176	-1.3133	2.7053	96.17
Stddev	.2067	22.4	.26331	.18323	1.3354	.5550	1.45
%RSD	16.247	1.1506	33.254	29.951	101.68	20.517	1.509
#1	-1.0566	1925.9	1.0297	-.81330	-.00703	2.3178	97.68
#2	-1.4687	1968.9	.83689	-.56676	-1.2568	2.4569	96.03
#3	-1.2912	1936.6	.50888	-.45523	-2.6761	3.3411	94.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.3565	.44249	294.95
Stddev	1.4537	.18499	.42
%RSD	107.17	41.806	.14153
#1	-.00303	.25275	295.43
#2	-2.8932	.62233	294.72
#3	-1.1734	.45238	294.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38353.	10275.	552550.
Stddev	19.	81.	10982.
%RSD	.04924	.78672	1.9875
#1	38333.	10323.	540020.
#2	38370.	10319.	560470.
#3	38355.	10181.	557170.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.812%	87.056%	99.104%
Range			

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Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.625	435.86	18.594	401.09	9.8376	9890.8	9.592
Stddev	.095	88.95	1.477	4.19	.1736	124.8	.159
%RSD	.45871	20.408	7.9407	1.0439	1.7641	1.2617	1.653
#1	20.568	481.88	19.988	396.30	9.6745	9748.2	9.744
#2	20.734	333.33	18.746	404.06	9.8183	9944.1	9.427
#3	20.574	492.36	17.047	402.91	10.020	9980.1	9.606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.993	20.260	49.973	204.61	10280.	9815.	39.608
Stddev	.399	.411	1.102	12.81	147.	121.	.596
%RSD	.41978	2.0302	2.2045	6.2590	1.425	1.235	1.5053
#1	95.426	19.800	49.554	207.32	10110.	9675.	39.102
#2	94.913	20.387	49.142	190.66	10380.	9883.	39.456
#3	94.640	20.593	51.222	215.84	10350.	9886.	40.265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2723	12702.	74.998	18.396	103.97	68.535	70.27
Stddev	.0421	125.	.626	.789	1.27	.653	1.35
%RSD	1.8511	.98170	.83477	4.2882	1.2182	.95209	1.927
#1	-2.2719	12558.	75.507	18.370	105.21	67.803	71.38
#2	-2.2304	12769.	74.299	19.198	102.68	69.055	68.76
#3	-2.3146	12779.	75.189	17.621	104.00	68.747	70.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	41.942	96.906	443.03
Stddev	1.461	1.777	1.23
%RSD	3.4842	1.8334	.27695
#1	42.280	95.260	444.20
#2	43.204	96.668	443.14
#3	40.341	98.790	441.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37479.	10159.	535160.
Stddev	117.	91.	7656.
%RSD	.31256	.89100	1.4306
#1	37584.	10135.	541110.
#2	37353.	10083.	537840.
#3	37501.	10259.	526520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.562%	86.079%	95.984%
Range			

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Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09445	322.51	.83691	52.151	.03562	3263.3	.0531
Stddev	.19091	39.94	.30760	.293	.01587	9.1	.1348
%RSD	202.12	12.385	36.754	.56150	44.546	.27838	253.7
#1	.05230	361.47	1.1577	52.389	.03296	3262.3	-.0082
#2	-.31028	281.66	.54443	51.824	.05264	3254.7	-.0401
#3	-.02537	324.40	.80862	52.240	.02125	3272.8	.2076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56400	7.5766	36.215	339.46	2413.	296.4	32.390
Stddev	.06809	.6293	.952	6.72	51.	19.6	.177
%RSD	12.073	8.3063	2.6289	1.9794	2.094	6.596	.54754
#1	.50441	7.1412	35.840	346.98	2453.	308.3	32.546
#2	.54938	8.2982	37.297	334.03	2430.	273.8	32.427
#3	.63822	7.2904	35.507	337.37	2356.	307.0	32.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9654	11255.	4.1360	14.684	1.2002	1.6999	89.75
Stddev	.0941	44.	.2152	.873	2.4675	1.0128	.23
%RSD	4.7874	.39346	5.2030	5.9418	205.60	59.579	.2571
#1	-1.9873	11262.	4.0131	13.680	-.99318	2.1064	89.50
#2	-2.0466	11207.	4.0104	15.118	3.8719	2.4464	89.81
#3	-1.8623	11295.	4.3844	15.255	.72187	.54704	89.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.8222	.74298	717.32
Stddev	.4511	.30312	18.58
%RSD	24.755	40.797	2.5905
#1	-2.0156	.46633	728.51
#2	-2.1443	1.0670	727.58
#3	-1.3066	.69562	695.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38018.	10203.	539080.
Stddev	753.	40.	5561.
%RSD	1.9804	.39005	1.0316
#1	37717.	10246.	536180.
#2	37462.	10166.	535560.
#3	38875.	10198.	545490.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.950%	86.454%	96.686%
Range			

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Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03618	171.97	1.4755	19.575	.01598	1808.0	-.2045
Stddev	.13969	43.37	.7966	.368	.00601	18.7	.2583
%RSD	386.06	25.219	53.991	1.8799	37.591	1.0342	126.3
#1	-.18602	166.71	2.3813	19.822	.01724	1789.5	.0921
#2	.09045	217.73	.88371	19.152	.02125	1807.6	-.3262
#3	-.01298	131.47	1.1615	19.752	.00944	1826.9	-.3796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35654	1.8045	6.5033	160.47	1590.	239.2	20.513
Stddev	.14731	.0636	.3046	16.39	35.	22.9	.104
%RSD	41.315	3.5243	4.6833	10.215	2.177	9.552	.50524
#1	.18655	1.7774	6.7651	172.46	1601.	216.3	20.453
#2	.44680	1.8772	6.5758	167.16	1618.	262.0	20.633
#3	.43626	1.7590	6.1690	141.79	1551.	239.3	20.454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3447	9626.9	1.2689	5.5351	.36435	1.8142	89.93
Stddev	.0179	128.4	.2326	.5776	1.6580	.5102	.50
%RSD	.76330	1.3337	18.330	10.434	455.05	28.124	.5594
#1	-2.3457	9479.9	1.0850	5.2672	2.2403	2.0568	89.56
#2	-2.3621	9684.1	1.1914	5.1401	-.90430	1.2280	90.50
#3	-2.3263	9716.9	1.5303	6.1979	-.24300	2.1580	89.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.6457	.71586	426.00
Stddev	.3909	.14888	.90
%RSD	10.722	20.797	.21195
#1	-3.5028	.58701	426.92
#2	-3.3464	.87883	425.97
#3	-4.0880	.68173	425.11
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36938.	10039.	528360.
Stddev	93.	34.	1290.
%RSD	.25276	.34210	.24407
#1	36850.	10068.	529710.
#2	36928.	10001.	527140.
#3	37036.	10047.	528230.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.168%	85.059%	94.764%
Range			

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Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25758	146.76	.44212	12.924	.03550	1524.7	-.0262
Stddev	.48814	74.51	1.0073	.683	.00815	27.8	.0874
%RSD	189.51	50.768	227.82	5.2881	22.968	1.8249	333.6
#1	.29559	129.68	-.72003	13.203	.04426	1493.6	-.0870
#2	-.62787	82.274	1.0633	13.424	.02812	1533.4	-.0657
#3	-.44046	228.32	.98304	12.145	.03412	1547.2	.0740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13103	1.0421	24.551	94.874	1278.	127.2	9.0419
Stddev	.14177	.1136	1.347	19.641	7.	24.6	.1454
%RSD	108.20	10.898	5.4878	20.702	.5246	19.35	1.6077
#1	-.02025	1.0504	26.086	74.206	1271.	102.1	9.2055
#2	.26084	.92458	24.004	113.29	1277.	151.3	8.9275
#3	.15250	1.1513	23.564	97.121	1284.	128.1	8.9928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5419	8571.5	1.3105	.79719	-.22687	.82023	65.22
Stddev	.2742	113.1	.2525	.49377	1.4090	2.1025	.90
%RSD	10.788	1.3191	19.265	61.939	621.05	256.33	1.376
#1	-2.8190	8452.8	1.5476	.23131	-.65780	1.8865	66.20
#2	-2.5361	8583.8	1.3390	1.0198	1.3472	-1.6018	64.44
#3	-2.2707	8678.0	1.0450	1.1405	-1.3700	2.1760	65.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0986	.31416	464.32
Stddev	.5262	.05943	1.65
%RSD	16.983	18.918	.35500
#1	-2.7178	.37765	465.84
#2	-2.8789	.30497	464.54
#3	-3.6991	.25986	462.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37715.	10275.	548210.
Stddev	220.	137.	4145.
%RSD	.58206	1.3301	.75614
#1	37536.	10308.	543420.
#2	37960.	10124.	550790.
#3	37649.	10391.	550400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.170%	87.057%	98.324%
Range			

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Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00655	4792.2	2.8775	114.01	.14391	33149.	2.594
Stddev	.19985	233.5	.5990	5.19	.01384	1289.	.090
%RSD	3052.6	4.8717	20.815	4.5488	9.6200	3.8876	3.485
#1	-.21832	4700.4	2.5038	114.37	.14289	33108.	2.517
#2	.01995	4618.6	3.5684	108.65	.15824	31881.	2.573
#3	.17873	5057.6	2.5604	119.01	.13060	34458.	2.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.896	16.027	55.909	6313.7	1877.	3835.	191.56
Stddev	.235	.217	2.003	247.0	42.	159.	4.56
%RSD	1.4800	1.3524	3.5829	3.9125	2.213	4.138	2.3782
#1	16.159	15.866	55.486	6330.7	1920.	3869.	190.25
#2	15.822	16.273	58.089	6058.7	1837.	3662.	196.63
#3	15.707	15.942	54.151	6551.8	1876.	3974.	187.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.91060	9251.9	9.9763	95.277	.66546	1.3351	264.4
Stddev	.23626	366.9	.3869	.725	1.1689	1.9408	6.3
%RSD	25.945	3.9652	3.8781	.76065	175.65	145.36	2.401
#1	-1.1825	9216.5	10.423	95.486	1.9137	2.5008	263.3
#2	-.75535	8904.0	9.7486	95.873	-.40331	2.4099	271.2
#3	-.79395	9635.1	9.7573	94.470	.48598	-.90531	258.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.5237	13.684	2306.7
Stddev	.7975	.074	26.5
%RSD	22.633	.53987	1.1484
#1	-4.4437	13.764	2334.5
#2	-3.0278	13.668	2303.8
#3	-3.0996	13.619	2281.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37172.	10273.	520300.
Stddev	237.	227.	8876.
%RSD	.63859	2.2075	1.7059
#1	36900.	10255.	523860.
#2	37278.	10508.	510200.
#3	37338.	10056.	526840.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.771%	87.043%	93.319%
Range			

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Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03862	445.95	-.53784	25.580	.05611	2918.2	.2438
Stddev	.31163	45.65	1.4070	.456	.01185	25.2	.0340
%RSD	806.83	10.237	261.61	1.7813	21.124	.86420	13.96
#1	-.17091	482.48	-1.3754	25.942	.06887	2909.6	.2695
#2	.39673	460.61	1.0866	25.068	.05400	2898.4	.2566
#3	-.10995	394.78	-1.3246	25.729	.04545	2946.6	.2052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.81162	1.5916	4.8735	354.77	805.9	306.6	30.819
Stddev	.07198	.2147	.8693	1.63	48.9	49.9	.609
%RSD	8.8691	13.486	17.837	.45852	6.066	16.27	1.9771
#1	.88440	1.5412	5.7618	353.73	839.6	274.3	30.778
#2	.80999	1.4067	4.0246	356.64	749.8	364.1	30.231
#3	.74047	1.8270	4.8342	353.93	828.2	281.4	31.447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4273	7519.1	1.0744	12.753	-1.2870	-.09771	64.65
Stddev	.2348	67.0	.1917	1.328	1.7693	2.4287	.74
%RSD	9.6717	.89173	17.843	10.413	137.47	2485.7	1.147
#1	-2.2257	7455.9	1.0073	11.325	-3.1506	.19737	65.19
#2	-2.6850	7512.0	.92530	12.982	.36988	-2.6605	63.80
#3	-2.3710	7589.4	1.2907	13.952	-1.0803	2.1700	64.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.1077	.93590	351.41
Stddev	.1379	.04330	.49
%RSD	4.4387	4.6270	.13841
#1	-3.2052	.94347	351.96
#2	-3.1679	.88932	351.04
#3	-2.9499	.97493	351.24
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37286.	10146.	533320.
Stddev	67.	37.	7884.
%RSD	.17841	.36604	1.4782
#1	37352.	10115.	535960.
#2	37287.	10187.	539560.
#3	37219.	10135.	524460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.064%	85.966%	95.655%
Range			

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Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17186	760.34	.46715	44.954	-.00314	3627.6	.1886
Stddev	.44486	40.45	.78481	.981	.00335	15.5	.0825
%RSD	258.85	5.3196	168.00	2.1813	106.72	.42683	43.74
#1	-.10387	747.98	1.2157	43.963	-.00489	3616.4	.2420
#2	-.06561	805.52	-.34946	44.976	.00072	3621.2	.0936
#3	.68506	727.51	.53518	45.923	-.00526	3645.3	.2303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3822	2.5296	6.4523	640.10	1224.	479.5	47.643
Stddev	.2490	.3437	.2419	14.37	42.	12.4	.219
%RSD	18.016	13.586	3.7487	2.2451	3.425	2.581	.45986
#1	1.6697	2.8809	6.7312	654.43	1176.	467.1	47.881
#2	1.2438	2.1942	6.3250	625.69	1239.	479.6	47.450
#3	1.2333	2.5137	6.3006	640.17	1255.	491.9	47.597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3193	8551.9	2.0728	21.034	-.53116	-.15179	148.5
Stddev	.3455	26.7	.2796	1.117	3.3756	4.2090	2.9
%RSD	14.895	.31179	13.490	5.3122	635.51	2772.9	1.952
#1	-2.7169	8541.6	2.2625	22.183	-3.1930	-3.0048	150.4
#2	-2.1476	8532.0	2.2042	19.951	3.2656	4.6822	150.1
#3	-2.0932	8582.2	1.7517	20.969	-1.6660	-2.1327	145.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.7857	1.6831	359.84
Stddev	1.2070	.1178	1.16
%RSD	31.884	7.0001	.32136
#1	-3.1433	1.7591	361.15
#2	-3.0356	1.7428	359.40
#3	-5.1780	1.5474	358.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37082.	10020.	545880.
Stddev	133.	57.	4045.
%RSD	.35965	.57280	.74099
#1	36972.	9958.2	542190.
#2	37230.	10031.	550210.
#3	37044.	10072.	545250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.539%	84.900%	97.907%
Range			

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Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31441	550.34	-.54100	48.796	.06138	3395.1	.2954
Stddev	.12183	43.58	1.0175	.514	.00463	25.3	.2737
%RSD	38.749	7.9183	188.08	1.0524	7.5385	.74405	92.65
#1	.45495	576.78	-1.2387	48.236	.05798	3381.9	.5420
#2	.24934	574.19	.62655	48.908	.06665	3379.2	.3432
#3	.23893	500.04	-1.0108	49.244	.05951	3424.2	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58904	3.5257	7.3459	577.00	793.6	396.4	41.729
Stddev	.08679	.2425	.4405	2.28	47.9	19.9	.407
%RSD	14.735	6.8782	5.9970	.39525	6.035	5.031	.97610
#1	.49648	3.4137	7.5620	575.46	758.7	414.6	42.080
#2	.66860	3.3594	7.6366	579.62	773.9	375.1	41.825
#3	.60202	3.8040	6.8390	575.93	848.2	399.4	41.282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5832	6978.7	2.1958	19.156	1.1522	.00309	69.63
Stddev	.1003	110.1	.1541	1.016	1.2300	1.7006	2.28
%RSD	3.8842	1.5775	7.0191	5.3059	106.75	55020.	3.280
#1	-2.5330	6859.2	2.0218	19.199	2.1503	-1.6517	72.21
#2	-2.5178	7001.0	2.3150	18.118	1.5282	-.08519	68.84
#3	-2.6987	7076.0	2.2507	20.150	-.22186	1.7461	67.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.9829	1.4235	385.43
Stddev	.5876	.2868	1.81
%RSD	29.634	20.150	.47056
#1	-2.5717	1.7251	387.20
#2	-1.9805	1.1542	385.52
#3	-1.3965	1.3911	383.58
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37424.	10165.	543680.
Stddev	195.	83.	6323.
%RSD	.52074	.81622	1.1630
#1	37468.	10123.	538290.
#2	37211.	10260.	542120.
#3	37593.	10111.	550640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.420%	86.126%	97.513%
Range			

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Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1241	10578.	103.61	2835.5	.34755	88196.	135.9
Stddev	.3537	202.	1.65	20.3	.02240	633.	.2
%RSD	31.465	1.9078	1.5949	.71454	6.4450	.71790	.1114
#1	1.4096	10345.	102.84	2812.2	.33634	87481.	135.8
#2	1.2344	10700.	105.51	2845.3	.33297	88420.	135.8
#3	.72842	10689.	102.48	2849.0	.37334	88686.	136.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.961	183.46	142.32	26487.	4449.	8986.	465.04
Stddev	.180	4.83	3.67	197.	46.	124.	12.12
%RSD	.43848	2.6307	2.5752	.74239	1.031	1.384	2.6056
#1	40.777	181.70	142.41	26276.	4396.	8846.	461.81
#2	41.136	179.76	138.61	26519.	4474.	9081.	454.86
#3	40.970	188.92	145.94	26665.	4476.	9033.	478.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4400	11462.	22.586	10336.	29.816	5.0830	431.4
Stddev	.0853	76.	.280	6.	.354	2.1760	11.9
%RSD	5.9268	.66580	1.2375	.05478	1.1864	42.810	2.755
#1	1.5054	11374.	22.873	10337.	30.161	6.6449	428.9
#2	1.3435	11501.	22.572	10330.	29.454	6.0066	421.0
#3	1.4712	11511.	22.314	10341.	29.832	2.5975	444.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.6712	29.991	F 24591.
Stddev	1.5368	1.048	130.
%RSD	57.531	3.4941	.53018
#1	-2.4882	29.764	24690.
#2	-4.2913	29.075	24640.
#3	-1.2341	31.133	24443.
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			10000.
Low Limit			-10000.

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Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36029.	10052.	519710.
Stddev	107.	77.	11694.
%RSD	.29594	.76865	2.2501
#1	35915.	9972.2	526670.
#2	36126.	10057.	526260.
#3	36044.	10127.	506210.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.825%	85.169%	93.213%
Range			

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Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29312	259.16	-.09558	11.378	.00005	1735.6	-.0340
Stddev	.42794	94.81	1.1589	.988	.00600	13.6	.2504
%RSD	146.00	36.585	1212.5	8.6863	12584.	.78213	736.5
#1	-.77319	214.85	-.70858	12.428	-.00379	1722.7	.2455
#2	.04828	194.62	1.2411	10.466	.00696	1749.8	-.2380
#3	-.15444	368.02	-.81929	11.240	-.00302	1734.3	-.1096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17832	1.3020	5.4068	132.55	347.2	129.0	27.314
Stddev	.11367	.0863	.5549	4.70	42.6	19.2	.311
%RSD	63.745	6.6297	10.264	3.5456	12.26	14.86	1.1391
#1	.30945	1.2995	4.7661	131.92	370.3	145.2	27.363
#2	.10760	1.3895	5.7366	128.19	373.2	134.0	27.598
#3	.11792	1.2169	5.7176	137.53	298.1	107.8	26.981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3739	6353.4	.68871	2.5222	1.1580	2.6000	116.9
Stddev	.0886	57.8	.10108	1.0076	.6577	1.6111	2.4
%RSD	3.7326	.90905	14.677	39.950	56.798	61.965	2.031
#1	-2.2717	6305.2	.67666	2.6149	.62562	2.2299	118.6
#2	-2.4280	6337.6	.79527	1.4714	1.8933	4.3640	118.0
#3	-2.4222	6417.4	.59418	3.4803	.95518	1.2062	114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.1664	.71715	243.82
Stddev	1.5612	.47409	.79
%RSD	49.306	66.107	.32583
#1	-1.3850	.21788	244.59
#2	-4.2965	1.1612	243.88
#3	-3.8177	.77234	243.00
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37411.	10004.	538670.
Stddev	99.	64.	8218.
%RSD	.26459	.64291	1.5257
#1	37404.	10057.	534870.
#2	37316.	10023.	533030.
#3	37514.	9932.8	548100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.387%	84.768%	96.613%
Range			

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Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40489	201.21	-.47796	13.210	.02769	1598.4	-.0374
Stddev	.15948	54.60	.83777	1.021	.00965	21.7	.1084
%RSD	39.388	27.134	175.28	7.7301	34.850	1.3568	289.6
#1	-.58878	141.18	-.42038	13.654	.01655	1579.9	.0796
#2	-.32142	247.90	-1.3430	12.042	.03339	1592.9	-.0574
#3	-.30447	214.56	.32953	13.934	.03314	1622.2	-.1345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11517	1.6370	5.0920	131.55	583.7	122.3	28.760
Stddev	.21496	.4377	.7730	7.67	83.1	28.3	.365
%RSD	186.64	26.741	15.181	5.8284	14.24	23.10	1.2681
#1	.28703	2.0447	5.0008	131.08	501.3	96.31	28.868
#2	.18434	1.6920	5.9065	124.13	582.2	152.4	29.058
#3	-.12586	1.1744	4.3686	139.45	667.5	118.3	28.353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5564	7188.4	1.1769	2.0469	.10828	.88206	94.19
Stddev	.3171	81.3	.2647	.3939	1.2086	.51498	.89
%RSD	12.406	1.1306	22.490	19.246	1116.2	58.383	.9452
#1	-2.3135	7139.4	.88805	2.3872	-1.2849	.33195	94.32
#2	-2.9152	7143.7	1.4078	2.1380	.73328	.96159	95.00
#3	-2.4404	7282.2	1.2349	1.6154	.87642	1.3527	93.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.5684	.50395	344.61
Stddev	.7708	.59823	2.52
%RSD	21.600	118.71	.73195
#1	-2.8257	.93705	347.48
#2	-3.5150	-.17865	343.62
#3	-4.3645	.75345	342.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37880.	10080.	534300.
Stddev	139.	108.	5694.
%RSD	.36783	1.0714	1.0656
#1	37752.	10180.	533170.
#2	38028.	10095.	529260.
#3	37861.	9965.5	540480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.596%	85.409%	95.831%
Range			

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Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11136	94.063	-.19791	12.655	.03555	1748.4	-.0134
Stddev	.22899	81.136	.46654	.566	.00201	10.1	.1160
%RSD	205.62	86.257	235.73	4.4709	5.6574	.57667	863.7
#1	.35523	178.09	-.22096	12.091	.03435	1741.4	.0000
#2	-.09907	16.164	.27973	12.652	.03788	1743.8	-.1356
#3	.07794	87.935	-.65251	13.223	.03444	1759.9	.0953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25516	.95950	4.6484	111.72	620.0	141.4	24.086
Stddev	.09292	.15251	1.0275	5.35	44.5	5.4	.445
%RSD	36.418	15.895	22.105	4.7914	7.182	3.836	1.8463
#1	.35865	.85795	4.8913	109.35	579.4	139.3	24.586
#2	.22797	1.1349	5.5326	107.97	667.7	147.6	23.938
#3	.17887	.88568	3.5212	117.85	613.0	137.4	23.734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6770	5570.4	.64630	2.3906	-1.5548	1.4878	73.11
Stddev	.2252	54.0	.09591	.3353	1.4205	1.7754	2.01
%RSD	8.4112	.97027	14.840	14.026	91.360	119.33	2.744
#1	-2.4171	5509.3	.55832	2.5846	-3.0935	3.4751	73.40
#2	-2.8131	5590.3	.63205	2.0034	-.29357	.93039	74.95
#3	-2.8008	5611.8	.74854	2.5837	-1.2773	.05796	70.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.8070	.51039	310.73
Stddev	.6489	.41679	3.76
%RSD	35.912	81.661	1.2089
#1	-1.3076	.27912	315.03
#2	-2.5405	.26051	308.09
#3	-1.5730	.99155	309.07
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38117.	10266.	543020.
Stddev	527.	48.	10437.
%RSD	1.3834	.46790	1.9220
#1	37509.	10319.	536240.
#2	38391.	10256.	537780.
#3	38450.	10224.	555040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.205%	86.988%	97.393%
Range			

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Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29714	2190.1	.89142	84.663	.10438	20622.	.1488
Stddev	.41442	23.5	.32378	1.060	.01543	246.	.0938
%RSD	139.47	1.0717	36.322	1.2520	14.779	1.1920	63.00
#1	.38440	2167.0	.62401	83.670	.09671	20354.	.0494
#2	.66099	2189.3	.79883	85.779	.09429	20673.	.1615
#3	-.15396	2213.9	1.2514	84.539	.12214	20838.	.2357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3712	7.9727	60.143	3286.8	1018.	2024.	103.55
Stddev	.1986	.3284	1.767	49.4	45.	39.	1.06
%RSD	14.487	4.1187	2.9373	1.5024	4.452	1.905	1.0278
#1	1.2539	8.3483	62.181	3238.8	968.2	1998.	104.76
#2	1.6005	7.7403	59.045	3284.4	1029.	2005.	102.79
#3	1.2590	7.8293	59.204	3337.4	1057.	2068.	103.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3061	8244.3	10.542	18.116	13.179	3.3756	138.2
Stddev	.1742	126.7	.340	.555	1.304	1.8167	2.0
%RSD	13.337	1.5372	3.2248	3.0645	9.8913	53.820	1.483
#1	-1.1253	8117.6	10.574	18.437	13.254	1.8137	140.6
#2	-1.3202	8244.2	10.186	18.436	14.444	2.9437	137.2
#3	-1.4729	8371.1	10.864	17.475	11.840	5.3694	136.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0252	7.4894	1460.1
Stddev	1.0633	.3515	4.5
%RSD	35.150	4.6938	.30923
#1	-1.8002	7.7884	1464.7
#2	-3.7105	7.1021	1459.7
#3	-3.5648	7.5777	1455.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37022.	10076.	536210.
Stddev	152.	42.	3844.
%RSD	.40984	.41970	.71695
#1	36861.	10124.	532260.
#2	37162.	10060.	539930.
#3	37044.	10044.	536440.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.385%	85.373%	96.172%
Range			

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Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42558	606.25	.10399	60.118	.03340	3004.4	.0113
Stddev	.31720	75.73	.84599	5.576	.00680	261.8	.1318
%RSD	74.534	12.491	813.54	9.2755	20.351	8.7122	1163.
#1	-.26713	533.15	.10971	53.681	.03219	2702.6	.0414
#2	-.79079	684.36	-.74485	63.493	.04073	3140.9	.1255
#3	-.21882	601.23	.94710	63.178	.02730	3169.7	-.1329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53281	1.7976	8.9829	568.73	854.5	306.6	47.552
Stddev	.12244	.1022	.1997	51.44	88.5	34.3	.256
%RSD	22.979	5.6826	2.2234	9.0447	10.35	11.18	.53873
#1	.39347	1.8990	9.2114	509.39	773.6	272.6	47.292
#2	.62318	1.7992	8.8414	596.25	840.9	306.1	47.560
#3	.58178	1.6947	8.8959	600.56	949.0	341.2	47.804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.8604	7949.5	1.9816	9.0611	-.48178	2.5446	99.35
Stddev	.1190	706.0	.1318	1.2560	1.5545	2.2286	.42
%RSD	4.1619	8.8807	6.6500	13.861	322.66	87.578	.4195
#1	-2.9349	7137.8	1.9720	8.6448	1.2015	1.8351	99.01
#2	-2.7231	8289.9	2.1180	8.0661	-1.8634	.75729	99.82
#3	-2.9231	8420.8	1.8549	10.472	-.78347	5.0416	99.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.3021	1.6795	340.12
Stddev	.5671	.3139	2.15
%RSD	17.174	18.688	.63309
#1	-3.7912	1.4148	342.47
#2	-3.4345	1.5974	339.65
#3	-2.6805	2.0262	338.24
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37574.	10529.	544030.
Stddev	96.	742.	2704.
%RSD	.25487	7.0504	.49696
#1	37679.	11376.	546750.
#2	37491.	9990.7	544000.
#3	37552.	10221.	541340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.807%	89.214%	97.575%
Range			

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Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48104	391.05	-.18833	35.628	.02688	1738.6	.0177
Stddev	.88342	97.59	.56089	.935	.01053	21.2	.0851
%RSD	183.65	24.956	297.82	2.6230	39.181	1.2169	481.3
#1	-.46544	278.48	-.11660	34.566	.01588	1715.0	.1150
#2	-1.3722	442.98	-.78163	36.324	.03686	1755.7	-.0431
#3	.39448	451.70	.33323	35.993	.02789	1745.2	-.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19403	1.7590	8.6734	354.76	929.6	210.5	44.145
Stddev	.07278	.1476	.3641	12.13	96.3	21.2	.278
%RSD	37.511	8.3930	4.1983	3.4180	10.36	10.08	.63059
#1	.25274	1.7197	8.2828	348.62	920.2	224.0	44.250
#2	.11260	1.6351	8.7337	368.73	838.3	221.4	44.355
#3	.21676	1.9224	9.0036	346.93	1030.	186.0	43.829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4713	7401.5	1.9111	4.7304	-.14690	.94691	78.64
Stddev	.2395	92.9	.1699	.2376	2.0068	1.9021	.85
%RSD	9.6892	1.2558	8.8895	5.0223	1366.1	200.87	1.081
#1	-2.5956	7296.5	1.9873	4.9996	.86139	1.9061	79.22
#2	-2.1953	7435.1	1.7165	4.5503	1.1558	-1.2438	79.03
#3	-2.6231	7473.1	2.0296	4.6411	-2.4579	2.1784	77.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4605	1.1788	295.60
Stddev	.4345	.1575	1.36
%RSD	9.7412	13.363	.46162
#1	-4.9473	1.0446	296.89
#2	-4.1121	1.1396	295.74
#3	-4.3220	1.3522	294.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37320.	10095.	537380.
Stddev	66.	187.	2937.
%RSD	.17691	1.8497	.54662
#1	37392.	10276.	537550.
#2	37306.	10105.	534360.
#3	37262.	9902.6	540220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.152%	85.531%	96.381%
Range			

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Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23150	342.74	-.22446	24.635	.01169	1706.8	-.0385
Stddev	.28811	41.62	.65430	.338	.01589	19.9	.0794
%RSD	124.45	12.143	291.50	1.3719	135.95	1.1684	206.0
#1	.09747	334.16	.48530	24.332	.00587	1688.1	-.1246
#2	-.35311	306.07	-.80359	24.575	.02966	1704.4	-.0229
#3	-.43887	387.97	-.35508	24.999	-.00048	1727.8	.0319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43113	1.6543	5.5982	408.87	805.4	243.0	31.056
Stddev	.15578	.3879	.2608	8.28	32.3	21.7	.376
%RSD	36.132	23.446	4.6590	2.0260	4.008	8.943	1.2092
#1	.37340	1.2101	5.4254	415.34	770.7	231.0	30.703
#2	.31246	1.9257	5.4708	411.74	810.9	268.0	31.015
#3	.60753	1.8271	5.8982	399.53	834.6	229.8	31.451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6167	6376.8	1.9540	5.9271	-.07425	-1.1720	128.2
Stddev	.2719	68.6	.4161	1.0355	.57666	1.0597	3.5
%RSD	10.390	1.0757	21.297	17.471	776.62	90.418	2.728
#1	-2.4983	6301.4	1.7266	5.8601	-.60000	-1.9006	129.1
#2	-2.9278	6393.6	1.7010	4.9267	.54250	.04365	124.3
#3	-2.4242	6435.4	2.4343	6.9945	-.16527	-1.6589	131.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.2972	1.2837	361.00
Stddev	.9312	.1169	1.29
%RSD	28.242	9.1050	.35786
#1	-2.5367	1.2827	360.36
#2	-4.3357	1.1674	360.15
#3	-3.0192	1.4011	362.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38150.	10402.	554400.
Stddev	198.	97.	4078.
%RSD	.51952	.92799	.73560
#1	37962.	10486.	558480.
#2	38357.	10424.	554420.
#3	38132.	10296.	550320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.291%	88.136%	99.436%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32143	1739.9	.90020	132.57	.08641	9378.6	1.391
Stddev	.46382	19.2	1.1244	2.12	.00533	126.1	.093
%RSD	144.30	1.1053	124.91	1.6029	6.1693	1.3448	6.711
#1	.65092	1720.6	.17206	130.12	.08252	9243.0	1.495
#2	-.20897	1740.0	2.1953	133.86	.08422	9400.5	1.315
#3	.52233	1759.0	.33329	133.73	.09248	9492.4	1.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4061	6.5297	48.867	2259.9	1861.	941.4	90.410
Stddev	.1486	.3480	1.221	32.1	26.	5.8	1.132
%RSD	2.3198	5.3298	2.4982	1.4219	1.421	.6189	1.2522
#1	6.5773	6.8355	49.865	2236.5	1847.	934.7	91.487
#2	6.3309	6.1510	47.506	2246.8	1845.	944.1	89.230
#3	6.3102	6.6024	49.231	2296.6	1892.	945.3	90.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1754	8595.0	11.024	111.99	.42184	.25806	114.4
Stddev	.2230	118.9	.203	1.28	.35360	.21668	1.4
%RSD	10.249	1.3833	1.8391	1.1465	83.822	83.965	1.198
#1	-2.1867	8463.0	10.821	110.55	.82677	.50174	115.2
#2	-2.3924	8628.4	11.227	113.03	.17403	.18537	112.8
#3	-1.9470	8693.7	11.024	112.38	.26473	.08707	115.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9425	4.5853	604.85
Stddev	.8458	.4457	1.19
%RSD	21.454	9.7199	.19618
#1	-3.2344	5.0614	606.04
#2	-3.7140	4.1780	603.67
#3	-4.8791	4.5164	604.86
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37528.	10186.	539130.
Stddev	90.	113.	9457.
%RSD	.23909	1.1094	1.7541
#1	37429.	10293.	529800.
#2	37550.	10196.	548710.
#3	37604.	10068.	538890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.687%	86.304%	96.696%
Range			

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Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07962	80.151	-.06410	13.880	.01658	1869.5	.0553
Stddev	.17029	42.636	.83375	.414	.00587	9.7	.2393
%RSD	213.89	53.194	1300.6	2.9823	35.392	.52138	432.9
#1	.27349	127.59	-.83036	13.919	.01077	1859.8	.1744
#2	-.04577	45.018	.82379	14.273	.01647	1869.3	-.2202
#3	.01113	67.850	-.18574	13.448	.02251	1879.3	.2116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21466	1.2172	4.4588	122.07	343.1	145.3	27.201
Stddev	.13215	.2823	1.0876	11.96	34.4	25.1	.304
%RSD	61.561	23.192	24.393	9.7977	10.02	17.28	1.1163
#1	.32851	1.5426	5.6941	118.73	307.7	154.0	27.426
#2	.06975	1.0710	4.0374	112.13	345.2	164.8	27.323
#3	.24573	1.0380	3.6450	135.34	376.3	116.9	26.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3787	5629.8	.77327	3.1076	1.9389	2.4379	83.99
Stddev	.0870	11.7	.12515	1.1497	.7446	1.0848	1.13
%RSD	3.6568	.20706	16.185	36.997	38.402	44.498	1.343
#1	-2.3365	5616.3	.63403	1.8759	2.6125	3.3120	84.34
#2	-2.3209	5636.6	.80937	4.1525	2.0648	2.7780	84.89
#3	-2.4788	5636.4	.87641	3.2944	1.1394	1.2238	82.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1300	.46416	323.86
Stddev	1.0429	.16445	.78
%RSD	25.252	35.430	.24004
#1	-3.8345	.50309	323.58
#2	-5.2887	.28374	323.26
#3	-3.2667	.60566	324.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37239.	10010.	537630.
Stddev	84.	171.	11212.
%RSD	.22478	1.7109	2.0854
#1	37314.	9885.7	529560.
#2	37256.	10205.	532900.
#3	37149.	9938.6	550430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.944%	84.814%	96.427%
Range			

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Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25659	133.10	-.03519	21.638	.00791	1312.8	-.1091
Stddev	.37379	124.72	.64905	3.813	.01985	221.8	.1198
%RSD	145.68	93.709	1844.3	17.623	250.78	16.892	109.8
#1	.11959	12.902	.65059	18.327	.00018	1082.0	-.0413
#2	-.02937	261.90	-.11627	25.808	-.00690	1524.2	-.2474
#3	.67955	124.49	-.63990	20.780	.03046	1332.1	-.0387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11394	1.4653	3.8714	89.257	320.3	153.1	24.488
Stddev	.19309	.1068	.2182	19.081	66.8	50.2	.213
%RSD	169.47	7.2872	5.6367	21.377	20.86	32.81	.87121
#1	.22524	1.3670	3.9068	68.259	260.1	98.64	24.697
#2	.22559	1.4500	3.6377	105.53	392.2	163.0	24.271
#3	-.10903	1.5789	4.0698	93.980	308.7	197.6	24.497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6099	6050.0	1.1802	1.1662	-.46608	1.1150	106.7
Stddev	.1387	1009.3	.0882	1.8117	1.0970	1.3130	1.2
%RSD	5.3149	16.682	7.4717	155.35	235.37	117.76	1.155
#1	-2.5788	5022.3	1.1075	-.28602	-1.2608	.50512	105.9
#2	-2.7615	7039.8	1.1548	.58827	.78552	2.6221	106.0
#3	-2.4893	6087.8	1.2783	3.1963	-.92298	.21790	108.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9022	.46367	355.33
Stddev	.6857	.30321	1.87
%RSD	17.571	65.394	.52559
#1	-4.2285	.21360	357.44
#2	-4.3639	.80093	354.65
#3	-3.1144	.37649	353.90
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37621.	10025.	536080.
Stddev	137.	1418.	4788.
%RSD	.36359	14.148	.89308
#1	37465.	11500.	532680.
#2	37717.	8670.6	541550.
#3	37682.	9904.4	534010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.928%	84.941%	96.149%
Range			

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Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08213	296.24	-.70434	18.998	.01844	1987.4	.1109
Stddev	.26147	17.27	1.4351	.290	.00654	14.8	.0707
%RSD	318.35	5.8311	203.76	1.5286	35.484	.74310	63.75
#1	-.21948	305.51	.33135	19.169	.01272	1970.4	.1838
#2	.24479	276.31	-.10186	19.163	.01704	1996.8	.0426
#3	.22109	306.91	-2.3425	18.663	.02557	1995.0	.1064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34762	2.6579	5.7503	551.28	508.6	269.2	37.066
Stddev	.23818	.1374	.3802	8.88	93.9	35.3	.603
%RSD	68.519	5.1691	6.6111	1.6100	18.47	13.13	1.6259
#1	.07352	2.8114	5.3324	541.27	574.5	293.7	36.516
#2	.46501	2.5465	6.0757	558.20	550.2	285.2	36.972
#3	.50431	2.6158	5.8427	554.36	401.1	228.7	37.710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6343	5649.0	.93304	2.9909	-1.1898	1.5870	99.74
Stddev	.1764	28.8	.18344	1.5247	.1138	2.3345	1.36
%RSD	6.6942	.50996	19.661	50.978	9.5632	147.10	1.360
#1	-2.4307	5620.4	1.0714	1.8438	-1.2138	2.7988	98.90
#2	-2.7381	5648.6	.72496	2.4079	-1.2896	3.0664	99.02
#3	-2.7342	5678.0	1.0028	4.7211	-1.0659	-1.1042	101.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0194	.63715	291.95
Stddev	.8439	.31802	1.94
%RSD	27.949	49.914	.66342
#1	-2.4210	.46998	294.06
#2	-3.9846	1.0039	291.53
#3	-2.6525	.43757	290.25
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37537.	10286.	539690.
Stddev	243.	68.	7401.
%RSD	.64756	.66073	1.3713
#1	37360.	10209.	547400.
#2	37437.	10313.	539030.
#3	37814.	10337.	532640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.711%	87.154%	96.797%
Range			

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Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41533	658.04	1.2366	34.775	.06210	7534.2	1.848
Stddev	.37016	17.62	.9528	.507	.01457	43.1	.170
%RSD	89.123	2.6774	77.052	1.4576	23.465	.57170	9.180
#1	.21560	664.62	.21023	35.350	.05679	7484.5	1.666
#2	.18794	671.42	2.0930	34.392	.07858	7556.9	1.878
#3	.84246	638.08	1.4066	34.583	.05092	7561.2	2.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.049	8.4282	17.143	948.94	1136.	2703.	53.791
Stddev	.028	.2894	.818	22.52	23.	64.	1.471
%RSD	.23434	3.4343	4.7724	2.3731	2.036	2.359	2.7339
#1	12.028	8.2664	17.169	944.88	1110.	2634.	53.216
#2	12.038	8.7624	17.948	973.21	1144.	2715.	55.462
#3	12.081	8.2559	16.312	928.73	1154.	2760.	52.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4082	7956.2	4.2543	197.27	1.1661	2.0287	92.64
Stddev	.3071	60.9	.1997	1.10	1.1555	.0889	2.62
%RSD	12.752	.76531	4.6941	.55864	99.088	4.3842	2.824
#1	-2.1642	7889.2	4.0851	196.27	1.7975	2.1260	92.33
#2	-2.3074	7971.0	4.4746	197.09	-.16749	2.0087	95.40
#3	-2.7531	8008.3	4.2032	198.46	1.8684	1.9515	90.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.9727	1.7431	626.19
Stddev	.4212	.0981	.35
%RSD	14.168	5.6304	.05592
#1	-3.3123	1.7975	625.87
#2	-3.1045	1.6298	626.16
#3	-2.5014	1.8020	626.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37570.	9979.1	532850.
Stddev	161.	108.1	13683.
%RSD	.42827	1.0828	2.5679
#1	37598.	9959.3	536020.
#2	37397.	9882.3	517860.
#3	37716.	10096.	544670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.797%	84.553%	95.570%
Range			

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Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	808.39	50839.	2645.1	10414.	1084.9	51055.	1064.
Stddev	26.61	456.	2.3	93.	42.0	449.	2.
%RSD	3.2911	.89732	.08535	.89174	3.8752	.87916	.1840
#1	799.54	50316.	2647.2	10312.	1053.6	50539.	1063.
#2	787.34	51043.	2642.7	10436.	1068.4	51360.	1063.
#3	838.29	51156.	2645.5	10494.	1132.7	51265.	1066.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5140.0	10538.	12887.	25238.	40560.	51600.	5161.3
Stddev	8.7	315.	457.	189.	338.	721.	259.7
%RSD	.16862	2.9900	3.5499	.74865	.8339	1.398	5.0324
#1	5133.8	10426.	12523.	25021.	40170.	50780.	5053.7
#2	5136.3	10293.	12737.	25359.	40710.	52140.	4972.7
#3	5149.9	10893.	13400.	25335.	40800.	51880.	5457.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.0	F 28107.	5047.4	9993.2	2645.6	1322.5	1047.
Stddev	1.0	253.	5.7	17.6	6.8	.6	35.
%RSD	.09204	.89905	.11309	.17605	.25535	.04734	3.349
#1	1035.3	27823.	5044.9	9982.8	2644.4	1323.2	1035.
#2	1035.6	28192.	5043.3	9983.3	2652.9	1322.0	1020.
#3	1037.1	28306.	5053.9	10014.	2639.6	1322.2	1087.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25000.					
Range		10.000%					

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	995.20	2653.1	5164.7
Stddev	3.77	88.3	8.8
%RSD	.37894	3.3266	.17021
#1	991.79	2621.8	5159.4
#2	994.56	2584.8	5159.8
#3	999.25	2752.8	5174.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35788.	10174.	518270.
Stddev	109.	116.	15564.
%RSD	.30429	1.1356	3.0031
#1	35871.	10291.	523360.
#2	35828.	10060.	530660.
#3	35664.	10169.	500800.

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Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54987	-10.007	-.80849	1.0242	.10025	22.789	-.1001
Stddev	.25461	9.536	.25780	.4609	.01092	4.452	.2034
%RSD	46.303	95.292	31.887	44.996	10.889	19.534	203.2
#1	-.34782	-16.780	-.79933	1.0166	.11270	26.070	.1133
#2	-.83584	.8979	-1.0707	.56723	.09232	24.575	-.2918
#3	-.46596	-14.138	-.55539	1.4889	.09573	17.722	-.1218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20972	.42439	.75541	22.975	98.51	4.151	.27838
Stddev	.12352	.07792	.34559	4.868	79.19	37.39	.03586
%RSD	58.898	18.360	45.748	21.187	80.39	900.9	12.882
#1	.23960	.49803	1.1410	27.035	8.372	-34.75	.31065
#2	.07400	.43233	.65152	17.579	130.2	39.83	.28471
#3	.31555	.34280	.47369	24.312	156.9	7.373	.23977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2545	-4.1413	.04864	-.83120	-.59067	.01330	.5170
Stddev	.2444	35.860	.02867	.65629	1.6890	1.7089	.2132
%RSD	19.482	865.92	58.942	78.957	285.95	12850.	41.23
#1	-1.1169	-21.522	.07992	-.07392	-.60917	1.4098	.3418
#2	-1.1099	37.097	.02359	-1.1851	-2.2704	.52235	.4550
#3	-1.5367	-27.999	.04243	-1.2346	1.1075	-1.8923	.7543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6684	.19030	-.00960
Stddev	.3193	.30995	.02051
%RSD	11.967	162.88	213.67
#1	3.0366	-.16699	-.01621
#2	2.5013	.35080	.01340
#3	2.4673	.38708	-.02598
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38579.	10491.	549560.
Stddev	145.	223.	1932.
%RSD	.37558	2.1290	.35153
#1	38466.	10239.	550240.
#2	38742.	10664.	547380.
#3	38528.	10571.	551060.

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ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	**Sample ID:**	**S0**	**EPA Sample ID:**	**S0**		**Date:**	**11/9/2015**	**11:52:21**	**Dilution:**	**1**
2·	**Sample ID:**	**S01 ISM-458**	**EPA Sample ID:**	**S01**		**Date:**	**11/9/2015**	**11:57:07**	**Dilution:**	**1**
3·	**Sample ID:**	**S02 ISM-459**	**EPA Sample ID:**	**S02**		**Date:**	**11/9/2015**	**12:01:51**	**Dilution:**	**1**
4·	**Sample ID:**	**S03 ISM-515**	**EPA Sample ID:**	**S03**		**Date:**	**11/9/2015**	**12:06:35**	**Dilution:**	**1**
5·	**Sample ID:**	**S04 ISM-461**	**EPA Sample ID:**	**S04**		**Date:**	**11/9/2015**	**12:11:41**	**Dilution:**	**1**
6·	**Sample ID:**	**S05 ISM-462**	**EPA Sample ID:**	**S05**		**Date:**	**11/9/2015**	**12:17:06**	**Dilution:**	**1**
7·	**Sample ID:**	**S06 ISM-463**	**EPA Sample ID:**	**S06**		**Date:**	**11/9/2015**	**12:22:39**	**Dilution:**	**1**
8·	**Sample ID:**	**S07 ISM-464**	**EPA Sample ID:**	**S07**		**Date:**	**11/9/2015**	**12:27:24**	**Dilution:**	**1**
9·	**Sample ID:**	**S08 ISM-465**	**EPA Sample ID:**	**S08**		**Date:**	**11/9/2015**	**12:32:05**	**Dilution:**	**1**
10·	**Sample ID:**	**S09 ISM-456**	**EPA Sample ID:**	**S09**		**Date:**	**11/9/2015**	**12:36:48**	**Dilution:**	**1**
11·	**Sample ID:**	**S10 ISM-457**	**EPA Sample ID:**	**S10**		**Date:**	**11/9/2015**	**12:41:35**	**Dilution:**	**1**
12·	**Sample ID:**	**ICV1**	**EPA Sample ID:**	**ICV**		**Date:**	**11/9/2015**	**12:46:29**	**Dilution:**	**1**
13·	**Sample ID:**	**ICB1**	**EPA Sample ID:**	**ICB**		**Date:**	**11/9/2015**	**12:51:20**	**Dilution:**	**1**
14·	**Sample ID:**	**ICS-A1**	**EPA Sample ID:**	**ICSA**		**Date:**	**11/9/2015**	**12:56:07**	**Dilution:**	**1**
15·	**Sample ID:**	**ICS-A2**	**EPA Sample ID:**	**ICSAB**		**Date:**	**11/9/2015**	**13:00:51**	**Dilution:**	**1**
16·	**Sample ID:**	**CCV1**	**EPA Sample ID:**	**CCV001**		**Date:**	**11/9/2015**	**13:05:40**	**Dilution:**	**1**
17·	**Sample ID:**	**CCB1**	**EPA Sample ID:**	**CCB001**		**Date:**	**11/9/2015**	**13:10:46**	**Dilution:**	**1**
18·	**Sample ID:**	**QQ89047-001**	**EPA Sample ID:**	**PBS**		**Date:**	**11/9/2015**	**13:15:33**	**Dilution:**	**1**
Hardness	MB result is greater than High Det Lim			0.3689	1984500			0.00	0.00	3.10
19·	**Sample ID:**	**QQ89047-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/9/2015**	**13:20:20**	**Dilution:**	**1**
20·	**Sample ID:**	**QJ31005-001**	**EPA Sample ID:**	**MBC765**		**Date:**	**11/9/2015**	**13:25:06**	**Dilution:**	**1**
Cd2288				3.5690	2000			1.00	0.04	0.50
Cu3273				330.0400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE			236580.0000	150000			0.00	2.60	10.00
Ni2316				203.4700	10000			0.00	0.21	4.00
Pb2203				500.1600	20000			0.00	0.28	1.00
21·	**Sample ID:**	**QJ31005-001L**	**EPA Sample ID:**	**MBC765L**		**Date:**	**11/9/2015**	**13:29:57**	**Dilution:**	**5**
As1890	RPD IS OUT OF CRITERIA			12.7730	5000		11.0	7.00	0.39	1.00
Na5895	RPD IS OUT OF CRITERIA			93.3630	100000		14.0	19.00	4.90	500.00
22·	**Sample ID:**	**QJ31005-001DU**	**EPA Sample ID:**	**MBC765D**		**Date:**	**11/9/2015**	**13:34:50**	**Dilution:**	**1**
Cd2288				2.6650	2000		0.0	4.00	0.04	0.50
Cu3273				289.5000	25000		0.0	2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE			202350.0000	150000		0.0	8.00	2.60	10.00
Mn2576	RPD IS OUT OF CRITERIA			4884.8999	10000		47.0	2.00	0.09	1.50
Ni2316				155.2600	10000		0.0	1.00	0.21	4.00
Pb2203				401.6000	20000		0.0	1.00	0.28	1.00
23·	**Sample ID:**	**QJ31005-001MS**	**EPA Sample ID:**	**MBC765S**		**Date:**	**11/9/2015**	**13:39:42**	**Dilution:**	**1**
Cd2288				87.1000	2000	100.0		1.00	0.04	0.50
Cu3273				710.8600	25000	500.0		4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE			182210.0000	150000			6.00	2.60	10.00
Ni2316				963.3300	10000	1000.0		1.00	0.21	4.00
Pb2203				459.9000	20000	40.0		1.00	0.28	1.00
24·	**Sample ID:**	**QJ31005-001A**	**EPA Sample ID:**	**MBC765A**		**Date:**	**11/9/2015**	**13:44:32**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
25· Sample ID:	**QJ31005-002**	**EPA Sample ID:**	**MBC766**		**Date:**	**11/9/2015**	**13:49:21**	**Dilution:** **1**
Ca2179	PARAMETER IS OVER RANGE	422800.0000	300000			1.00	6.90	500.00
Cd2288		2.1160	2000			3.00	0.04	0.50
Cu3273		292.0400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	242300.0000	150000			1.00	2.60	10.00
Ni2316		192.7700	10000			0.00	0.21	4.00
Pb2203		196.5400	20000			1.00	0.28	1.00
26· Sample ID:	**QJ31005-003**	**EPA Sample ID:**	**MBC767**		**Date:**	**11/9/2015**	**13:54:21**	**Dilution:** **1**
Cd2288		3.9240	2000			3.00	0.04	0.50
Cu3273		687.7400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	290720.0000	150000			1.00	2.60	10.00
Ni2316		249.4100	10000			0.00	0.21	4.00
Pb2203		1600.8000	20000			0.00	0.28	1.00
27· Sample ID:	**QJ31005-004**	**EPA Sample ID:**	**MBC768**		**Date:**	**11/9/2015**	**13:59:12**	**Dilution:** **1**
Cd2288		2.2480	2000			7.00	0.04	0.50
Cu3273		254.0900	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	201440.0000	150000			1.00	2.60	10.00
Ni2316		169.4100	10000			0.00	0.21	4.00
Pb2203		296.6200	20000			0.00	0.28	1.00
28· Sample ID:	**QJ31005-005**	**EPA Sample ID:**	**MBC769**		**Date:**	**11/9/2015**	**14:04:05**	**Dilution:** **1**
Cd2288		5.7220	2000			2.00	0.04	0.50
Cu3273		390.6100	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	229130.0000	150000			1.00	2.60	10.00
Ni2316		187.4400	10000			0.00	0.21	4.00
Pb2203		1317.5000	20000			0.00	0.28	1.00
29· Sample ID:	**QJ31005-006**	**EPA Sample ID:**	**MBC770**		**Date:**	**11/9/2015**	**14:08:56**	**Dilution:** **1**
Cd2288		5.0660	2000			3.00	0.04	0.50
Cu3273		993.3800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	377080.0000	150000			1.00	2.60	10.00
Ni2316		290.3900	10000			0.00	0.21	4.00
Pb2203		3828.5000	20000			0.00	0.28	1.00
30· Sample ID:	**QJ31005-007**	**EPA Sample ID:**	**MBC771**		**Date:**	**11/9/2015**	**14:13:46**	**Dilution:** **1**
Cd2288		-3.9400	2000			2.00	0.04	0.50
Cu3273		754.4700	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	232160.0000	150000			0.00	2.60	10.00
Ni2316		158.6100	10000			0.00	0.21	4.00
Pb2203		1915.2000	20000			0.00	0.28	1.00
31· Sample ID:	**QJ31005-008**	**EPA Sample ID:**	**MBC774**		**Date:**	**11/9/2015**	**14:18:37**	**Dilution:** **1**
Cd2288		5.6710	2000			0.00	0.04	0.50
Cu3273		545.2800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	231940.0000	150000			1.00	2.60	10.00
Ni2316		217.2400	10000			0.00	0.21	4.00
Pb2203		621.8900	20000			1.00	0.28	1.00
32· Sample ID:	**QJ31005-009**	**EPA Sample ID:**	**MBC7D5**		**Date:**	**11/9/2015**	**14:23:28**	**Dilution:** **1**
Cd2288		0.7702	2000			1.00	0.04	0.50
Cu3273		228.6000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	214410.0000	150000			0.00	2.60	10.00
Ni2316		181.9300	10000			0.00	0.21	4.00
Pb2203		171.0100	20000			0.00	0.28	1.00

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
33. Sample ID:	**QJ31005-010**	**EPA Sample ID:**	**MBC7D6**		**Date:**	**11/9/2015**	**14:28:19**	**Dilution: 1**
Cd2288		0.5032	2000			6.00	0.04	0.50
Cu3273		279.7400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	202370.0000	150000			4.00	2.60	10.00
Ni2316		168.3000	10000			0.00	0.21	4.00
Pb2203		109.2300	20000			2.00	0.28	1.00
34. Sample ID:	**QJ31005-011**	**EPA Sample ID:**	**MBC7D7**		**Date:**	**11/9/2015**	**14:33:10**	**Dilution: 1**
Cd2288		0.2927	2000			92.00	0.04	0.50
Cu3273		253.2800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	236030.0000	150000			9.00	2.60	10.00
Ni2316		190.6500	10000			0.00	0.21	4.00
Pb2203		140.3300	20000			4.00	0.28	1.00
35. Sample ID:	**QJ31005-012**	**EPA Sample ID:**	**MBC7D8**		**Date:**	**11/9/2015**	**14:38:01**	**Dilution: 1**
Cd2288		-0.0718	2000			123.00	0.04	0.50
Cu3273		242.5800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	279540.0000	150000			1.00	2.60	10.00
Ni2316		214.6900	10000			0.00	0.21	4.00
Pb2203		112.5300	20000			1.00	0.28	1.00
36. Sample ID:	**QJ31005-013**	**EPA Sample ID:**	**MBC7D9**		**Date:**	**11/9/2015**	**14:42:51**	**Dilution: 1**
Cd2288		0.5873	2000			15.00	0.04	0.50
Cu3273		311.1700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	196550.0000	150000			3.00	2.60	10.00
Ni2316		152.4900	10000			0.00	0.21	4.00
Pb2203		391.2400	20000			1.00	0.28	1.00
37. Sample ID:	**QJ31005-014**	**EPA Sample ID:**	**MBC7E0**		**Date:**	**11/9/2015**	**14:47:42**	**Dilution: 1**
Cd2288		-0.0474	2000			239.00	0.04	0.50
Cu3273		501.5400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	255520.0000	150000			7.00	2.60	10.00
Ni2316		239.8100	10000			0.00	0.21	4.00
Pb2203		81.9710	20000			3.00	0.28	1.00
38. Sample ID:	**QJ31005-015**	**EPA Sample ID:**	**MBC7E1**		**Date:**	**11/9/2015**	**14:52:32**	**Dilution: 1**
Cd2288		19.1000	2000			0.00	0.04	0.50
Cu3273		1634.0000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	151230.0000	150000			2.00	2.60	10.00
Ni2316		154.1700	10000			0.00	0.21	4.00
Pb2203		1253.9000	20000			0.00	0.28	1.00
39. Sample ID:	**QJ31005-016**	**EPA Sample ID:**	**MBC7E2**		**Date:**	**11/9/2015**	**14:57:24**	**Dilution: 1**
Cd2288		0.7493	2000			10.00	0.04	0.50
Cu3273		278.2300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	304460.0000	150000			1.00	2.60	10.00
Ni2316		243.3500	10000			0.00	0.21	4.00
Pb2203		193.9300	20000			1.00	0.28	1.00
40. Sample ID:	**CCV2**	**EPA Sample ID:**	**CCV002**		**Date:**	**11/9/2015**	**15:02:16**	**Dilution: 1**
41. Sample ID:	**CCB2**	**EPA Sample ID:**	**CCB002**		**Date:**	**11/9/2015**	**15:07:21**	**Dilution: 1**
42. Sample ID:	**QJ31005-017**	**EPA Sample ID:**	**MBC7E3**		**Date:**	**11/9/2015**	**15:12:09**	**Dilution: 1**
Cd2288		-1.2450	2000			5.00	0.04	0.50
Cu3273		875.9000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	426380.0000	150000			0.00	2.60	10.00
Ni2316		335.2100	10000			0.00	0.21	4.00
Pb2203		3002.3000	20000			0.00	0.28	1.00

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
43· Sample ID:	**QJ31005-018**	**EPA Sample ID:**	**MBC7E4**		**Date:**	**11/9/2015**	**15:17:00**	**Dilution: 1**
Cd2288		0.3031	2000			9.00	0.04	0.50
Cu3273		326.0500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	429420.0000	150000			1.00	2.60	10.00
Ni2316		325.2500	10000			0.00	0.21	4.00
Pb2203		176.0800	20000			2.00	0.28	1.00
44· Sample ID:	**QJ31005-019**	**EPA Sample ID:**	**MBC7E5**		**Date:**	**11/9/2015**	**15:21:49**	**Dilution: 1**
Cd2288		3.9200	2000			4.00	0.04	0.50
Cu3273		2290.2000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	162100.0000	150000			1.00	2.60	10.00
Ni2316		299.8500	10000			0.00	0.21	4.00
Pb2203		832.2500	20000			0.00	0.28	1.00
45· Sample ID:	**QJ31005-020**	**EPA Sample ID:**	**MBC7E6**		**Date:**	**11/9/2015**	**15:26:39**	**Dilution: 1**
Cd2288		2.0180	2000			6.00	0.04	0.50
Cu3273		1032.9000	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	430460.0000	150000			0.00	2.60	10.00
Ni2316		424.0900	10000			0.00	0.21	4.00
Pb2203		586.8500	20000			0.00	0.28	1.00
46· Sample ID:	**QQ89048-001**	**EPA Sample ID:**	**QQ89048-001MB**		**Date:**	**11/9/2015**	**15:31:29**	**Dilution: 1**
47· Sample ID:	**QQ89048-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/9/2015**	**15:36:18**	**Dilution: 1**
48· Sample ID:	**QJ31006-001**	**EPA Sample ID:**	**MBC7E7**		**Date:**	**11/9/2015**	**15:41:05**	**Dilution: 1**
49· Sample ID:	**QJ31006-00L**	**EPA Sample ID:**	**MBC7E7L**		**Date:**	**11/9/2015**	**15:45:50**	**Dilution: 5**
50· Sample ID:	**QJ31006-001DU**	**EPA Sample ID:**	**MBC7E7D**		**Date:**	**11/9/2015**	**15:50:35**	**Dilution: 1**
Al3082	RPD IS OUT OF CRITERIA	20583.0000	300000		32.0	3.00	7.60	20.00
As1890	RPD IS OUT OF CRITERIA	44.7130	5000		21.0	3.00	0.39	1.00
Ca2179	RPD IS OUT OF CRITERIA	24862.0000	300000		41.0	3.00	6.90	500.00
Cr2677	RPD IS OUT OF CRITERIA	68.0110	20000		35.0	1.00	0.12	1.00
Cu3273	RPD IS OUT OF CRITERIA	14438.0000	25000		185.0	2.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA	52084.0000	150000		24.0	3.00	2.60	10.00
Mn2576	RPD IS OUT OF CRITERIA	992.1700	10000		35.0	1.00	0.09	1.50
Pb2203	RPD IS OUT OF CRITERIA	933.4000	20000		76.0	0.00	0.28	1.00
Zn2062	RPD IS OUT OF CRITERIA	971.7700	10000		83.0	0.00	0.26	6.00
51· Sample ID:	**QJ31006-001MS**	**EPA Sample ID:**	**MBC7E7S**		**Date:**	**11/9/2015**	**15:55:29**	**Dilution: 1**
As1890	RECOVERY IS OUT OF CRITERIA	106.5900	5000	80.0	69.0	1.00	0.39	1.00
Cu3273	RECOVERY IS OUT OF CRITERIA	794.9500	25000	500.0	53.0	2.00	0.24	2.50
Sb2068	RECOVERY IS OUT OF CRITERIA	79.7340	5000	200.0	36.0	1.00	0.35	6.00
52· Sample ID:	**QJ31006-001A**	**EPA Sample ID:**	**MBC7E7A**		**Date:**	**11/9/2015**	**16:00:22**	**Dilution: 1**
53· Sample ID:	**QJ31006-002**	**EPA Sample ID:**	**MBC7E8**		**Date:**	**11/9/2015**	**16:05:08**	**Dilution: 1**
Cd2288		1.3370	2000			13.00	0.04	0.50
Cu3273		436.9700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	161800.0000	150000			0.00	2.60	10.00
Ni2316		163.9200	10000			0.00	0.21	4.00
Pb2203		353.2500	20000			1.00	0.28	1.00
54· Sample ID:	**QJ31006-003**	**EPA Sample ID:**	**MBC7F0**		**Date:**	**11/9/2015**	**16:10:00**	**Dilution: 1**
Cd2288		7.8700	2000			3.00	0.04	0.50
Cu3273		680.3000	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	177150.0000	150000			2.00	2.60	10.00
Ni2316		132.3500	10000			0.00	0.21	4.00
Pb2203		2086.0000	20000			0.00	0.28	1.00

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
55· Sample ID:	**QJ31006-004**	**EPA Sample ID:**	**MBC7F2**		**Date:**	**11/9/2015**	**16:14:52**	**Dilution: 1**
Cd2288		0.0823	2000			260.00	0.04	0.50
Cu3273		138.2300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	214130.0000	150000			4.00	2.60	10.00
Ni2316		159.7700	10000			0.00	0.21	4.00
Pb2203		100.2300	20000			5.00	0.28	1.00
56· Sample ID:	**QJ31006-005**	**EPA Sample ID:**	**MBC7F3**		**Date:**	**11/9/2015**	**16:19:46**	**Dilution: 1**
Cd2288		0.3898	2000			24.00	0.04	0.50
Cu3273		328.1300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	280600.0000	150000			8.00	2.60	10.00
Ni2316		241.3200	10000			0.00	0.21	4.00
Pb2203		216.6800	20000			2.00	0.28	1.00
57· Sample ID:	**QJ31006-006**	**EPA Sample ID:**	**MBC7H1**		**Date:**	**11/9/2015**	**16:24:35**	**Dilution: 1**
Cd2288		6.6550	2000			2.00	0.04	0.50
Cu3273		4013.7000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	157430.0000	150000			1.00	2.60	10.00
Ni2316		157.6800	10000			0.00	0.21	4.00
Pb2203		597.7900	20000			0.00	0.28	1.00
58· Sample ID:	**QJ31006-007**	**EPA Sample ID:**	**MBC7H2**		**Date:**	**11/9/2015**	**16:29:26**	**Dilution: 1**
59· Sample ID:	**QJ31006-008**	**EPA Sample ID:**	**MBC7H3**		**Date:**	**11/9/2015**	**16:34:09**	**Dilution: 1**
Cd2288		0.5093	2000			9.00	0.04	0.50
Cu3273		301.2700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	272460.0000	150000			1.00	2.60	10.00
Ni2316		223.9000	10000			0.00	0.21	4.00
Pb2203		195.5400	20000			1.00	0.28	1.00
60· Sample ID:	**CCV3**	**EPA Sample ID:**	**CCV003**		**Date:**	**11/9/2015**	**16:38:59**	**Dilution: 1**
61· Sample ID:	**CCB3**	**EPA Sample ID:**	**CCB003**		**Date:**	**11/9/2015**	**16:44:05**	**Dilution: 1**
62· Sample ID:	**QQ89046-001**	**EPA Sample ID:**	**QQ89046-001**		**Date:**	**11/9/2015**	**16:48:53**	**Dilution: 1**
63· Sample ID:	**QQ89046-002**	**EPA Sample ID:**	**QQ89046-002**		**Date:**	**11/9/2015**	**16:53:40**	**Dilution: 1**
64· Sample ID:	**QJ31004-001**	**EPA Sample ID:**	**MBC761**		**Date:**	**11/9/2015**	**16:58:27**	**Dilution: 1**
65· Sample ID:	**QJ31004-001L**	**EPA Sample ID:**	**MBC761L**		**Date:**	**11/9/2015**	**17:03:16**	**Dilution: 5**
66· Sample ID:	**QJ31004-001DU**	**EPA Sample ID:**	**MBC761D**		**Date:**	**11/9/2015**	**17:08:05**	**Dilution: 1**
67· Sample ID:	**QJ31004-001MS**	**EPA Sample ID:**	**MBC761S**		**Date:**	**11/9/2015**	**17:12:52**	**Dilution: 1**
Hardness	RECOVERY IS OUT OF CRITERIA	-0.0174	1984500	50.0	0.0	0.00	1463.50	33.10
68· Sample ID:	**QJ31004-001A**	**EPA Sample ID:**	**MBC761A**		**Date:**	**11/9/2015**	**17:17:39**	**Dilution: 1**
69· Sample ID:	**QJ31005-001**	**EPA Sample ID:**	**MBC765**		**Date:**	**11/9/2015**	**17:22:27**	**Dilution: 2**
70· Sample ID:	**QJ31005-001L**	**EPA Sample ID:**	**MBC765L**		**Date:**	**11/9/2015**	**17:27:20**	**Dilution: 10**
Cd2288	RPD IS OUT OF CRITERIA	0.1549	2000		62.0	55.00	0.04	0.50
71· Sample ID:	**QJ31005-001DU**	**EPA Sample ID:**	**MBC765D**		**Date:**	**11/9/2015**	**17:32:07**	**Dilution: 2**
72· Sample ID:	**QJ31005-001MS**	**EPA Sample ID:**	**MBC765S**		**Date:**	**11/9/2015**	**17:37:02**	**Dilution: 2**
Sb2068	RECOVERY IS OUT OF CRITERIA	22.5510	5000	200.0	22.0	1.00	0.35	6.00
73· Sample ID:	**QJ31005-001A**	**EPA Sample ID:**	**MBC765A**		**Date:**	**11/9/2015**	**17:41:56**	**Dilution: 2**
74· Sample ID:	**QJ31005-002**	**EPA Sample ID:**	**MBC766**		**Date:**	**11/9/2015**	**17:46:48**	**Dilution: 2**
75· Sample ID:	**QJ31005-003**	**EPA Sample ID:**	**MBC767**		**Date:**	**11/9/2015**	**17:51:41**	**Dilution: 5**
76· Sample ID:	**QJ31005-004**	**EPA Sample ID:**	**MBC768**		**Date:**	**11/9/2015**	**17:56:26**	**Dilution: 2**
77· Sample ID:	**QJ31005-005**	**EPA Sample ID:**	**MBC769**		**Date:**	**11/9/2015**	**18:01:21**	**Dilution: 2**
78· Sample ID:	**QJ31005-006**	**EPA Sample ID:**	**MBC770**		**Date:**	**11/9/2015**	**18:06:15**	**Dilution: 5**

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79·	Sample ID:	QJ31005-007	EPA Sample ID:	MBC771		Date:	11/9/2015	18:11:02	Dilution:	2
80·	Sample ID:	QJ31005-008	EPA Sample ID:	MBC774		Date:	11/9/2015	18:15:46	Dilution:	2
81·	Sample ID:	QJ31005-009	EPA Sample ID:	MBC7D5		Date:	11/9/2015	18:20:38	Dilution:	2
82·	Sample ID:	CCV4	EPA Sample ID:	CCV004		Date:	11/9/2015	18:25:23	Dilution:	1
83·	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/9/2015	18:30:29	Dilution:	1
84·	Sample ID:	QJ31005-010	EPA Sample ID:	MBC7D6		Date:	11/9/2015	18:35:17	Dilution:	2
85·	Sample ID:	QJ31005-011	EPA Sample ID:	MBC7D7		Date:	11/9/2015	18:40:03	Dilution:	5
86·	Sample ID:	QJ31005-012	EPA Sample ID:	MBC7D8		Date:	11/9/2015	18:44:50	Dilution:	2
87·	Sample ID:	QJ31005-013	EPA Sample ID:	MBC7D9		Date:	11/9/2015	18:49:43	Dilution:	2
88·	Sample ID:	QJ31005-014	EPA Sample ID:	MBC7E0		Date:	11/9/2015	18:54:29	Dilution:	2
89·	Sample ID:	QJ31005-015	EPA Sample ID:	MBC7E1		Date:	11/9/2015	18:59:14	Dilution:	2
90·	Sample ID:	QJ31005-016	EPA Sample ID:	MBC7E2		Date:	11/9/2015	19:04:07	Dilution:	5
91·	Sample ID:	QJ31005-017	EPA Sample ID:	MBC7E3		Date:	11/9/2015	19:08:53	Dilution:	5
92·	Sample ID:	QJ31005-018	EPA Sample ID:	MBC7E4		Date:	11/9/2015	19:13:39	Dilution:	5
93·	Sample ID:	QJ31005-019	EPA Sample ID:	MBC7E5		Date:	11/9/2015	19:18:33	Dilution:	2
94·	Sample ID:	QJ31005-020	EPA Sample ID:	MBC7E6		Date:	11/9/2015	19:23:26	Dilution:	5
95·	Sample ID:	QJ31006-002	EPA Sample ID:	MBC7E8		Date:	11/9/2015	19:28:19	Dilution:	2
96·	Sample ID:	QJ31006-003	EPA Sample ID:	MBC7F0		Date:	11/9/2015	19:33:06	Dilution:	2
97·	Sample ID:	QJ31006-004	EPA Sample ID:	MBC7F2		Date:	11/9/2015	19:37:49	Dilution:	2
98·	Sample ID:	QJ31006-005	EPA Sample ID:	MBC7F3		Date:	11/9/2015	19:42:34	Dilution:	5
99·	Sample ID:	QJ31006-006	EPA Sample ID:	MBC7H1		Date:	11/9/2015	19:47:22	Dilution:	2
100·	Sample ID:	QJ31006-008	EPA Sample ID:	MBC7H3		Date:	11/9/2015	19:52:15	Dilution:	5
101·	Sample ID:	CCV5	EPA Sample ID:	CCV005		Date:	11/9/2015	19:57:01	Dilution:	1
102·	Sample ID:	CCB5	EPA Sample ID:	CCB005		Date:	11/9/2015	20:02:07	Dilution:	1
103·	Sample ID:	QJ20013-014	EPA Sample ID:	MB0AX1		Date:	11/9/2015	20:06:57	Dilution:	1
104·	Sample ID:	QJ20013-015	EPA Sample ID:	MB0AY2		Date:	11/9/2015	20:11:43	Dilution:	1
105·	Sample ID:	QJ20013-016	EPA Sample ID:	MB0AY5		Date:	11/9/2015	20:16:31	Dilution:	1
106·	Sample ID:	QJ20013-017	EPA Sample ID:	MB0AY6		Date:	11/9/2015	20:21:19	Dilution:	1
107·	Sample ID:	QJ20013-018	EPA Sample ID:	MB0AY7		Date:	11/9/2015	20:26:08	Dilution:	1
108·	Sample ID:	QJ20013-019	EPA Sample ID:	MB0AQ1		Date:	11/9/2015	20:30:56	Dilution:	1
109·	Sample ID:	QJ20013-020	EPA Sample ID:	MB0AQ2		Date:	11/9/2015	20:35:43	Dilution:	1
110·	Sample ID:	CCV6	EPA Sample ID:	CCV006		Date:	11/9/2015	20:40:31	Dilution:	1
Hardness	RECOVERY IS OUT OF CRITERIA			339.7756	1984500	750.0	45.0	0.00	1463.50	33.10
111·	Sample ID:	CCB6	EPA Sample ID:	CCB006		Date:	11/9/2015	20:45:38	Dilution:	1
112·	Sample ID:	QQ88725-001	EPA Sample ID:	QQ88725-001		Date:	11/9/2015	20:50:28	Dilution:	1
113·	Sample ID:	QQ88725-002	EPA Sample ID:	QQ88725-002		Date:	11/9/2015	20:55:17	Dilution:	1
114·	Sample ID:	QJ20027-001	EPA Sample ID:	MG9AH1		Date:	11/9/2015	21:00:05	Dilution:	1
115·	Sample ID:	QJ20027-002	EPA Sample ID:	MG9AF2		Date:	11/9/2015	21:04:54	Dilution:	1
116·	Sample ID:	QJ20027-003	EPA Sample ID:	MG9AF3		Date:	11/9/2015	21:09:44	Dilution:	1
117·	Sample ID:	QJ20027-004	EPA Sample ID:	MG9AF4		Date:	11/9/2015	21:14:34	Dilution:	1
118·	Sample ID:	QJ20027-005	EPA Sample ID:	MG9AF5		Date:	11/9/2015	21:19:23	Dilution:	1
119·	Sample ID:	QJ20027-006	EPA Sample ID:	MG9AF6		Date:	11/9/2015	21:24:12	Dilution:	1

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Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
120·	**Sample ID:**	**QJ20027-007**	**EPA Sample ID:**	**MG9AF7**		**Date:**	**11/9/2015**	**21:29:00**	**Dilution:**	**1**
121·	**Sample ID:**	**QJ20027-008**	**EPA Sample ID:**	**MG9AF8**		**Date:**	**11/9/2015**	**21:33:49**	**Dilution:**	**1**
122·	**Sample ID:**	**QJ20027-009**	**EPA Sample ID:**	**MG9AF9**		**Date:**	**11/9/2015**	**21:38:37**	**Dilution:**	**1**
123·	**Sample ID:**	**QJ20027-010**	**EPA Sample ID:**	**MG9AG0**		**Date:**	**11/9/2015**	**21:43:27**	**Dilution:**	**1**
124·	**Sample ID:**	**QJ20027-011**	**EPA Sample ID:**	**MG9AG1**		**Date:**	**11/9/2015**	**21:48:15**	**Dilution:**	**1**
125·	**Sample ID:**	**QJ20027-012**	**EPA Sample ID:**	**MG9AG2**		**Date:**	**11/9/2015**	**21:53:04**	**Dilution:**	**1**
126·	**Sample ID:**	**QJ20027-013**	**EPA Sample ID:**	**MG9AG3**		**Date:**	**11/9/2015**	**21:57:52**	**Dilution:**	**1**
127·	**Sample ID:**	**QJ20027-014**	**EPA Sample ID:**	**MG9AG4**		**Date:**	**11/9/2015**	**22:02:42**	**Dilution:**	**1**
128·	**Sample ID:**	**QJ20027-015**	**EPA Sample ID:**	**MG9AG5**		**Date:**	**11/9/2015**	**22:07:31**	**Dilution:**	**1**
129·	**Sample ID:**	**QJ20027-016**	**EPA Sample ID:**	**MG9AG6**		**Date:**	**11/9/2015**	**22:12:19**	**Dilution:**	**1**
130·	**Sample ID:**	**QJ20027-017**	**EPA Sample ID:**	**MG9AG7**		**Date:**	**11/9/2015**	**22:17:08**	**Dilution:**	**1**
131·	**Sample ID:**	**QJ20027-018**	**EPA Sample ID:**	**MG9AG8**		**Date:**	**11/9/2015**	**22:21:59**	**Dilution:**	**1**
132·	**Sample ID:**	**QJ20027-019**	**EPA Sample ID:**	**MG9AG9**		**Date:**	**11/9/2015**	**22:26:48**	**Dilution:**	**1**
133·	**Sample ID:**	**QJ20027-020**	**EPA Sample ID:**	**MG9AH0**		**Date:**	**11/9/2015**	**22:31:38**	**Dilution:**	**1**
134·	**Sample ID:**	**QJ20027-021**	**EPA Sample ID:**	**MG9AH2**		**Date:**	**11/9/2015**	**22:36:27**	**Dilution:**	**1**
135·	**Sample ID:**	**CCV7**	**EPA Sample ID:**	**CCV007**		**Date:**	**11/9/2015**	**22:41:15**	**Dilution:**	**1**
Ag3280	RECOVERY IS OUT OF CRITERIA			-0.0765	1500	750.0	0.0	96.00	1.60	10.00
Al3082	RECOVERY IS OUT OF CRITERIA			-6.7788	300000	50000.0	0.0	972.00	95.20	200.00
As1890	RECOVERY IS OUT OF CRITERIA			-0.6034	5000	2500.0	0.0	210.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA			0.3225	20000	10000.0	0.0	190.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA			0.0668	2000	1000.0	0.0	9.00	0.05	5.00
Ca2179	RECOVERY IS OUT OF CRITERIA			-6.1867	300000	50000.0	0.0	162.00	503.00	5000.00
Cd2288	RECOVERY IS OUT OF CRITERIA			-0.0679	2000	1000.0	0.0	274.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA			-0.0099	10000	5000.0	0.0	1238.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA			-0.1995	20000	10000.0	0.0	100.00	1.80	10.00
Cu3273	RECOVERY IS OUT OF CRITERIA			-0.5023	25000	12500.0	0.0	59.00	5.00	25.00
Fe2611	RECOVERY IS OUT OF CRITERIA			3.8565	150000	25000.0	0.0	109.00	18.80	100.00
K_7664	RECOVERY IS OUT OF CRITERIA			-10.9600	112500	37500.0	0.0	321.00	90.50	5000.00
Mg2790	RECOVERY IS OUT OF CRITERIA			-24.0300	300000	50000.0	0.0	102.00	50.90	5000.00
Mn2576	RECOVERY IS OUT OF CRITERIA			-0.0637	10000	5000.0	0.0	52.00	0.43	15.00
Na5895	RECOVERY IS OUT OF CRITERIA			-20.4030	100000	25000.0	0.0	129.00	516.00	5000.00
Ni2316	RECOVERY IS OUT OF CRITERIA			0.0794	10000	5000.0	0.0	316.00	1.10	40.00
Pb2203	RECOVERY IS OUT OF CRITERIA			-0.0892	20000	10000.0	0.0	1053.00	3.50	10.00
Sb2068	RECOVERY IS OUT OF CRITERIA			-1.0972	5000	2500.0	0.0	124.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA			0.5396	2500	1250.0	0.0	145.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA			-1.2309	2000	1000.0	0.0	96.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA			0.1612	5000	2500.0	0.0	141.00	1.10	50.00
Zn2062	RECOVERY IS OUT OF CRITERIA			-0.1961	10000	5000.0	0.0	32.00	6.60	60.00
Hardness	RECOVERY IS OUT OF CRITERIA			-0.1144	1984500	750.0	0.0	0.00	1463.50	33.10

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
136· Sample ID: CCB7	**EPA Sample ID: CCB007**			**Date: 11/9/2015**		**22:46:05**	**Dilution:**	**1**
Ag3280	MB result is greater than High Det Lim	778.5700	1500			2.00	1.60	10.00
Al3082	MB result is greater than High Det Lim	49512.0000	300000			1.00	95.20	200.00
As1890	MB result is greater than High Det Lim	2578.2000	5000			0.00	3.90	10.00
Ba4554	MB result is greater than High Det Lim	10206.0000	20000			1.00	19.10	200.00
Be3130	MB result is greater than High Det Lim	1043.9000	2000			3.00	0.05	5.00
Ca2179	MB result is greater than High Det Lim	50111.0000	300000			1.00	503.00	5000.00
Cd2288	MB result is greater than High Det Lim	1037.0000	2000			0.00	0.60	5.00
Co2286	MB result is greater than High Det Lim	5020.8999	10000			0.00	0.25	50.00
Cr2677	MB result is greater than High Det Lim	10236.0000	20000			2.00	1.80	10.00
Cu3273	MB result is greater than High Det Lim	12302.0000	25000			3.00	5.00	25.00
Fe2611	MB result is greater than High Det Lim	24844.0000	150000			1.00	18.80	100.00
K_7664	MB result is greater than High Det Lim	39580.0000	112500			1.00	90.50	5000.00
Mg2790	MB result is greater than High Det Lim	50940.0000	300000			1.00	50.90	5000.00
Mn2576	MB result is greater than High Det Lim	4966.5000	10000			1.00	0.43	15.00
Na5895	MB result is greater than High Det Lim	27580.0000	100000			1.00	516.00	5000.00
Ni2316	MB result is greater than High Det Lim	4922.3999	10000			0.00	1.10	40.00
Pb2203	MB result is greater than High Det Lim	9767.5000	20000			0.00	3.50	10.00
Sb2068	MB result is greater than High Det Lim	2569.7000	5000			0.00	7.80	60.00
Se1960	MB result is greater than High Det Lim	1285.0000	2500			0.00	5.50	35.00
Tl1908	MB result is greater than High Det Lim	979.9600	2000			1.00	3.80	25.00
V_2924	MB result is greater than High Det Lim	2556.7000	5000			2.00	1.10	50.00
Zn2062	MB result is greater than High Det Lim	5078.2998	10000			0.00	6.60	60.00
Hardness	MB result is greater than High Det Lim	334.8981	1984500			0.00	1463.50	33.10
137· Sample ID: QQ88726-001	**EPA Sample ID: QQ88726-001**			**Date: 11/9/2015**		**22:51:13**	**Dilution:**	**1**
138· Sample ID: QQ88726-002	**EPA Sample ID: QQ88726-002**			**Date: 11/9/2015**		**22:56:03**	**Dilution:**	**1**
139· Sample ID: QK02005-001	**EPA Sample ID: MG9AP7**			**Date: 11/9/2015**		**23:00:51**	**Dilution:**	**1**
140· Sample ID: QK02005-002	**EPA Sample ID: MG9AP8**			**Date: 11/9/2015**		**23:05:41**	**Dilution:**	**1**
141· Sample ID: QK02005-003	**EPA Sample ID: MG9AP9**			**Date: 11/9/2015**		**23:10:32**	**Dilution:**	**1**
142· Sample ID: QK02005-004	**EPA Sample ID: MG9AQ0**			**Date: 11/9/2015**		**23:15:21**	**Dilution:**	**1**
143· Sample ID: QK02005-005	**EPA Sample ID: MG9AQ1**			**Date: 11/9/2015**		**23:20:11**	**Dilution:**	**1**
144· Sample ID: QK02005-006	**EPA Sample ID: MG9AQ2**			**Date: 11/9/2015**		**23:25:00**	**Dilution:**	**1**
145· Sample ID: QK02005-007	**EPA Sample ID: MG9AQ3**			**Date: 11/9/2015**		**23:29:49**	**Dilution:**	**1**
146· Sample ID: QK02005-008	**EPA Sample ID: MG9AQ4**			**Date: 11/9/2015**		**23:34:39**	**Dilution:**	**1**
Zn2062	PARAMETER IS OVER RANGE	24591.0000	10000			1.00	6.60	60.00
147· Sample ID: QK02005-009	**EPA Sample ID: MG9AQ5**			**Date: 11/9/2015**		**23:39:33**	**Dilution:**	**1**
148· Sample ID: QK02005-010	**EPA Sample ID: MG9AQ6**			**Date: 11/9/2015**		**23:44:23**	**Dilution:**	**1**
149· Sample ID: QK02005-011	**EPA Sample ID: MG9AQ7**			**Date: 11/9/2015**		**23:49:13**	**Dilution:**	**1**
150· Sample ID: QK02005-012	**EPA Sample ID: MG9AQ8**			**Date: 11/9/2015**		**23:54:03**	**Dilution:**	**1**
151· Sample ID: QK02005-013	**EPA Sample ID: MG9AQ9**			**Date: 11/9/2015**		**23:58:53**	**Dilution:**	**1**
152· Sample ID: QK02005-014	**EPA Sample ID: MG9AR0**			**Date: 11/10/2015**		**00:03:43**	**Dilution:**	**1**
153· Sample ID: QK02005-015	**EPA Sample ID: MG9AR1**			**Date: 11/10/2015**		**00:08:33**	**Dilution:**	**1**
154· Sample ID: QK02005-016	**EPA Sample ID: MG9AR2**			**Date: 11/10/2015**		**00:13:24**	**Dilution:**	**1**
155· Sample ID: QK02005-017	**EPA Sample ID: MG9AR3**			**Date: 11/10/2015**		**00:18:13**	**Dilution:**	**1**
156· Sample ID: QK02005-018	**EPA Sample ID: MG9AR4**			**Date: 11/10/2015**		**00:23:03**	**Dilution:**	**1**
157· Sample ID: QK02005-019	**EPA Sample ID: MG9AR5**			**Date: 11/10/2015**		**00:27:54**	**Dilution:**	**1**
158· Sample ID: QK02005-020	**EPA Sample ID: MG9AR6**			**Date: 11/10/2015**		**00:32:43**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
159· Sample ID:	**CCV8**	**EPA Sample ID:**	**CCV ISM-515**		**Date:**	**11/10/2015**	**00:37:31**	**Dilution:**	**1**
Na5895	RECOVERY IS OUT OF CRITERIA		28107.0000	100000	25000.0	112.0	1.00	516.00	5000.00
Hardness	RECOVERY IS OUT OF CRITERIA		339.9731	1984500	750.0	45.0	0.00	1463.50	33.10
160· Sample ID:	**CCB8**	**EPA Sample ID:**	**CCB**		**Date:**	**11/10/2015**	**00:42:39**	**Dilution:**	**1**

Analyst: KDB
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1456

Prep Batch: 89047

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/07/2015 1249
End Date: 11/07/2015 1747
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0/5.0/10.0/10.0
Filter Paper Lot Num: 50630758
Chem ID: IM6310-01(1/16)/15-1042(7/17)/15-1127(9/18)
Balance ID: Balance #3
Hot Block ID: Hot Block #4
Digestion Temperature (C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89047-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ89047-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			pipette #247
QJ31005-001	Sample	MBC765	2	ISM02.2 ICP	1.3430		0.0	100	04/26/2016 0945	11/04/2015	
QJ31005-001MS	MS	MBC765S	2	ISM02.2 ICP	1.0770	15-934(10/16)	1.0	100			pipette #247
QJ31005-001DU	Duplicate	MBC765D	2	ISM02.2 ICP	1.1570		0.0	100			
QJ31005-002	Sample	MBC766	2	ISM02.2 ICP	1.1870		0.0	100	04/26/2016 1040	11/04/2015	
QJ31005-003	Sample	MBC767	2	ISM02.2 ICP	1.2830		0.0	100	04/26/2016 1135	11/04/2015	
QJ31005-004	Sample	MBC768	2	ISM02.2 ICP	1.1220		0.0	100	04/26/2016 1235	11/04/2015	
QJ31005-005	Sample	MBC769	2	ISM02.2 ICP	1.1600		0.0	100	04/26/2016 1335	11/04/2015	
QJ31005-006	Sample	MBC770	2	ISM02.2 ICP	1.4980		0.0	100	04/27/2016 0850	11/04/2015	
QJ31005-007	Sample	MBC771	2	ISM02.2 ICP	1.1370		0.0	100	04/26/2016 1530	11/04/2015	
QJ31005-008	Sample	MBC774	2	ISM02.2 ICP	1.0710		0.0	100	04/27/2016 1010	11/04/2015	
QJ31005-009	Sample	MBC7D5	2	ISM02.2 ICP	1.2490		0.0	100	04/26/2016 0940	11/04/2015	
QJ31005-010	Sample	MBC7D6	2	ISM02.2 ICP	1.2720		0.0	100	04/26/2016 0935	11/04/2015	
QJ31005-011	Sample	MBC7D7	2	ISM02.2 ICP	1.0660		0.0	100	04/26/2016 1050	11/04/2015	
QJ31005-012	Sample	MBC7D8	2	ISM02.2 ICP	1.3220		0.0	100	04/26/2016 1055	11/04/2015	
QJ31005-013	Sample	MBC7D9	2	ISM02.2 ICP	1.1470		0.0	100	04/26/2016 1130	11/04/2015	
QJ31005-014	Sample	MBC7E0	2	ISM02.2 ICP	1.3330		0.0	100	04/26/2016 1125	11/04/2015	
QJ31005-015	Sample	MBC7E1	2	ISM02.2 ICP	1.0910		0.0	100	04/26/2016 1230	11/04/2015	
QJ31005-016	Sample	MBC7E2	2	ISM02.2 ICP	1.3860		0.0	100	04/26/2016 1225	11/04/2015	
QJ31005-017	Sample	MBC7E3	2	ISM02.2 ICP	1.1820		0.0	100	04/26/2016 1340	11/04/2015	
QJ31005-018	Sample	MBC7E4	2	ISM02.2 ICP	1.0270		0.0	100	04/26/2016 1345	11/04/2015	
QJ31005-019	Sample	MBC7E5	2	ISM02.2 ICP	1.3600		0.0	100	04/27/2016 0855	11/04/2015	
QJ31005-020	Sample	MBC7E6	2	ISM02.2 ICP	1.4450		0.0	100	04/27/2016 0900	11/04/2015	

Analyst: KDB
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1456

Prep Batch: 89047

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/07/2015 1249
End Date: 11/07/2015 1747

Level 2 Analyst: FTS

Digestion Cup ID: 1504103

Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0/5.0/10.0/10.0

Filter Paper Lot Num: 50630758

Chem ID: IM6310-01(1/16)/15-1042(7/17)/15-1127(9/18)
Balance ID: Balance #3
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report)

Total Samples: 20

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: S09 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Element Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver					
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RKT		Working Standard No.: ISM-457			
Date: 10-8-15		Solvent: 5% HCl (15-929) 5% HNO3 (15-931)			
Comments: S10 ICP		Expires 1-8-16			
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-8-15

RKT 10-8-15

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-458 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S01 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese		15			15
Molybdenum	15-79	50			50
Nickel	15-76	40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-459 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.8	200	800
Antimony	15-78	60			240
Arsenic	15-76	10			40
Barium		200			800
Beryllium		5			20
Cadmium		5			20
Calcium		5000			20000
Chromium		10			40
Cobalt		50			200
Copper		25			100
Iron		100			400
Lead		10			40
Magnesium		5000			20000
Manganese		15			60
Molybdenum	15-79	50	0.4		100
Nickel	15-76	40	0.8		160
Potassium		5000			20000
Selenium		35			140
Silver		10			40
Sodium		3000			12000
Thallium		25			100
Titanium	15-79	50	0.4		100
Vanadium	15-76	50	0.8		200
Zinc		60			240

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-461 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S04 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	NA	NA	NA	NA	NA
Antimony	15-77	500	1.5	200	3750
Arsenic	15-81	500	↓	↓	3750
Barium	↓	2000	↓	↓	15000 ECS 10/14/15
Beryllium	↓	200	↓	↓	1500
Cadmium	↓	200	↓	↓	1500
Calcium	NA	NA	NA	NA	NA
Chromium	15-81	2000	1.5	200	15000
Cobalt	↓	1000	↓	↓	7500
Copper	↓	2500	↓	↓	18750
Iron	NA	NA	NA	NA	NA
Lead	15-81	2000	1.5	200	15000
Magnesium	NA	NA	NA	NA	NA
Manganese	15-81	1000	1.5	200	7500
Molybdenum	15-80	200	↓	↓	1500
Nickel	15-81	1000	↓	↓	7500
Potassium	NA	NA	NA	NA	NA
Selenium	15-81	250	1.5	200	1875
Silver	↓	150	↓	↓	1125
Sodium	NA	NA	NA	NA	NA
Thallium	15-81	200	1.5	200	1500
Titanium	15-80	200	↓	↓	1500
Vanadium	15-81	500	↓	↓	3750
Zinc	↓	1000	↓	↓	7500

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-462 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOS ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	NA	NA	NA	NA	NA
Antimony	15-77	500	2	200	5000
Arsenic	15-81	500	↓	↓	5000
Barium	↓	2000	↓	↓	20000
Beryllium	↓	200	↓	↓	2000
Cadmium	↓	200	↓	↓	2000
Calcium	NA	NA	NA	NA	NA
Chromium	15-81	2000	2	200	20000
Cobalt	↓	1000	↓	↓	10000
Copper	↓	2500	↓	↓	25000
Iron	NA	NA	NA	NA	NA
Lead	15-81	2000	2	200	20000
Magnesium	NA	NA	NA	NA	NA
Manganese	15-81	1000	2	200	10000
Molybdenum	15-80	200	↓	↓	2000
Nickel	15-81	1000	↓	↓	10000
Potassium	NA	NA	NA	NA	NA
Selenium	15-81	250	2	200	2500
Silver	↓	150	↓	↓	1500
Sodium	NA	NA	NA	NA	NA
Thallium	15-81	200	2	200	2000
Titanium	15-80	200	↓	↓	2000
Vanadium	15-81	500	↓	↓	5000
Zinc	↓	1000	↓	↓	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO3 (15-1042) ECS 10/14/15
Comments: 507 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 ~~NA~~	↓	↓
Nickel	↓	↓	NA	↓	↓
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOP ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel					
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-467 (exp 11/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICSA ICP	* Provided by the EPA. No true value given by the EPA.

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	14-1033	*	10	100	100700
Lead	NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	↓	↓	↓	↓	↓
Selenium	↓	↓	↓	↓	↓
Silver	↓	↓	↓	↓	↓
Sodium	↓	↓	↓	↓	↓
Thallium	↓	↓	↓	↓	↓
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-468 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICSAB ICP	* provided by the EPA. No true value given by the EPA.

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1034 +14-1033	*	10/10	100	246800
Antimony			10		618
Arsenic					104
Barium					537
Beryllium					495
Cadmium					972
Calcium	+14-1033		10/10		234900
Chromium			10		542
Cobalt					476
Copper					571
Iron	+14-1033		10/10		99320
Lead			10		49
Magnesium	+14-1033		10/10		248000
Manganese			10		507
Molybdenum	NA	NA	NA	NA	NA
Nickel	14-1034	*	10	100	954
Potassium	NA	NA	NA	NA	NA
Selenium	14-1034	*	10	100	46
Silver					201
Sodium	NA	NA	NA	NA	NA
Thallium	14-1034	*	10	100	108
Titanium	NA	NA	NA	NA	NA
Vanadium	14-1034	*	10	100	491
Zinc					952

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	↓	↓	↓	↓	994
Arsenic	↓	↓	↓	↓	999
Barium	↓	↓	↓	↓	497
Beryllium	↓	↓	↓	↓	495
Cadmium	↓	↓	↓	↓	496
Calcium	↓	↓	↓	↓	10026
Chromium	↓	↓	↓	↓	490
Cobalt	↓	↓	↓	↓	499
Copper	↓	↓	↓	↓	492
Iron	↓	↓	↓	↓	5082
Lead	↓	↓	↓	↓	1002
Magnesium	↓	↓	↓	↓	6074
Manganese	↓	↓	↓	↓	499
Molybdenum	NA	NA	↓	NA	NA
Nickel	15-135	*	↓	200	503
Potassium	↓	↓	↓	↓	10021
Selenium	↓	↓	↓	↓	1029
Silver	↓	↓	↓	↓	501
Sodium	↓	↓	↓	↓	10097
Thallium	↓	↓	↓	↓	1028
Titanium	NA	NA	↓	NA	NA
Vanadium	15-135	*	↓	200	501
Zinc	↓	↓	↓	↓	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-515
Date:	11/4/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	S03/CCV ICP		

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-377	10000	2.5	500	50000
Antimony	15-77	500	↓	↓	2500
Arsenic	15-81	500	↓	↓	2500
Barium	↓	2000	↓	↓	10000
Beryllium	↓	200	↓	↓	1000
Cadmium	↓	200	↓	↓	1000
Calcium	15-377	10000	↓	↓	50000
Chromium	15-81	2000	↓	↓	10000
Cobalt	↓	1000	↓	↓	5000
Copper	↓	2500	↓	↓	12500
Iron	15-377	5000	↓	↓	25000
Lead	15-81	2000	↓	↓	10000
Magnesium	15-377	10000	↓	↓	50000
Manganese	15-81	1000	↓	↓	5000
Molybdenum	15-80	200	↓	↓	1000
Nickel	15-81	1000	↓	↓	5000
Potassium	15-377	7500	↓	↓	37500
Selenium	15-81	250	↓	↓	1250
Silver	↓	150	↓	↓	750
Sodium	15-377	5000	↓	↓	25000
Thallium	15-81	200	↓	↓	1000
Titanium	15-80	200	↓	↓	1000
Vanadium	15-81	500	↓	↓	2500
Zinc	↓	1000	↓	↓	5000

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In

Contract: EPW14035

Lab Code: EQI

Case No: 45717

MA No.:

SDG No: MBC765

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC765	QJ31005-001			X	
MBC765D	QJ31005-001DU			X	
MBC765S	QJ31005-001MS			X	
MBC766	QJ31005-002			X	
MBC767	QJ31005-003			X	
MBC768	QJ31005-004			X	
MBC769	QJ31005-005			X	
MBC770	QJ31005-006			X	
MBC771	QJ31005-007			X	
MBC774	QJ31005-008			X	
MBC7D5	QJ31005-009			X	
MBC7D6	QJ31005-010			X	
MBC7D7	QJ31005-011			X	
MBC7D8	QJ31005-012			X	
MBC7D9	QJ31005-013			X	
MBC7E0	QJ31005-014			X	
MBC7E1	QJ31005-015			X	
MBC7E2	QJ31005-016			X	
MBC7E3	QJ31005-017			X	
MBC7E4	QJ31005-018			X	
MBC7E5	QJ31005-019			X	
MBC7E6	QJ31005-020			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert

Name: Robert Zhu

Date: 11/10/2015

Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC765

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-001

% Solids: 74.6 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.14	J	11/05/2015	15:08:41

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC766

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-002

% Solids: 94.2 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.059	J	11/05/2015	15:15:23

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC767

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-003

% Solids: 83.8 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.82		11/05/2015	15:17:23

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC768

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-004

% Solids: 83.8 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.080	J	11/05/2015	15:19:23

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC769

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-005

% Solids: 84.3 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.44		11/05/2015	15:21:29

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC770

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-006

% Solids: 88.3 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.3		11/05/2015	15:23:30

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC771

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-007

% Solids: 87.9 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.46		11/05/2015	15:25:31

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC774

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-008

% Solids: 86.5 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.39		11/05/2015	15:31:33

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-009

% Solids: 74.7 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.061	J	11/05/2015	15:34:04

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-010

% Solids: 76.5 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.045	J	11/05/2015	15:36:14

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-011

% Solids: 83.1 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.031	J	11/05/2015	15:38:36

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-012

% Solids: 84.9 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.012	J	11/05/2015	15:40:39

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-013

% Solids: 86.8 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12	J	11/05/2015	15:43:10

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-014

% Solids: 87.2 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.014	J	11/05/2015	15:45:50

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-015

% Solids: 61.8 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.6		11/05/2015	15:48:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-016

% Solids: 85.7 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.057	J	11/05/2015	15:51:26

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-017

% Solids: 84.1 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.66		11/05/2015	15:53:27

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-018

% Solids: 87.0 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J	11/05/2015	16:00:40

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-019

% Solids: 76.5 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13	J	11/05/2015	16:02:51

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Lab Sample ID: QJ31005-020

% Solids: 85.3 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.068	J	11/05/2015	16:04:53

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

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3110515B - Copy Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.3	108		5.0	5.1	102		5.1	102	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3110515B - Copy Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.2	104		5.1	102	

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: CVAA Preparation Batch: 88496

Run Batch: HG3110515B - Copy Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3110515B - Copy Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID:	Q	ID:	Q	ID:	Q
Mercury			0.20	U						

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC765S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 74.6

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	0.94		0.14	J	0.78	103	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC765D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Matrix: SOIL Analytical Method: CVAA

% Solids: 74.6

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury	0.14	0.14	J	0.19		30	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

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		
S01	1.0	1442															X											
S02	1.0	1444															X											
S03	1.0	1447															X											
S04	1.0	1449															X											
S05	1.0	1451															X											
S06	1.0	1453															X											
ICV001	1.0	1456															X											
ICB001	1.0	1458															X											
CCV001	1.0	1502															X											
CCB001	1.0	1504															X											
PBS	1.0	1506															X											
MBC765	1.0	1508															X											
MBC765S	1.0	1510															X											
MBC765D	1.0	1513															X											
MBC766	1.0	1515															X											
MBC767	1.0	1517															X											
MBC768	1.0	1519															X											
MBC769	1.0	1521															X											
MBC770	1.0	1523															X											
MBC771	1.0	1525															X											
CCV002	1.0	1527															X											
CCB002	1.0	1529															X											
MBC774	1.0	1531															X											
MBC7D5	1.0	1534															X											
MBC7D6	1.0	1536															X											
MBC7D7	1.0	1538															X											
MBC7D8	1.0	1540															X											
MBC7D9	1.0	1543															X											
MBC7E0	1.0	1545															X											
MBC7E1	1.0	1548															X											
MBC7E2	1.0	1551															X											
MBC7E3	1.0	1553															X											
CCV003	1.0	1555															X											
CCB003	1.0	1557															X											
MBC7E4	1.0	1600															X											
MBC7E5	1.0	1602															X											
MBC7E6	1.0	1604															X											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

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		
ZZZZZZ	1.0	1607																										
ZZZZZZ	1.0	1609																										
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1613																										
ZZZZZZ	1.0	1615																										
ZZZZZZ	1.0	1618																										
ZZZZZZ	1.0	1620																										
CCV004	1.0	1622															X											
CCB004	1.0	1625															X											
ZZZZZZ	1.0	1627																										
ZZZZZZ	1.0	1629																										
ZZZZZZ	1.0	1631																										
ZZZZZZ	1.0	1633																										
ZZZZZZ	5.0	1637																										
ZZZZZZ	1.0	1639																										
ZZZZZZ	1.0	1641																										
ZZZZZZ	1.0	1644																										
ZZZZZZ	1.0	1646																										
ZZZZZZ	1.0	1649																										
ZZZZZZ	1.0	1651																										
ZZZZZZ	1.0	1653																										
ZZZZZZ	1.0	1655																										
ZZZZZZ	1.0	1657																										
ZZZZZZ	1.0	1700																										
ZZZZZZ	1.0	1702																										
ZZZZZZ	1.0	1704																										
ZZZZZZ	1.0	1706																										
ZZZZZZ	1.0	1708																										
ZZZZZZ	1.0	1710																										
ZZZZZZ	1.0	1712																										
ZZZZZZ	1.0	1714																										
ZZZZZZ	1.0	1716																										
ZZZZZZ	1.0	1719																										
ZZZZZZ	1.0	1721																										
ZZZZZZ	1.0	1723																										
ZZZZZZ	10	1725																										
ZZZZZZ	1.0	1728																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

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		
ZZZZZZ	1.0	1730																										
ZZZZZZ	1.0	1732																										
ZZZZZZ	1.0	1735																										
ZZZZZZ	1.0	1737																										
ZZZZZZ	1.0	1740																										
ZZZZZZ	1.0	1742																										
ZZZZZZ	1.0	1744																										
ZZZZZZ	1.0	1746																										
ZZZZZZ	1.0	1748																										
ZZZZZZ	1.0	1750																										
ZZZZZZ	1.0	1752																										
ZZZZZZ	1.0	1754																										
ZZZZZZ	1.0	1757																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1801																										
ZZZZZZ	1.0	1803																										
ZZZZZZ	1.0	1805																										
ZZZZZZ	1.0	1807																										
ZZZZZZ	34	1809																										
ZZZZZZ	1.0	1811																										
ZZZZZZ	1.0	1813																										
ZZZZZZ	1.0	1816																										
ZZZZZZ	1.0	1818																										
ZZZZZZ	1.0	1820																										
ZZZZZZ	1.0	1822																										
ZZZZZZ	1.0	1825																										
ZZZZZZ	1.0	1827																										
ZZZZZZ	1.0	1829																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1833																										
ZZZZZZ	1.0	1836																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

Instrument ID: Hg3 **Start Date:** 11/5/2015

Analytical Method: CVAA **Run Batch:** HG3110515B - Copy

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	-0.014	0	0.200	0.18	-10	0.500	0.49	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC765

Instrument ID: Hg3 Start Date: 11/5/2015

Analytical Method: CVAA Run Batch: HG3110515B - Copy

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	3	5.00	5.0	1	10.0	10.0	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC765

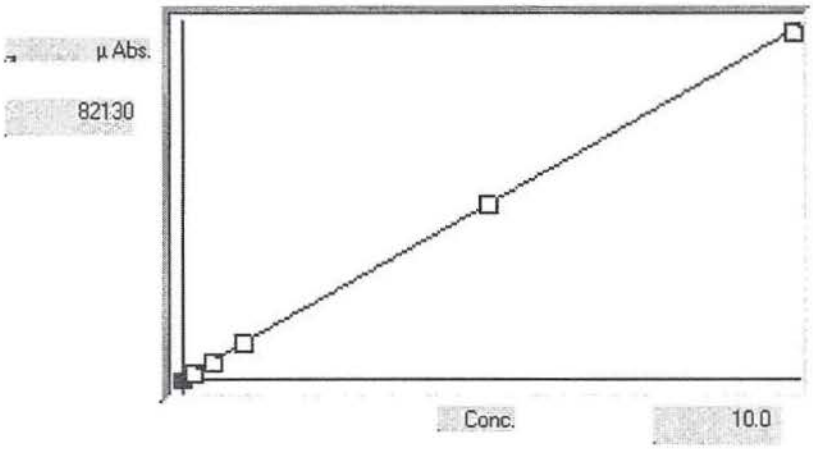
Instrument ID: Hg3 **Start Date:** 11/5/2015

Analytical Method: CVAA **Run Batch:** HG3110515B - Copy

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.00	-0.0235	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



Linear

Calibrated

Accepted

A

B 1.21766e-4

C -2.35479e-2

Rhc .999977

Accepted Date: 05-Nov-15 14:54

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.014	-.014	81	0	80				
02	.20000	.181	-.019	1679	0%	1678				
03	.50000	.488	-.012	4203	0%	4202				
04	1.0000	1.03	.026	8619	0%	8619				
05	5.0000	5.04	.042	41600	0%	41600				
06	10.000	9.98	-.023	82131	0%	82130				
07										
08										
09										
10										

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1        S0   Seq:  21      14:42:51 05 Nov 15   HG

Hg    .000    ppb      80

*** Standard: 2 Rep: 1        S01  Seq:  22      14:44:51 05 Nov 15   HG

Hg    .200    ppb      1678

*** Standard: 3 Rep: 1             Seq:  23      14:47:02 05 Nov 15   HG

Hg    .500    ppb      4202 S02

*** Standard: 4 Rep: 1             Seq:  24      14:49:32 05 Nov 15   HG

Hg    1.00    ppb      8619 S03

*** Standard: 5 Rep: 1             Seq:  25      14:51:32 05 Nov 15   HG

Hg    5.00    ppb      41600 S04

*** Standard: 6 Rep: 1             Seq:  26      14:53:42 05 Nov 15   HG

Hg    10.0    ppb      82130 S05

*** Check Standard: 3  Ck3ICV      Seq:  27      14:56:10 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     4.26    4.00  ppb         .000  %

*** Check Standard: 1  Ck1blank ICB Seq:  28      14:58:20 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.011     .199     ppb        .000  %

*** Check Standard: 4  Ck4CCV CCV001 Seq:  29      15:02:04 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00  ppb         .000  %

*** Check Standard: 1  Ck1blank CCB001 Seq:  30    15:04:18 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.092     .199     ppb        .000  %

*** Sample ID: QQ88496001 110515C    Seq:  31      15:06:17 05 Nov 15   HG
                          PBS
Hg   -.084    ppb       .000  %  -.084

=============================================================================
*** Sample ID: QJ31005001 110515C    Seq:  32      15:08:41 05 Nov 15   HG
                          MBC765
Hg    .530    ppb       .000  %   .530
                                                                          =
*** Sample ID: QJ31005001 110515C    Seq:  33      15:10:50 05 Nov 15   HG
                          MBC765S
Hg    3.63    ppb       .000  %   3.63
                                                                          =
*** Sample ID: QJ31005001 110515C    Seq:  34      15:13:22 05 Nov 15   HG
                          MBC765D
Hg    .854    ppb       .000  %   .854
                                                                          =
=============================================================================
*** Sample ID: QJ31005002 110515C    Seq:  35      15:15:23 05 Nov 15   HG
                          MBC766
Hg    .327    ppb       .000  %   .327
                                                                          =
=============================================================================
```


PG 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ31005003 110515C    Seq:  36     15:17:23 05 Nov 15   HG
                          MBC767
Hg    4.00    ppb       .000  %   4.00
                                                                          =
=============================================================================
*** Sample ID: QJ31005004 110515C    Seq:  37     15:19:23 05 Nov 15   HG
                          MBC768
Hg    .350    ppb       .000  %   .350
                                                                          =
=============================================================================
*** Sample ID: QJ31005005 110515C    Seq:  38     15:21:29 05 Nov 15   HG
                          MBC769
Hg    1.87    ppb       .000  %   1.87
                                                                          =
=============================================================================
*** Sample ID: QJ31005006 110515C    Seq:  39     15:23:30 05 Nov 15   HG
                          MBC770
Hg    5.74    ppb       .000  %   5.74
                                                                          =
=============================================================================
*** Sample ID: QJ31005007 110515C    Seq:  40     15:25:31 05 Nov 15   HG
                          MBC771
Hg    2.14    ppb       .000  %   2.14
                                                                          =
*** Check Standard: 4  Ck4CCV CCV002 Seq:  41     15:27:31 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.12    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CLB002 Seq:  42     15:29:33 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.037     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ31005008 110515C    Seq:  43     15:31:33 05 Nov 15   HG
                          MBC774
Hg    1.91    ppb       .000  %   1.91
                                                                          =
=============================================================================
*** Sample ID: QJ31005009 110515C    Seq:  44     15:34:04 05 Nov 15   HG
                          MBC7D5
Hg    .241    ppb       .000  %   .241
                                                                          =
=============================================================================
*** Sample ID: QJ31005010 110515C    Seq:  45     15:36:14 05 Nov 15   HG
                          MBC7D6
Hg    .204    ppb       .000  %   .204
                                                                          =
=============================================================================
*** Sample ID: QJ31005011 110515C    Seq:  46     15:38:36 05 Nov 15   HG
                          MBC7D7
Hg    .140    ppb       .000  %   .140
                                                                          =
=============================================================================
*** Sample ID: QJ31005012 110515C    Seq:  47     15:40:39 05 Nov 15   HG
                          MBC7D8
Hg    .061    ppb       .000  %   .061
                                                                          =
=============================================================================
*** Sample ID: QJ31005013 110515C    Seq:  48     15:43:10 05 Nov 15   HG
                          MBC7D9
Hg    .590    ppb       .000  %   .590
                                                                          =
=============================================================================
```

 FU 11/10/15

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ31005014 110515C    Seq:  49     15:45:50 05 Nov 15   HG
                          MBC7E0
Hg    .069    ppb       .000  %   .069
                                                                        =
=============================================================================
*** Sample ID: QJ31005015 110515C    Seq:  50     15:48:24 05 Nov 15   HG
                          MBC7E1
Hg    5.75    ppb       .000  %   5.75
                                                                        =
=============================================================================
*** Sample ID: QJ31005016 110515C    Seq:  51     15:51:26 05 Nov 15   HG
                          MBC7E2
Hg    .250    ppb       .000  %   .250
                                                                        =
=============================================================================
*** Sample ID: QJ31005017 110515C    Seq:  52     15:53:27 05 Nov 15   HG
                          MBC7E3
Hg    2.95    ppb       .000  %   2.95
                                                                        =
*** Check Standard: 4  Ck4CCV CCV003  Seq:  53     15:55:43 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.17    5.00  ppb        .000  %
                                                                        =
*** Check Standard: 1  Ck1blank CCB003 Seq:  54     15:57:46 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.030     .199     ppb        .000  %
                                                                        =
*** Sample ID: QJ31005018 110515C    Seq:  55     16:00:40 05 Nov 15   HG
                          MBC7E4
Hg    .222    ppb       .000  %   .222
                                                                        =
=============================================================================
*** Sample ID: QJ31005019 110515C    Seq:  56     16:02:51 05 Nov 15   HG
                          MBC7E5
Hg    .535    ppb       .000  %   .535
                                                                        =
=============================================================================
*** Sample ID: QJ31005020 110515C    Seq:  57     16:04:53 05 Nov 15   HG
                          MBC7E6
Hg    .348    ppb       .000  %   .348
                                                                        =
=============================================================================
*** Sample ID: QQ88502001 110515C    Seq:  58     16:07:36 05 Nov 15   HG
                          PBS
Hg    .056    ppb       .000  %   .056
                                                                        =
=============================================================================
*** Sample ID: QJ31006001 110515C    Seq:  59     16:09:35 05 Nov 15   HG
                          MCB7E7
Hg    .777    ppb       .000  %   .777
                                                                        =
*** Sample ID: QJ31006001 110515C    Seq:  60     16:11:36 05 Nov 15   HG
                          MCB7E7S
Hg    4.16    ppb       .000  %   4.16
                                                                        =
*** Sample ID: QJ31006001 110515C    Seq:  61     16:13:39 05 Nov 15   HG
                          MCB7E7D
Hg    .631    ppb       .000  %   .631
                                                                        =
=============================================================================
*** Sample ID: QJ31006002 110515C    Seq:  62     16:15:59 05 Nov 15   HG
                          MCB7E8
Hg    .340    ppb       .000  %   .340
=============================================================================
```


FS 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ31006003 110515C    Seq:  63     16:18:00 05 Nov 15   HG
                          MCB7F0
Hg    1.56    ppb       .000  %   1.56
                                                                          =
==============================================================================
*** Sample ID: QJ31006004 110515C    Seq:  64     16:20:22 05 Nov 15   HG
                          MCB7F2
Hg    .013    ppb       .000  %   .013
                                                                          =
*** Check Standard: 4  Ck4CCV CCV004 Seq:  65     16:22:23 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB004 Seq:  66     16:25:05 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.011     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ31006005 110515C    Seq:  67     16:27:16 05 Nov 15   HG
                          MCB7F3
Hg    .511    ppb       .000  %   .511
                                                                          =
==============================================================================
*** Sample ID: QJ31006006 110515C    Seq:  68     16:29:41 05 Nov 15   HG
                          MCB7H1
Hg    1.19    ppb       .000  %   1.19
                                                                          =
==============================================================================
*** Sample ID: QJ31006007 110515C    Seq:  69     16:31:46 05 Nov 15   HG
                          MCB7H2
Hg    11.5    ppb       .000  %   11.5
                                                                          =
==============================================================================
*** Sample ID: QJ31006008 110515C    Seq:  70     16:33:47 05 Nov 15   HG
                          MCB7H3
Hg    .353    ppb       .000  %   .353
                                                                          =
==============================================================================
*** Sample ID: QJ31006007 110515C    Seq:  71     16:37:36 05 Nov 15   HG
                          MCB7H2(5)
Hg    1.87    ppb       .000  %   1.87
                                                                          =
*** Check Standard: 4  Ck4CCV CCV005 Seq:  72     16:39:41 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.03    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB005 Seq:  73     16:41:39 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.059     .199     ppb        .000  %
                                                                          =
*** Sample ID: QQ88821001            Seq:  74     16:44:34 05 Nov 15   HG
                          QQ88821001
Hg   -.007    ppb       .000  %  -.007
                                                                          =
==============================================================================
*** Sample ID: QQ88821002            Seq:  75     16:46:38 05 Nov 15   HG
                          QQ88821002
Hg    3.08    ppb       .000  %   3.08
                                                                          =
==============================================================================
*** Sample ID: QJ31002001            Seq:  76     16:49:21 05 Nov 15   HG
                          88821
Hg    .057    ppb       .000  %   .057
                                                                          =
==============================================================================
```

PB 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ31002002            Seq:  77     16:51:25 05 Nov 15   HG
                              88821
Hg    .008    ppb       .000  %   .008
                                                                          =
==============================================================================
*** Sample ID: QJ31002004            Seq:  78     16:53:36 05 Nov 15   HG
                              88821
Hg    .004    ppb       .000  %   .004
                                                                          =
==============================================================================
*** Sample ID: QJ31002005            Seq:  79     16:55:39 05 Nov 15   HG
                              88821
Hg   -.007    ppb       .000  %  -.007
                                                                          =
==============================================================================
*** Sample ID: QJ31002006            Seq:  80     16:57:52 05 Nov 15   HG
                              88821
Hg    .123    ppb       .000  %   .123
                                                                          =
==============================================================================
*** Sample ID: QJ31002007            Seq:  81     17:00:06 05 Nov 15   HG
                              88821
Hg    .020    ppb       .000  %   .020
                                                                          =
==============================================================================
*** Sample ID: QJ31002008            Seq:  82     17:02:08 05 Nov 15   HG
                              88821
Hg    .012    ppb       .000  %   .012
                                                                          =
==============================================================================
*** Sample ID: QJ31002009            Seq:  83     17:04:19 05 Nov 15   HG
                              88821
Hg    .003    ppb       .000  %   .003
                                                                          =
*** Check Standard: 4  Ck4CCV CCV0006 Seq:  84     17:06:20 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.05    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB0006 Seq:  85     17:08:21 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.032     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ30030002            Seq:  86     17:10:41 05 Nov 15   HG
                              88821
Hg    3.59    ppb       .000  %   3.59
                                                                          =
*** Sample ID: QJ30030002            Seq:  87     17:12:44 05 Nov 15   HG
                              88821MS
Hg    6.59    ppb       .000  %   6.59
                                                                          =
*** Sample ID: QJ30030002            Seq:  88     17:14:46 05 Nov 15   HG
                              88821MSD
Hg    6.95    ppb       .000  %   6.95
                                                                          =
==============================================================================
*** Sample ID: QJ30030003            Seq:  89     17:16:49 05 Nov 15   HG
                              88821
Hg    4.08    ppb       .000  %   4.08
                                                                          =
==============================================================================
*** Sample ID: QK04054008            Seq:  90     17:19:19 05 Nov 15   HG
                              88821
Hg   -.022    ppb       .000  %  -.022
                                                                          =
==============================================================================
```


PTO 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QK03060001            Seq:  91     17:21:21 05 Nov 15   HG
                            88821
Hg   -.019    ppb       .000  %  -.019
                                                                          =
==============================================================================
*** Sample ID: QK04018001            Seq:  92     17:23:45 05 Nov 15   HG
                            88821(10)
Hg    .983    ppb       .000  %   .983
                                                                          =
==============================================================================
*** Sample ID: QK04019001            Seq:  93     17:25:57 05 Nov 15   HG
                            88821(5)
Hg    .339    ppb       .000  %   .339
                                                                          =
==============================================================================
*** Sample ID: QQ88820001            Seq:  94     17:28:06 05 Nov 15   HG
                            QQ88820001
Hg   -.009    ppb       .000  %  -.009
                                                                          =
==============================================================================
*** Sample ID: QQ88820002            Seq:  95     17:30:10 05 Nov 15   HG
                            QQ88820002
Hg    3.06    ppb       .000  %   3.06
                                                                          =
*** Check Standard: 4  Ck4CCV CCV007 Seq:  96     17:32:45 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.6     4.98    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB007 Seq:  97     17:35:25 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.017     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ30006009            Seq:  98     17:37:29 05 Nov 15   HG
                            88820
Hg    .096    ppb       .000  %   .096
                                                                          =
==============================================================================
*** Sample ID: QJ30006010            Seq:  99     17:40:06 05 Nov 15   HG
                            88820
Hg    .121    ppb       .000  %   .121
                                                                          =
==============================================================================
*** Sample ID: QJ30006011            Seq:  100    17:42:08 05 Nov 15   HG
                            88820
Hg    .089    ppb       .000  %   .089
                                                                          =
==============================================================================
*** Sample ID: QJ30006012            Seq:  101    17:44:09 05 Nov 15   HG
                            88820
Hg    .110    ppb       .000  %   .110
                                                                          =
==============================================================================
*** Sample ID: QJ30006013            Seq:  102    17:46:21 05 Nov 15   HG
                            88820
Hg    .081    ppb       .000  %   .081
                                                                          =
==============================================================================
*** Sample ID: QJ30006014            Seq:  103    17:48:26 05 Nov 15   HG
                            88820
Hg    .078    ppb       .000  %   .078
                                                                          =
==============================================================================
```

 CCV 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ30006015            Seq:  104    17:50:29 05 Nov 15   HG
                            88820
Hg    .105    ppb       .000  %   .105
                                                                          =
=============================================================================
*** Sample ID: QJ30006016            Seq:  105    17:52:44 05 Nov 15   HG
                            88820
Hg    3.37    ppb       .000  %   3.37
                                                                          =
*** Sample ID: QJ30006016            Seq:  106    17:54:51 05 Nov 15   HG
                            88820MS
Hg    3.36    ppb       .000  %   3.36
                                                                          =
*** Sample ID: QJ30006016            Seq:  107    17:57:14 05 Nov 15   HG
                            88820MSD
Hg    .175    ppb       .000  %   .175
                                                                          =
*** Check Standard: 4  Ck4CCV CCV008 Seq:  108    17:59:20 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.05    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB008 Seq:  109    18:01:21 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.041     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ30006017            Seq:  110    18:03:20 05 Nov 15   HG
                            88820
Hg    .152    ppb       .000  %   .152
                                                                          =
=============================================================================
*** Sample ID: QJ30006018            Seq:  111    18:05:25 05 Nov 15   HG
                            88820
Hg    .182    ppb       .000  %   .182
                                                                          =
=============================================================================
*** Sample ID: QJ30006019            Seq:  112    18:07:30 05 Nov 15   HG
                            88820
Hg    .208    ppb       .000  %   .208
                                                                          =
=============================================================================
*** Sample ID: QJ30006020            Seq:  113    18:09:33 05 Nov 15   HG
                            88820
Hg    .092    ppb       .000  %   .092
                                                                          =
=============================================================================
*** Sample ID: QJ30006021            Seq:  114    18:11:35 05 Nov 15   HG
                            88820
Hg    .203    ppb       .000  %   .203
                                                                          =
=============================================================================
*** Sample ID: QJ30006022            Seq:  115    18:13:39 05 Nov 15   HG
                            88820
Hg    3.32    ppb       .000  %   3.32
                                                                          =
*** Sample ID: QJ30006022            Seq:  116    18:16:11 05 Nov 15   HG
                            88820
Hg    3.27    ppb       .000  %   3.27
                                                                          =
*** Sample ID: QJ30006022            Seq:  117    18:18:13 05 Nov 15   HG
                            88820
Hg    .050    ppb       .000  %   .050
                                                                          =
=============================================================================
```


PTB 11/10/15

Protocol: HG3ISMS

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: QJ20017021            Seq:  118    18:20:15 05 Nov 15   HG
                            88820
Hg    .027    ppb       .000  %   .027
                                                                          =
==============================================================================
*** Sample ID: QJ20017022            Seq:  119    18:22:38 05 Nov 15   HG
                            88820
Hg    19.4    ppb       .000  %   19.4
                                                                          =
*** Check Standard: 4  Ck4CCV CCV009 Seq:  120    18:25:24 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.7     4.99    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank CCB009 Seq:  121    18:27:25 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.035     .199     ppb        .000  %
                                                                          =
*** Sample ID: QJ20017023            Seq:  122    18:29:28 05 Nov 15   HG
                            88820
Hg    .009    ppb       .000  %   .009
                                                                          =
==============================================================================
*** Sample ID: QJ20017024            Seq:  123    18:31:30 05 Nov 15   HG
                            88820
Hg   -.012    ppb       .000  %  -.012
                                                                          =
*** Check Standard: 4  Ck4CCV        Seq:  124    18:33:43 05 Nov 15   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.8     4.94    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 1  Ck1blank      Seq:  125    18:36:32 05 Nov 15   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.016     .199     ppb        .000  %
                                                                          =
```

FP 11/10/15

Mercury Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3110515B - Copy***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	Sample ID:	Std01Rep1	EPA Sample ID:	S01		Date:	11/5/2015	14:42:51	Dilution:	1
2·	Sample ID:	Std02Rep1	EPA Sample ID:	S02		Date:	11/5/2015	14:44:51	Dilution:	1
3·	Sample ID:	Std03Rep1	EPA Sample ID:	S03		Date:	11/5/2015	14:47:02	Dilution:	1
4·	Sample ID:	Std04Rep1	EPA Sample ID:	S04		Date:	11/5/2015	14:49:32	Dilution:	1
5·	Sample ID:	Std05Rep1	EPA Sample ID:	S05		Date:	11/5/2015	14:51:32	Dilution:	1
6·	Sample ID:	Std06Rep1	EPA Sample ID:	S06		Date:	11/5/2015	14:53:42	Dilution:	1
7·	Sample ID:	ICV1	EPA Sample ID:	ICV001		Date:	11/5/2015	14:56:10	Dilution:	1
8·	Sample ID:	ICB1	EPA Sample ID:	ICB001		Date:	11/5/2015	14:58:20	Dilution:	1
9·	Sample ID:	CCV1	EPA Sample ID:	CCV001		Date:	11/5/2015	15:02:04	Dilution:	1
10·	Sample ID:	CCB1	EPA Sample ID:	CCB001		Date:	11/5/2015	15:04:18	Dilution:	1
11·	Sample ID:	QQ88496-001	EPA Sample ID:	PBS		Date:	11/5/2015	15:06:17	Dilution:	1
12·	Sample ID:	QJ31005-001	EPA Sample ID:	MBC765		Date:	11/5/2015	15:08:41	Dilution:	1
13·	Sample ID:	QJ31005-001MS	EPA Sample ID:	MBC765S		Date:	11/5/2015	15:10:50	Dilution:	1
14·	Sample ID:	QJ31005-001DU	EPA Sample ID:	MBC765D		Date:	11/5/2015	15:13:22	Dilution:	1
15·	Sample ID:	QJ31005-002	EPA Sample ID:	MBC766		Date:	11/5/2015	15:15:23	Dilution:	1
16·	Sample ID:	QJ31005-003	EPA Sample ID:	MBC767		Date:	11/5/2015	15:17:23	Dilution:	1
17·	Sample ID:	QJ31005-004	EPA Sample ID:	MBC768		Date:	11/5/2015	15:19:23	Dilution:	1
18·	Sample ID:	QJ31005-005	EPA Sample ID:	MBC769		Date:	11/5/2015	15:21:29	Dilution:	1
19·	Sample ID:	QJ31005-006	EPA Sample ID:	MBC770		Date:	11/5/2015	15:23:30	Dilution:	1
20·	Sample ID:	QJ31005-007	EPA Sample ID:	MBC771		Date:	11/5/2015	15:25:31	Dilution:	1
21·	Sample ID:	CCV2	EPA Sample ID:	CCV002		Date:	11/5/2015	15:27:31	Dilution:	1
22·	Sample ID:	CCB2	EPA Sample ID:	CCB002		Date:	11/5/2015	15:29:33	Dilution:	1
23·	Sample ID:	QJ31005-008	EPA Sample ID:	MBC774		Date:	11/5/2015	15:31:33	Dilution:	1
24·	Sample ID:	QJ31005-009	EPA Sample ID:	MBC7D5		Date:	11/5/2015	15:34:04	Dilution:	1
25·	Sample ID:	QJ31005-010	EPA Sample ID:	MBC7D6		Date:	11/5/2015	15:36:14	Dilution:	1
26·	Sample ID:	QJ31005-011	EPA Sample ID:	MBC7D7		Date:	11/5/2015	15:38:36	Dilution:	1
27·	Sample ID:	QJ31005-012	EPA Sample ID:	MBC7D8		Date:	11/5/2015	15:40:39	Dilution:	1
28·	Sample ID:	QJ31005-013	EPA Sample ID:	MBC7D9		Date:	11/5/2015	15:43:10	Dilution:	1
29·	Sample ID:	QJ31005-014	EPA Sample ID:	MBC7E0		Date:	11/5/2015	15:45:50	Dilution:	1
30·	Sample ID:	QJ31005-015	EPA Sample ID:	MBC7E1		Date:	11/5/2015	15:48:24	Dilution:	1
31·	Sample ID:	QJ31005-016	EPA Sample ID:	MBC7E2		Date:	11/5/2015	15:51:26	Dilution:	1
32·	Sample ID:	QJ31005-017	EPA Sample ID:	MBC7E3		Date:	11/5/2015	15:53:27	Dilution:	1
33·	Sample ID:	CCV3	EPA Sample ID:	CCV003		Date:	11/5/2015	15:55:43	Dilution:	1
34·	Sample ID:	CCB3	EPA Sample ID:	CCB003		Date:	11/5/2015	15:57:46	Dilution:	1
35·	Sample ID:	QJ31005-018	EPA Sample ID:	MBC7E4		Date:	11/5/2015	16:00:40	Dilution:	1
36·	Sample ID:	QJ31005-019	EPA Sample ID:	MBC7E5		Date:	11/5/2015	16:02:51	Dilution:	1
37·	Sample ID:	QJ31005-020	EPA Sample ID:	MBC7E6		Date:	11/5/2015	16:04:53	Dilution:	1
38·	Sample ID:	QQ88502-001	EPA Sample ID:	PBS		Date:	11/5/2015	16:07:36	Dilution:	1
39·	Sample ID:	QJ31006-001	EPA Sample ID:	MBC7E7		Date:	11/5/2015	16:09:35	Dilution:	1
40·	Sample ID:	QJ31006-001MS	EPA Sample ID:	MBC7E7S		Date:	11/5/2015	16:11:36	Dilution:	1
41·	Sample ID:	QJ31006-001DU	EPA Sample ID:	MBC7E7D		Date:	11/5/2015	16:13:39	Dilution:	1

Analytical Review Report

Data File: ***HG3110515B - Copy***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
42·	Sample ID:	QJ31006-002	EPA Sample ID:	MBC7E8		Date:	11/5/2015	16:15:59	Dilution:	1
43·	Sample ID:	QJ31006-003	EPA Sample ID:	MBC7F0		Date:	11/5/2015	16:18:00	Dilution:	1
44·	Sample ID:	QJ31006-004	EPA Sample ID:	MBC7F2		Date:	11/5/2015	16:20:22	Dilution:	1
45·	Sample ID:	CCV4	EPA Sample ID:	CCV004		Date:	11/5/2015	16:22:23	Dilution:	1
46·	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/5/2015	16:25:05	Dilution:	1
47·	Sample ID:	QJ31006-005	EPA Sample ID:	MBC7F3		Date:	11/5/2015	16:27:16	Dilution:	1
48·	Sample ID:	QJ31006-006	EPA Sample ID:	MBC7H1		Date:	11/5/2015	16:29:41	Dilution:	1
49·	Sample ID:	QJ31006-007	EPA Sample ID:	MBC7H2		Date:	11/5/2015	16:31:46	Dilution:	1
Hg	PARAMETER IS OVER RANGE			11.5000	10			0.00	0.00	0.10
50·	Sample ID:	QJ31006-008	EPA Sample ID:	MBC7H3		Date:	11/5/2015	16:33:47	Dilution:	1
51·	Sample ID:	QJ31006-007	EPA Sample ID:	MBC7H2		Date:	11/5/2015	16:37:36	Dilution:	5
52·	Sample ID:	CCV005	EPA Sample ID:	Ck4CCV		Date:	11/5/2015	16:39:41	Dilution:	1
53·	Sample ID:	Ck1blank005	EPA Sample ID:	Ck1blank		Date:	11/5/2015	16:41:39	Dilution:	1
54·	Sample ID:	QQ88821-001	EPA Sample ID:	QQ88821-001MB		Date:	11/5/2015	16:44:34	Dilution:	1
55·	Sample ID:	QQ88821-002	EPA Sample ID:	LCS		Date:	11/5/2015	16:46:38	Dilution:	1
56·	Sample ID:	QJ31002-001	EPA Sample ID:	SS-001 (0-2) (103015)		Date:	11/5/2015	16:49:21	Dilution:	1
57·	Sample ID:	QJ31002-002	EPA Sample ID:	SS-001 (14-16) (103015)		Date:	11/5/2015	16:51:25	Dilution:	1
58·	Sample ID:	QJ31002-004	EPA Sample ID:	SS-002 (4-6) (103015)		Date:	11/5/2015	16:53:36	Dilution:	1
59·	Sample ID:	QJ31002-005	EPA Sample ID:	SS-002 (12-14) (103015)		Date:	11/5/2015	16:55:39	Dilution:	1
60·	Sample ID:	QJ31002-006	EPA Sample ID:	SS-003 (4-6) (103015)		Date:	11/5/2015	16:57:52	Dilution:	1
61·	Sample ID:	QJ31002-007	EPA Sample ID:	SS-003 (28-30) (103015)		Date:	11/5/2015	17:00:06	Dilution:	1
62·	Sample ID:	QJ31002-008	EPA Sample ID:	SS-004 (16-18) (103015)		Date:	11/5/2015	17:02:08	Dilution:	1
63·	Sample ID:	QJ31002-009	EPA Sample ID:	SS-004 (22-24) (103015)		Date:	11/5/2015	17:04:19	Dilution:	1
64·	Sample ID:	Ck4CCV	EPA Sample ID:	Ck4CCV		Date:	11/5/2015	17:06:20	Dilution:	1
65·	Sample ID:	Ck1blank	EPA Sample ID:	Ck1blank		Date:	11/5/2015	17:08:21	Dilution:	1
66·	Sample ID:	QJ30030-002	EPA Sample ID:	MC151030 0820 RF		Date:	11/5/2015	17:10:41	Dilution:	1
67·	Sample ID:	QJ30030-002MS	EPA Sample ID:	MC151030 0820 RFS		Date:	11/5/2015	17:12:44	Dilution:	1
68·	Sample ID:	QJ30030-002MD	EPA Sample ID:	MC151030 0820 RFSD		Date:	11/5/2015	17:14:46	Dilution:	1
69·	Sample ID:	QJ30030-003	EPA Sample ID:	MC151030 0820 PA		Date:	11/5/2015	17:16:49	Dilution:	1
70·	Sample ID:	QK04054-008	EPA Sample ID:	SLUDGE BED#6		Date:	11/5/2015	17:19:19	Dilution:	1
71·	Sample ID:	QK03060-001	EPA Sample ID:	Casings Wash Drum		Date:	11/5/2015	17:21:21	Dilution:	1
72·	Sample ID:	QK04018-001	EPA Sample ID:	BPFC 11/4/15		Date:	11/5/2015	17:23:45	Dilution:	1
73·	Sample ID:	QK04019-001	EPA Sample ID:	FDP 11/4/15		Date:	11/5/2015	17:25:57	Dilution:	10
74·	Sample ID:	QQ88820-001	EPA Sample ID:	QQ88820001		Date:	11/5/2015	17:28:06	Dilution:	1
75·	Sample ID:	QQ88820-002	EPA Sample ID:	QQ88820002		Date:	11/5/2015	17:30:10	Dilution:	1
76·	Sample ID:	Ck4CCV	EPA Sample ID:	Ck4CCV		Date:	11/5/2015	17:32:45	Dilution:	1
77·	Sample ID:	Ck1blank	EPA Sample ID:	Ck1blank		Date:	11/5/2015	17:35:25	Dilution:	1
78·	Sample ID:	QJ30006-009	EPA Sample ID:	QJ30006009		Date:	11/5/2015	17:37:29	Dilution:	1
79·	Sample ID:	QJ30006-010	EPA Sample ID:	QJ30006010		Date:	11/5/2015	17:40:06	Dilution:	1
80·	Sample ID:	QJ30006-011	EPA Sample ID:	QJ30006011		Date:	11/5/2015	17:42:08	Dilution:	1
81·	Sample ID:	QJ30006-012	EPA Sample ID:	QJ30006012		Date:	11/5/2015	17:44:09	Dilution:	1

Analytical Review Report

Data File: ***HG3110515B - Copy***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
82·	**Sample ID:**	**QJ30006-013**	**EPA Sample ID:**	**QJ30006013**		**Date:**	**11/5/2015**	**17:46:21**	**Dilution:**	**1**
83·	**Sample ID:**	**QJ30006-014**	**EPA Sample ID:**	**QJ30006014**		**Date:**	**11/5/2015**	**17:48:26**	**Dilution:**	**1**
84·	**Sample ID:**	**QJ30006-015**	**EPA Sample ID:**	**QJ30006015**		**Date:**	**11/5/2015**	**17:50:29**	**Dilution:**	**1**
85·	**Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:52:44**	**Dilution:**	**1**
86·	**Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:54:51**	**Dilution:**	**1**
87·	**Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:57:14**	**Dilution:**	**1**
88·	**Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**17:59:20**	**Dilution:**	**1**
89·	**Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:01:21**	**Dilution:**	**1**
90·	**Sample ID:**	**QJ30006-017**	**EPA Sample ID:**	**QJ30006017**		**Date:**	**11/5/2015**	**18:03:20**	**Dilution:**	**1**
91·	**Sample ID:**	**QJ30006-018**	**EPA Sample ID:**	**QJ30006018**		**Date:**	**11/5/2015**	**18:05:25**	**Dilution:**	**1**
92·	**Sample ID:**	**QJ30006-019**	**EPA Sample ID:**	**QJ30006019**		**Date:**	**11/5/2015**	**18:07:30**	**Dilution:**	**1**
93·	**Sample ID:**	**QJ30006-020**	**EPA Sample ID:**	**QJ30006020**		**Date:**	**11/5/2015**	**18:09:33**	**Dilution:**	**34**
94·	**Sample ID:**	**QJ30006-021**	**EPA Sample ID:**	**QJ30006021**		**Date:**	**11/5/2015**	**18:11:35**	**Dilution:**	**1**
95·	**Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:13:39**	**Dilution:**	**1**
96·	**Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:16:11**	**Dilution:**	**1**
97·	**Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:18:13**	**Dilution:**	**1**
98·	**Sample ID:**	**QJ20017-021**	**EPA Sample ID:**	**QJ20017021**		**Date:**	**11/5/2015**	**18:20:15**	**Dilution:**	**1**
99·	**Sample ID:**	**QJ20017-022**	**EPA Sample ID:**	**QJ20017022**		**Date:**	**11/5/2015**	**18:22:38**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			19.4000	10			0.00	0.02	0.20
100·	**Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**18:25:24**	**Dilution:**	**1**
101·	**Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:27:25**	**Dilution:**	**1**
102·	**Sample ID:**	**QJ20017-023**	**EPA Sample ID:**	**QJ20017023**		**Date:**	**11/5/2015**	**18:29:28**	**Dilution:**	**1**
103·	**Sample ID:**	**QJ20017-024**	**EPA Sample ID:**	**QJ20017024**		**Date:**	**11/5/2015**	**18:31:30**	**Dilution:**	**1**
104·	**Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**18:33:43**	**Dilution:**	**1**
105·	**Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:36:32**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1056

Prep Batch: 88496

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/05/2015 1220
End Date: 11/05/2015 1250

Level 2 Analyst: FTS

Digestion Cup ID: 1504103

Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0

Filter Paper Lot Num: 50630758

Chem ID: IM6390-01(11/7/15) IM6215-01(12/2/15) IM6215-02(12/2/15)

Balance ID: IM6215-02(12/2/15)

Hot Block ID: Hot Block #4

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ88496-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QJ31005-001	Sample	MBC765	1	ISM02.2 HG	0.5170		0.0	50	11/24/2015 0945	11/04/2015	
QJ31005-001MS	MS	MBC765S	1	ISM02.2 HG	0.5170	15HG1437	3.0	50			(11/7/15) pipette:247
QJ31005-001DU	Duplicate	MBC765D	1	ISM02.2 HG	0.5900		0.0	50			
QJ31005-002	Sample	MBC766	1	ISM02.2 HG	0.5900		0.0	50	11/24/2015 1040	11/04/2015	
QJ31005-003	Sample	MBC767	1	ISM02.2 HG	0.5810		0.0	50	11/24/2015 1135	11/04/2015	
QJ31005-004	Sample	MBC768	1	ISM02.2 HG	0.5200		0.0	50	11/24/2015 1235	11/04/2015	
QJ31005-005	Sample	MBC769	1	ISM02.2 HG	0.5010		0.0	50	11/24/2015 1335	11/04/2015	
QJ31005-006	Sample	MBC770	1	ISM02.2 HG	0.5010		0.0	50	11/25/2015 0850	11/04/2015	
QJ31005-007	Sample	MBC771	1	ISM02.2 HG	0.5350		0.0	50	11/24/2015 1530	11/04/2015	
QJ31005-008	Sample	MBC774	1	ISM02.2 HG	0.5680		0.0	50	11/25/2015 1010	11/04/2015	
QJ31005-009	Sample	MBC7D5	1	ISM02.2 HG	0.5300		0.0	50	11/24/2015 0940	11/04/2015	
QJ31005-010	Sample	MBC7D6	1	ISM02.2 HG	0.5960		0.0	50	11/24/2015 0935	11/04/2015	
QJ31005-011	Sample	MBC7D7	1	ISM02.2 HG	0.5350		0.0	50	11/24/2015 1050	11/04/2015	
QJ31005-012	Sample	MBC7D8	1	ISM02.2 HG	0.5920		0.0	50	11/24/2015 1055	11/04/2015	
QJ31005-013	Sample	MBC7D9	1	ISM02.2 HG	0.5570		0.0	50	11/24/2015 1130	11/04/2015	
QJ31005-014	Sample	MBC7E0	1	ISM02.2 HG	0.5830		0.0	50	11/24/2015 1125	11/04/2015	
QJ31005-015	Sample	MBC7E1	1	ISM02.2 HG	0.5900		0.0	50	11/24/2015 1230	11/04/2015	
QJ31005-016	Sample	MBC7E2	1	ISM02.2 HG	0.5120		0.0	50	11/24/2015 1225	11/04/2015	
QJ31005-017	Sample	MBC7E3	1	ISM02.2 HG	0.5290		0.0	50	11/24/2015 1340	11/04/2015	
QJ31005-018	Sample	MBC7E4	1	ISM02.2 HG	0.5540		0.0	50	11/24/2015 1345	11/04/2015	
QJ31005-019	Sample	MBC7E5	1	ISM02.2 HG	0.5420		0.0	50	11/25/2015 0855	11/04/2015	
QJ31005-020	Sample	MBC7E6	1	ISM02.2 HG	0.5990		0.0	50	11/25/2015 0900	11/04/2015	
QQ88496-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ88496-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	10.0	50			S05
QQ88496-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	5.0	50			S04

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1056

Prep Batch: 88496

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/05/2015 1220
End Date: 11/05/2015 1250

Level 2 Analyst: FTS

Digestion Cup ID: 1504103

Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0

Filter Paper Lot Num: 50630758

Chem ID: IM6390-01(11/7/15) IM6215-01(12/2/15) IM6215-02(12/2/15)

Balance ID: IM6215-02(12/2/15)

Hot Block ID: Hot Block #4

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ88496-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	1.0	50			S03
QQ88496-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	0.5	50			S02
QQ88496-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	0.2	50			S01
QQ88496-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ88496-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ88496-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ88496-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	5.0	50			CCV

(end of report)

Total Samples: 20

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IMG3C66-01)(1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/3/15	CEH	15HG1419	100	2	100	2	15HG	1421
		↓	↓	1		1	15HG	1422
		15HG1420	5	4		0.2	15HG	1423
		↓	↓	2		0.1	15HG	1424
		15HG1220	1000	10		100	15HG	1425
		↓	↓	8		80	15HG	1426
		15HG1425	100	2		2	15HG	1427
11/4/15	KDB	15HG1219	1000	10	100	100	15HG	1428
		15HG1428	100	5		5	15HG	1429
				2		2	15HG	1430
				1		1	15HG	1431
		15HG1429	5	4		0.2	15HG	1432
				2		0.1	15HG	1433
		15HG1220	1000	10		100	15HG	1434
				8		80	15HG	1435
		15HG1434	100	2		2	15HG	1436
11/5/15	CEH	15HG1219	1000	10	100	100	15HG	1437
11/5/15	CEH	15HG1219	1000	10	100	100	15HG	1438
		15HG1438	100	5		5	15HG	1439
				2		2	15HG	1440

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ88491-001		MB	1	4.45	4.45	0.0000	4.3761	0	0	0	0	0.000		
QJ30065-001		Sample	1	4.47	13.9553	9.4853	5.2823	0	0	0	8.5637	8.56		
							Comments: liquidy							
QJ31002-001		Sample	1	4.44	12.1415	7.7015	10.737	0	0	0	81.7632	81.8		
QJ31002-002		Sample	1	4.4	12.8003	8.4003	9.8126	0	0	0	64.4334	64.4		
QJ31002-004		Sample	1	4.46	14.0557	9.5957	12.3278	0	0	0	81.9929	82.0		
QJ31002-005		Sample	1	4.45	14.0687	9.6187	13.3216	0	0	0	92.2328	92.2		
QJ31002-006		Sample	1	4.46	13.9655	9.5055	12.0241	0	0	0	79.576	79.6		
QJ31002-006DU		Duplicate	1	4.35	13.029	8.6790	11.3238	0	0	0	80.3525	80.4	0.97	
QJ31002-007		Sample	1	4.4	13.8846	9.4846	11.0869	0	0	0	70.5027	70.5		
QJ31002-008		Sample	1	4.37	13.79	9.4200	12.1589	0	0	0	82.6847	82.7		
QJ31002-009		Sample	1	4.45	12.9245	8.4745	10.2893	0	0	0	68.9043	68.9		
QJ30076-001		Sample	1	4.36	13.5304	9.1704	8.1454	0	0	0	41.2784	41.3		
QJ30076-002		Sample	1	4.33	13.7656	9.4356	7.1996	0	0	0	30.4124	30.4		
QJ30076-003		Sample	1	4.44	14.1657	9.7257	8.8857	0	0	0	45.7108	45.7		
QJ30079-001		Sample	1	4.34	13.1628	8.8228	11.5128	0	0	0	81.2984	81.3		
QJ30079-001DU		Duplicate	1	4.47	13.8656	9.3956	11.6694	0	0	0	76.6252	76.6	5.92	
QJ30079-002		Sample	1	4.36	13.5115	9.1515	13.0906	0	0	0	95.4007	95.4		
QJ30019-003		Sample	1	4.47	13.5382	9.0682	12.9098	0	0	0	93.0702	93.1		
QJ30019-004		Sample	1	4.44	13.6125	9.1725	12.9103	0	0	0	92.3445	92.3		
QJ30019-004DU		Duplicate	1	4.36	13.8897	9.5297	13.0915	0	0	0	91.624	91.6	0.78	
QJ30019-005		Sample	1	4.46	14.0307	9.5707	12.8874	0	0	0	88.0541	88.1		
QJ30019-006		Sample	1	4.36	13.2036	8.8436	12.3557	0	0	0	90.4122	90.4		
QJ30019-007		Sample	1	4.41	13.9701	9.5601	12.9476	0	0	0	89.3045	89.3		
QJ30019-008		Sample	1	4.46	13.43	8.9700	12.3562	0	0	0	88.0289	88.0		

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QJ30019-009		Sample	1	4.45	14.0953	9.6453	13.07	0	0	0	89.3699	89.4		
QJ30019-010		Sample	1	4.35	12.3212	7.9712	10.8912	0	0	0	82.0604	82.1		
QJ30019-011		Sample	1	4.45	13.5468	9.0968	12.6947	0	0	0	90.6329	90.6		
QJ30019-012		Sample	1	4.39	13.5911	9.2011	12.6093	0	0	0	89.3295	89.3		
QJ30019-013		Sample	1	4.39	13.7418	9.3518	12.6361	0	0	0	88.1766	88.2		
QJ30019-014		Sample	1	4.43	13.3906	8.9606	12.5089	0	0	0	90.1602	90.2		
QJ30019-015		Sample	1	4.36	13.8024	9.4424	12.8614	0	0	0	90.0343	90.0		
QJ30019-015DU		Duplicate	1	4.36	14.0772	9.7172	13.0586	0	0	0	89.5175	89.5	0.58	
QJ30019-016		Sample	1	4.36	13.8936	9.5336	12.888	0	0	0	89.452	89.5		
QJ30019-017		Sample	1	4.47	13.8608	9.3908	12.9202	0	0	0	89.9838	90.0		
QJ30019-018		Sample	1	4.47	13.5935	9.1235	12.5236	0	0	0	88.2731	88.3		
QJ30019-019		Sample	1	4.4	13.1506	8.7506	12.1498	0	0	0	88.563	88.6		
QJ30019-020		Sample	1	4.43	13.3352	8.9052	12.266	0	0	0	87.9935	88.0		
QJ30019-021		Sample	1	4.44	13.9008	9.4608	12.8673	0	0	0	89.0759	89.1		
QJ30019-022		Sample	1	4.36	13.9407	9.5807	12.8873	0	0	0	89.0049	89.0		
QJ31005-001		Sample	1	4.36	13.8482	9.4882	11.4383	0	0	0	74.601	74.6		
QJ31005-002		Sample	1	4.45	13.2028	8.7528	12.6986	0	0	0	94.2395	94.2		
QJ31005-003		Sample	1	4.46	13.9379	9.4779	12.4021	0	0	0	83.7959	83.8		
QJ31005-004		Sample	1	4.35	13.4584	9.1084	11.9848	0	0	0	83.8215	83.8		
QJ31005-005		Sample	1	4.4	13.6108	9.2108	12.1665	0	0	0	84.3194	84.3		
QJ31005-006		Sample	1	4.36	13.6278	9.2678	12.5402	0	0	0	88.2647	88.3		
QJ31005-007		Sample	1	4.37	12.8665	8.4965	11.8413	0	0	0	87.9338	87.9		
QJ31005-007DU		Duplicate	1	4.36	13.7887	9.4287	12.633	0	0	0	87.7427	87.7	0.22	
QJ31005-008		Sample	1	4.36	13.8253	9.4653	12.549	0	0	0	86.516	86.5		
QJ31005-009		Sample	1	4.45	13.6611	9.2111	11.3314	0	0	0	74.7076	74.7		

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QJ31005-010		Sample	1	4.44	12.9131	8.4731	10.9256	0	0	0	76.5434	76.5		
QJ31005-011		Sample	1	4.36	13.5842	9.2242	12.0288	0	0	0	83.1378	83.1		
QJ31005-012		Sample	1	4.36	13.2974	8.9374	11.9464	0	0	0	84.8837	84.9		
QJ31005-013		Sample	1	4.47	13.0714	8.6014	11.9403	0	0	0	86.8498	86.8		
QJ31005-014		Sample	1	4.46	13.1054	8.6454	11.9979	0	0	0	87.1897	87.2		
QJ31005-015		Sample	1	4.41	12.0658	7.6558	9.142	0	0	0	61.8093	61.8		
QJ31005-016		Sample	1	4.46	12.9212	8.4612	11.7108	0	0	0	85.6947	85.7		
QJ31005-017		Sample	1	4.35	13.3739	9.0239	11.9425	0	0	0	84.1376	84.1		
QJ31005-017DU		Duplicate	1	4.36	12.6134	8.2534	11.5049	0	0	0	86.5691	86.6	2.85	
QJ31005-018		Sample	1	4.46	13.2812	8.8212	12.1365	0	0	0	87.0233	87.0		
QJ31005-019		Sample	1	4.46	14.0824	9.6224	11.8234	0	0	0	76.5235	76.5		
QJ31005-020		Sample	1	4.46	13.4956	9.0356	12.167	0	0	0	85.2959	85.3		
QJ31006-001		Sample	1	4.36	12.1548	7.7948	10.6286	0	0	0	80.4202	80.4		
QJ31006-002		Sample	1	4.46	13.4965	9.0365	12.0879	0	0	0	84.4121	84.4		
QJ31006-003		Sample	1	4.37	13.5825	9.2125	10.9977	0	0	0	71.9424	71.9		
QJ31006-004		Sample	1	4.46	13.8153	9.3553	11.6979	0	0	0	77.3668	77.4		
QJ31006-005		Sample	1	4.44	13.3083	8.8683	12.5942	0	0	0	91.9477	91.9		
QJ31006-006		Sample	1	4.35	13.7066	9.3566	12.4076	0	0	0	86.1167	86.1		
QJ31006-007		Sample	1	4.46	14.0359	9.5759	12.7163	0	0	0	86.2195	86.2		
QJ31006-007DU		Duplicate	1	4.44	14.1443	9.7043	12.9421	0	0	0	87.6116	87.6	1.60	
QJ31006-008		Sample	1	4.46	12.9881	8.5281	12.077	0	0	0	89.3164	89.3		
QJ30030-002		Sample	1	4.38	13.1502	8.7702	13.1306	0	0	0	99.7765	99.8		
QJ30030-003		Sample	1	4.35	13.4325	9.0825	13.425	0	0	0	99.9174	99.9		

Total Items: 72 (108 samples)

(end of report)

FedEx Express US Airbill

FedEx Tracking Number 8750 6337 1337 0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 10/30/15 Sender's FedEx Account Number 3672-5883-7

Sender's Name Scott Snyder Phone 973 219-7394

Company Weston Solutions, Inc.

Address 205 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference 20408.016.004.0269.00

3 To

Recipient's Name Brad Belding Phone 803 791-9700

Company Sheely Environmental Services

Address 106 Vantage Point Dr. Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City West Columbia State SC ZIP 29172

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Tracy Boulding 10/31/15

8750 6337 1337

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.*

03 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

70 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

80 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☒ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☒ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ 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.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ 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:*

1 ☒ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

606

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fedex.com 1.800.GoFedEx 1.800.463.3339

COPY 8717-MBC761
ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature
11-03-15
Date

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 2
Received By (Print Name) Lacey Goulding		Log-in Date 10/31/15
Received By (Signature) Lacey Goulding		
Case Number 45717	SDG No. MBC761, MBC765, MBC7E7	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8750 6337 1337
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.3
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	10/31/15
12. Time Received	0830

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC761	1.5	NA	QJ31004-001	OK
2	MBC765	NA		QJ31005-001	
3	MBC766			-002	
4	MBC767			-003	
5	MBC768			-004	
6	MBC769			-005	
7	MBC770			-006	
8	MBC771			-007	
9	MBC774			-008	
10	MBC7D5			-009	
11	MBC7D6			-010	
12	MBC7D7			-011	
13	MBC7D8			-012	
14	MBC7D9			-013	
15	MBC7E0			-014	
16	MBC7E1			-015	
17	MBC7E2			-016	
18	MBC7E3			-017	
19	MBC7E4			-018	
20	MBC7E5			-019	
21	MBC7E6			-020	
22	MBC7E7			QJ31006-001	

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.
Date 11/3/15	Logbook Page No.

COPY 45717-MBC 766
ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature

11-05-15
Date

ISM02.2 (08/2014) Form DC-1

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Site Assessment Team 2 (SAT) for each EPA Region. The WESTON Region 8 Start IV Contract EP-S8-13-01 Region 2 Site Assessment Team provides support to EPA Region 2.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON SAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, well, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples.* Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice have been tentatively classified by the field response team as:

__X__ Environmental ____ Hazardous ____ Comb. (Envir. & Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions .to provide protection against possible radiological or chemical exposure:

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON SAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by: Scott Snyder Date 10/30/15

Case No. 45717 Date 10/30/15

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Shealy

COPY 45717-MBC761
ORIGINAL DOCUMENT INCLUDED IN CSF
Signature
11-03-16
Date

Internal Chain-of-Custody Report

Printed: 11/06/2015 1807

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QJ31005-007	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-008	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-012	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-013	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-009	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-016	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-003	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-005	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-007	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-019	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-017	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-020	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-002	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-004	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-006	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-018	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-015	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-001	% Solid Snaps	11/01/2015 13:43	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-011	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-014	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-010	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-017	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31005-003	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-014	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-008	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-004	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-007	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-020	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-010	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-016	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-002	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-006	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-017	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-019	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-012	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-005	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-015	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-018	9 oz G	11/02/2015 08:27	SR (WI # 1)	IM Prep	True	COH
QJ31005-001	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-009	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-011	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-013	9 oz G	11/02/2015 08:28	SR (WI # 1)	IM Prep	True	COH
QJ31005-001	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31005-019	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-001	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-013	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-018	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-004	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-005	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-016	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-010	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-002	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-017	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH

Internal Chain-of-Custody Report

Printed: 11/06/2015 1807

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QJ31005-011	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-009	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-020	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-015	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-006	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-014	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31005-007	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-003	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-012	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31005-008	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

REFERENCE 64

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

- SDG Cover Page
- Traffic Report/Chain of Custody
- Sample Log-In Sheet (DC-1)
- CSF Inventory Sheet (DC-2)
- SDG Narrative

The following analysis are included in this package, if applicable:

- ICP-AES Data
- ICP-MS Data
- Mercury Data
- Cyanide Data
- Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC775

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC775	QK13011-001	X		X	
MBC776	QK13011-002	X		X	
MBC777	QK13011-003	X		X	
MBC778	QK13011-004	X		X	
MBC779	QK13011-005	X		X	
MBC780	QK13011-006	X		X	
MBC781	QK13011-007	X		X	
MBC782	QK13011-008	X		X	
MBC783	QK13011-009	X		X	
MBC784	QK13011-010	X		X	
MBC785	QK13011-011	X		X	
MBC786	QK13011-012	X		X	
MBC787	QK13011-013	X		X	
MBC788	QK13011-014	X		X	
MBC789	QK13011-015	X		X	
MBC790	QK13011-017	X		X	
MBC791	QK13011-018	X		X	
MBC792	QK13011-019	X		X	
MBC793	QK13011-020	X		X	
MBC7H7	QK13011-016	X		X	

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

Signature: Robert Name: Robert Zhu

Date: 12/2/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC775	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC775	Last Sample Received in SDG	MBC7H7
First Sample Receipt Date	11/13/2015	Last Sample Receipt Date	11/13/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID		Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC775	Sediment	ICP AES, Hg	N/A	N/A
2	MBC776	Sediment	ICP AES, Hg	N/A	N/A
3	MBC777	Sediment	ICP AES, Hg	N/A	N/A
4	MBC778	Sediment	ICP AES, Hg	N/A	N/A
5	MBC779	Sediment	ICP AES, Hg	N/A	N/A
6	MBC780	Sediment	ICP AES, Hg	N/A	N/A
7	MBC781	Sediment	ICP AES, Hg	N/A	N/A
8	MBC782	Sediment	ICP AES, Hg	N/A	N/A
9	MBC783	Sediment	ICP AES, Hg	N/A	N/A
10	MBC784	Sediment	ICP AES, Hg	N/A	N/A
11	MBC785	Sediment	ICP AES, Hg	N/A	N/A
12	MBC786	Sediment	ICP AES, Hg	N/A	N/A
13	MBC787	Sediment	ICP AES, Hg	N/A	N/A
14	MBC788	Sediment	ICP AES, Hg	N/A	N/A
15	MBC789	Sediment	ICP AES, Hg	N/A	N/A
16	MBC790	Sediment	ICP AES, Hg	N/A	N/A
17	MBC791	Sediment	ICP AES, Hg	N/A	N/A
18	MBC792	Sediment	ICP AES, Hg	N/A	N/A
19	MBC793	Sediment	ICP AES, Hg	N/A	N/A
20	MBC7H7	Sediment	ICP AES, Hg	N/A	N/A

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/16/15

MBC775

USEPA CLP COC (LAB COPY)

Date Shipped: 11/11/2015
Carrier Name: FedEx
Airbill No: 8088 5684 5233

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111115-172910-0008

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED01-0-6	MBC775	Sediment/ Region 2 SAT	Grab	TAL(7)	1158 (4 C) (2)	0269-SED01	11/11/2015 13:35	
0269-SED01-12-24	MBC776	Sediment/ Region 2 SAT	Grab	TAL(7)	1166 (4 C) (1)	0269-SED01	11/11/2015 14:00	
0269-SED01-6-12	MBC777	Sediment/ Region 2 SAT	Grab	TAL(7)	1162 (4 C) (1)	0269-SED01	11/11/2015 13:45	
0269-SED02-0-6	MBC778	Sediment/ Region 2 SAT	Grab	TAL(7)	1170 (4 C) (1)	0269-SED02	11/11/2015 15:00	
0269-SED02-12-24	MBC779	Sediment/ Region 2 SAT	Grab	TAL(7)	1178 (4 C) (1)	0269-SED02	11/11/2015 15:30	
0269-SED02-6-12	MBC780	Sediment/ Region 2 SAT	Grab	TAL(7)	1174 (4 C) (1)	0269-SED02	11/11/2015 15:20	
0269-SED03-0-6	MBC781	Sediment/ Region 2 SAT	Grab	TAL(7)	1182 (4 C) (1)	0269-SED03	11/11/2015 17:00	
0269-SED03-12-24	MBC782	Sediment/ Region 2 SAT	Grab	TAL(7)	1190 (4 C) (1)	0269-SED03	11/11/2015 17:20	
0269-SED03-6-12	MBC783	Sediment/ Region 2 SAT	Grab	TAL(7)	1186 (4 C) (1)	0269-SED03	11/11/2015 17:10	
0269-SED04-0-6	MBC784	Sediment/ Region 2 SAT	Grab	TAL(7)	1194 (4 C) (1)	0269-SED04	11/11/2015 16:25	

Sample(s) to be used for Lab QC: 0269-SED01-0-6 Tag 1158 - Special Instructions: MS/MSD: 0269-SED01 CLP No.: MBC775	**Shipment for Case Complete? N** **Samples Transferred From Chain of Custody #**
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/11/15 20:00	FEDEX	11/11/15 20:00	
			[illegible]	11/13/15 0820	ok

T=8.2

MBC775

USEPA CLP COC (LAB COPY)

Date Shipped: 11/11/2015
Carrier Name: FedEx
Airbill No: 8088 5684 5233

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111115-172910-0008

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED04-12-24	MBC785	Sediment/ Region 2 SAT	Grab	TAL(7)	1202 (4 C) (1)	0269-SED04	11/11/2015 16:35	
0269-SED04-6-12	MBC786	Sediment/ Region 2 SAT	Grab	TAL(7)	1198 (4 C) (1)	0269-SED04	11/11/2015 16:30	
0269-SED05-0-6	MBC787	Sediment/ Region 2 SAT	Grab	TAL(7)	1206 (4 C) (1)	0269-SED05	11/11/2015 17:35	
0269-SED05-12-24	MBC788	Sediment/ Region 2 SAT	Grab	TAL(7)	1214 (4 C) (1)	0269-SED05	11/11/2015 17:55	
0269-SED05-6-12	MBC789	Sediment/ Region 2 SAT	Grab	TAL(7)	1210 (4 C) (1)	0269-SED05	11/11/2015 17:45	
0269-SED22-0-6	MBC7H7	Sediment/ Region 2 SAT	Grab	TAL(7)	1446 (4 C) (1)	0269-SED21	11/11/2015 15:10	

Special Instructions: MS/MSD: 0269-SED01 CLP No.: MBC775	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Breen / WESTON	11/11/15 20:00	FEDEX	11/11/15 20:00	
			[illegible]	11/13/15 0820	ok

SDG MBC775 File / Sample

T-8.2

MBC 763
MBC 775

USEPA CLP COC (LAB COPY)

Date Shipped: 11/12/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2093

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111215-170016-0015

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-RIN04	MBC763	DI Water/ Region 2 SAT	Grab	TAL(7)	1407 (HNO3 to pH<2) (1)	N/A	11/12/2015 08:00	
0269-SED06-0-6	MBC790	Sediment/ Region 2 SAT	Grab	TAL(7)	1218 (4 C) (1)	0269-SED06	11/12/2015 10:00	
0269-SED06-12-24	MBC791	Sediment/ Region 2 SAT	Grab	TAL(7)	1226 (4 C) (1)	0269-SED06	11/12/2015 10:20	
0269-SED06-6-12	MBC792	Sediment/ Region 2 SAT	Grab	TAL(7)	1222 (4 C) (1)	0269-SED06	11/12/2015 10:10	
0269-SED07-0-6	MBC793	Sediment/ Region 2 SAT	Grab	TAL(7)	1230 (4 C) (1)	0269-SED07	11/12/2015 10:45	
0269-SED07-12-24	MBC794	Sediment/ Region 2 SAT	Grab	TAL(7)	1242 (4 C) (1)	0269-SED07	11/12/2015 11:10	
0269-SED07-6-12	MBC795	Sediment/ Region 2 SAT	Grab	TAL(7)	1238 (4 C) (1)	0269-SED07	11/12/2015 10:55	
0269-SED08-0-6	MBC796	Sediment/ Region 2 SAT	Grab	TAL(7)	1246 (4 C) (1)	0269-SED08	11/12/2015 11:30	
0269-SED08-12-24	MBC797	Sediment/ Region 2 SAT	Grab	TAL(7)	1254 (4 C) (1)	0269-SED08	11/12/2015 11:50	
0269-SED08-6-12	MBC798	Sediment/ Region 2 SAT	Grab	TAL(7)	1250 (4 C) (2)	0269-SED08	11/12/2015 11:40	

Sample(s) to be used for Lab QC: 0269-SED08-6-12 Tag 1250	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/12/15 1800	FEDEX	11/12/15 1800	
			[illegible]	11/13/15 0916	OK

T=6.6

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC775	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	7816 9795 6904
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	8.2
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0808

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC775			QK13011 -001	ok
2	MBC776			-002	
3	MBC777			-003	
4	MBC778			-004	
5	MBC779			-005	
6	MBC780			-006	
7	MBC781			-007	
8	MBC782			-008	
9	MBC783			-009	
10	MBC784			-010	
11	MBC785			-011	
12	MBC786			-012	
13	MBC787			-013	
14	MBC788			-014	
15	MBC789			-015	
16	MBC7H7			-016	
17					
18					
19					
20					
21					
22					

11/13/15

11/13/15

* Contact SMO and attach record of resolution

Reviewed By	RS	Logbook No.	MM
Date	11/16/15	Logbook Page No.	

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature) [signature]		
Case Number 45717	SDG No. MBC775/MBC763	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	_____ _____
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	7917058 4 8467
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	6.6
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC763	1.0	NA	QK13012 -001	OK
2	MBC790			QK13011 -017	
3	MBC791			-018	
4	MBC792			-019	
5	MBC793			-020	
6	MBC794			QK13012 -002	
7	MBC795			-003	
8	MBC796			-004	
9	MBC797			-005	
10	MBC798		MCM 11/13/15	-006	
11	MBC799			-007	
12	MBC7A0			-008	
13	MBC7A1			-009	
14	MBC7A2			-010	
15	MBC7A3			-011	
16	MBC7A4			-012	
17	MBC7A9			-013	not listed on COC
18					
19					
20			MCM 11/13/15		
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.
Date	Logbook Page No.

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

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC775

MA NO. NA

SOW NO. ISM02.2

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	3		
2.	Traffic Report/Chain of Custody Record(s)	4	7		
3.	Sample Log-In Sheet (DC-1)	8	9		
4.	CSF Inventory Sheet (DC-2)	10	13		
5.	SDG Narrative	14	16		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	17	39	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	40	43	X	
8.	Blanks (Form 3-IN)	44	46	X	
9.	ICP Interference Check Sample (Form 4-IN)	47	48	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	49	49	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	50	50	X	
12.	Duplicates (Form 6-IN)	51	51	X	
13.	Laboratory Control Sample (Form 7-IN)	52	52	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	53	53	X	
15.	Method Detection Limit (Form 9-IN)	54	54	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	55	55	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	56	59	X	
18.	Analysis Log (Form 12-IN)	60	64	X	
19.	Initial Calibration (Form 15-IN)	65	72	X	

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

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
20.	Initial Calibration Summary (Form 16-IN)	73	74	X	
21.	ICP-AES Raw Data	75	557	X	
22.	ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	558	583	X	
ICP-MS					
23.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25.	Blanks (Form 3-IN)	N/A	N/A	X	
26.	ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29.	Duplicates (Form 6-IN)	N/A	N/A	X	
30.	Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33.	ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34.	Analysis Log (Form 12-IN)	N/A	N/A	X	
35.	ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36.	ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
38.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39.	ICP-MS Raw Data	N/A	N/A	X	
40.	ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury		N/A	N/A	X	
41.	Inorganic Analysis Data Sheet (Form 1-IN)	584	606	X	
42.	Initial and Continuing Calibration Verification (Form 2-IN)	607	611	X	
43.	Blanks (Form 3-IN)	612	614	X	
44.	Matrix Spike Sample Recovery (Form 5A-IN)	615	615	X	
45.	Duplicates (Form 6-IN)	616	616	X	
46.	Method Detection Limit (Form 9-IN)	617	618	X	
47.	Analysis Log (Form 12-IN)	619	623	X	
48.	Initial Calibration (Form 15-IN)	624	627	X	

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

49. Initial Calibration Summary (Form 16-IN)	628	629	X	
50. Mercury Raw Data	630	640	X	
51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	641	652	X	
Cyanide	N/A	N/A	X	
52. Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53. Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54. Blanks (Form 3-IN)	N/A	N/A	X	
55. Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56. Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57. Duplicates (Form 6-IN)	N/A	N/A	X	
58. Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59. Analysis Log (Form 12-IN)	N/A	N/A	X	
60. Initial Calibration (Form 15-IN)	N/A	N/A	X	
61. Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62. Cyanide Raw Data	N/A	N/A	X	
63. Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional	653	664	X	
64. Percent Solids Determination Log	654	655	X	
65. EPA Shipping/Receiving Documents	N/A	N/A		
Airbill (No. of Shipments 1)	656	558	X	
Sample Tags	N/A	N/A		
Sample Log-In Sheet (Lab)	659	660	X	
66. Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	661	663	X	
68. Other Records (describe or list)				
Communication Logs	664	666		
hazard warning documents				

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

69. Comments:

Completed by:
(CLP Lab)

(Signature)	(Print Name & Title)	(Date)
	Robert Zhu, Technical Director	

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 12/02/2015
Case 45717
SDG MBC775
SOW ISM02.2
Contract Number: EPW14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The twenty (20) soil samples in this SDG were received in sealed shipping containers on November 13, 2015 with temperatures of 8.2˚C and 6.6˚C.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes

Sodium	Yes
Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC775

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC775	QK13011-001	X			
MBC775D	QK13011-001DU	X			
MBC775S	QK13011-001MS	X			
MBC776	QK13011-002	X			
MBC777	QK13011-003	X			
MBC778	QK13011-004	X			
MBC779	QK13011-005	X			
MBC780	QK13011-006	X			
MBC781	QK13011-007	X			
MBC782	QK13011-008	X			
MBC783	QK13011-009	X			
MBC784	QK13011-010	X			
MBC785	QK13011-011	X			
MBC786	QK13011-012	X			
MBC787	QK13011-013	X			
MBC788	QK13011-014	X			
MBC789	QK13011-015	X			
MBC790	QK13011-017	X			
MBC791	QK13011-018	X			
MBC792	QK13011-019	X			
MBC793	QK13011-020	X			
MBC7H7	QK13011-016	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert Zhu Name: Robert Zhu

Date: 12/2/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC775

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-001

% Solids: 69.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12200	▪		11/19/2015	13:06:07
7440-36-0	Antimony	3.0	▪	J*D	11/19/2015	15:22:14
7440-38-2	Arsenic	4.7	▪		11/19/2015	13:06:07
7440-39-3	Barium	32.6	▪		11/19/2015	13:06:07
7440-41-7	Beryllium	0.43	▪	J	11/19/2015	13:06:07
7440-43-9	Cadmium	0.55	▪	J*D	11/19/2015	15:22:14
7440-70-2	Calcium	2580	▪		11/19/2015	13:06:07
7440-47-3	Chromium	26.5	▪		11/19/2015	13:06:07
7440-48-4	Cobalt	9.1	▪		11/19/2015	13:06:07
7440-50-8	Copper	22.0	▪	*D	11/19/2015	15:22:14
7439-89-6	Iron	26100	▪	*D	11/19/2015	15:22:14
7439-92-1	Lead	22.0	▪	*D	11/19/2015	15:22:14
7439-95-4	Magnesium	6840	▪		11/19/2015	13:06:07
7439-96-5	Manganese	294	▪	*	11/19/2015	13:06:07
7440-02-0	Nickel	21.2	▪	*D	11/19/2015	15:22:14
7440-09-7	Potassium	1140	▪		11/19/2015	13:06:07
7782-49-2	Selenium	3.9	▪	U	11/19/2015	13:06:07
7440-22-4	Silver	1.1	▪	U	11/19/2015	13:06:07
7440-23-5	Sodium	148	▪	J	11/19/2015	13:06:07
7440-28-0	Thallium	0.44	▪	J	11/19/2015	13:06:07
7440-62-2	Vanadium	16.1	▪		11/19/2015	13:06:07
7440-66-6	Zinc	98.6	▪		11/19/2015	13:06:07

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC776

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-002

% Solids: 72.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11600		11/19/2015	13:30:22
7440-36-0	Antimony	14.0	U*D	11/19/2015	15:46:04
7440-38-2	Arsenic	4.2		11/19/2015	13:30:22
7440-39-3	Barium	30.1		11/19/2015	13:30:22
7440-41-7	Beryllium	0.46	J	11/19/2015	13:30:22
7440-43-9	Cadmium	0.13	J*D	11/19/2015	15:46:04
7440-70-2	Calcium	2060		11/19/2015	13:30:22
7440-47-3	Chromium	16.4		11/19/2015	13:30:22
7440-48-4	Cobalt	9.4		11/19/2015	13:30:22
7440-50-8	Copper	13.6	*D	11/19/2015	15:46:04
7439-89-6	Iron	24900	*D	11/19/2015	15:46:04
7439-92-1	Lead	10.0	*D	11/19/2015	15:46:04
7439-95-4	Magnesium	5650		11/19/2015	13:30:22
7439-96-5	Manganese	307	*	11/19/2015	13:30:22
7440-02-0	Nickel	21.1	*D	11/19/2015	15:46:04
7440-09-7	Potassium	1460		11/19/2015	13:30:22
7782-49-2	Selenium	4.1	U	11/19/2015	13:30:22
7440-22-4	Silver	1.2	U	11/19/2015	13:30:22
7440-23-5	Sodium	313	J	11/19/2015	13:30:22
7440-28-0	Thallium	0.43	J	11/19/2015	13:30:22
7440-62-2	Vanadium	17.5		11/19/2015	13:30:22
7440-66-6	Zinc	60.6		11/19/2015	13:30:22

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC777

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-003

% Solids: 62.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14300		11/19/2015	13:35:14
7440-36-0	Antimony	14.9	U*D	11/19/2015	15:50:49
7440-38-2	Arsenic	3.6		11/19/2015	13:35:14
7440-39-3	Barium	34.4		11/19/2015	13:35:14
7440-41-7	Beryllium	0.46	J	11/19/2015	13:35:14
7440-43-9	Cadmium	0.21	J*D	11/19/2015	15:50:49
7440-70-2	Calcium	1860		11/19/2015	13:35:14
7440-47-3	Chromium	19.2		11/19/2015	13:35:14
7440-48-4	Cobalt	9.4		11/19/2015	13:35:14
7440-50-8	Copper	16.2	*D	11/19/2015	15:50:49
7439-89-6	Iron	28000	*D	11/19/2015	15:50:49
7439-92-1	Lead	10.9	*D	11/19/2015	15:50:49
7439-95-4	Magnesium	6710		11/19/2015	13:35:14
7439-96-5	Manganese	292	*	11/19/2015	13:35:14
7440-02-0	Nickel	23.8	*D	11/19/2015	15:50:49
7440-09-7	Potassium	1550		11/19/2015	13:35:14
7782-49-2	Selenium	4.3	U	11/19/2015	13:35:14
7440-22-4	Silver	1.2	U	11/19/2015	13:35:14
7440-23-5	Sodium	196	J	11/19/2015	13:35:14
7440-28-0	Thallium	3.1	U	11/19/2015	13:35:14
7440-62-2	Vanadium	18.1		11/19/2015	13:35:14
7440-66-6	Zinc	75.1		11/19/2015	13:35:14

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC778

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-004

% Solids: 47.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15400		11/19/2015	13:40:07
7440-36-0	Antimony	18.2	U*D	11/19/2015	16:05:33
7440-38-2	Arsenic	4.8		11/19/2015	13:40:07
7440-39-3	Barium	59.4		11/19/2015	13:40:07
7440-41-7	Beryllium	0.66	J	11/19/2015	13:40:07
7440-43-9	Cadmium	0.18	J*D	11/19/2015	16:05:33
7440-70-2	Calcium	2940		11/19/2015	13:40:07
7440-47-3	Chromium	21.4		11/19/2015	13:40:07
7440-48-4	Cobalt	11.6		11/19/2015	13:40:07
7440-50-8	Copper	18.5	*D	11/19/2015	16:05:33
7439-89-6	Iron	27600	*D	11/19/2015	16:05:33
7439-92-1	Lead	13.9	*D	11/19/2015	16:05:33
7439-95-4	Magnesium	5760		11/19/2015	13:40:07
7439-96-5	Manganese	396	*	11/19/2015	13:40:07
7440-02-0	Nickel	26.6	*D	11/19/2015	16:05:33
7440-09-7	Potassium	1950		11/19/2015	13:40:07
7782-49-2	Selenium	5.3	U	11/19/2015	13:40:07
7440-22-4	Silver	1.5	U	11/19/2015	13:40:07
7440-23-5	Sodium	183	J	11/19/2015	13:40:07
7440-28-0	Thallium	3.8	U	11/19/2015	13:40:07
7440-62-2	Vanadium	23.3		11/19/2015	13:40:07
7440-66-6	Zinc	75.9		11/19/2015	13:40:07

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC779

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-005

% Solids: 54.6 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15100		11/19/2015	13:45:00
7440-36-0	Antimony	16.4	U*D	11/19/2015	16:10:19
7440-38-2	Arsenic	4.6		11/19/2015	13:45:00
7440-39-3	Barium	49.7		11/19/2015	13:45:00
7440-41-7	Beryllium	0.66	J	11/19/2015	13:45:00
7440-43-9	Cadmium	0.19	J*D	11/19/2015	16:10:19
7440-70-2	Calcium	2300		11/19/2015	13:45:00
7440-47-3	Chromium	20.7		11/19/2015	13:45:00
7440-48-4	Cobalt	11.4		11/19/2015	13:45:00
7440-50-8	Copper	17.3	*D	11/19/2015	16:10:19
7439-89-6	Iron	28100	*D	11/19/2015	16:10:19
7439-92-1	Lead	11.6	*D	11/19/2015	16:10:19
7439-95-4	Magnesium	5690		11/19/2015	13:45:00
7439-96-5	Manganese	343	*	11/19/2015	13:45:00
7440-02-0	Nickel	25.7	*D	11/19/2015	16:10:19
7440-09-7	Potassium	1860		11/19/2015	13:45:00
7782-49-2	Selenium	4.8	U	11/19/2015	13:45:00
7440-22-4	Silver	1.4	U	11/19/2015	13:45:00
7440-23-5	Sodium	176	J	11/19/2015	13:45:00
7440-28-0	Thallium	3.4	U	11/19/2015	13:45:00
7440-62-2	Vanadium	22.6		11/19/2015	13:45:00
7440-66-6	Zinc	70.7		11/19/2015	13:45:00

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC780

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-006

% Solids: 53.0 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14000		11/19/2015	13:49:54
7440-36-0	Antimony	15.5	U*D	11/19/2015	16:15:05
7440-38-2	Arsenic	4.6		11/19/2015	13:49:54
7440-39-3	Barium	51.4		11/19/2015	13:49:54
7440-41-7	Beryllium	0.60	J	11/19/2015	13:49:54
7440-43-9	Cadmium	0.21	J*D	11/19/2015	16:15:05
7440-70-2	Calcium	2550		11/19/2015	13:49:54
7440-47-3	Chromium	20.0		11/19/2015	13:49:54
7440-48-4	Cobalt	10.3		11/19/2015	13:49:54
7440-50-8	Copper	16.6	*D	11/19/2015	16:15:05
7439-89-6	Iron	26500	*D	11/19/2015	16:15:05
7439-92-1	Lead	10.9	*D	11/19/2015	16:15:05
7439-95-4	Magnesium	5290		11/19/2015	13:49:54
7439-96-5	Manganese	337	*	11/19/2015	13:49:54
7440-02-0	Nickel	23.0	*D	11/19/2015	16:15:05
7440-09-7	Potassium	1850		11/19/2015	13:49:54
7782-49-2	Selenium	4.5	U	11/19/2015	13:49:54
7440-22-4	Silver	1.3	U	11/19/2015	13:49:54
7440-23-5	Sodium	172	J	11/19/2015	13:49:54
7440-28-0	Thallium	3.2	U	11/19/2015	13:49:54
7440-62-2	Vanadium	21.6		11/19/2015	13:49:54
7440-66-6	Zinc	66.8		11/19/2015	13:49:54

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC781

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-007

% Solids: 46.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20700		11/19/2015	13:54:46
7440-36-0	Antimony	19.9	U*D	11/19/2015	16:19:50
7440-38-2	Arsenic	6.7		11/19/2015	13:54:46
7440-39-3	Barium	97.3		11/19/2015	13:54:46
7440-41-7	Beryllium	0.87		11/19/2015	13:54:46
7440-43-9	Cadmium	0.16	J*D	11/19/2015	16:19:50
7440-70-2	Calcium	3690		11/19/2015	13:54:46
7440-47-3	Chromium	24.9		11/19/2015	13:54:46
7440-48-4	Cobalt	12.3		11/19/2015	13:54:46
7440-50-8	Copper	26.9	*D	11/19/2015	16:19:50
7439-89-6	Iron	30000	*D	11/19/2015	16:19:50
7439-92-1	Lead	56.0	*D	11/19/2015	16:19:50
7439-95-4	Magnesium	6670		11/19/2015	13:54:46
7439-96-5	Manganese	454	*	11/19/2015	13:54:46
7440-02-0	Nickel	29.2	*D	11/19/2015	16:19:50
7440-09-7	Potassium	2440		11/19/2015	13:54:46
7782-49-2	Selenium	5.8	U	11/19/2015	13:54:46
7440-22-4	Silver	1.7	U	11/19/2015	13:54:46
7440-23-5	Sodium	191	J	11/19/2015	13:54:46
7440-28-0	Thallium	4.1	U	11/19/2015	13:54:46
7440-62-2	Vanadium	28.1		11/19/2015	13:54:46
7440-66-6	Zinc	89.2		11/19/2015	13:54:46

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC782

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-008

% Solids: 47.5 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14000		11/19/2015	13:59:37
7440-36-0	Antimony	18.2	U*D	11/19/2015	16:24:36
7440-38-2	Arsenic	5.2		11/19/2015	13:59:37
7440-39-3	Barium	51.4		11/19/2015	13:59:37
7440-41-7	Beryllium	0.62	J	11/19/2015	13:59:37
7440-43-9	Cadmium	0.26	J*D	11/19/2015	16:24:36
7440-70-2	Calcium	2700		11/19/2015	13:59:37
7440-47-3	Chromium	20.4		11/19/2015	13:59:37
7440-48-4	Cobalt	10.6		11/19/2015	13:59:37
7440-50-8	Copper	18.1	*D	11/19/2015	16:24:36
7439-89-6	Iron	34300	*D	11/19/2015	16:24:36
7439-92-1	Lead	13.8	*D	11/19/2015	16:24:36
7439-95-4	Magnesium	5160		11/19/2015	13:59:37
7439-96-5	Manganese	327	*	11/19/2015	13:59:37
7440-02-0	Nickel	24.4	*D	11/19/2015	16:24:36
7440-09-7	Potassium	1730		11/19/2015	13:59:37
7782-49-2	Selenium	5.3	U	11/19/2015	13:59:37
7440-22-4	Silver	1.5	U	11/19/2015	13:59:37
7440-23-5	Sodium	191	J	11/19/2015	13:59:37
7440-28-0	Thallium	3.8	U	11/19/2015	13:59:37
7440-62-2	Vanadium	22.0		11/19/2015	13:59:37
7440-66-6	Zinc	71.4		11/19/2015	13:59:37

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC783

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-009

% Solids: 50.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15800			11/19/2015	14:14:30
7440-36-0	Antimony	17.1		U*D	11/19/2015	16:29:22
7440-38-2	Arsenic	4.2			11/19/2015	14:14:30
7440-39-3	Barium	63.4			11/19/2015	14:14:30
7440-41-7	Beryllium	0.69		J	11/19/2015	14:14:30
7440-43-9	Cadmium	0.24		J*D	11/19/2015	16:29:22
7440-70-2	Calcium	2740			11/19/2015	14:14:30
7440-47-3	Chromium	20.5			11/19/2015	14:14:30
7440-48-4	Cobalt	10.6			11/19/2015	14:14:30
7440-50-8	Copper	19.5		*D	11/19/2015	16:29:22
7439-89-6	Iron	26400		*D	11/19/2015	16:29:22
7439-92-1	Lead	15.0		*D	11/19/2015	16:29:22
7439-95-4	Magnesium	5400			11/19/2015	14:14:30
7439-96-5	Manganese	355		*	11/19/2015	14:14:30
7440-02-0	Nickel	25.2		*D	11/19/2015	16:29:22
7440-09-7	Potassium	1950			11/19/2015	14:14:30
7782-49-2	Selenium	5.0		U	11/19/2015	14:14:30
7440-22-4	Silver	1.4		U	11/19/2015	14:14:30
7440-23-5	Sodium	186		J	11/19/2015	14:14:30
7440-28-0	Thallium	3.6		U	11/19/2015	14:14:30
7440-62-2	Vanadium	23.0			11/19/2015	14:14:30
7440-66-6	Zinc	74.4			11/19/2015	14:14:30

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC784

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-010

% Solids: 32.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12600		11/19/2015	14:19:24
7440-36-0	Antimony	0.95	J*	11/19/2015	14:19:24
7440-38-2	Arsenic	6.4		11/19/2015	14:19:24
7440-39-3	Barium	70.3		11/19/2015	14:19:24
7440-41-7	Beryllium	0.55	J	11/19/2015	14:19:24
7440-43-9	Cadmium	2.4	*	11/19/2015	14:19:24
7440-70-2	Calcium	6280		11/19/2015	14:19:24
7440-47-3	Chromium	47.0		11/19/2015	14:19:24
7440-48-4	Cobalt	14.2		11/19/2015	14:19:24
7440-50-8	Copper	67.7	*	11/19/2015	14:19:24
7439-89-6	Iron	21200	*	11/19/2015	14:19:24
7439-92-1	Lead	85.6	*	11/19/2015	14:19:24
7439-95-4	Magnesium	6220		11/19/2015	14:19:24
7439-96-5	Manganese	307	*	11/19/2015	14:19:24
7440-02-0	Nickel	29.0	*	11/19/2015	14:19:24
7440-09-7	Potassium	1610		11/19/2015	14:19:24
7782-49-2	Selenium	7.4	U	11/19/2015	14:19:24
7440-22-4	Silver	2.1	U	11/19/2015	14:19:24
7440-23-5	Sodium	171	J	11/19/2015	14:19:24
7440-28-0	Thallium	5.3	U	11/19/2015	14:19:24
7440-62-2	Vanadium	22.0		11/19/2015	14:19:24
7440-66-6	Zinc	302		11/19/2015	14:19:24

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC785

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-011

% Solids: 62.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14900	▪		11/19/2015	14:24:10
7440-36-0	Antimony	16.5	▪	U*D	11/19/2015	16:34:09
7440-38-2	Arsenic	6.3	▪		11/19/2015	14:24:10
7440-39-3	Barium	57.8	▪		11/19/2015	14:24:10
7440-41-7	Beryllium	0.53	▪	J	11/19/2015	14:24:10
7440-43-9	Cadmium	0.24	▪	J*D	11/19/2015	16:34:09
7440-70-2	Calcium	2010	▪		11/19/2015	14:24:10
7440-47-3	Chromium	39.6	▪		11/19/2015	14:24:10
7440-48-4	Cobalt	9.3	▪		11/19/2015	14:24:10
7440-50-8	Copper	23.2	▪	*D	11/19/2015	16:34:09
7439-89-6	Iron	22000	▪	*D	11/19/2015	16:34:09
7439-92-1	Lead	38.3	▪	*D	11/19/2015	16:34:09
7439-95-4	Magnesium	5830	▪		11/19/2015	14:24:10
7439-96-5	Manganese	270	▪	*	11/19/2015	14:24:10
7440-02-0	Nickel	19.9	▪	*D	11/19/2015	16:34:09
7440-09-7	Potassium	1300	▪		11/19/2015	14:24:10
7782-49-2	Selenium	4.8	▪	U	11/19/2015	14:24:10
7440-22-4	Silver	1.4	▪	U	11/19/2015	14:24:10
7440-23-5	Sodium	120	▪	J	11/19/2015	14:24:10
7440-28-0	Thallium	3.4	▪	U	11/19/2015	14:24:10
7440-62-2	Vanadium	16.4	▪		11/19/2015	14:24:10
7440-66-6	Zinc	71.6	▪		11/19/2015	14:24:10

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC786

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-012

% Solids: 57.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12900		11/19/2015	14:29:03
7440-36-0	Antimony	14.3	J*D	11/19/2015	16:38:54
7440-38-2	Arsenic	19.5		11/19/2015	14:29:03
7440-39-3	Barium	47.3		11/19/2015	14:29:03
7440-41-7	Beryllium	0.49	J	11/19/2015	14:29:03
7440-43-9	Cadmium	9.9	*D	11/19/2015	16:38:54
7440-70-2	Calcium	2600		11/19/2015	14:29:03
7440-47-3	Chromium	483		11/19/2015	14:29:03
7440-48-4	Cobalt	11.3		11/19/2015	14:29:03
7440-50-8	Copper	97.8	*D	11/19/2015	16:38:54
7439-89-6	Iron	23700	*D	11/19/2015	16:38:54
7439-92-1	Lead	188	*D	11/19/2015	16:38:54
7439-95-4	Magnesium	6040		11/19/2015	14:29:03
7439-96-5	Manganese	251	*	11/19/2015	14:29:03
7440-02-0	Nickel	23.1	*D	11/19/2015	16:38:54
7440-09-7	Potassium	904		11/19/2015	14:29:03
7782-49-2	Selenium	4.4	U	11/19/2015	14:29:03
7440-22-4	Silver	1.3	U	11/19/2015	14:29:03
7440-23-5	Sodium	95.1	J	11/19/2015	14:29:03
7440-28-0	Thallium	0.70	J	11/19/2015	14:29:03
7440-62-2	Vanadium	15.6		11/19/2015	14:29:03
7440-66-6	Zinc	854		11/19/2015	14:29:03

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC787

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-013

% Solids: 50.2 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15600		11/19/2015	14:33:54
7440-36-0	Antimony	17.2	U*D	11/19/2015	16:43:40
7440-38-2	Arsenic	11.8		11/19/2015	14:33:54
7440-39-3	Barium	70.5		11/19/2015	14:33:54
7440-41-7	Beryllium	0.61	J	11/19/2015	14:33:54
7440-43-9	Cadmium	0.42	J*D	11/19/2015	16:43:40
7440-70-2	Calcium	2650		11/19/2015	14:33:54
7440-47-3	Chromium	120		11/19/2015	14:33:54
7440-48-4	Cobalt	10.7		11/19/2015	14:33:54
7440-50-8	Copper	57.5	*D	11/19/2015	16:43:40
7439-89-6	Iron	22400	*D	11/19/2015	16:43:40
7439-92-1	Lead	150	*D	11/19/2015	16:43:40
7439-95-4	Magnesium	5740		11/19/2015	14:33:54
7439-96-5	Manganese	291	*	11/19/2015	14:33:54
7440-02-0	Nickel	22.1	*D	11/19/2015	16:43:40
7440-09-7	Potassium	1420		11/19/2015	14:33:54
7782-49-2	Selenium	5.0	U	11/19/2015	14:33:54
7440-22-4	Silver	1.4	U	11/19/2015	14:33:54
7440-23-5	Sodium	121	J	11/19/2015	14:33:54
7440-28-0	Thallium	3.6	U	11/19/2015	14:33:54
7440-62-2	Vanadium	19.0		11/19/2015	14:33:54
7440-66-6	Zinc	104		11/19/2015	14:33:54

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC788

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-014

% Solids: 73.0 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9530		11/19/2015	14:38:47
7440-36-0	Antimony	13.2	U*D	11/19/2015	16:48:25
7440-38-2	Arsenic	2.0		11/19/2015	14:38:47
7440-39-3	Barium	25.5		11/19/2015	14:38:47
7440-41-7	Beryllium	0.31	J	11/19/2015	14:38:47
7440-43-9	Cadmium	0.11	J*D	11/19/2015	16:48:25
7440-70-2	Calcium	1150		11/19/2015	14:38:47
7440-47-3	Chromium	10.9		11/19/2015	14:38:47
7440-48-4	Cobalt	6.9		11/19/2015	14:38:47
7440-50-8	Copper	7.9	*D	11/19/2015	16:48:25
7439-89-6	Iron	18300	*D	11/19/2015	16:48:25
7439-92-1	Lead	5.8	*D	11/19/2015	16:48:25
7439-95-4	Magnesium	4680		11/19/2015	14:38:47
7439-96-5	Manganese	182	*	11/19/2015	14:38:47
7440-02-0	Nickel	15.3	*D	11/19/2015	16:48:25
7440-09-7	Potassium	806		11/19/2015	14:38:47
7782-49-2	Selenium	3.9	U	11/19/2015	14:38:47
7440-22-4	Silver	1.1	U	11/19/2015	14:38:47
7440-23-5	Sodium	56.8	J	11/19/2015	14:38:47
7440-28-0	Thallium	2.8	U	11/19/2015	14:38:47
7440-62-2	Vanadium	10.4		11/19/2015	14:38:47
7440-66-6	Zinc	45.9		11/19/2015	14:38:47

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC789

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-015

% Solids: 58.6 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13000		11/19/2015	14:43:31
7440-36-0	Antimony	16.0	U*D	11/19/2015	16:53:11
7440-38-2	Arsenic	3.8		11/19/2015	14:43:31
7440-39-3	Barium	49.4		11/19/2015	14:43:31
7440-41-7	Beryllium	0.50	J	11/19/2015	14:43:31
7440-43-9	Cadmium	0.15	J*D	11/19/2015	16:53:11
7440-70-2	Calcium	1860		11/19/2015	14:43:31
7440-47-3	Chromium	17.5		11/19/2015	14:43:31
7440-48-4	Cobalt	8.9		11/19/2015	14:43:31
7440-50-8	Copper	16.4	*D	11/19/2015	16:53:11
7439-89-6	Iron	22000	*D	11/19/2015	16:53:11
7439-92-1	Lead	51.4	*D	11/19/2015	16:53:11
7439-95-4	Magnesium	5120		11/19/2015	14:43:31
7439-96-5	Manganese	248	*	11/19/2015	14:43:31
7440-02-0	Nickel	19.8	*D	11/19/2015	16:53:11
7440-09-7	Potassium	1150		11/19/2015	14:43:31
7782-49-2	Selenium	4.7	U	11/19/2015	14:43:31
7440-22-4	Silver	1.3	U	11/19/2015	14:43:31
7440-23-5	Sodium	88.5	J	11/19/2015	14:43:31
7440-28-0	Thallium	3.3	U	11/19/2015	14:43:31
7440-62-2	Vanadium	15.3		11/19/2015	14:43:31
7440-66-6	Zinc	63.4		11/19/2015	14:43:31

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC790

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-017

% Solids: 74.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9860		11/19/2015	14:53:17
7440-36-0	Antimony	2.7	J*D	11/19/2015	16:57:57
7440-38-2	Arsenic	8.4		11/19/2015	14:53:17
7440-39-3	Barium	29.6		11/19/2015	14:53:17
7440-41-7	Beryllium	0.35	J	11/19/2015	14:53:17
7440-43-9	Cadmium	4.0	*D	11/19/2015	16:57:57
7440-70-2	Calcium	1860		11/19/2015	14:53:17
7440-47-3	Chromium	117		11/19/2015	14:53:17
7440-48-4	Cobalt	8.3		11/19/2015	14:53:17
7440-50-8	Copper	55.9	*D	11/19/2015	16:57:57
7439-89-6	Iron	20300	*D	11/19/2015	16:57:57
7439-92-1	Lead	72.4	*D	11/19/2015	16:57:57
7439-95-4	Magnesium	5430		11/19/2015	14:53:17
7439-96-5	Manganese	216	*	11/19/2015	14:53:17
7440-02-0	Nickel	18.3	*D	11/19/2015	16:57:57
7440-09-7	Potassium	914		11/19/2015	14:53:17
7782-49-2	Selenium	4.6	U	11/19/2015	14:53:17
7440-22-4	Silver	1.3	U	11/19/2015	14:53:17
7440-23-5	Sodium	64.7	J	11/19/2015	14:53:17
7440-28-0	Thallium	3.3	U	11/19/2015	14:53:17
7440-62-2	Vanadium	11.5		11/19/2015	14:53:17
7440-66-6	Zinc	424		11/19/2015	14:53:17

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC791

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-018

% Solids: 79.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12600	▪		11/19/2015	14:58:03
7440-36-0	Antimony	29.6	▪	U*D	11/19/2015	17:02:43
7440-38-2	Arsenic	1.7	▪		11/19/2015	14:58:03
7440-39-3	Barium	27.5	▪		11/19/2015	14:58:03
7440-41-7	Beryllium	0.40	▪	J	11/19/2015	14:58:03
7440-43-9	Cadmium	0.20	▪	J*D	11/19/2015	17:02:43
7440-70-2	Calcium	1120	▪		11/19/2015	14:58:03
7440-47-3	Chromium	16.9	▪		11/19/2015	14:58:03
7440-48-4	Cobalt	10.8	▪		11/19/2015	14:58:03
7440-50-8	Copper	13.1	▪	*D	11/19/2015	17:02:43
7439-89-6	Iron	28400	▪	*D	11/19/2015	17:02:43
7439-92-1	Lead	11.4	▪	*D	11/19/2015	17:02:43
7439-95-4	Magnesium	5360	▪		11/19/2015	14:58:03
7439-96-5	Manganese	291	▪	*	11/19/2015	14:58:03
7440-02-0	Nickel	21.3	▪	*D	11/19/2015	17:02:43
7440-09-7	Potassium	715	▪		11/19/2015	14:58:03
7782-49-2	Selenium	3.4	▪	U	11/19/2015	14:58:03
7440-22-4	Silver	0.99	▪	U	11/19/2015	14:58:03
7440-23-5	Sodium	45.4	▪	J	11/19/2015	14:58:03
7440-28-0	Thallium	0.41	▪	J	11/19/2015	14:58:03
7440-62-2	Vanadium	10.9	▪		11/19/2015	14:58:03
7440-66-6	Zinc	76.7	▪		11/19/2015	14:58:03

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC792

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-019

% Solids: 72.6 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11100	▪		11/19/2015	15:02:55
7440-36-0	Antimony	11.2	▪	U*D	11/19/2015	17:07:30
7440-38-2	Arsenic	5.2	▪		11/19/2015	15:02:55
7440-39-3	Barium	33.4	▪		11/19/2015	15:02:55
7440-41-7	Beryllium	0.39	▪	J	11/19/2015	15:02:55
7440-43-9	Cadmium	0.76	▪	J*D	11/19/2015	17:07:30
7440-70-2	Calcium	1380	▪		11/19/2015	15:02:55
7440-47-3	Chromium	54.3	▪		11/19/2015	15:02:55
7440-48-4	Cobalt	7.8	▪		11/19/2015	15:02:55
7440-50-8	Copper	20.8	▪	*D	11/19/2015	17:07:30
7439-89-6	Iron	22000	▪	*D	11/19/2015	17:07:30
7439-92-1	Lead	53.1	▪	*D	11/19/2015	17:07:30
7439-95-4	Magnesium	5320	▪		11/19/2015	15:02:55
7439-96-5	Manganese	215	▪	*	11/19/2015	15:02:55
7440-02-0	Nickel	18.4	▪	*D	11/19/2015	17:07:30
7440-09-7	Potassium	811	▪		11/19/2015	15:02:55
7782-49-2	Selenium	3.3	▪	U	11/19/2015	15:02:55
7440-22-4	Silver	0.93	▪	U	11/19/2015	15:02:55
7440-23-5	Sodium	59.4	▪	J	11/19/2015	15:02:55
7440-28-0	Thallium	2.3	▪	U	11/19/2015	15:02:55
7440-62-2	Vanadium	12.0	▪		11/19/2015	15:02:55
7440-66-6	Zinc	135	▪		11/19/2015	15:02:55

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC793

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-020

% Solids: 57.3 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8950		11/19/2015	15:07:47
7440-36-0	Antimony	0.89	J*	11/19/2015	15:07:47
7440-38-2	Arsenic	5.7		11/19/2015	15:07:47
7440-39-3	Barium	44.2		11/19/2015	15:07:47
7440-41-7	Beryllium	0.42	J	11/19/2015	15:07:47
7440-43-9	Cadmium	1.4	*	11/19/2015	15:07:47
7440-70-2	Calcium	2470		11/19/2015	15:07:47
7440-47-3	Chromium	57.5		11/19/2015	15:07:47
7440-48-4	Cobalt	8.0		11/19/2015	15:07:47
7440-50-8	Copper	69.6	*	11/19/2015	15:07:47
7439-89-6	Iron	17000	*	11/19/2015	15:07:47
7439-92-1	Lead	106	*	11/19/2015	15:07:47
7439-95-4	Magnesium	4160		11/19/2015	15:07:47
7439-96-5	Manganese	268	*	11/19/2015	15:07:47
7440-02-0	Nickel	15.8	*	11/19/2015	15:07:47
7440-09-7	Potassium	842		11/19/2015	15:07:47
7782-49-2	Selenium	4.6	U	11/19/2015	15:07:47
7440-22-4	Silver	1.3	U	11/19/2015	15:07:47
7440-23-5	Sodium	107	J	11/19/2015	15:07:47
7440-28-0	Thallium	3.3	U	11/19/2015	15:07:47
7440-62-2	Vanadium	12.2		11/19/2015	15:07:47
7440-66-6	Zinc	189		11/19/2015	15:07:47

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-016

% Solids: 49.4 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13700		11/19/2015	14:48:24
7440-36-0	Antimony	10.6	U*	11/19/2015	14:48:24
7440-38-2	Arsenic	4.8		11/19/2015	14:48:24
7440-39-3	Barium	47.5		11/19/2015	14:48:24
7440-41-7	Beryllium	0.60	J	11/19/2015	14:48:24
7440-43-9	Cadmium	0.18	J*	11/19/2015	14:48:24
7440-70-2	Calcium	2810		11/19/2015	14:48:24
7440-47-3	Chromium	19.8		11/19/2015	14:48:24
7440-48-4	Cobalt	11.1		11/19/2015	14:48:24
7440-50-8	Copper	19.2	*	11/19/2015	14:48:24
7439-89-6	Iron	26000	*	11/19/2015	14:48:24
7439-92-1	Lead	13.4	*	11/19/2015	14:48:24
7439-95-4	Magnesium	5980		11/19/2015	14:48:24
7439-96-5	Manganese	385	*	11/19/2015	14:48:24
7440-02-0	Nickel	25.0	*	11/19/2015	14:48:24
7440-09-7	Potassium	1280		11/19/2015	14:48:24
7782-49-2	Selenium	6.2	U	11/19/2015	14:48:24
7440-22-4	Silver	1.8	U	11/19/2015	14:48:24
7440-23-5	Sodium	155	J	11/19/2015	14:48:24
7440-28-0	Thallium	4.4	U	11/19/2015	14:48:24
7440-62-2	Vanadium	21.0		11/19/2015	14:48:24
7440-66-6	Zinc	74.0		11/19/2015	14:48:24

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

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5111915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2540	101	2	50000	50400	101	0	48600	97	1
Antimony	994	987	99	0	2500	2430	97	0	2460	98	0
Arsenic	999	1010	101	0	2500	2470	99	0	2490	100	0
Barium	497	515	104	1	10000	10200	102	0	9930	99	1
Beryllium	495	521	105	1	1000	1050	105	2	1040	104	3
Cadmium	496	483	97	0	1000	968	97	0	986	99	0
Calcium	10000	10700	107	1	50000	52100	104	0	50600	101	1
Chromium	490	507	103	1	10000	9860	99	2	10100	101	2
Cobalt	499	488	98	0	5000	4730	95	0	4790	96	0
Copper	492	499	101	1	12500	12200	98	2	12400	99	1
Iron	5080	5300	104	1	25000	25800	103	0	25000	100	1
Lead	1000	939	94	0	10000	9240	92	0	9340	93	0
Magnesium	6070	6320	104	2	50000	50700	101	0	49200	98	1
Manganese	499	528	106	1	5000	4990	100	0	5020	100	3
Nickel	503	492	98	0	5000	4750	95	0	4770	95	0
Potassium	10000	10600	106	1	37500	38200	102	0	37000	99	1
Selenium	1030	996	97	0	1250	1240	99	0	1250	100	0
Silver	501	509	102	1	750	741	99	2	761	101	2
Sodium	10100	11000	109	1	25000	26400	106	0	26000	104	1
Thallium	1030	991	96	0	1000	903	90	0	924	92	0
Vanadium	501	511	102	1	2500	2500	100	2	2530	101	2
Zinc	1030	1000	98	0	5000	4850	97	0	4880	98	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5111915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	48900	98	0	49200	98	3
Antimony					2500	2480	99	0	2470	99	1
Arsenic					2500	2510	100	0	2510	100	1
Barium					10000	10000	100	1	10200	102	3
Beryllium					1000	1020	102	2	1070	107	1
Cadmium					1000	994	99	0	991	99	1
Calcium					50000	50600	101	1	51300	103	3
Chromium					10000	9930	99	2	10300	103	1
Cobalt					5000	4850	97	0	4830	97	1
Copper					12500	12100	97	2	12700	102	1
Iron					25000	24900	100	1	25100	100	3
Lead					10000	9440	94	0	9430	94	1
Magnesium					50000	49100	98	0	49400	99	3
Manganese					5000	4990	100	3	5150	103	1
Nickel					5000	4810	96	0	4820	96	1
Potassium					37500	37600	100	1	38200	102	3
Selenium					1250	1260	101	0	1250	100	1
Silver					750	749	100	2	772	103	1
Sodium					25000	26300	105	1	26800	107	3
Thallium					1000	934	93	0	928	93	1
Vanadium					2500	2500	100	2	2590	104	1
Zinc					5000	4940	99	0	4930	99	1

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112015B ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2770	110	1	50000	51400	103	1	51700	103	0

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: ICP-AES Preparation Batch: 89663

Run Batch: I5111915A ISM Preparation Method 3050B

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Calcium	5000	U	5000	U	5000	U	5000	U	8.2	J
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Iron	100	U	100	U	100	U	100	U	10.0	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	5000	U	5000	U	54.9	J	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	1.5	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	276	J	107	J	205	J	135	J	500	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	500	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix:

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

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5111915A ISM Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID:	Q	ID:	Q	ID:	Q
Aluminum			200	U						
Antimony			60.0	U						
Arsenic			10.0	U						
Barium			200	U						
Beryllium			5.0	U						
Cadmium			5.0	U						
Calcium			5000	U						
Chromium			10.0	U						
Cobalt			50.0	U						
Copper			25.0	U						
Iron			100	U						
Lead			10.0	U						
Magnesium			5000	U						
Manganese			15.0	U						
Nickel			40.0	U						
Potassium			5000	U						
Selenium			35.0	U						
Silver			10.0	U						
Sodium			5000	U						
Thallium			25.0	U						
Vanadium			50.0	U						
Zinc			60.0	U						

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix:

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

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5112015B ISM Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB002	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q	ID:	Q
Aluminum	200	U	200	U	200	U				

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112015B ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	259000	102	258000	105
Antimony	0.00	618	6.5	0	592	96
Arsenic	0.00	104	-3.2	0	95.8	92
Barium	6.0	537	7.2	120	528	98
Beryllium	0.0000	495	0.19	0	543	110
Cadmium	1.0	972	1.2	120	1000	103
Calcium	245000	235000	252000	103	255000	109
Chromium	52.0	542	57.3	110	552	102
Cobalt	0.000	476	-0.67	0	464	97
Copper	2.0	511	-1.7	-85	502	98
Iron	101000	99300	100000	99	102000	103
Lead	0.00	49.0	-3.0	0	40.3	82
Magnesium	255000	248000	260000	102	264000	106
Manganese	7.0	507	17.9	256	538	106
Nickel	2.0	954	3.3	165	928	97
Selenium	0.00	46.0	-1.1	0	48.0	104
Silver	0.00	201	-0.01	0	208	103
Thallium	0.00	108	0.21	0	88.9	82
Vanadium	0.00	491	2.0	0	502	102
Zinc	0.00	952	1.1	0	964	101

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112015B ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	272000	107	267000	108

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC775S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 69.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	7.5	J	3.0	J	23.6	19	*D
Arsenic	75 - 125	13.2		4.7		9.4	90	
Barium	75 - 125	468		32.6		472	92	
Beryllium	75 - 125	11.8		0.43	J	11.8	96	
Cadmium	75 - 125	11.2		0.55	J	11.8	90	D
Chromium	75 - 125	67.8		26.5		47.2	88	
Cobalt	75 - 125	110		9.1		118	86	
Copper	75 - 125	77.6		22.0		59.0	94	D
Lead		23.8		22.0		4.7	38	D
Manganese	75 - 125	365		294		118	60	*
Nickel	75 - 125	125		21.2		118	88	D
Selenium	75 - 125	20.6		4.1	U	23.6	87	
Silver	75 - 125	10.8		1.2	U	11.8	92	
Thallium	75 - 125	10.2		0.44	J	11.8	83	
Vanadium	75 - 125	121		16.1		118	89	
Zinc	75 - 125	202		98.6		118	88	

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC775A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: ICP4 ISM02.2

% Solids:

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		137	D	26.9	JD	120	92	
Manganese		2580		2640		30.0	-200	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC775D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 69.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		12200		12300		1	
Antimony		3.0	J	3.2	J		
Arsenic	1.1	4.7		5.3		12	
Barium	22.9	32.6		35.5		9	
Beryllium		0.43	J	0.44	J		
Cadmium		0.55	J	0.65	J		
Calcium	571	2580		3070		17	
Chromium		26.5		29.0		9	
Cobalt	5.7	9.1		8.9		2	
Copper	5.7	22.0		25.9		16	
Iron		26100		24100		8	
Lead		22.0		37.8		53	*
Magnesium		6840		6330		8	
Manganese		294		287		2	
Nickel	9.1	21.2		21.0		1	
Potassium	571	1140		1200		5	
Selenium		4.0	U	4.0	U		
Silver		1.1	U	1.1	U		
Sodium		148	J	165	J		
Thallium		0.44	J	2.9	U		
Vanadium	5.7	16.1		16.2		1	
Zinc		98.6		110		11	

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 89663

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

Analyte	True	Found	%R
Aluminum	40.0	37.7	94
Antimony	12.0	11.3	94
Arsenic	2.0	1.9	95
Barium	40.0	39.1	98
Beryllium	1.0	0.97	97
Cadmium	1.0	0.92	92
Calcium	1000	1030	103
Chromium	2.0	1.9	95
Cobalt	10.0	9.3	93
Copper	5.0	4.8	96
Iron	20.0	20.6	103
Lead	2.0	1.8	90
Magnesium	1000	1010	101
Manganese	3.0	3.0	100
Nickel	8.0	7.4	92
Potassium	1000	975	98
Selenium	7.0	6.6	94
Silver	2.0	1.9	95
Sodium	1000	1050	105
Thallium	5.0	4.5	90
Vanadium	10.0	9.4	94
Zinc	12.0	11.3	94

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC775L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	110000		117000		6	
Antimony	26.9		6.5	J	76	*
Arsenic	42.0		41.5		1	
Barium	293		306		4	
Beryllium	3.8		4.1		8	
Cadmium	4.9		1.0		80	*
Calcium	23200		24000		3	
Chromium	238		249		5	
Cobalt	82.0		89.1		9	
Copper	198		40.0		80	*
Iron	235000		48400		79	*
Lead	197		41.9		79	*
Magnesium	61500		64000		4	
Manganese	2640		2830		7	
Nickel	191		39.4		79	*
Potassium	10200		10300		1	
Selenium	4.3		17.5	U		
Silver	1.0	U	1.2	J		
Sodium	1330		1400	J	5	
Thallium	4.0		5.1	J	28	
Vanadium	145		152		5	
Zinc	886		953		8	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	7.6	02/07/2015
Antimony	206.83	0.35	02/07/2015
Arsenic	189.04	0.39	02/07/2015
Barium	455.40	0.20	02/07/2015
Beryllium	313.04	0.0079	02/07/2015
Cadmium	228.80	0.040	02/07/2015
Calcium	422.67	6.9	02/07/2015
Chromium	267.72	0.012	02/07/2015
Cobalt	228.62	0.068	02/07/2015
Copper	327.40	0.24	02/07/2015
Iron	261.19	2.6	02/07/2015
Lead	220.35	0.28	02/07/2015
Magnesium	285.21	9.7	02/07/2015
Manganese	257.61	0.085	02/07/2015
Nickel	231.60	0.21	02/07/2015
Potassium	766.49	11.0	02/07/2015
Selenium	196.09	0.62	02/07/2015
Silver	328.07	0.19	02/07/2015
Sodium	589.59	4.9	02/07/2015
Thallium	190.86	0.36	02/07/2015
Vanadium	292.40	0.13	02/07/2015
Zinc	206.20	0.26	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/19/2015 End Date: 11/19/2015

Run Batch: I5111915A ISM

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	1103	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1108	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1113	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1118	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1123		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1128		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1134	X						X				X		X				X			X						
S07	1.0	1138	X						X				X		X													
S08	1.0	1143																	X			X						
S09	1.0	1148																				X						
S10	1.0	1153																	X									
ICV001	1.0	1157	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB001	1.0	1202	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA001	1.0	1207	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB001	1.0	1212	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1217	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1222	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1227																										
ZZZZZZ	1.0	1232																										
ZZZZZZ	1.0	1236																										
ZZZZZZ	1.0	1241																										
ZZZZZZ	1.0	1246																										
ZZZZZZ	1.0	1251																										
PBS	1.0	1256	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1301		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC775	1.0	1306	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC775L	5.0	1311	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC775D	1.0	1315	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC775S	1.0	1320			X	X	X			X	X					X				X	X		X	X	X			
MBC775A	1.0	1325														X												
MBC776	1.0	1330	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC777	1.0	1335	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC778	1.0	1340	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC779	1.0	1345	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC780	1.0	1349	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC781	1.0	1354	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC782	1.0	1359	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
CCV002	1.0	1404	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/19/2015 End Date: 11/19/2015

Run Batch: I5111915A ISM

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		
CCB002	1.0	1409	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC783	1.0	1414	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC784	1.0	1419	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC785	1.0	1424	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC786	1.0	1429	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC787	1.0	1433	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC788	1.0	1438	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC789	1.0	1443	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7H7	1.0	1448	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC790	1.0	1453	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC791	1.0	1458	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC792	1.0	1502	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC793	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1512																										
ZZZZZZ	5.0	1517																										
MBC775	2.0	1522		X				X				X	X	X				X										
MBC775L	2.0	1526		X				X				X	X	X				X										
MBC775D	2.0	1531		X				X				X	X	X				X										
MBC775S	2.0	1536		X				X				X		X				X										
MBC775A	2.0	1541		X																								
MBC776	2.0	1546		X				X				X	X	X				X										
MBC777	2.0	1550		X				X				X	X	X				X										
CCV003	1.0	1555	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB003	1.0	1600	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC778	2.0	1605		X				X				X	X	X				X										
MBC779	2.0	1610		X				X				X	X	X				X										
MBC780	2.0	1615		X				X				X	X	X				X										
MBC781	2.0	1619		X				X				X	X	X				X										
MBC782	2.0	1624		X				X				X	X	X				X										
MBC783	2.0	1629		X				X				X	X	X				X										
MBC785	2.0	1634		X				X				X	X	X				X										
MBC786	2.0	1638		X				X				X	X	X				X										
MBC787	2.0	1643		X				X				X	X	X				X										
MBC788	2.0	1648		X				X				X	X	X				X										
MBC789	2.0	1653		X				X				X	X	X				X										
MBC790	2.0	1657		X				X				X	X	X				X										
MBC791	5.0	1702		X				X				X	X	X				X										
MBC792	2.0	1707		X				X				X	X	X				X										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/19/2015 End Date: 11/19/2015

Run Batch: I5111915A ISM

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		
CCV004	1.0	1712	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	1717	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: I5112015B ISM

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	1736	X																									
S01	1.0	1741	X																									
S02	1.0	1746	X																									
S03	1.0	1751	X																									
S04	1.0	1756																										
S05	1.0	1802																										
S06	1.0	1807	X																									
S07	1.0	1812	X																									
S08	1.0	1817																										
S09	1.0	1821																										
S10	1.0	1826																										
ICV002	1.0	1831	X																									
ICB002	1.0	1836	X																									
ICSA002	1.0	1841	X																									
ICSAB002	1.0	1845	X																									
CCV005	1.0	1850	X																									
CCB005	1.0	1856	X																									
ZZZZZZ	1.0	1901																										
ZZZZZZ	1.0	1906																										
ZZZZZZ	1.0	1911																										
LCS	1.0	1915	X																									
ZZZZZZ	1.0	1920																										
ZZZZZZ	5.0	1925																										
ZZZZZZ	1.0	1930																										
ZZZZZZ	1.0	1935																										
ZZZZZZ	1.0	1939																										
ZZZZZZ	1.0	1944																										
ZZZZZZ	1.0	1949																										
ZZZZZZ	1.0	1954																										
ZZZZZZ	1.0	1959																										
ZZZZZZ	1.0	2004																										
ZZZZZZ	1.0	2009																										
ZZZZZZ	1.0	2013																										
ZZZZZZ	1.0	2018																										
ZZZZZZ	1.0	2023																										
CCV006	1.0	2028	X																									
CCB006	1.0	2033	X																									
ZZZZZZ	1.0	2038																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: I5112015B ISM

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		
ZZZZZZ	1.0	2043																										
ZZZZZZ	1.0	2048																										
ZZZZZZ	1.0	2053																										
ZZZZZZ	1.0	2057																										
ZZZZZZ	1.0	2102																										
ZZZZZZ	1.0	2107																										
ZZZZZZ	1.0	2112																										
ZZZZZZ	1.0	2117																										
ZZZZZZ	1.0	2121																										
ZZZZZZ	5.0	2126																										
ZZZZZZ	2.0	2131																										
ZZZZZZ	2.0	2136																										
ZZZZZZ	2.0	2141																										
ZZZZZZ	2.0	2145																										
ZZZZZZ	2.0	2150																										
ZZZZZZ	2.0	2155																										
ZZZZZZ	2.0	2200																										
ZZZZZZ	1.0	2204																										
ZZZZZZ	1.0	2210																										
ZZZZZZ	2.0	2214																										
ZZZZZZ	2.0	2219																										
ZZZZZZ	2.0	2224																										
ZZZZZZ	2.0	2229																										
ZZZZZZ	2.0	2233																										
ZZZZZZ	2.0	2238																										
ZZZZZZ	2.0	2243																										
ZZZZZZ	2.0	2248																										
ZZZZZZ	2.0	2252																										
ZZZZZZ	2.0	2257																										
ZZZZZZ	2.0	2302																										
ZZZZZZ	2.0	2307																										
ZZZZZZ	5.0	2311																										
ZZZZZZ	2.0	2316																										
ZZZZZZ	1.0	2321																										
ZZZZZZ	1.0	2326																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/19/2015

Analytical Method: ICP-AES **Run Batch:** I5111915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	0.056	0	200	165	-18	800	705	-12
Antimony	0.00	0.0035	0	60.0	60	-1	240	229	-5
Arsenic	0.00	-0.00015	0	10.0	10	1	40.0	40	1
Barium	0.00	-0.0077	0	200	205	2	800	805	1
Beryllium	0.00	-0.00027	0	5.00	5.1	2	20.0	20	2
Cadmium	0.00	0.00070	0	5.00	4.8	-4	20.0	18	-9
Calcium	0.00	-0.82	0	5000	5359	7	20000	21112	6
Chromium	0.00	-0.00067	0	10.0	10	4	40.0	41	2
Cobalt	0.00	0.0046	0	50.0	49	-1	200	187	-6
Copper	0.00	0.00038	0	25.0	26	3	100	97	-3
Iron	0.00	-0.032	0	100	120	20	400	430	7
Lead	0.00	0.0017	0	10.0	9.3	-7	40.0	37	-7
Magnesium	0.00	-0.69	0	5000	5349	7	20000	20700	4
Manganese	0.00	-0.0017	0	15.0	16	7	60.0	62	3
Nickel	0.00	0.0037	0	40.0	39	-2	160	151	-6
Potassium	0.00	-0.64	0	5000	5120	2	20000	20530	3
Selenium	0.00	0.0022	0	35.0	34	-3	140	135	-4
Silver	0.00	0.00027	0	10.0	9.9	-1	40.0	39	-3
Sodium	0.00	-0.84	0	3000	3389	13	12000	13047	9
Thallium	0.00	0.0024	0	25.0	25	1	100	92	-8
Vanadium	0.00	-0.0012	0	50.0	51	2	200	199	0
Zinc	0.00	0.00062	0	60.0	61	1	240	234	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/20/2015

Analytical Method: ICP-AES **Run Batch:** I5112015B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.016	0	200	203	2	800	822	3

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/19/2015

Analytical Method: ICP-AES **Run Batch:** I5111915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	50211	0			0			
Antimony	2500	2433	-3	3750	3830	2	5000	4997	0
Arsenic	2500	2484	-1	3750	3807	2	5000	4958	-1
Barium	10000	10072	1	15000	15271	2	20000	19646	-2
Beryllium	1000	1025	2	1500	1510	1	2000	1965	-2
Cadmium	1000	980	-2	1500	1571	5	2000	2062	3
Calcium	50000	52115	4			0			
Chromium	10000	10008	0	15000	15516	3	20000	19475	-3
Cobalt	5000	4787	-4	7500	7676	2	10000	10050	1
Copper	12500	12001	-4	18750	19278	3	25000	24974	0
Iron	25000	25972	4			0			
Lead	10000	9393	-6	15000	15453	3	20000	20159	1
Magnesium	50000	51810	4			0			
Manganese	5000	5009	0	7500	7685	2	10000	9804	-2
Nickel	5000	4769	-5	7500	7711	3	10000	10030	0
Potassium	37500	38660	3			0			
Selenium	1250	1240	-1	1875	1910	2	2500	2482	-1
Silver	750	749	0	1125	1153	2	1500	1474	-2
Sodium	25000	26884	8			0			
Thallium	1000	925	-7	1500	1555	4	2000	2027	1
Vanadium	2500	2498	0	3750	3820	2	5000	4931	-1
Zinc	5000	4940	-1	7500	7652	2	10000	9913	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/20/2015

Analytical Method: ICP-AES **Run Batch:** I5112015B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	51410	3			0			

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/19/2015

Analytical Method: ICP-AES **Run Batch:** I5111915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	152470	2	300000	297460	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	152080	1	300000	294330	-2			
Chromium									
Cobalt									
Copper									
Iron	75000	76312	2	150000	147670	-2			
Lead									
Magnesium	150000	151900	1	300000	295300	-2			
Manganese									
Nickel									
Potassium	112500	111500	-1				56250	54640	-3
Selenium									
Silver									
Sodium	75000	76346	2				37500	38442	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/20/2015

Analytical Method: ICP-AES **Run Batch:** I5112015B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	153990	3	300000	294580	-2			

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/19/2015

Analytical Method: ICP-AES **Run Batch:** I5111915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10840	8			
Selenium									
Silver									
Sodium	100000	94392	-6						
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: ICP5 Start Date: 11/20/2015

Analytical Method: ICP-AES Run Batch: I5112015B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/19/2015

Analytical Method: ICP-AES **Run Batch:** I5111915A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	0.9999	0.996	0.00517	Lin. Req	Inverse Conc
Antimony	0.9998	1.00	-0.000467	Lin. Req	Inverse Conc
Arsenic	0.9999	0.999	-0.000227	Lin. Req	Inverse Conc
Barium	0.9998	0.996	-0.00431	Lin. Req	Inverse Conc
Beryllium	0.9998	0.994	0.000952	Lin. Req	Inverse Conc
Cadmium	0.9997	1.03	-0.000602	Lin. Req	Inverse Conc
Calcium	0.9999	0.986	0.00825	Lin. Req	Inverse Conc
Chromium	0.9995	0.995	0.000169	Lin. Req	Inverse Conc
Cobalt	0.9997	1.01	0.000394	Lin. Req	Inverse Conc
Copper	0.9997	1.00	-0.000189	Lin. Req	Inverse Conc
Iron	0.9999	0.990	0.000556	Lin. Req	Inverse Conc
Lead	0.9995	1.01	-0.000189	Lin. Req	Inverse Conc
Magnesium	0.9999	0.989	-0.000304	Lin. Req	Inverse Conc
Manganese	0.9997	0.996	0.0000130	Lin. Req	Inverse Conc
Nickel	0.9997	1.01	-0.000604	Lin. Req	Inverse Conc
Potassium	0.9998	0.989	0.0143	Lin. Req	Inverse Conc
Selenium	0.9999	1.00	-0.000124	Lin. Req	Inverse Conc
Silver	0.9998	0.997	0.0000520	Lin. Req	Inverse Conc
Sodium	0.9988	0.970	0.00968	Lin. Req	Inverse Conc
Thallium	0.9992	1.01	-0.000320	Lin. Req	Inverse Conc
Vanadium	0.9999	0.997	0.0000490	Lin. Req	Inverse Conc
Zinc	0.9999	1.000	-0.000309	Lin. Req	Inverse Conc

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

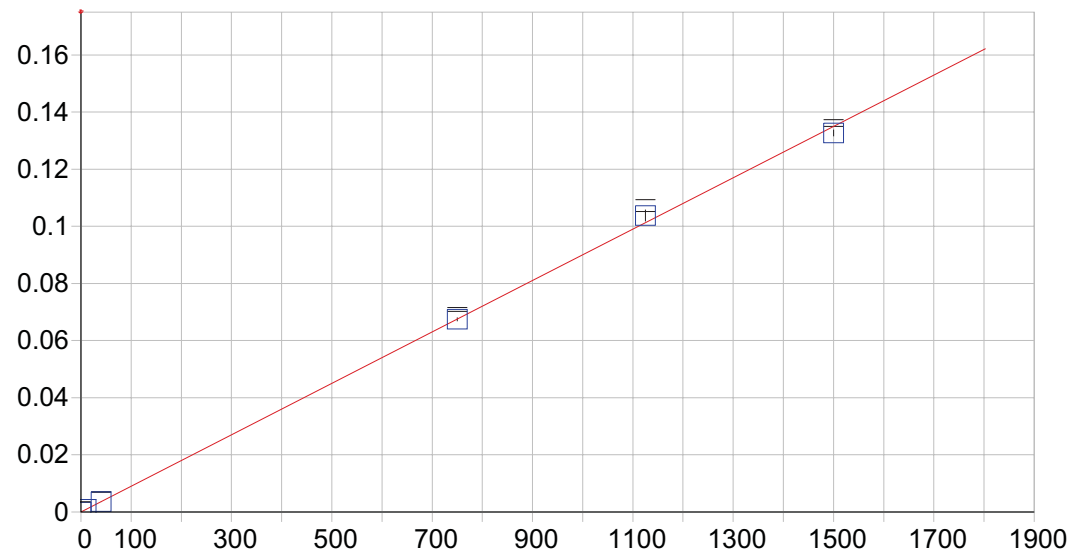
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: ICP5 **Start Date:** 11/20/2015

Analytical Method: ICP-AES **Run Batch:** I5112015B ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	0.9998	0.990	0.00364	Lin. Req	Inverse Conc

ICP-AES
Raw Data



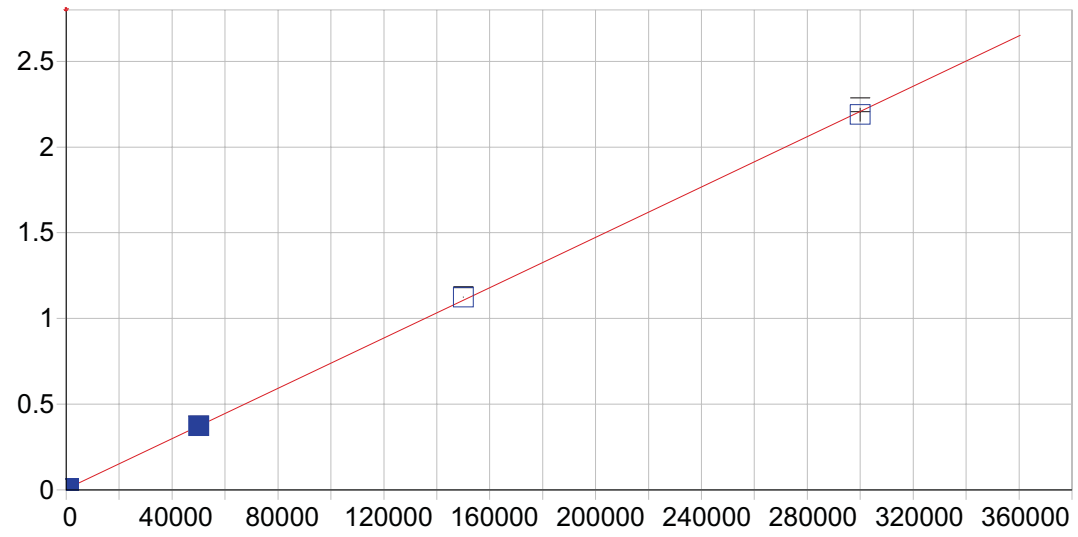
Ag 328.068 {103}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000052	Re-Slope:	1.000000
A1 (Gain):	0.000090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999830	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.462510		
Predicted MQL:	1.541701		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00027	.000	.000	.00005	.000	1
S01 ISM-520	10.000	9.9195	-.081	-.805	.00094	.000	1
S02 ISM-521	40.000	38.980	-1.02	-2.55	.00356	.000	1
S03 ISM-538	750.00	749.15	-.853	-.114	.06745	.001	1
S04 ISM-523	1125.0	1152.9	27.9	2.48	.10378	.002	1
S05 ISM-524	1500.0	1474.1	-25.9	-1.73	.13267	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



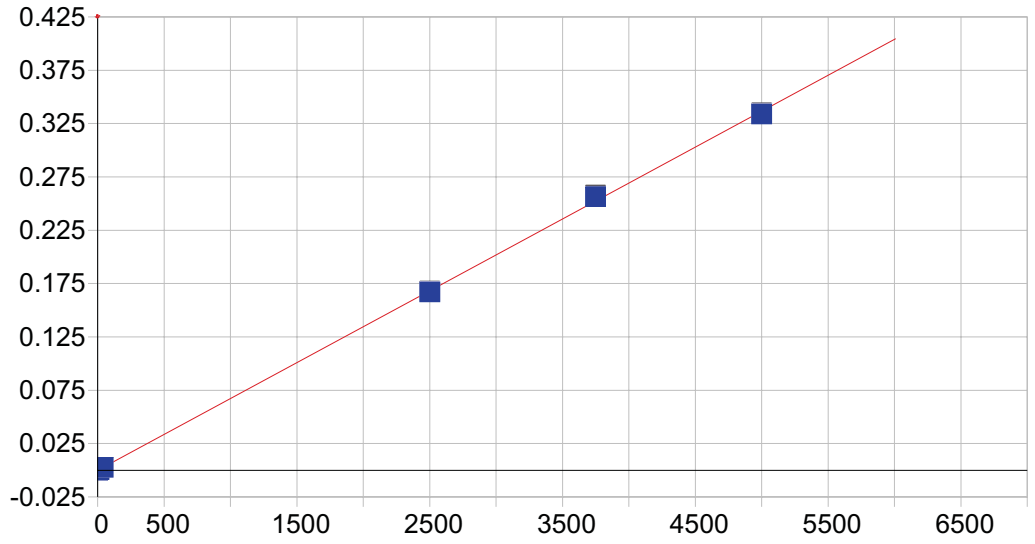
Al 308.215 {109}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005172	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	108.997764		
Predicted MQL:	363.325881		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.05639	.056	.000	.00517	.000	1
S01 ISM-520	200.00	165.04	-35.0	-17.5	.00640	.000	1
S02 ISM-521	800.00	704.57	-95.4	-11.9	.01042	.001	1
S03 ISM-538	50000.	50210.	210.	.420	.37465	.001	1
S06 ISM-463	150000.	152470.	2470.	1.64	1.1244	.002	1
S07 ISM-464	300000.	297460.	-2540.	-.848	2.1888	.041	1

PDF created with pdfFactory trial version www.pdffactory.com



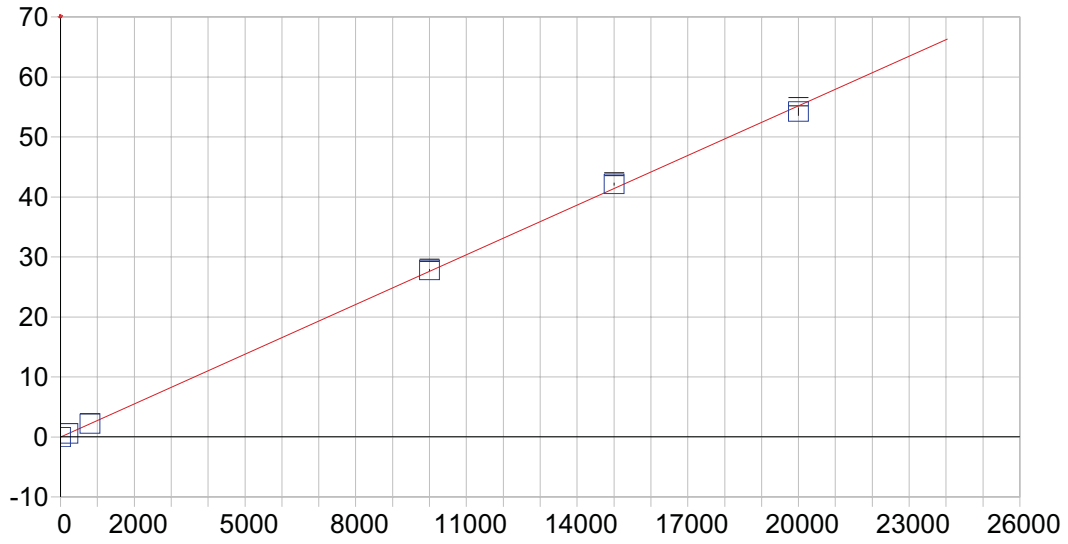
As 189.042 {478}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000227	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	1.208647		
Predicted MQL:	4.028823		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	-.00023	.000	1
S01 ISM-520	10.000	10.087	.087	.869	.00045	.000	1
S02 ISM-521	40.000	40.239	.239	.597	.00249	.000	1
S03 ISM-538	2500.0	2484.2	-15.8	-.631	.16755	.000	1
S04 ISM-523	3750.0	3807.6	57.6	1.54	.25688	.001	1
S05 ISM-524	5000.0	4957.8	-42.2	-.844	.33457	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



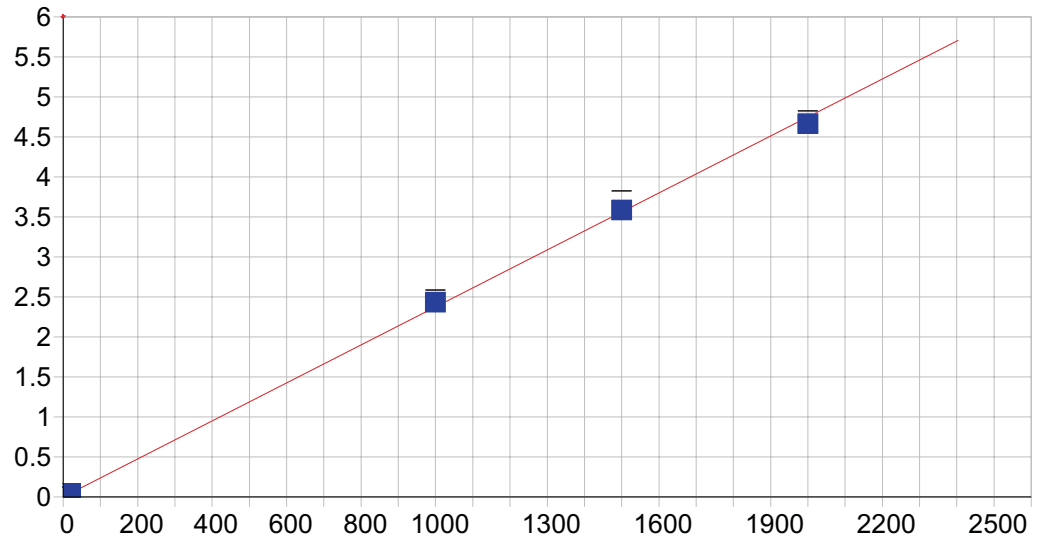
Ba 455.403 { 74}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004313	Re-Slope:	1.000000
A1 (Gain):	0.002759	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	0.005196		
Predicted MDL:	0.916650		
Predicted MQL:	3.055501		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00774	-.008	.000	-.00433	.001	1
S01 ISM-520	200.00	204.95	4.95	2.47	.56121	.016	1
S02 ISM-521	800.00	805.08	5.08	.635	2.2172	.010	1
S03 ISM-538	10000.	10072.	72.2	.722	27.789	.182	1
S04 ISM-523	15000.	15271.	271.	1.81	42.135	.233	1
S05 ISM-524	20000.	19646.	-354.	-1.77	54.208	.681	1

PDF created with pdfFactory trial version www.pdffactory.com



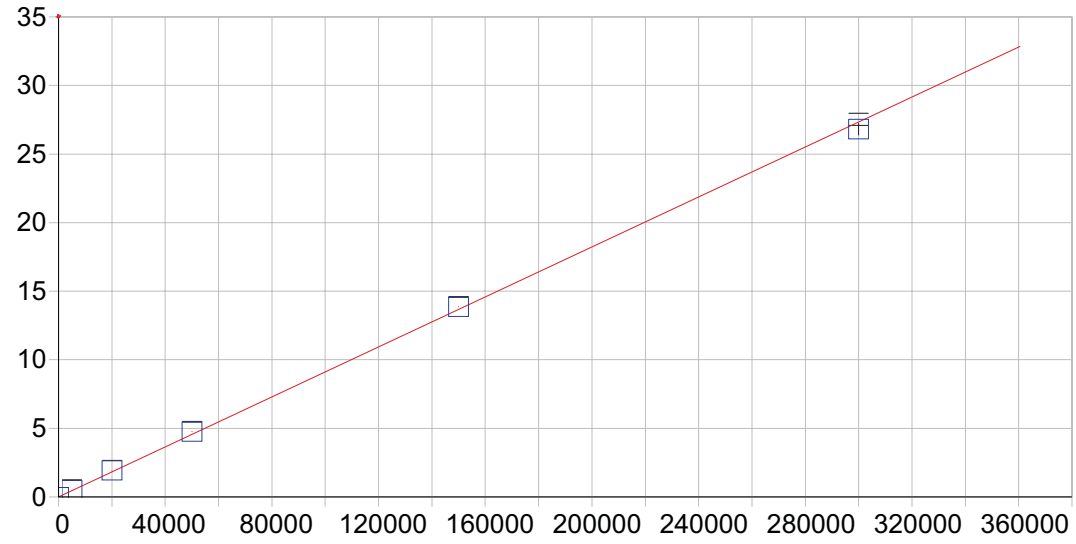
Be 313.042 {108}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000952	Re-Slope:	1.000000
A1 (Gain):	0.002374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.000236		
Predicted MDL:	0.014848		
Predicted MQL:	0.049492		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00027	-.000	.000	.00095	.000	1
S01 ISM-520	5.0000	5.1050	.105	2.10	.01312	.000	1
S02 ISM-521	20.000	20.372	.372	1.86	.04952	.000	1
S03 ISM-538	1000.0	1024.9	24.9	2.49	2.4364	.028	1
S04 ISM-523	1500.0	1509.9	9.92	.661	3.5892	.113	1
S05 ISM-524	2000.0	1964.7	-35.3	-1.76	4.6702	.036	1

PDF created with pdfFactory trial version www.pdffactory.com



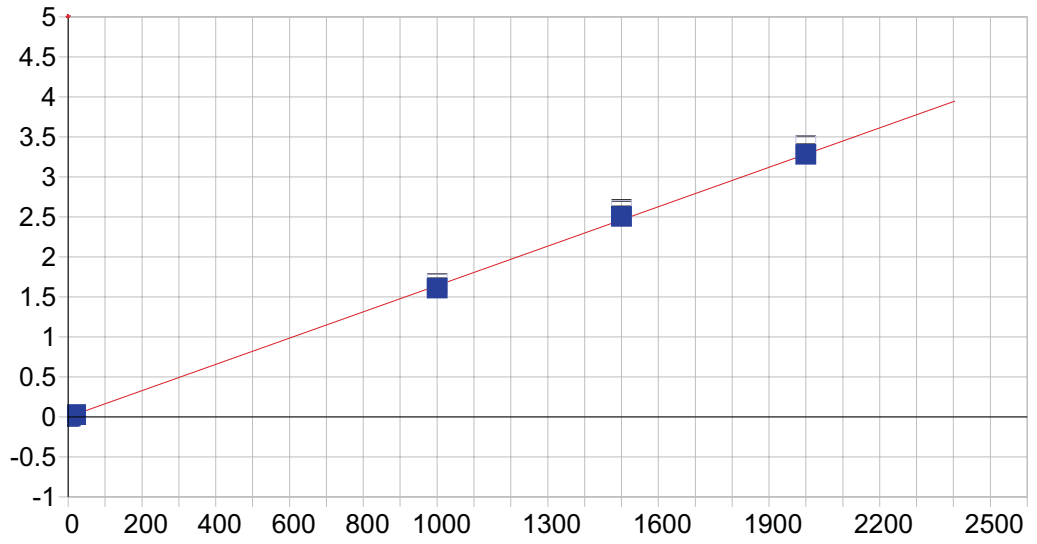
Ca 317.933 {106}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008253	Re-Slope:	1.000000
A1 (Gain):	0.000091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999702	Status:	OK.
Std Error of Est:	0.004413		
Predicted MDL:	11.222190		
Predicted MQL:	37.407300		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.82339	-.823	.000	.00818	.001	1
S01 ISM-520	5000.0	5358.9	359.	7.18	.49638	.011	1
S02 ISM-521	20000.	21112.	1110.	5.56	1.9313	.012	1
S03 ISM-538	50000.	52115.	2110.	4.23	4.7553	.023	1
S06 ISM-463	150000.	152080.	2080.	1.39	13.861	.017	1
S07 ISM-464	300000.	294330.	-5670.	-1.89	26.818	.440	1

PDF created with pdfFactory trial version www.pdffactory.com



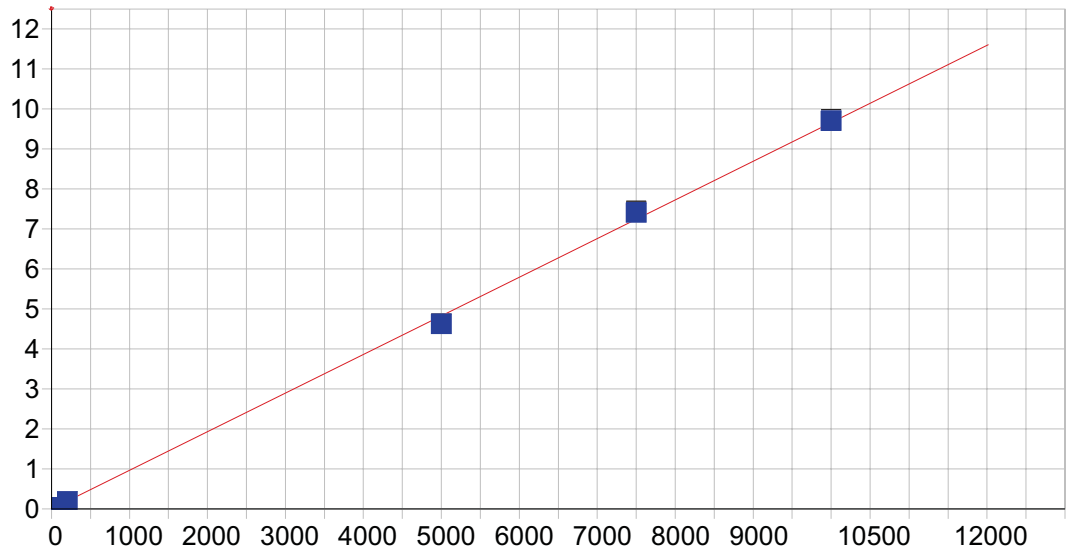
Cd 228.802 {447}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000602	Re-Slope:	1.000000
A1 (Gain):	0.001642	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.174991		
Predicted MQL:	0.583303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	-.00060	.000	1
S01 ISM-520	5.0000	4.7837	-.216	-4.33	.00746	.000	1
S02 ISM-521	20.000	18.301	-1.70	-8.49	.03029	.000	1
S03 ISM-538	1000.0	979.59	-20.4	-2.04	1.6605	.002	1
S04 ISM-523	1500.0	1523.8	23.8	1.58	2.5802	.010	1
S05 ISM-524	2000.0	1998.5	-1.45	-.073	3.3861	.006	1

PDF created with pdfFactory trial version www.pdffactory.com



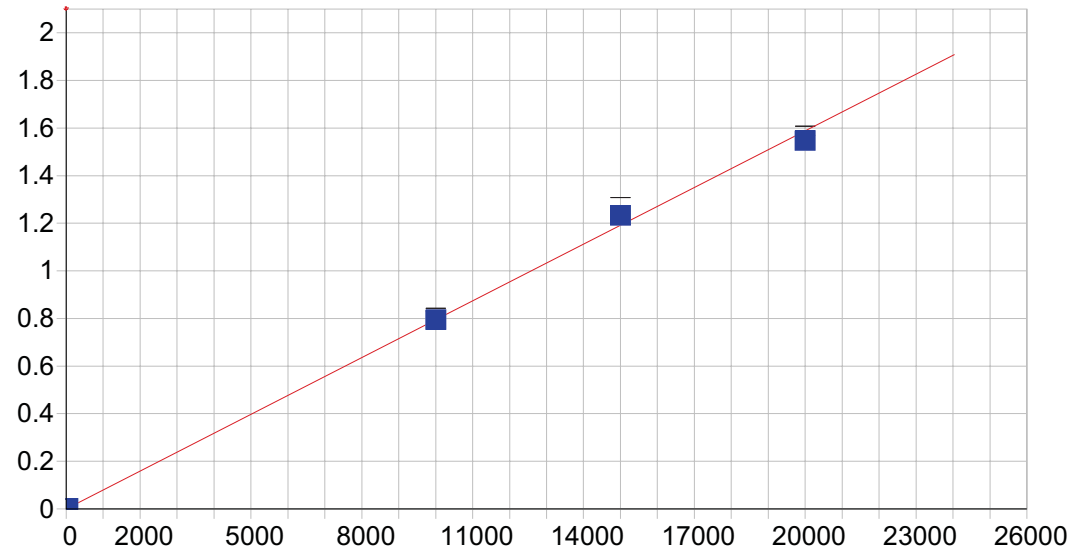
Co 228.616 {447}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000394	Re-Slope:	1.000000
A1 (Gain):	0.000966	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999686	Status:	OK.
Std Error of Est:	0.001000		
Predicted MDL:	0.173849		
Predicted MQL:	0.579497		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00457	.005	.000	.00040	.000	1
S01 ISM-520	50.000	49.316	-.684	-1.37	.04813	.000	1
S02 ISM-521	200.00	187.29	-12.7	-6.36	.18148	.002	1
S03 ISM-538	5000.0	4786.8	-213.	-4.26	4.6254	.003	1
S04 ISM-523	7500.0	7676.3	176.	2.35	7.4169	.030	1
S05 ISM-524	10000.	10050.	50.3	.503	9.7107	.027	1

PDF created with pdfFactory trial version www.pdffactory.com



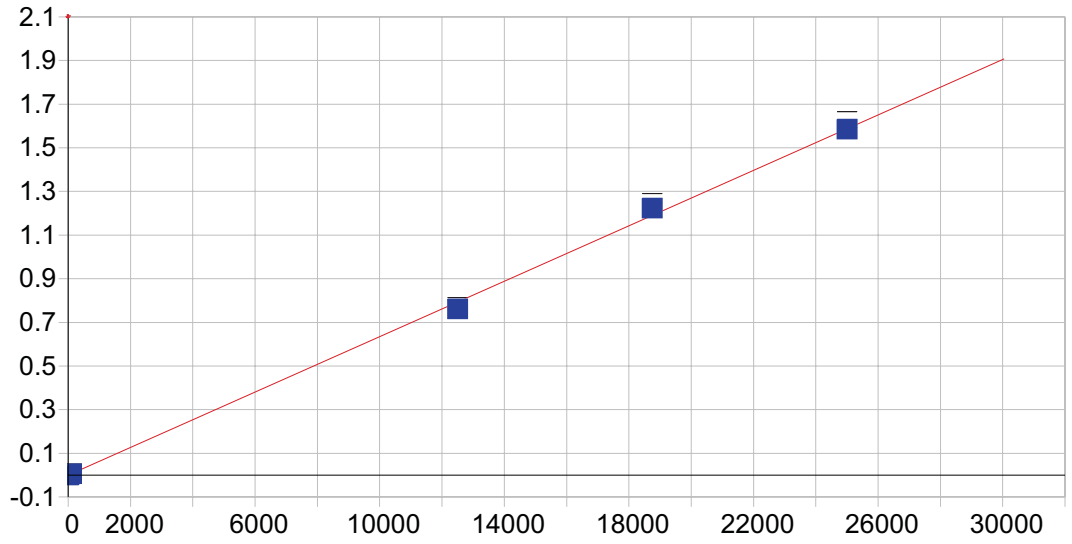
Cr 267.716 {126}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000169	Re-Slope:	1.000000
A1 (Gain):	0.000079	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999650	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.331304		
Predicted MQL:	1.104346		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00067	-.001	.000	.00017	.000	1
S01 ISM-520	10.000	10.384	.384	3.84	.00099	.000	1
S02 ISM-521	40.000	40.772	.772	1.93	.00341	.000	1
S03 ISM-538	10000.	10008.	8.41	.084	.79529	.007	1
S04 ISM-523	15000.	15516.	516.	3.44	1.2328	.033	1
S05 ISM-524	20000.	19474.	-526.	-2.63	1.5473	.019	1

PDF created with pdfFactory trial version www.pdffactory.com



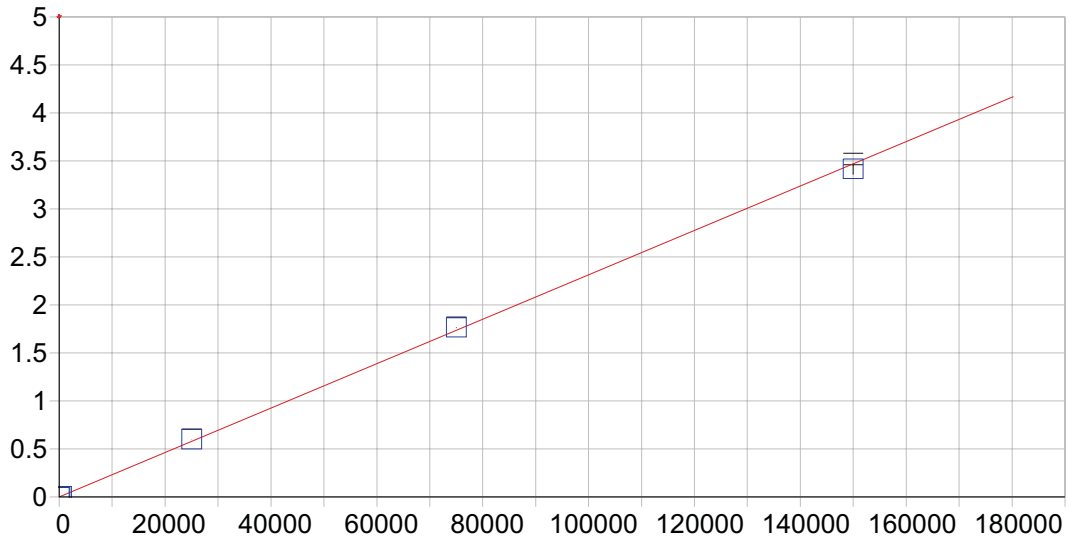
Cu 327.396 {103}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000189	Re-Slope:	1.000000
A1 (Gain):	0.000063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.711236		
Predicted MQL:	2.370785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00035	.000	.000	-.00019	.000	1
S01 ISM-520	25.000	25.674	.674	2.70	.00145	.000	1
S02 ISM-521	100.00	97.184	-2.82	-2.82	.00603	.000	1
S03 ISM-538	12500.	12001.	-499.	-4.00	.76178	.006	1
S04 ISM-523	18750.	19278.	528.	2.81	1.2237	.022	1
S05 ISM-524	25000.	24974.	-26.0	-.104	1.5853	.036	1

PDF created with pdfFactory trial version www.pdffactory.com



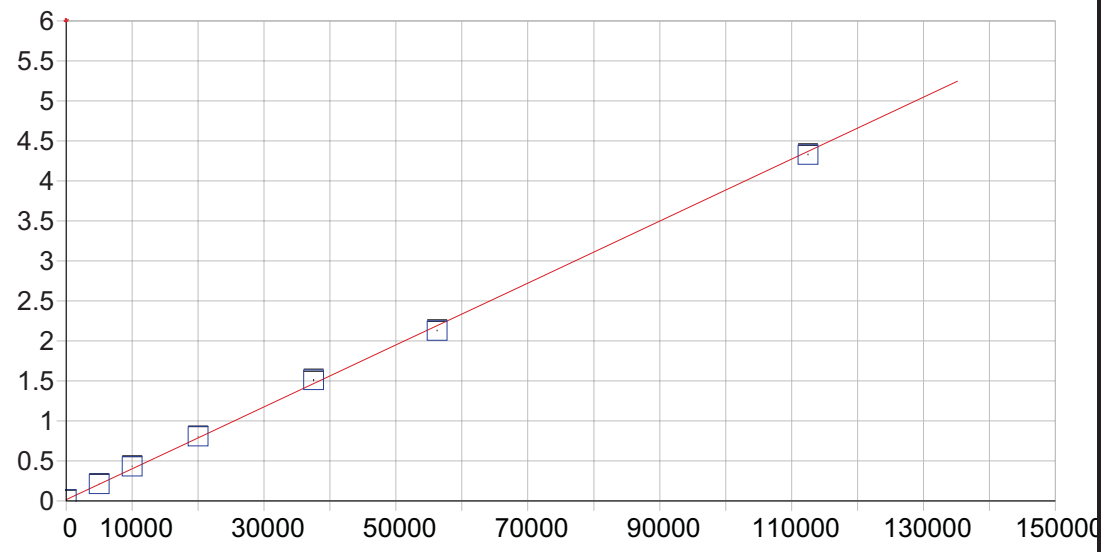
Fe 261.187 {129}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000556	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	24.231834		
Predicted MQL:	80.772779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.03167	-.032	.000	.00056	.000	1
S01 ISM-520	100.00	120.11	20.1	20.1	.00333	.000	1
S02 ISM-521	400.00	429.90	29.9	7.47	.01050	.000	1
S03 ISM-538	25000.	25972.	972.	3.89	.60120	.002	1
S06 ISM-463	75000.	76312.	1310.	1.75	1.7654	.003	1
S07 ISM-464	150000.	147670.	-2330.	-1.56	3.4156	.060	1

PDF created with pdfFactory trial version www.pdffactory.com



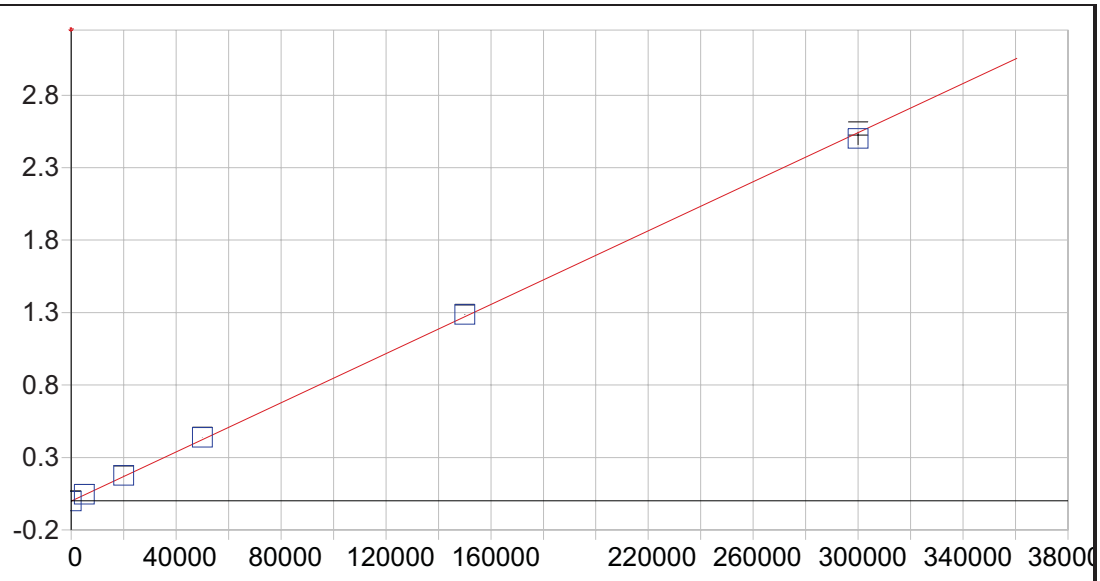
K 766.490 { 44}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014252	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999630	Status:	OK.
Std Error of Est:	0.001367		
Predicted MDL:	80.618095		
Predicted MQL:	268.726985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.63622	-.636	.000	.01423	.003	1
S02 ISM-521	20000.	20534.	534.	2.67	.80908	.004	1
S01 ISM-520	5000.0	5120.0	120.	2.40	.21244	.004	1
S03 ISM-538	37500.	38656.	1160.	3.08	1.5106	.014	1
S08 ISM-465	56250.	54636.	-1610.	-2.87	2.1291	.011	1
S06 ISM-463	112500.	111470.	-1030.	-.917	4.3290	.010	1
S10 ISM-457	10000.	10836.	836.	8.36	.43370	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



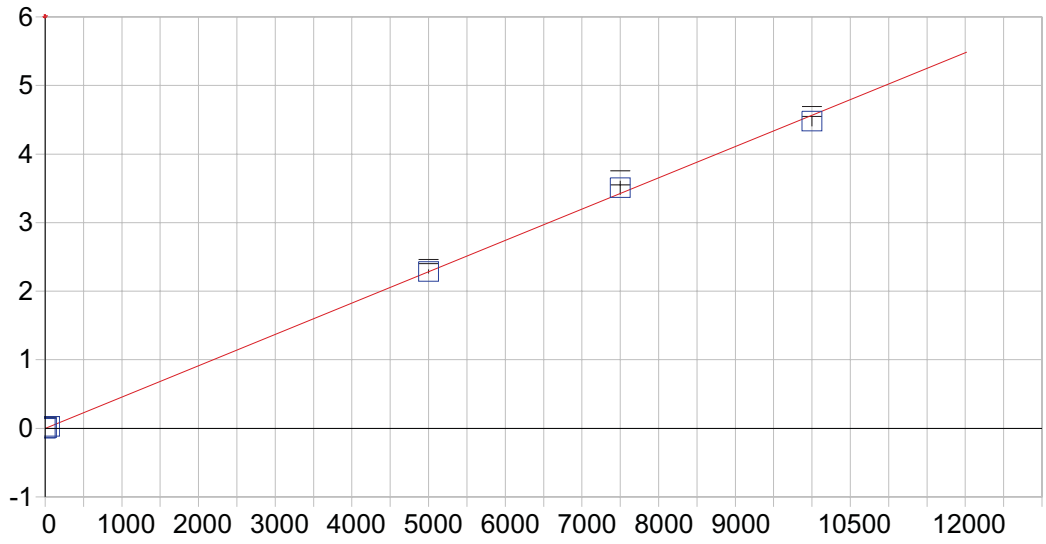
Mg 279.079 {121}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000304	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999799	Status:	OK.
Std Error of Est:	0.000337		
Predicted MDL:	60.124173		
Predicted MQL:	200.413910		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.68708	-.687	.000	-.00031	.000	1
S01 ISM-520	5000.0	5348.7	349.	6.97	.04503	.001	1
S02 ISM-521	20000.	20696.	696.	3.48	.17509	.001	1
S03 ISM-538	50000.	51810.	1810.	3.62	.43877	.001	1
S06 ISM-463	150000.	151850.	1850.	1.23	1.2866	.003	1
S07 ISM-464	300000.	295290.	-4710.	-1.57	2.5022	.045	1

PDF created with pdfFactory trial version www.pdffactory.com



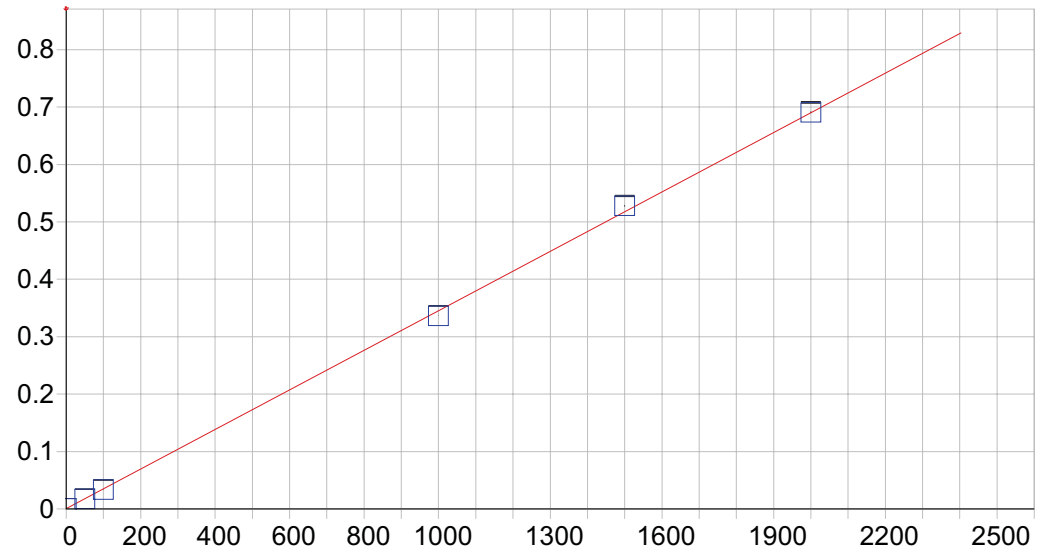
Mn 257.610 {131}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.000200		
Predicted MDL:	0.055559		
Predicted MQL:	0.185198		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00167	-.002	.000	.00001	.000	1
S01 ISM-520	15.000	16.079	1.08	7.19	.00735	.000	1
S02 ISM-521	60.000	61.951	1.95	3.25	.02830	.000	1
S03 ISM-538	5000.0	5008.5	8.53	.171	2.2871	.029	1
S04 ISM-523	7500.0	7684.8	185.	2.46	3.5091	.103	1
S05 ISM-524	10000.	9803.6	-196.	-1.96	4.4767	.072	1

PDF created with pdfFactory trial version www.pdffactory.com



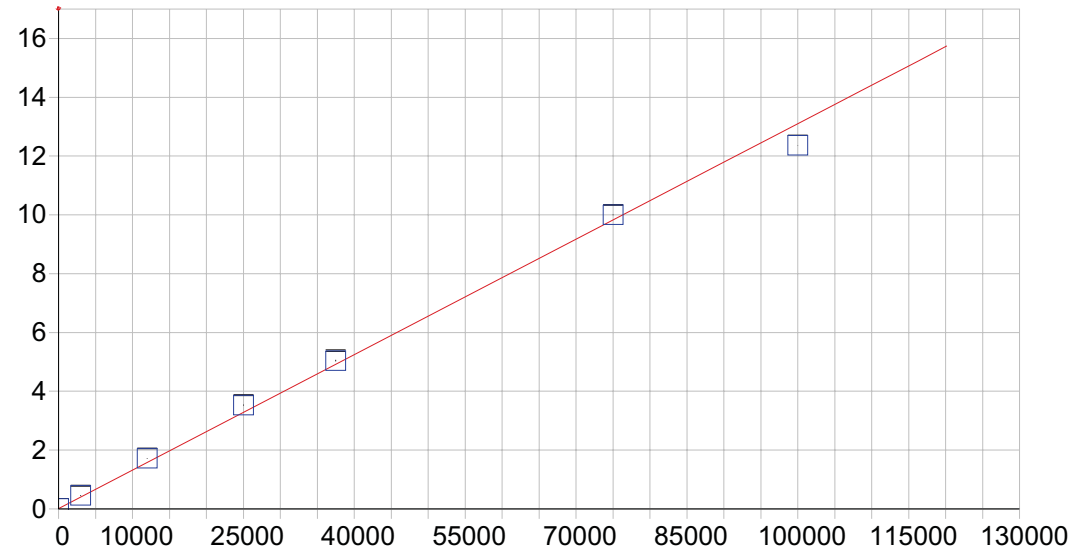
Mo 202.030 {467}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000466	Re-Slope:	1.000000
A1 (Gain):	0.000345	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000118		
Predicted MDL:	0.270178		
Predicted MQL:	0.900592		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00416	.004	.000	.00047	.000	1
S01 ISM-520	50.000	48.457	-1.54	-3.09	.01717	.000	1
S02 ISM-521	100.00	95.265	-4.73	-4.73	.03331	.000	1
S03 ISM-538	1000.0	973.83	-26.2	-2.62	.33624	.000	1
S04 ISM-523	1500.0	1530.0	30.0	2.00	.52802	.001	1
S05 ISM-524	2000.0	2002.4	2.42	.121	.69090	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



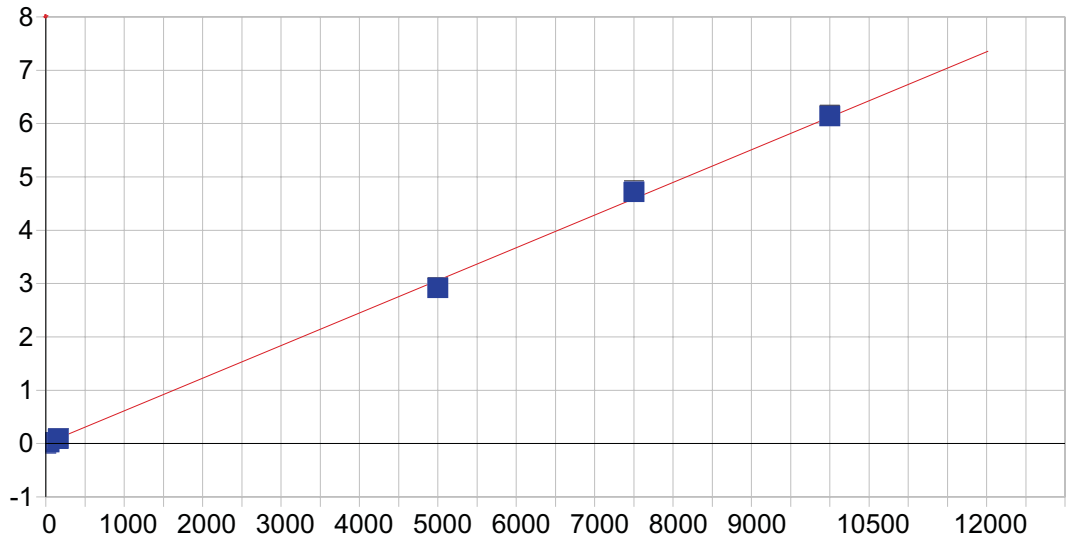
Na 589.592 { 57}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009681	Re-Slope:	1.000000
A1 (Gain):	0.000131	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998722	Status:	OK.
Std Error of Est:	0.006815		
Predicted MDL:	29.132486		
Predicted MQL:	97.108288		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.83740	-.837	.000	.00957	.002	1
S01 ISM-520	3000.0	3388.7	389.	13.0	.45329	.013	1
S02 ISM-521	12000.	13047.	1050.	8.72	1.7176	.012	1
S03 ISM-538	25000.	26884.	1880.	7.54	3.5291	.019	1
S06 ISM-463	75000.	76346.	1350.	1.80	10.004	.014	1
S08 ISM-465	37500.	38442.	942.	2.51	5.0421	.025	1
S09 ISM-456	100000.	94392.	-5610.	-5.61	12.367	.008	1

PDF created with pdfFactory trial version www.pdffactory.com



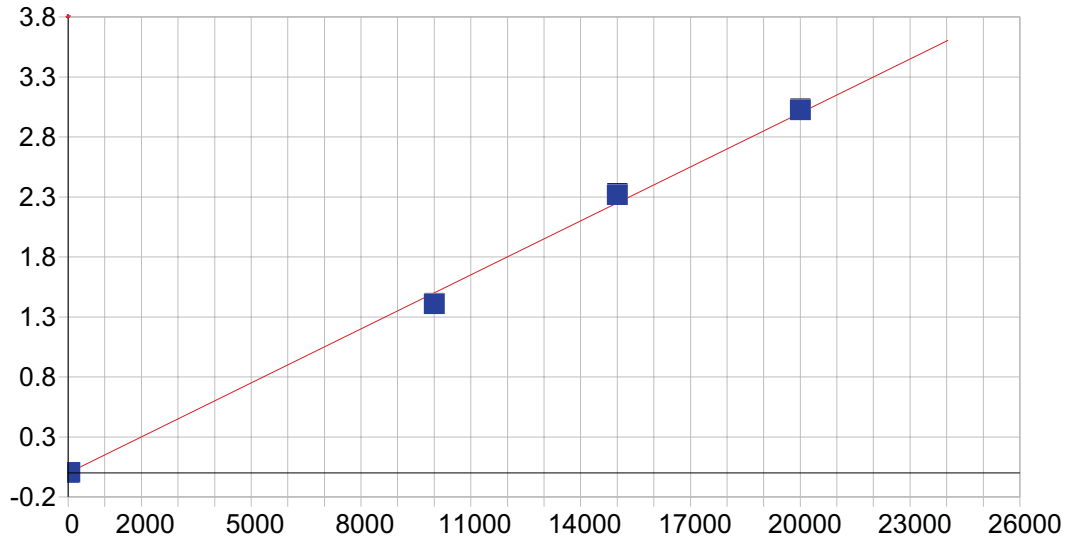
Ni 231.604 {445}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000604	Re-Slope:	1.000000
A1 (Gain):	0.000612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999621	Status:	OK.
Std Error of Est:	0.000622		
Predicted MDL:	0.282268		
Predicted MQL:	0.940894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00374	.004	.000	-.00060	.000	1
S01 ISM-520	40.000	39.218	-.782	-1.96	.02342	.000	1
S02 ISM-521	160.00	150.58	-9.42	-5.89	.09163	.001	1
S03 ISM-538	5000.0	4769.1	-231.	-4.62	2.9199	.002	1
S04 ISM-523	7500.0	7710.7	211.	2.81	4.7221	.013	1
S05 ISM-524	10000.	10030.	30.3	.303	6.1429	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



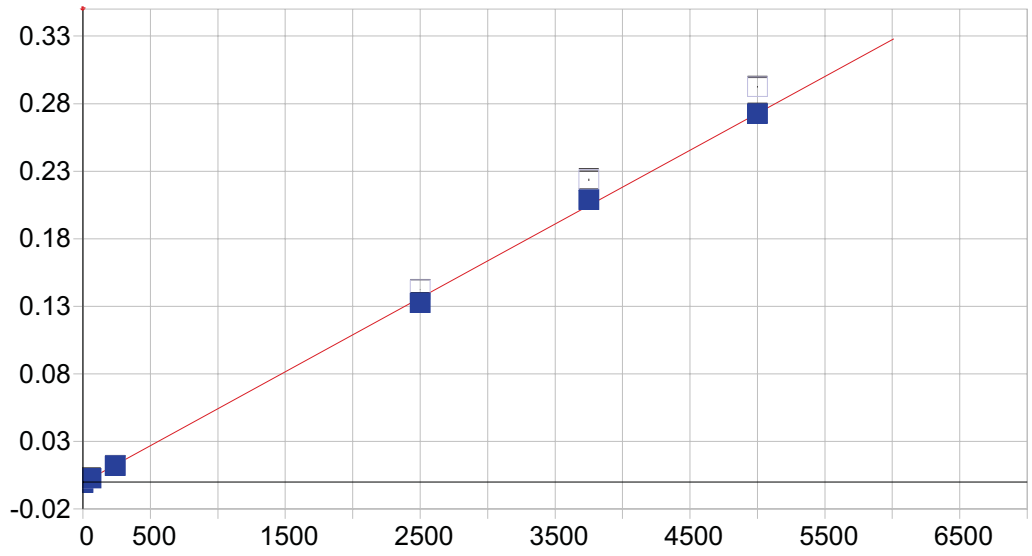
Pb 220.353 {453}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000189	Re-Slope:	1.000000
A1 (Gain):	0.000150	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999423	Status:	OK.
Std Error of Est:	0.000133		
Predicted MDL:	1.455515		
Predicted MQL:	4.851717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00169	.002	.000	-.00019	.000	1
S01 ISM-520	10.000	9.2842	-.716	-7.16	.00122	.000	1
S02 ISM-521	40.000	36.987	-3.01	-7.53	.00542	.000	1
S03 ISM-538	10000.	9392.5	-607.	-6.07	1.4131	.001	1
S04 ISM-523	15000.	15453.	453.	3.02	2.3196	.008	1
S05 ISM-524	20000.	20159.	159.	.796	3.0260	.007	1

PDF created with pdfFactory trial version www.pdffactory.com



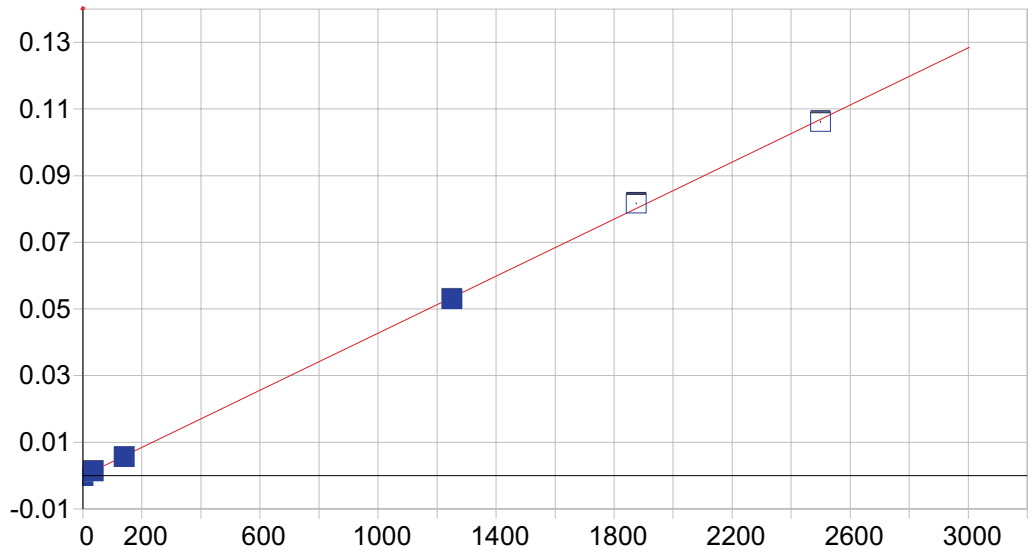
Sb 206.833 {463}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000467	Re-Slope:	1.000000
A1 (Gain):	0.000055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	1.946159		
Predicted MQL:	6.487196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00347	.003	.000	-.00047	.000	1
S01 ISM-520	60.000	59.616	-.384	-.640	.00278	.000	1
S02 ISM-521	240.00	229.04	-11.0	-4.57	.01205	.000	1
S03 ISM-538	2500.0	2433.5	-66.5	-2.66	.14231	.000	1
S04 ISM-523	3750.0	3830.2	80.2	2.14	.22366	.001	1
S05 ISM-524	5000.0	4996.9	-3.15	-.063	.29235	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



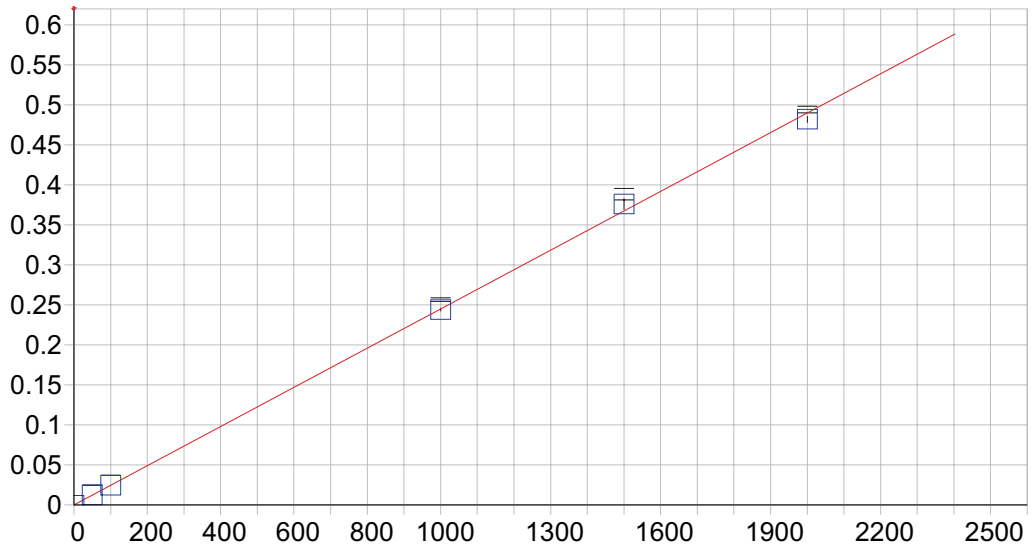
Se 196.090 {472}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000124	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.029530		
Predicted MQL:	6.765101		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00221	.002	.000	-.00012	.000	1
S01 ISM-520	35.000	34.039	-.961	-2.75	.00133	.000	1
S02 ISM-521	140.00	134.54	-5.46	-3.90	.00564	.000	1
S03 ISM-538	1250.0	1240.0	-9.95	-.796	.05300	.000	1
S04 ISM-523	1875.0	1909.7	34.7	1.85	.08167	.000	1
S05 ISM-524	2500.0	2481.7	-18.3	-.732	.10617	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



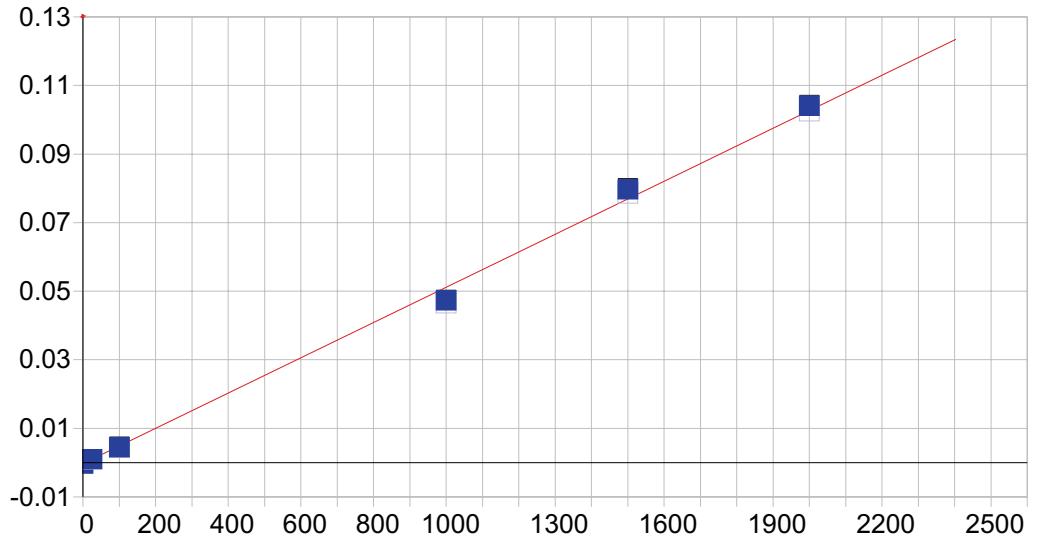
Ti 337.280 {100}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	0.000245	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000079		
Predicted MDL:	0.201596		
Predicted MQL:	0.671986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	.00008	.000	1
S01 ISM-520	50.000	50.007	.007	.015	.01232	.000	1
S02 ISM-521	100.00	99.892	-.108	-.108	.02454	.000	1
S03 ISM-538	1000.0	996.82	-3.18	-.318	.24417	.002	1
S04 ISM-523	1500.0	1535.8	35.8	2.39	.37615	.007	1
S05 ISM-524	2000.0	1967.5	-32.5	-1.63	.48185	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



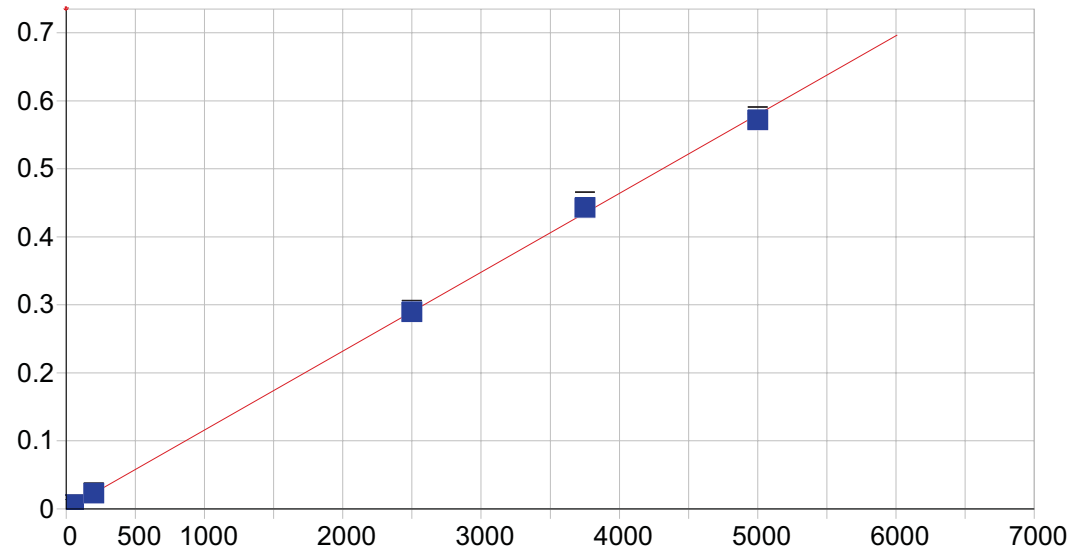
TI 190.856 {477}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000320	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999032	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	1.283847		
Predicted MQL:	4.279491		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00244	.002	.000	-.00032	.000	1
S01 ISM-520	25.000	25.113	.113	.452	.00095	.000	1
S02 ISM-521	100.00	92.259	-7.74	-7.74	.00434	.000	1
S03 ISM-538	1000.0	924.62	-75.4	-7.54	.04647	.000	1
S04 ISM-523	1500.0	1554.9	54.9	3.66	.07852	.000	1
S05 ISM-524	2000.0	2028.1	28.1	1.40	.10247	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



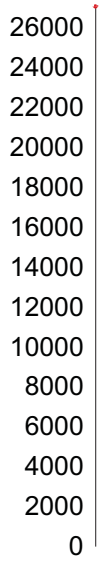
V 292.402 {115}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.319640		
Predicted MQL:	1.065467		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00124	-.001	.000	.00005	.000	1
S01 ISM-520	50.000	51.179	1.18	2.36	.00596	.000	1
S02 ISM-521	200.00	199.42	-.578	-.289	.02313	.000	1
S03 ISM-538	2500.0	2497.8	-2.23	-.089	.28930	.002	1
S04 ISM-523	3750.0	3820.2	70.2	1.87	.44245	.009	1
S05 ISM-524	5000.0	4931.4	-68.6	-1.37	.57111	.005	1

PDF created with pdfFactory trial version www.pdffactory.com

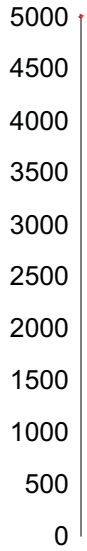


Y 224.306 {450}*

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

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

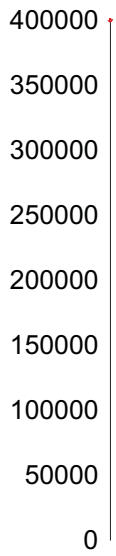
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	25495.	28.7	1



Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

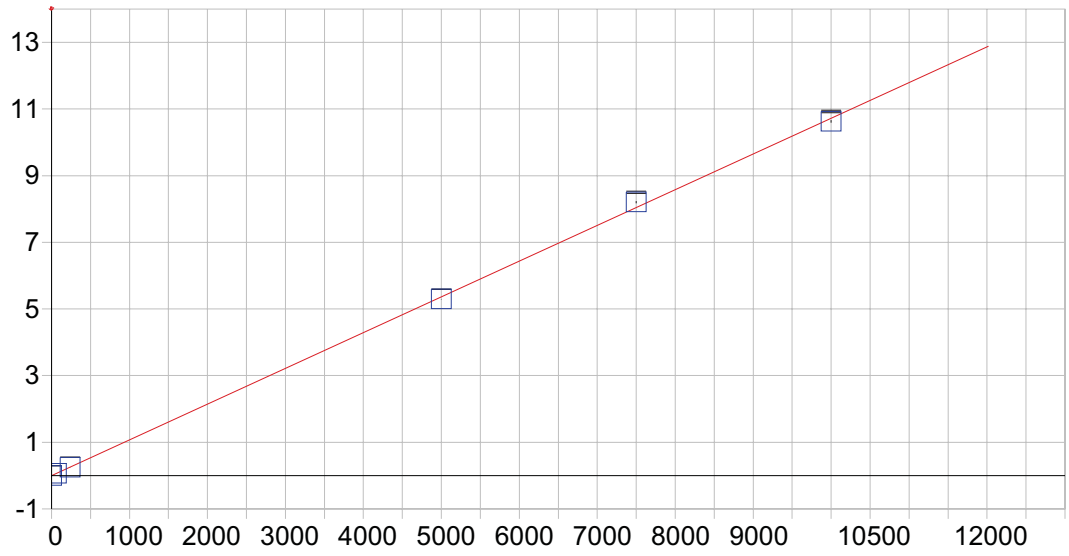
Date of Fit:	11/21/2015 12:12:07		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	4573.9	117.	1



Y 371.030 { 91}2*

Date of Fit:	11/21/2015 12:12:07		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	372360.	2100.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/21/2015 12:12:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000309	Re-Slope:	1.000000
A1 (Gain):	0.001072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.000699		
Predicted MDL:	0.101030		
Predicted MQL:	0.336768		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00062	.001	.000	-.00031	.000	1
S01 ISM-520	60.000	60.862	.862	1.44	.06496	.000	1
S02 ISM-521	240.00	234.20	-5.80	-2.42	.25087	.003	1
S03 ISM-538	5000.0	4939.6	-60.4	-1.21	5.2974	.003	1
S04 ISM-523	7500.0	7652.3	152.	2.03	8.2066	.033	1
S05 ISM-524	10000.	9913.1	-86.9	-.869	10.631	.036	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/19/2015 11:03:52 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00005	.00517	-.00023	-.00433	.00095	.00818	-.0006
Stddev	.00000	.00024	.00004	.00088	.00002	.00061	.0002
%RSD	8.8729	4.6190	18.312	20.379	1.5986	7.4783	40.10
#1	.00005	.00532	-.00026	-.00466	.00096	.00806	-.0004
#2	.00005	.00530	-.00018	-.00333	.00095	.00763	-.0008
#3	.00006	.00490	-.00024	-.00501	.00093	.00884	-.0006

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00040	.00017	-.00019	.00056	.0142	-.0003	.00001
Stddev	.00011	.00001	.00006	.00015	.0028	.0002	.00001
%RSD	27.613	6.9991	34.005	27.787	19.92	70.30	100.88
#1	.00046	.00018	-.00024	.00047	.0117	-.0004	.00002
#2	.00027	.00015	-.00020	.00073	.0137	-.0004	-.00000
#3	.00046	.00018	-.00012	.00047	.0173	-.0001	.00002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00047	.00957	-.00060	-.00019	-.00047	-.00012	.0001
Stddev	.00003	.00183	.00007	.00017	.00003	.00002	.0000
%RSD	5.4484	19.073	11.634	90.860	6.2263	14.090	26.30
#1	.00044	.00746	-.00054	.00000	-.00048	-.00011	.0001
#2	.00049	.01068	-.00067	-.00032	-.00043	-.00013	.0001
#3	.00047	.01057	-.00060	-.00025	-.00049	-.00014	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/19/2015 11:03:52 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00032	.00005	-.00031
Stddev	.00007	.00003	.00002
%RSD	22.271	56.766	7.6043
#1	-.00024	.00002	-.00028
#2	-.00034	.00005	-.00033
#3	-.00038	.00007	-.00031
Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25495.	4573.9	372360.
Stddev	29.	117.4	2098.
%RSD	.11263	2.5676	.56328
#1	25465.	4709.2	370570.
#2	25499.	4499.1	371850.
#3	25522.	4513.3	374670.

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Sample Name: S01 ISM-520 Acquired: 11/19/2015 11:08:38 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00094	.00640	.00045	.56121	.01312	.49638	.0075
Stddev	.00005	.00042	.00006	.01592	.00018	.01113	.0003
%RSD	4.9378	6.6150	12.738	2.8360	1.3445	2.2417	4.250
#1	.00093	.00670	.00051	.56738	.01297	.50267	.0074
#2	.00100	.00592	.00045	.54313	.01332	.48354	.0072
#3	.00090	.00659	.00040	.57312	.01307	.50294	.0078

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04813	.00099	.00145	.00333	.2124	.0450	.00735
Stddev	.00020	.00001	.00002	.00037	.0036	.0008	.00010
%RSD	.41939	1.4356	1.1724	11.214	1.708	1.845	1.2983
#1	.04835	.00099	.00147	.00290	.2152	.0457	.00729
#2	.04796	.00099	.00144	.00352	.2083	.0441	.00746
#3	.04808	.00101	.00144	.00358	.2138	.0452	.00731

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01717	.45329	.02342	.00122	.00278	.00133	.0123
Stddev	.00004	.01260	.00008	.00037	.00007	.00011	.0002
%RSD	.23974	2.7801	.33614	30.195	2.6591	7.9988	1.851
#1	.01719	.45965	.02350	.00164	.00270	.00122	.0121
#2	.01720	.43878	.02335	.00094	.00285	.00143	.0126
#3	.01713	.46145	.02340	.00108	.00280	.00135	.0123

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Sample Name: S01 ISM-520 Acquired: 11/19/2015 11:08:38 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00095	.00596	.06496
Stddev	.00006	.00010	.00011
%RSD	6.3100	1.6042	.17697
#1	.00091	.00588	.06506
#2	.00102	.00607	.06484
#3	.00093	.00594	.06500

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25704.	4639.1	373340.
Stddev	98.	125.5	4361.
%RSD	.38046	2.7053	1.1682
#1	25817.	4626.8	376060.
#2	25653.	4770.3	368310.
#3	25643.	4520.2	375640.

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Sample Name: S02 ISM-521 Acquired: 11/19/2015 11:13:23 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00356	.01042	.00249	2.2172	.04952	1.9313	.0303
Stddev	.00006	.00060	.00010	.0096	.00038	.0117	.0002
%RSD	1.6890	5.7737	3.9440	.43479	.76774	.60769	.8063
#1	.00359	.01073	.00257	2.2067	.04934	1.9178	.0303
#2	.00360	.01079	.00251	2.2256	.04995	1.9374	.0305
#3	.00349	.00972	.00238	2.2193	.04926	1.9387	.0300

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.18148	.00341	.00603	.01050	.8091	.1751	.02830
Stddev	.00161	.00004	.00003	.00048	.0045	.0014	.00031
%RSD	.88452	1.1723	.48987	4.5586	.5507	.8017	1.0950
#1	.18093	.00341	.00599	.01097	.8040	.1735	.02812
#2	.18329	.00345	.00605	.01052	.8125	.1759	.02866
#3	.18023	.00337	.00604	.01001	.8107	.1759	.02813

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03331	1.7176	.09163	.00542	.01205	.00564	.0245
Stddev	.00041	.0117	.00097	.00017	.00020	.00009	.0003
%RSD	1.2337	.67881	1.0560	3.1518	1.6470	1.6102	1.190
#1	.03315	1.7043	.09127	.00535	.01190	.00572	.0245
#2	.03378	1.7223	.09272	.00562	.01228	.00565	.0249
#3	.03301	1.7262	.09089	.00530	.01199	.00554	.0243

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Sample Name: S02 ISM-521 Acquired: 11/19/2015 11:13:23 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00434	.02313	.25087
Stddev	.00009	.00020	.00274
%RSD	1.9981	.87436	1.0926
#1	.00432	.02303	.24968
#2	.00443	.02337	.25400
#3	.00426	.02301	.24893

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24900.	4508.3	359600.
Stddev	347.	42.6	1884.
%RSD	1.3934	.94594	.52383
#1	25070.	4460.5	361230.
#2	24501.	4521.9	357540.
#3	25129.	4542.5	360040.

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Sample Name: S03 ISM-538 Acquired: 11/19/2015 11:18:08 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06745	.37465	.16755	27.789	2.4364	4.7553	1.661
Stddev	.00066	.00145	.00032	.182	.0280	.0232	.002
%RSD	.97120	.38692	.19333	.65547	1.1500	.48829	.1120
#1	.06672	.37597	.16730	27.955	2.4043	4.7763	1.659
#2	.06765	.37310	.16744	27.594	2.4559	4.7304	1.661
#3	.06798	.37488	.16792	27.817	2.4490	4.7591	1.662

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.6254	.79529	.76178	.60120	1.511	.4388	2.2871
Stddev	.0028	.00664	.00610	.00165	.014	.0008	.0290
%RSD	.06110	.83434	.80089	.27507	.9008	.1830	1.2693
#1	4.6225	.78776	.76708	.60184	1.524	.4395	2.3060
#2	4.6254	.79779	.75511	.59933	1.497	.4388	2.3015
#3	4.6282	.80030	.76314	.60245	1.511	.4379	2.2536

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.33624	3.5291	2.9199	1.4131	.14231	.05300	.2442
Stddev	.00023	.0187	.0016	.0013	.00016	.00015	.0021
%RSD	.06756	.52887	.05583	.09243	.11534	.28192	.8505
#1	.33605	3.5439	2.9181	1.4139	.14212	.05284	.2418
#2	.33618	3.5081	2.9212	1.4116	.14238	.05314	.2449
#3	.33649	3.5352	2.9206	1.4138	.14243	.05301	.2458

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Sample Name: S03 ISM-538 Acquired: 11/19/2015 11:18:08 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04647	.28930	5.2974
Stddev	.00010	.00229	.0027
%RSD	.21670	.79178	.05162
#1	.04638	.28670	5.2969
#2	.04658	.29017	5.2949
#3	.04647	.29102	5.3003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	23986.	4492.7	355780.
Stddev	85.	77.0	946.
%RSD	.35336	1.7143	.26595
#1	23907.	4427.0	355410.
#2	24075.	4577.4	355070.
#3	23976.	4473.5	356850.

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Sample Name: S04 ISM-523 Acquired: 11/19/2015 11:23:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.10378	.25688	42.135	3.5892	2.580	7.4169	1.2328
Stddev	.00210	.00090	.233	.1129	.010	.0303	.0332
%RSD	2.0246	.34969	.55220	3.1444	.3839	.40908	2.6926
#1	.10156	.25792	41.884	3.4656	2.592	7.4508	1.1958
#2	.10574	.25645	42.179	3.6867	2.575	7.4078	1.2427
#3	.10404	.25629	42.343	3.6153	2.574	7.3922	1.2600

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2237	3.5091	.52802	4.7221	2.3196	.22366	.08167
Stddev	.0218	.1027	.00119	.0133	.0082	.00080	.00029
%RSD	1.7810	2.9251	.22589	.28177	.35219	.35681	.35497
#1	1.1985	3.3920	.52939	4.7369	2.3279	.22458	.08198
#2	1.2355	3.5833	.52742	4.7182	2.3194	.22328	.08141
#3	1.2370	3.5521	.52724	4.7111	2.3115	.22312	.08162

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3762	.07852	.44245	8.2066
Stddev	.0072	.00021	.00850	.0330
%RSD	1.905	.26990	1.9212	.40209
#1	.3686	.07876	.43357	8.2414
#2	.3828	.07844	.45051	8.2029
#3	.3770	.07836	.44327	8.1757

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Sample Name: S04 ISM-523 Acquired: 11/19/2015 11:23:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24117.	4558.4	367880.
Stddev	105.	17.0	7250.
%RSD	.43420	.37370	1.9708
#1	24060.	4565.3	375980.
#2	24053.	4538.9	361990.
#3	24238.	4570.8	365680.

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Sample Name: S05 ISM-524 Acquired: 11/19/2015 11:28:32 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.13267	.33457	54.208	4.6702	3.386	9.7107	1.5473
Stddev	.00116	.00042	.681	.0356	.005	.0273	.0189
%RSD	.87426	.12423	1.2555	.76140	.1629	.28169	1.2197
#1	.13367	.33436	54.467	4.6520	3.383	9.6958	1.5689
#2	.13140	.33429	54.720	4.6474	3.383	9.6940	1.5340
#3	.13295	.33505	53.436	4.7111	3.392	9.7422	1.5391

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5853	4.4767	.69090	6.1429	3.0260	.29235	.10617
Stddev	.0356	.0720	.00142	.0143	.0071	.00046	.00028
%RSD	2.2442	1.6085	.20512	.23202	.23608	.15756	.26333
#1	1.6127	4.5252	.69018	6.1398	3.0214	.29188	.10600
#2	1.5451	4.3939	.68999	6.1304	3.0225	.29238	.10602
#3	1.5981	4.5108	.69254	6.1584	3.0343	.29280	.10649

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4819	.10247	.57111	10.631
Stddev	.0043	.00013	.00491	.036
%RSD	.8855	.12630	.85998	.34310
#1	.4858	.10235	.57541	10.615
#2	.4773	.10246	.56576	10.606
#3	.4824	.10261	.57216	10.673

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Sample Name: S05 ISM-524 Acquired: 11/19/2015 11:28:32 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24003.	4631.0	373540.
Stddev	43.	22.6	2624.
%RSD	.17860	.48747	.70253
#1	24044.	4627.0	372130.
#2	24005.	4610.8	376570.
#3	23959.	4655.4	371920.

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Sample Name: S06 ISM-463 Acquired: 11/19/2015 11:34:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1244	13.861	1.7654	4.329	1.287	10.004
Stddev	.0022	.017	.0031	.010	.003	.014
%RSD	.19266	.12108	.17734	.2292	.2346	.13622
#1	1.1269	13.855	1.7652	4.340	1.283	10.013
#2	1.1229	13.880	1.7687	4.320	1.289	10.011
#3	1.1235	13.849	1.7624	4.327	1.287	9.9885

Int. Std.	Y_3710
Units	Cts/S
Avg	4457.4
Stddev	28.3
%RSD	.63510
#1	4449.2
#2	4488.9
#3	4434.1

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Sample Name: S07 ISM-464 Acquired: 11/19/2015 11:38:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.1888	26.818	3.4156	2.502
Stddev	.0407	.440	.0598	.045
%RSD	1.8602	1.6410	1.7518	1.795
#1	2.2342	27.302	3.4791	2.553
#2	2.1769	26.711	3.4075	2.484
#3	2.1554	26.441	3.3603	2.469

Int. Std.	Y_3710
Units	Cts/S
Avg	4580.4
Stddev	47.1
%RSD	1.0285
#1	4535.0
#2	4577.1
#3	4629.0

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Sample Name: S08 ISM-465 Acquired: 11/19/2015 11:43:31 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	2.129	5.0421
Stddev	.011	.0254
%RSD	.5073	.50377
#1	2.141	5.0710
#2	2.121	5.0232
#3	2.126	5.0321

Int. Std.	Y_3710
Units	Cts/S
Avg	4671.4
Stddev	60.5
%RSD	1.2943
#1	4601.7
#2	4702.6
#3	4709.8

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Sample Name: S09 ISM-456 Acquired: 11/19/2015 11:48:15 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	12.367
Stddev	.008
%RSD	.06283
#1	12.375
#2	12.359
#3	12.366
Int. Std.	Y_3710
Units	Cts/S
Avg	4776.9
Stddev	43.9
%RSD	.91934
#1	4794.1
#2	4809.7
#3	4727.0

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Sample Name: S10 ISM-457 Acquired: 11/19/2015 11:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.4337
Stddev	.0048
%RSD	1.101
#1	.4383
#2	.4287
#3	.4341
Int. Std.	Y_3710
Units	Cts/S
Avg	4721.8
Stddev	64.4
%RSD	1.3648
#1	4672.4
#2	4794.7
#3	4698.4

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Sample Name: ICV ISM-514 Acquired: 11/19/2015 11:57:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	509.47	2538.5	1012.8	515.15	520.82	10741.	482.6
Stddev	2.68	63.3	2.3	5.44	2.79	91.	1.0
%RSD	.52688	2.4935	.22872	1.0567	.53526	.85060	.2029
#1	512.30	2489.7	1013.0	508.99	522.85	10636.	482.2
#2	506.96	2610.0	1015.0	517.13	517.64	10803.	483.7
#3	509.15	2515.7	1010.4	519.33	521.97	10783.	481.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	487.50	506.97	499.37	5296.7	10590.	6316.	528.25
Stddev	1.40	2.73	4.36	68.1	153.	101.	3.00
%RSD	.28759	.53843	.87357	1.2857	1.445	1.598	.56836
#1	487.40	509.72	503.37	5220.8	10430.	6277.	530.68
#2	488.95	504.26	494.72	5316.6	10620.	6241.	524.89
#3	486.15	506.91	500.02	5352.6	10730.	6431.	529.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/19/2015 11:57:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35569	10957.	492.46	939.13	987.12	995.99	.1669
Stddev	.12639	123.	1.34	2.04	1.94	4.43	.1989
%RSD	35.533	1.1253	.27264	.21758	.19607	.44508	119.2
#1	.34807	10816.	491.43	937.24	988.85	993.25	.2458
#2	.23328	11017.	493.98	941.30	987.49	1001.1	.3142
#3	.48572	11039.	491.96	938.85	985.03	993.62	-.0594
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	991.28	510.63	1004.5
Stddev	3.28	2.69	3.2
%RSD	.33126	.52645	.31446
#1	991.64	512.83	1003.8
#2	994.37	507.64	1007.9
#3	987.83	511.43	1001.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/19/2015 11:57:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25651.	4740.1	374240.
Stddev	60.	55.7	1466.
%RSD	.23488	1.1758	.39181
#1	25683.	4797.0	372860.
#2	25581.	4685.6	375780.
#3	25688.	4737.6	374090.

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Sample Name: ICB Acquired: 11/19/2015 12:02:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04602	-121.35	.48506	.07161	-.03493	2.9611	.1080
Stddev	.17471	63.87	1.3115	.23751	.01026	7.3506	.1473
%RSD	379.67	52.634	270.38	331.67	29.366	248.24	136.4
#1	-.06582	-54.757	-.95925	.04940	-.02363	6.1286	.0141
#2	-.04347	-127.20	.81285	.31945	-.03753	-5.4422	.0321
#3	.24734	-182.10	1.6016	-.15401	-.04364	8.1969	.2778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05815	-.17708	.46652	1.3395	275.9	3.004	.00977
Stddev	.08809	.16791	.57428	10.384	47.8	61.62	.01193
%RSD	151.50	94.825	123.10	775.22	17.33	2051.	122.10
#1	-.15939	-.16359	.41854	12.585	331.1	55.11	.02077
#2	.00103	-.35133	-.08226	-.68045	248.9	18.92	-.00290
#3	-.01608	-.01631	1.0633	-7.8861	247.6	-65.02	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/19/2015 12:02:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26307	45.787	-.05202	.78557	-.07184	.53389	-.0665
Stddev	.07805	10.584	.14378	.80198	.76636	.86072	.0190
%RSD	29.667	23.115	276.41	102.09	1066.8	161.22	28.63
#1	.32278	40.221	-.20383	.00906	.22260	.03854	-.0794
#2	.17476	57.993	.08209	1.6108	-.94175	.03538	-.0446
#3	.29168	39.149	-.03431	.73684	.50364	1.5278	-.0755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1173	.32862	-.08697
Stddev	1.2643	.16736	.02761
%RSD	113.16	50.929	31.746
#1	1.9304	.37138	-.05691
#2	1.7609	.14402	-.09282
#3	-.33935	.47044	-.11119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/19/2015 12:02:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26344.	4759.7	384430.
Stddev	42.	37.2	5205.
%RSD	.15782	.78242	1.3539
#1	26389.	4800.7	378580.
#2	26306.	4750.4	386180.
#3	26338.	4728.0	388530.

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Sample Name: ICSA ISM-519 Acquired: 11/19/2015 12:07:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00542	258900.	-3.2237	7.2193	.19342	251940.	1.181
Stddev	.11009	877.	1.4094	.5594	.01622	1173.	.179
%RSD	2032.1	.33878	43.720	7.7489	8.3863	.46558	15.16
#1	.06356	257960.	-4.4071	7.8188	.19454	250610.	1.223
#2	.05256	259690.	-3.5994	6.7112	.17668	252380.	1.336
#3	-.13238	259060.	-1.6645	7.1279	.20906	252830.	.9852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.67054	57.298	-1.6728	100340.	447.6	259800.	17.914
Stddev	.04093	.705	.9562	494.	95.6	1163.	.258
%RSD	6.1034	1.2299	57.161	.49193	21.36	.4476	1.4398
#1	-.62399	57.413	-1.5214	99773.	363.8	258500.	18.070
#2	-.70084	56.543	-2.6957	100590.	427.2	260300.	17.616
#3	-.68680	57.938	-.80136	100660.	551.7	260700.	18.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-519 Acquired: 11/19/2015 12:07:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1780	85.024	3.2680	-3.0132	6.5325	-1.1495	3.447
Stddev	.2849	22.873	.3132	1.4237	2.8587	1.5716	.090
%RSD	13.080	26.902	9.5841	47.250	43.762	136.71	2.624
#1	2.3515	61.256	3.5636	-2.5202	9.4856	.42318	3.504
#2	2.3332	86.931	3.3006	-4.6179	6.3335	-1.1518	3.343
#3	1.8492	106.88	2.9398	-1.9014	3.7785	-2.7199	3.494
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.21112	1.9574	1.0595
Stddev	1.5548	.2082	.0212
%RSD	736.46	10.634	2.0011
#1	.00036	1.7593	1.0821
#2	-1.2276	2.1743	1.0401
#3	1.8606	1.9387	1.0564
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-519 Acquired: 11/19/2015 12:07:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24075.	4631.6	344560.
Stddev	30.	40.1	3940.
%RSD	.12351	.86517	1.1436
#1	24071.	4676.3	342210.
#2	24107.	4619.9	349110.
#3	24048.	4598.8	342360.

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Sample Name: ICSAB ISM-522 Acquired: 11/19/2015 12:12:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.86	257770.	95.822	527.83	543.12	255450.	1002.
Stddev	.91	541.	.194	1.64	6.04	538.	2.
%RSD	.43833	.21003	.20272	.30989	1.1123	.21071	.2029
#1	208.48	257220.	95.648	525.95	549.02	255510.	999.6
#2	208.28	258300.	96.032	528.64	543.40	255950.	1002.
#3	206.82	257790.	95.787	528.91	536.95	254880.	1004.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	463.85	551.60	502.03	101890.	392.4	264100.	537.59
Stddev	1.40	2.79	3.43	186.	30.6	769.	2.85
%RSD	.30156	.50541	.68365	.18208	7.785	.2912	.52982
#1	462.39	553.92	504.59	101760.	384.1	264200.	539.33
#2	463.97	552.38	503.36	102100.	426.3	264800.	539.14
#3	465.18	548.51	498.13	101800.	366.9	263300.	534.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-522 Acquired: 11/19/2015 12:12:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8123	60.747	928.26	40.255	591.81	47.990	3.611
Stddev	.2571	5.891	2.54	.867	3.01	1.759	.119
%RSD	14.186	9.6983	.27323	2.1547	.50826	3.6648	3.292
#1	1.5728	62.144	925.52	40.746	592.31	46.439	3.736
#2	1.7802	65.815	928.73	39.253	588.58	47.630	3.599
#3	2.0839	54.283	930.53	40.765	594.53	49.901	3.499
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	88.879	502.07	963.94
Stddev	.775	3.39	1.60
%RSD	.87237	.67459	.16601
#1	89.146	504.44	962.09
#2	89.486	503.59	964.94
#3	88.006	498.19	964.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-522 Acquired: 11/19/2015 12:12:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24060.	4657.8	351090.
Stddev	85.	26.7	1422.
%RSD	.35206	.57335	.40491
#1	24056.	4627.1	349490.
#2	23978.	4675.4	351580.
#3	24147.	4670.9	352210.

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Sample Name: CCV ISM-538 Acquired: 11/19/2015 12:17:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	741.29	50413.	2473.8	10150.	1050.2	52126.	967.7
Stddev	16.66	195.	4.6	19.	19.6	20.	.9
%RSD	2.2478	.38695	.18438	.18999	1.8632	.03828	.0896
#1	752.26	50331.	2476.2	10172.	1066.5	52148.	968.4
#2	749.50	50272.	2468.6	10135.	1055.6	52109.	968.1
#3	722.12	50635.	2476.7	10143.	1028.5	52122.	966.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4730.8	9861.3	12244.	25777.	38230.	50710.	4991.9
Stddev	1.7	182.6	217.	51.	59.	71.	14.5
%RSD	.03595	1.8518	1.7737	.19597	.1549	.1406	.29095
#1	4731.7	10023.	12450.	25750.	38160.	50700.	5005.3
#2	4732.0	9898.1	12266.	25746.	38270.	50790.	4993.9
#3	4728.9	9663.1	12017.	25835.	38260.	50650.	4976.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV ISM-538 Acquired: 11/19/2015 12:17:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.06	26411.	4751.4	9241.4	2432.1	1237.6	1003.
Stddev	.66	32.	4.8	8.9	2.4	1.0	21.
%RSD	.06749	.12253	.10002	.09643	.10040	.08310	2.083
#1	976.81	26431.	4756.2	9246.6	2430.7	1238.7	1017.
#2	975.84	26374.	4751.3	9246.5	2430.7	1237.4	1012.
#3	975.55	26429.	4746.7	9231.1	2435.0	1236.7	978.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	902.58	2501.7	4846.7
Stddev	1.24	53.7	6.4
%RSD	.13746	2.1467	.13230
#1	902.41	2540.5	4850.5
#2	903.90	2524.2	4850.2
#3	901.44	2440.4	4839.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-538 Acquired: 11/19/2015 12:17:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24604.	4754.7	366620.
Stddev	69.	47.2	6004.
%RSD	.28102	.99309	1.6377
#1	24622.	4806.2	361500.
#2	24528.	4713.5	365150.
#3	24663.	4744.5	373230.

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Sample Name: CCB Acquired: 11/19/2015 12:22:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35196	-42.316	.50913	.69343	-.02017	-29.833	.0615
Stddev	.31394	37.876	.69047	.71045	.01617	1.027	.0959
%RSD	89.197	89.507	135.62	102.45	80.164	3.4415	155.9
#1	-.09883	1.1134	.98705	1.3542	-.03741	-29.555	.0100
#2	-.25380	-68.503	-.28250	.78405	-.01775	-28.974	.0024
#3	-.70325	-59.560	.82282	-.05798	-.00535	-30.970	.1722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06968	-.21496	.75052	7.1264	107.0	4.361	.03081
Stddev	.14766	.26107	.55496	30.404	20.0	45.81	.02401
%RSD	211.92	121.45	73.944	426.64	18.64	1051.	77.929
#1	.07004	-.20678	1.1734	-9.8546	89.77	54.72	.01706
#2	-.22417	.04192	.95604	42.228	102.4	-34.85	.05854
#3	-.05491	-.48002	.12211	-10.994	128.9	-6.791	.01684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/19/2015 12:22:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7021	39.456	.04946	.13952	2.1154	-.05631	-.0137
Stddev	.2493	14.545	.02376	1.2052	1.4970	.59571	.0774
%RSD	14.648	36.865	48.028	863.86	70.764	1058.0	564.9
#1	1.8173	25.729	.02218	-1.0874	1.7795	.04215	.0434
#2	1.8730	54.701	.06066	.18408	.81501	.48404	.0172
#3	1.4160	37.938	.06555	1.3219	3.7518	-.69511	-.1018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.37462	.25820	-.03661
Stddev	.80355	.23377	.01067
%RSD	214.50	90.540	29.151
#1	1.3007	.28160	-.03493
#2	-.13879	.01361	-.04803
#3	-.03799	.47939	-.02688
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/19/2015 12:22:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26027.	4696.5	385080.
Stddev	38.	69.9	2199.
%RSD	.14546	1.4886	.57108
#1	26036.	4774.4	387540.
#2	25985.	4676.0	384400.
#3	26059.	4639.2	383310.

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Sample Name: QQ88853-001 Acquired: 11/19/2015 12:27:12 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47106	-3.4387	2.6925	24.015	-.83204	467.18	.2044
Stddev	.24664	58.183	.6092	.925	.02629	7.87	.0360
%RSD	52.357	1692.0	22.625	3.8534	3.1592	1.6851	17.62
#1	-.70143	-69.716	3.2134	23.398	-.85621	460.29	.2455
#2	-.50088	39.227	2.8415	25.079	-.80406	475.76	.1784
#3	-.21087	20.173	2.0227	23.569	-.83584	465.49	.1892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10405	2.3079	4.9001	94.946	407.7	12.55	F 32.138
Stddev	.15170	.2163	.2925	12.217	79.6	25.51	.464
%RSD	145.80	9.3711	5.9697	12.867	19.51	203.3	1.4426
#1	.06910	2.0831	5.0500	100.75	325.6	41.45	32.277
#2	-.16763	2.3261	4.5630	103.18	413.0	-6.852	31.621
#3	-.21361	2.5145	5.0872	80.910	484.5	3.045	32.516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							15.000
Low Limit							-15.000

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Sample Name: QQ88853-001 Acquired: 11/19/2015 12:27:12 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0362	F 3867.4	1.4783	.98296	2.0634	2.5678	F 1440.
Stddev	.2019	49.8	.1137	.88991	1.0376	1.1928	27.
%RSD	19.483	1.2868	7.6897	90.534	50.289	46.452	1.887
#1	1.2497	3810.1	1.4070	1.4359	.95449	3.8315	1462.
#2	.84840	3900.3	1.6094	1.5553	2.2247	1.4616	1410.
#3	1.0104	3891.8	1.4185	-.04231	3.0109	2.4102	1449.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit		3000.0					50.00
Low Limit		-3000.0					-50.00

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.3752	1.8247	F 584.86
Stddev	.1189	.2350	.36
%RSD	2.7175	12.879	.06185
#1	-4.3043	2.0726	584.44
#2	-4.3089	1.6052	585.04
#3	-4.5125	1.7963	585.09
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			60.000
Low Limit			-60.000

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Sample Name: QQ88853-001 Acquired: 11/19/2015 12:27:12 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26154.	4910.8	384680.
Stddev	72.	45.3	4173.
%RSD	.27461	.92330	1.0849
#1	26103.	4920.3	382120.
#2	26123.	4950.7	389490.
#3	26236.	4861.5	382420.

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Sample Name: QQ88853-002 Acquired: 11/19/2015 12:32:00 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.19640	F 159.90	F 2.0605	F 23.228	F -1.0869	F 686.05	F .2946
Stddev	.19419	59.37	.1505	.568	.0076	15.73	.0906
%RSD	98.875	37.131	7.3064	2.4463	.70372	2.2931	30.76
#1	.01770	116.39	1.9734	23.527	-1.0850	675.84	.3955
#2	-.24572	135.77	1.9737	22.572	-1.0805	678.14	.2682
#3	-.36117	227.54	2.2343	23.583	-1.0954	704.17	.2201
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.000	400.00	20.000	400.00	10.000	10000.	10.00
Range	-50.000%	-30.500%	-30.500%	-30.500%	-30.500%	-30.500%	-30.50%

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F .72836	F 2.1175	F 3.9077	F 71.732	F 330.5	F 105.6	F 46.174
Stddev	.13533	.2865	.5515	8.035	71.1	27.9	.428
%RSD	18.580	13.530	14.113	11.202	21.51	26.43	.92611
#1	.76375	2.3239	3.2718	63.224	250.5	77.73	46.647
#2	.84248	1.7904	4.1959	79.191	354.5	105.5	45.813
#3	.57885	2.2381	4.2553	72.782	386.4	133.5	46.062
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	100.00	20.000	50.000	200.00	10000.	10000.	30.000
Range	-30.500%	-30.500%	-30.500%	-30.500%	-30.50%	-30.50%	30.500%

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Sample Name: QQ88853-002 Acquired: 11/19/2015 12:32:00 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64705	F 3958.7	F 2.4519	F 2.7024	F 1.7348	F 1.7362	1793.
Stddev	.09714	30.2	.1067	1.0864	1.8601	.9571	25.
%RSD	15.013	.76184	4.3522	40.202	107.22	55.128	1.410
#1	.66602	3964.7	2.5578	1.4489	3.4308	1.0528	1821.
#2	.54182	3926.0	2.4535	3.3729	2.0280	1.3257	1772.
#3	.73331	3985.5	2.3444	3.2853	-.25456	2.8302	1784.
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None
Value		10000.	80.000	20.000	120.00	70.000	
Range		-30.500%	-30.500%	-30.500%	-50.000%	-30.500%	

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F -4.3341	F 1.9223	F 558.59
Stddev	.3379	.2786	.92
%RSD	7.7954	14.492	.16549
#1	-4.5146	2.1885	557.74
#2	-3.9443	1.9457	558.46
#3	-4.5434	1.6328	559.57
Check ?	Chk Fail	Chk Fail	Chk Fail
Value	50.000	100.00	120.00
Range	-30.500%	-30.500%	30.500%

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Sample Name: QQ88853-002 Acquired: 11/19/2015 12:32:00 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26333.	4849.9	390540.
Stddev	76.	53.9	5845.
%RSD	.28923	1.1114	1.4967
#1	26400.	4855.8	383810.
#2	26349.	4900.6	394280.
#3	26250.	4793.2	393540.

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Sample Name: QQ88854-001 Acquired: 11/19/2015 12:36:48 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11074	F 242.11	3.2823	19.974	-.65261	659.50	.1197
Stddev	.46528	129.38	.5047	.480	.00688	9.18	.1188
%RSD	420.15	53.439	15.376	2.4034	1.0541	1.3924	99.21
#1	-.06360	339.14	3.0623	20.495	-.64500	649.04	.0595
#2	.63802	95.216	2.9250	19.879	-.65839	663.23	.0431
#3	-.24219	291.96	3.8597	19.549	-.65445	666.22	.2566
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		200.00					
Low Limit		-200.00					

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13059	1.3498	3.7536	34.750	285.4	127.1	F 23.419
Stddev	.13375	.0980	.1236	33.325	56.6	46.2	.370
%RSD	102.42	7.2631	3.2934	95.899	19.84	36.34	1.5812
#1	.22679	1.3828	3.6109	47.346	294.9	172.7	23.812
#2	-.02214	1.4272	3.8289	-3.0372	224.6	80.40	23.368
#3	.18714	1.2396	3.8209	59.940	336.6	128.0	23.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							15.000
Low Limit							-15.000

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Sample Name: QQ88854-001 Acquired: 11/19/2015 12:36:48 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05940	F 4391.3	1.3890	1.1033	3.0840	4.6598	F 1081.
Stddev	.06122	49.8	.1644	1.0580	.7391	1.1182	12.
%RSD	103.08	1.1339	11.835	95.894	23.966	23.998	1.085
#1	.12419	4337.6	1.5149	-.10787	3.7340	5.9420	1094.
#2	.05149	4435.9	1.4490	1.5705	2.2800	3.8869	1078.
#3	.00251	4400.5	1.2030	1.8473	3.2381	4.1504	1070.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit		3000.0					50.00
Low Limit		-3000.0					-50.00

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.3629	1.2380	F 556.25
Stddev	.4130	.1886	.72
%RSD	17.477	15.234	.13022
#1	-2.6929	1.3961	555.97
#2	-1.8998	1.0293	555.70
#3	-2.4960	1.2887	557.07
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			60.000
Low Limit			-60.000

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Sample Name: QQ88854-001 Acquired: 11/19/2015 12:36:48 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26539.	4891.6	396420.
Stddev	37.	77.5	3835.
%RSD	.14061	1.5834	.96730
#1	26580.	4946.4	392100.
#2	26532.	4803.0	397750.
#3	26507.	4925.5	399420.

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Sample Name: QQ88854-002 Acquired: 11/19/2015 12:41:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.38521	F -21.527	F .97487	F 25.205	F -2.1618	F 403.12	F .2604
Stddev	.16179	50.627	.65865	.381	.0216	9.55	.1649
%RSD	42.002	235.17	67.563	1.5126	.99944	2.3683	63.34
#1	-.22186	14.207	1.6235	24.987	-2.1686	414.13	.0886
#2	-.38835	.6721	.99448	25.645	-2.1793	397.01	.2752
#3	-.54540	-79.462	.30664	24.981	-2.1377	398.24	.4175
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.000	400.00	20.000	400.00	10.000	10000.	10.00
Range	-50.000%	-30.500%	-30.500%	-30.500%	-30.500%	-30.500%	-30.50%

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.65359	F 1.2926	F 4.4599	F 31.732	F 208.0	F 24.53	F 39.868
Stddev	.24096	.1576	.1397	12.995	50.6	22.21	.806
%RSD	36.867	12.189	3.1324	40.952	24.32	90.57	2.0213
#1	-.57383	1.2781	4.5673	16.749	265.9	2.291	40.468
#2	-.92431	1.1428	4.3020	39.929	172.4	24.57	40.185
#3	-.46262	1.4569	4.5103	38.518	185.8	46.72	38.952
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	100.00	20.000	50.000	200.00	10000.	10000.	30.000
Range	-30.500%	-30.500%	-30.500%	-30.500%	-30.50%	-30.50%	30.500%

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Sample Name: QQ88854-002 Acquired: 11/19/2015 12:41:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33716	F 3501.2	F 1.8762	F -.21713	F 4.4809	F 2.8122	3534.
Stddev	.16147	40.8	.1337	.32449	1.4748	1.0469	116.
%RSD	47.890	1.1644	7.1258	149.44	32.913	37.226	3.271
#1	.49127	3533.1	1.7231	-.23568	2.8501	1.7658	3561.
#2	.35100	3455.2	1.9699	-.53195	4.8715	2.8113	3634.
#3	.16922	3515.2	1.9355	.11623	5.7212	3.8595	3407.
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None
Value		10000.	80.000	20.000	120.00	70.000	
Range		-30.500%	-30.500%	-30.500%	-50.000%	-30.500%	

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F -7.5494	F 3.5184	F 533.00
Stddev	1.5005	.3057	.95
%RSD	19.876	8.6885	.17753
#1	-7.9981	3.2048	532.64
#2	-5.8757	3.8155	532.28
#3	-8.7744	3.5349	534.07
Check ?	Chk Fail	Chk Fail	Chk Fail
Value	50.000	100.00	120.00
Range	-30.500%	-30.500%	30.500%

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Sample Name: QQ88854-002 Acquired: 11/19/2015 12:41:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25688.	4763.6	382730.
Stddev	35.	58.9	9639.
%RSD	.13613	1.2367	2.5185
#1	25728.	4699.3	374570.
#2	25664.	4776.5	380260.
#3	25671.	4815.0	393370.

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Sample Name: QK03007-009 Acquired: 11/19/2015 12:46:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21628	228280.	55.796	1307.8	-3.4809	76178.
Stddev	.17123	2054.	.640	14.3	.1249	941.
%RSD	79.171	.89973	1.1466	1.0965	3.5884	1.2356
#1	.02129	226110.	55.144	1292.4	-3.6251	75209.
#2	.28542	228540.	55.821	1310.1	-3.4095	76237.
#3	.34212	230190.	56.423	1320.8	-3.4080	77089.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.687	137.05	456.36	467.72	F 358030.	23680.
Stddev	.032	1.81	10.87	9.98	4255.	221.
%RSD	1.868	1.3223	2.3813	2.1340	1.1883	.9340
#1	1.678	138.05	468.56	478.97	353610.	23460.
#2	1.723	138.14	447.71	459.93	358360.	23670.
#3	1.662	134.96	452.81	464.25	362100.	23910.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03007-009 Acquired: 11/19/2015 12:46:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	163000.	6082.2	2.5098	6495.9	523.90	40.721
Stddev	2373.	150.2	.1250	101.6	6.51	4.771
%RSD	1.456	2.4698	4.9826	1.5642	1.2435	11.716
#1	160600.	6252.1	2.4319	6419.9	528.75	45.147
#2	163100.	5967.0	2.6541	6456.4	526.45	41.349
#3	165400.	6027.6	2.4436	6611.3	516.49	35.668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.2609	2.3123	F 12070.	-4.5400	672.85	782.67
Stddev	1.9627	1.1791	274.	.8706	15.86	11.09
%RSD	21.194	50.993	2.270	19.175	2.3573	1.4168
#1	10.959	.98511	12350.	-5.1351	690.66	789.99
#2	9.7121	3.2390	12060.	-4.9440	660.27	788.12
#3	7.1118	2.7127	11800.	-3.5408	667.61	769.91
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10000.			
Low Limit			-10000.			

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Sample Name: QK03007-009 Acquired: 11/19/2015 12:46:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26529.	5247.9	395250.
Stddev	270.	77.9	8236.
%RSD	1.0189	1.4851	2.0838
#1	26589.	5319.1	386970.
#2	26233.	5260.0	403440.
#3	26764.	5164.6	395350.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.05%	114.74%	106.15%
Range			

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Sample Name: QK03007-010 Acquired: 11/19/2015 12:51:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47232	118120.	24.697	561.09	-2.7081	61906.
Stddev	.10599	276.	1.776	4.07	.0618	154.
%RSD	22.439	.23355	7.1925	.72484	2.2834	.24818
#1	.38335	118440.	26.151	562.45	-2.7652	62010.
#2	.58958	117970.	25.223	556.52	-2.7166	61730.
#3	.44402	117950.	22.717	564.31	-2.6424	61979.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8865	70.444	269.60	246.21	F 183000.	9810.
Stddev	.0636	1.878	4.16	3.53	449.	31.
%RSD	7.173	2.6663	1.5417	1.4349	.24563	.3142
#1	.9590	72.546	272.21	248.70	183270.	9806.
#2	.8401	69.858	271.80	247.76	182480.	9842.
#3	.8605	68.929	264.81	242.16	183250.	9781.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03007-010 Acquired: 11/19/2015 12:51:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84190.	3083.4	1.6471	4430.1	303.95	14.031
Stddev	326.	18.6	.4216	20.2	6.36	2.187
%RSD	.3876	.60220	25.598	.45571	2.0937	15.590
#1	84510.	3070.1	2.0741	4447.5	311.09	16.550
#2	83860.	3104.6	1.6362	4408.0	301.88	12.927
#3	84190.	3075.4	1.2310	4434.9	298.88	12.615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9132	2.7477	7020.	-1.5869	399.08	376.21
Stddev	2.9647	1.6512	40.	.5204	5.93	7.85
%RSD	50.136	60.092	.5712	32.794	1.4849	2.0870
#1	7.5655	1.9243	7066.	-2.1811	403.31	384.99
#2	2.4906	4.6487	6996.	-1.3675	401.63	373.76
#3	7.6835	1.6703	6997.	-1.2121	392.31	369.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03007-010 Acquired: 11/19/2015 12:51:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26139.	5134.8	386820.
Stddev	192.	88.5	836.
%RSD	.73538	1.7228	.21609
#1	25927.	5134.0	386310.
#2	26302.	5223.6	387790.
#3	26187.	5046.7	386370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.52%	112.26%	103.88%
Range			

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Sample Name: QQ89663-001 Acquired: 11/19/2015 12:56:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44313	-127.46	.55546	.59735	-.01602	82.464	.1223
Stddev	.15627	74.39	.36085	.64671	.00486	10.246	.1064
%RSD	35.266	58.360	64.963	108.26	30.338	12.425	86.99
#1	-.49418	-201.46	.32473	1.0177	-.01565	74.566	.1654
#2	-.26772	-52.700	.37036	.92166	-.01135	78.784	.0011
#3	-.56750	-128.22	.97130	-.14734	-.02105	94.042	.2005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09804	-.09750	.95267	5.1817	55.05	-.1689	.12665
Stddev	.09765	.13238	.47669	23.183	20.68	45.08	.01786
%RSD	99.604	135.77	50.038	447.40	37.58	26690.	14.105
#1	-.09018	.01777	.41707	-15.714	78.90	38.63	.14317
#2	-.19938	-.06820	1.3304	30.120	44.29	10.47	.10769
#3	-.00455	-.24208	1.1105	1.1391	41.96	-49.61	.12910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89663-001 Acquired: 11/19/2015 12:56:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06616	-5.6077	.14982	.53738	1.3736	.29600	.1936
Stddev	.16380	20.353	.02125	.25923	2.1171	.35827	.1453
%RSD	247.56	362.95	14.186	48.240	154.13	121.04	75.04
#1	.18830	-12.984	.13426	.28313	-.42222	-.08550	.0588
#2	.13016	-21.245	.17403	.80133	.83502	.62532	.1745
#3	-.11997	17.405	.14115	.52768	3.7079	.34819	.3475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.09681	.15533	1.1530
Stddev	.45338	.25332	.0583
%RSD	468.32	163.08	5.0604
#1	-.28818	.40122	1.1069
#2	.59653	.16960	1.2186
#3	-.01792	-.10482	1.1336
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89663-001 Acquired: 11/19/2015 12:56:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27074.	5009.1	402740.
Stddev	121.	26.2	4415.
%RSD	.44663	.52331	1.0962
#1	27206.	5018.3	402060.
#2	27048.	5029.4	398710.
#3	26969.	4979.5	407460.

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Sample Name: QQ89663-002 Acquired: 11/19/2015 13:01:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.109	F 267.51	19.315	391.25	9.6841	10282.	9.183
Stddev	.389	40.10	.809	1.49	.1583	7.	.239
%RSD	2.0382	14.991	4.1860	.38009	1.6348	.06484	2.609
#1	18.851	239.49	19.664	389.57	9.5401	10275.	8.915
#2	18.918	313.45	18.390	391.81	9.6585	10288.	9.378
#3	19.557	249.59	19.890	392.38	9.8537	10281.	9.254
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		400.00					
Range		-30.500%					

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.257	19.258	47.733	205.73	9749.	10070.	29.862
Stddev	.205	.549	.996	17.12	72.	28.	.341
%RSD	.22020	2.8524	2.0861	8.3202	.7434	.2749	1.1431
#1	93.046	18.789	47.061	222.70	9832.	10050.	29.563
#2	93.267	19.122	47.261	206.03	9704.	10100.	29.787
#3	93.456	19.862	48.877	188.47	9709.	10050.	30.234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89663-002 Acquired: 11/19/2015 13:01:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10960	10528.	74.242	18.025	113.31	66.319	.5230
Stddev	.16568	18.	.270	1.026	.82	1.965	.0510
%RSD	151.16	.17377	.36310	5.6944	.72015	2.9628	9.749
#1	.14462	10534.	74.124	18.502	114.15	65.727	.5531
#2	-.07079	10543.	74.052	18.726	112.52	68.512	.4641
#3	.25498	10508.	74.551	16.847	113.24	64.719	.5518
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.736	94.250	112.87
Stddev	1.252	1.371	.44
%RSD	2.7979	1.4545	.39251
#1	43.615	92.837	112.64
#2	46.086	94.339	112.59
#3	44.506	95.574	113.38
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89663-002 Acquired: 11/19/2015 13:01:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26427.	4831.1	392940.
Stddev	105.	65.4	3940.
%RSD	.39740	1.3538	1.0027
#1	26377.	4760.8	396300.
#2	26548.	4842.5	393920.
#3	26356.	4890.1	388610.

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Sample Name: QK13011-001 Acquired: 11/19/2015 13:06:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.75359	110040.	41.979	292.87	3.8376	23197.
Stddev	.34666	612.	.736	3.22	.0755	79.
%RSD	46.001	.55582	1.7524	1.0994	1.9682	.33938
#1	-1.1532	109340.	41.944	294.47	3.7570	23107.
#2	-.57437	110280.	42.731	294.97	3.9067	23231.
#3	-.53323	110490.	41.261	289.16	3.8491	23253.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.387	82.000	238.33	190.73	F 228620.	10230.
Stddev	.066	.126	3.42	2.74	470.	23.
%RSD	1.495	.15326	1.4366	1.4358	.20563	.2211
#1	4.449	81.883	235.20	188.32	228080.	10230.
#2	4.318	81.984	241.98	193.71	228970.	10220.
#3	4.394	82.133	237.80	190.17	228800.	10260.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001 Acquired: 11/19/2015 13:06:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61510.	2640.6	1.7921	1329.1	183.60	184.27
Stddev	174.	48.4	.2372	16.8	.62	1.12
%RSD	.2829	1.8339	13.238	1.2671	.34034	.60661
#1	61460.	2587.5	1.8767	1313.9	184.04	185.35
#2	61370.	2682.4	1.5242	1347.2	182.89	183.11
#3	61710.	2651.8	1.9755	1326.2	183.88	184.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.809	4.2509	662.0	3.9655	144.82	886.35
Stddev	1.309	1.2128	9.3	.7715	1.98	1.26
%RSD	5.7369	28.532	1.398	19.455	1.3703	.14193
#1	24.318	5.6497	654.0	4.7388	143.19	887.02
#2	22.129	3.4922	672.2	3.1959	147.03	884.90
#3	21.981	3.6107	660.0	3.9617	144.24	887.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001 Acquired: 11/19/2015 13:06:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26808.	5095.5	385540.
Stddev	40.	46.7	4264.
%RSD	.14834	.91682	1.1061
#1	26821.	5119.2	390230.
#2	26839.	5125.5	381890.
#3	26763.	5041.6	384500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.15%	111.40%	103.54%
Range			

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Sample Name: QK13011-001L(5) Acquired: 11/19/2015 13:11:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24495	23313.	8.3051	61.222	.81326	4796.1	.9975
Stddev	.17380	147.	.8104	.938	.00598	34.6	.1049
%RSD	70.956	.62859	9.7576	1.5315	.73512	.72128	10.52
#1	.38315	23177.	8.5001	60.549	.81838	4767.1	1.012
#2	.30188	23469.	7.4151	62.293	.80669	4834.4	.8863
#3	.04982	23293.	9.0003	60.823	.81471	4786.8	1.095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.817	49.770	40.590	47915.	2065.	12790.	565.33
Stddev	.093	.644	.996	40.	69.	15.	7.83
%RSD	.52336	1.2934	2.4526	.08318	3.356	.1191	1.3852
#1	17.765	50.513	41.725	47870.	1990.	12780.	574.34
#2	17.762	49.372	40.183	47929.	2127.	12800.	560.22
#3	17.925	49.425	39.864	47946.	2078.	12800.	561.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001L(5) Acquired: 11/19/2015 13:11:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35786	279.18	39.326	40.329	5.5219	-.04262	138.4
Stddev	.07633	3.76	.173	1.112	.9523	1.2934	1.9
%RSD	21.331	1.3454	.43876	2.7582	17.246	3034.9	1.398
#1	.29939	279.72	39.513	40.023	5.4686	.28931	140.6
#2	.32997	275.18	39.292	39.402	4.5973	-1.4696	137.0
#3	.44421	282.64	39.173	41.562	6.4997	1.0524	137.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0131	30.474	190.58
Stddev	.5688	.368	.34
%RSD	56.145	1.2061	.17828
#1	1.0749	30.862	190.31
#2	1.5484	30.428	190.47
#3	.41590	30.131	190.96
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001L(5) Acquired: 11/19/2015 13:11:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26235.	4843.8	377720.
Stddev	61.	24.5	4597.
%RSD	.23200	.50606	1.2171
#1	26226.	4815.5	372600.
#2	26179.	4858.4	381500.
#3	26300.	4857.5	379050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.90%	105.90%	101.44%
Range			

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Sample Name: QK13011-001DU Acquired: 11/19/2015 13:15:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33081	107210.	46.704	310.38	3.8229	26841.
Stddev	.10661	3630.	.444	11.51	.0218	1011.
%RSD	32.226	3.3858	.95131	3.7089	.57142	3.7658
#1	-.21727	111350.	46.946	323.23	3.8480	27993.
#2	-.42877	104540.	46.191	301.02	3.8123	26106.
#3	-.34639	105750.	46.975	306.90	3.8083	26423.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.316	78.159	254.12	203.53	F 216450.	10500.
Stddev	.025	.825	1.14	1.90	7977.	444.
%RSD	.4699	1.0551	.44702	.93499	3.6854	4.227
#1	5.305	78.999	255.41	205.68	225570.	11020.
#2	5.345	77.351	253.69	202.81	210760.	10240.
#3	5.299	78.126	253.26	202.08	213030.	10260.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001DU Acquired: 11/19/2015 13:15:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55440.	2515.2	2.0031	1447.1	177.42	312.37
Stddev	1946.	30.5	.1413	49.1	1.69	2.54
%RSD	3.511	1.2118	7.0540	3.3929	.95042	.81391
#1	57650.	2507.0	1.9469	1500.3	179.00	313.69
#2	53990.	2489.7	1.8985	1403.6	175.64	309.44
#3	54670.	2549.0	2.1639	1437.3	177.61	313.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.652	3.7960	705.9	2.1428	141.45	959.28
Stddev	1.562	2.4998	3.5	.6951	1.15	8.85
%RSD	5.4508	65.853	.5021	32.440	.81063	.92232
#1	29.408	.98438	709.8	2.9368	142.70	967.91
#2	29.693	4.6363	704.8	1.8475	141.18	950.23
#3	26.856	5.7675	703.0	1.6440	140.45	959.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001DU Acquired: 11/19/2015 13:15:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26892.	4985.8	395380.
Stddev	322.	171.3	2552.
%RSD	1.1983	3.4352	.64546
#1	26608.	4788.2	392430.
#2	27242.	5077.7	396870.
#3	26826.	5091.6	396840.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.48%	109.01%	106.18%
Range			

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Sample Name: QK13011-001MS Acquired: 11/19/2015 13:20:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.591	96637.	111.96	3967.5	100.45	17726.
Stddev	.693	1207.	.99	55.4	1.16	235.
%RSD	.75682	1.2491	.88496	1.3951	1.1529	1.3263
#1	90.855	95271.	112.79	3903.9	99.370	17460.
#2	92.232	97077.	112.24	3993.9	101.67	17813.
#3	91.685	97562.	110.87	4004.7	100.31	17906.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90.27	931.43	574.89	621.83	F 184870.	10910.
Stddev	.56	1.63	5.67	6.11	2199.	203.
%RSD	.6168	.17530	.98703	.98318	1.1894	1.861
#1	90.85	933.19	569.81	616.29	182340.	10680.
#2	90.22	931.14	581.02	628.39	185880.	11050.
#3	89.74	929.96	573.85	620.82	186370.	11000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001MS Acquired: 11/19/2015 13:20:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50850.	3094.5	1.1912	1172.8	1005.6	188.28
Stddev	605.	24.8	.1628	25.1	1.3	.85
%RSD	1.190	.80006	13.671	2.1415	.12637	.44981
#1	50160.	3068.0	1.3264	1144.0	1007.1	189.01
#2	51130.	3117.0	1.2368	1184.3	1004.7	187.35
#3	51270.	3098.6	1.0104	1190.2	1005.0	188.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59.698	174.69	593.0	86.556	1022.8	1714.5
Stddev	1.421	1.02	6.2	.843	11.7	4.2
%RSD	2.3797	.58405	1.051	.97358	1.1423	.24305
#1	58.605	175.64	588.1	87.090	1012.6	1719.2
#2	59.184	173.61	600.0	85.585	1035.6	1713.1
#3	61.304	174.83	590.9	86.994	1020.3	1711.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001MS Acquired: 11/19/2015 13:20:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26957.	4991.4	391250.
Stddev	159.	63.5	2882.
%RSD	.58905	1.2714	.73670
#1	26781.	5057.3	394580.
#2	27000.	4930.6	389540.
#3	27090.	4986.4	389640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.73%	109.13%	105.07%
Range			

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Sample Name: QK13011-001A Acquired: 11/19/2015 13:25:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.646	107830.	58.742	656.54	13.649	31795.
Stddev	.388	1911.	1.269	7.25	.205	386.
%RSD	2.0802	1.7719	2.1609	1.1049	1.5024	1.2145
#1	18.469	105880.	59.668	649.47	13.521	31391.
#2	19.091	107900.	57.295	656.17	13.885	31835.
#3	18.379	109700.	59.264	663.97	13.540	32160.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.15	167.52	244.56	231.89	F 218290.	19590.
Stddev	.27	.77	3.72	3.55	2507.	363.
%RSD	2.039	.45739	1.5221	1.5323	1.1486	1.852
#1	13.34	168.38	242.10	229.51	215810.	19190.
#2	13.27	166.91	248.84	235.98	218230.	19670.
#3	12.84	167.28	242.73	230.19	220820.	19900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001A Acquired: 11/19/2015 13:25:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67620.	2578.5	1.7709	11428.	247.48	196.37
Stddev	797.	32.7	.0803	135.	1.70	3.26
%RSD	1.178	1.2691	4.5359	1.1811	.68782	1.6606
#1	66760.	2568.8	1.7907	11285.	249.40	200.14
#2	67760.	2615.0	1.6825	11443.	246.13	194.50
#3	68340.	2551.8	1.8395	11554.	246.93	194.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	133.04	67.335	635.5	44.320	232.90	975.77
Stddev	2.16	1.398	9.8	.441	3.71	5.68
%RSD	1.6264	2.0756	1.534	.99520	1.5926	.58198
#1	133.08	66.121	629.3	44.026	230.77	981.83
#2	130.86	68.862	646.8	44.107	237.19	970.56
#3	135.18	67.021	630.6	44.827	230.75	974.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001A Acquired: 11/19/2015 13:25:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26575.	5054.8	386820.
Stddev	107.	70.1	6166.
%RSD	.40351	1.3865	1.5940
#1	26463.	5096.2	388440.
#2	26677.	5094.3	380010.
#3	26584.	4973.9	392020.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.23%	110.51%	103.88%
Range			

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Sample Name: QK13011-002 Acquired: 11/19/2015 13:30:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53907	99492.	36.019	259.19	3.9663	17699.
Stddev	.04245	191.	1.015	.52	.0512	45.
%RSD	7.8746	.19179	2.8179	.20090	1.2896	.25643
#1	-.49007	99281.	35.851	258.95	4.0226	17652.
#2	-.56251	99540.	37.108	258.83	3.9226	17702.
#3	-.56463	99654.	35.099	259.79	3.9539	17743.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8043	80.987	140.85	113.43	F 206530.	12530.
Stddev	.0661	.125	1.74	.99	531.	75.
%RSD	8.217	.15428	1.2336	.87364	.25718	.5965
#1	.7478	81.016	142.57	114.31	205950.	12470.
#2	.8770	80.850	139.10	113.64	206990.	12500.
#3	.7881	81.095	140.90	112.36	206650.	12610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-002 Acquired: 11/19/2015 13:30:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48540.	2637.4	1.9420	2688.4	175.18	81.725
Stddev	87.	37.9	.1440	4.6	.27	1.547
%RSD	.1796	1.4376	7.4133	.17147	.15439	1.8934
#1	48460.	2652.4	1.9643	2684.7	174.99	81.797
#2	48530.	2665.6	1.7881	2687.0	175.07	83.235
#3	48630.	2594.3	2.0734	2693.6	175.49	80.143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6897	4.4950	1083.	3.6817	150.33	521.40
Stddev	1.3923	2.5032	12.	1.2952	2.14	.90
%RSD	37.735	55.689	1.111	35.181	1.4219	.17355
#1	2.1390	1.7988	1097.	5.0534	152.75	520.96
#2	4.0975	6.7454	1074.	2.4796	148.69	520.80
#3	4.8326	4.9408	1078.	3.5120	149.55	522.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-002 Acquired: 11/19/2015 13:30:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27244.	5197.9	397160.
Stddev	114.	40.8	4689.
%RSD	.41995	.78445	1.1806
#1	27325.	5244.2	391790.
#2	27294.	5182.0	399210.
#3	27113.	5167.4	400480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.86%	113.64%	106.66%
Range			

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Sample Name: QK13011-003 Acquired: 11/19/2015 13:35:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63430	115280.	29.448	277.63	3.7199	15050.
Stddev	.29386	297.	1.632	1.60	.0888	85.
%RSD	46.328	.25723	5.5415	.57512	2.3879	.56371
#1	-.96516	115050.	29.067	275.80	3.8105	14992.
#2	-.53405	115620.	31.237	278.75	3.7161	15148.
#3	-.40368	115180.	28.040	278.33	3.6330	15012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.318	75.883	154.76	130.25	F 221710.	12520.
Stddev	.028	.153	3.11	2.57	646.	69.
%RSD	2.139	.20124	2.0116	1.9727	.29145	.5543
#1	1.290	75.864	157.69	132.76	221000.	12460.
#2	1.317	76.044	155.10	130.36	222280.	12520.
#3	1.346	75.740	151.49	127.62	221840.	12600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-003 Acquired: 11/19/2015 13:35:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54200.	2361.1	1.6589	1584.1	183.67	81.023
Stddev	406.	32.8	.2888	22.2	.26	2.903
%RSD	.7495	1.3882	17.407	1.4046	.14179	3.5830
#1	53880.	2393.4	1.9908	1604.1	183.38	83.699
#2	54660.	2362.1	1.5207	1560.1	183.73	81.433
#3	54060.	2327.9	1.4652	1587.9	183.89	77.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1963	3.1850	810.8	2.1577	146.45	606.60
Stddev	1.0934	2.1105	15.1	.6812	2.96	.32
%RSD	21.042	66.265	1.865	31.571	2.0242	.05286
#1	5.9814	1.1061	826.1	1.8186	149.36	606.33
#2	5.6601	5.3258	810.4	1.7126	146.55	606.51
#3	3.9475	3.1232	795.8	2.9419	143.43	606.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-003 Acquired: 11/19/2015 13:35:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26823.	5073.1	390770.
Stddev	67.	39.2	7352.
%RSD	.25001	.77234	1.8814
#1	26785.	5117.8	382720.
#2	26783.	5056.9	392470.
#3	26900.	5044.6	397120.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.21%	110.91%	104.94%
Range			

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Sample Name: QK13011-004 Acquired: 11/19/2015 13:40:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.39713	101510.	31.481	392.36	4.3762	19381.
Stddev	.11679	146.	.564	1.05	.0481	42.
%RSD	29.408	.14432	1.7925	.26680	1.0995	.21445
#1	-.38554	101430.	31.387	391.27	4.3212	19410.
#2	-.28657	101420.	30.970	392.43	4.3966	19399.
#3	-.51928	101680.	32.087	393.36	4.4107	19333.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.188	76.437	141.15	115.95	F 175360.	12880.
Stddev	.103	.229	.90	1.12	236.	66.
%RSD	8.697	.29925	.63534	.96597	.13450	.5092
#1	1.210	76.176	140.15	114.86	175580.	12800.
#2	1.076	76.533	141.41	115.90	175390.	12920.
#3	1.279	76.602	141.88	117.10	175120.	12910.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-004 Acquired: 11/19/2015 13:40:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38020.	2615.7	2.7827	1208.8	166.33	85.418
Stddev	327.	15.4	.1364	19.5	.33	1.555
%RSD	.8590	.58864	4.9015	1.6158	.19981	1.8201
#1	38220.	2608.4	2.7240	1229.8	166.04	87.116
#2	38200.	2605.2	2.9386	1205.7	166.26	85.075
#3	37640.	2633.3	2.6855	1191.1	166.70	84.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9066	1.9656	955.6	3.1713	153.48	501.21
Stddev	1.8984	3.0894	5.0	1.0277	1.04	.80
%RSD	48.596	157.17	.5210	32.406	.67485	.15932
#1	3.2610	-1.4337	949.9	3.3358	152.33	502.00
#2	6.0436	2.7283	958.0	2.0713	154.34	501.22
#3	2.4151	4.6022	959.0	4.1068	153.78	500.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-004 Acquired: 11/19/2015 13:40:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27470.	5192.8	404620.
Stddev	59.	11.9	2547.
%RSD	.21483	.22892	.62944
#1	27415.	5181.2	407560.
#2	27463.	5192.3	403070.
#3	27533.	5204.9	403230.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	107.75%	113.53%	108.66%
Range			

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Sample Name: QK13011-005 Acquired: 11/19/2015 13:45:00 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65175	110670.	33.411	363.46	4.7977	16777.
Stddev	.37353	123.	.408	.82	.0286	75.
%RSD	57.311	.11119	1.2218	.22466	.59526	.44859
#1	-.31336	110810.	33.864	363.95	4.8266	16695.
#2	-1.0526	110580.	33.073	363.91	4.7972	16795.
#3	-.58934	110610.	33.294	362.51	4.7695	16842.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.274	83.533	151.11	123.26	F 192460.	13600.
Stddev	.075	.084	1.52	.77	657.	52.
%RSD	5.909	.10017	1.0080	.62211	.34120	.3811
#1	1.207	83.501	151.82	123.77	191860.	13540.
#2	1.259	83.470	152.14	123.63	192360.	13600.
#3	1.356	83.628	149.36	122.38	193160.	13650.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-005 Acquired: 11/19/2015 13:45:00 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41620.	2505.5	2.2765	1290.0	177.58	80.091
Stddev	403.	4.5	.5199	20.4	.37	.087
%RSD	.9687	.18103	22.836	1.5787	.20735	.10821
#1	41190.	2509.8	1.7556	1266.5	177.78	80.158
#2	41990.	2505.9	2.7953	1302.7	177.15	79.993
#3	41680.	2500.8	2.2785	1300.8	177.80	80.122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4741	4.4217	1008.	2.5679	165.54	517.09
Stddev	1.8073	2.2393	9.	.2175	1.90	.74
%RSD	122.60	50.645	.8494	8.4687	1.1499	.14220
#1	3.4967	6.4465	1015.	2.3777	166.85	517.22
#2	.01809	2.0165	1011.	2.5209	166.40	516.29
#3	.90732	4.8020	998.5	2.8050	163.35	517.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-005 Acquired: 11/19/2015 13:45:00 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27678.	5291.7	403580.
Stddev	50.	18.1	2880.
%RSD	.18066	.34267	.71371
#1	27680.	5292.6	401910.
#2	27727.	5273.0	401930.
#3	27627.	5309.3	406910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	108.56%	115.69%	108.38%
Range			

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Sample Name: QK13011-006 Acquired: 11/19/2015 13:49:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58461	108770.	35.786	399.07	4.6371	19822.
Stddev	.29359	482.	1.406	2.18	.0802	37.
%RSD	50.219	.44335	3.9283	.54589	1.7291	.18685
#1	-.24639	109290.	34.530	401.58	4.5691	19860.
#2	-.77374	108670.	37.305	397.97	4.6167	19819.
#3	-.73371	108340.	35.524	397.66	4.7255	19786.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.256	79.824	155.58	119.63	F 197600.	14320.
Stddev	.080	.203	1.72	1.52	319.	57.
%RSD	6.356	.25391	1.1061	1.2729	.16136	.3948
#1	1.348	79.703	154.09	118.32	197960.	14380.
#2	1.213	80.058	155.19	119.28	197440.	14280.
#3	1.206	79.711	157.46	121.30	197390.	14290.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-006 Acquired: 11/19/2015 13:49:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41050.	2615.6	2.5083	1337.7	170.39	79.757
Stddev	121.	72.7	.1088	13.3	.38	.258
%RSD	.2944	2.7777	4.3379	.99545	.22305	.32390
#1	41110.	2566.2	2.6087	1341.7	170.30	79.731
#2	41130.	2581.7	2.5237	1322.9	170.06	79.513
#3	40910.	2699.1	2.3927	1348.6	170.80	80.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2637	4.4304	1187.	1.5502	167.77	518.18
Stddev	1.1247	1.6952	17.	.1153	2.39	.49
%RSD	49.682	38.262	1.421	7.4351	1.4255	.09437
#1	2.7995	2.7230	1173.	1.4314	165.54	518.74
#2	.97136	6.1131	1183.	1.5575	167.47	518.00
#3	3.0203	4.4551	1206.	1.6616	170.29	517.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-006 Acquired: 11/19/2015 13:49:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27749.	5181.9	404100.
Stddev	51.	44.3	4632.
%RSD	.18277	.85466	1.1464
#1	27692.	5159.0	408260.
#2	27766.	5232.9	404930.
#3	27789.	5153.6	399110.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	108.84%	113.29%	108.52%
Range			

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Sample Name: QK13011-007 Acquired: 11/19/2015 13:54:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71269	124960.	40.520	588.08	5.2649	22302.
Stddev	.14762	237.	.986	1.66	.0062	110.
%RSD	20.714	.18994	2.4325	.28165	.11728	.49198
#1	-.87317	124690.	41.541	588.36	5.2597	22175.
#2	-.58268	125080.	40.445	586.29	5.2632	22365.
#3	-.68222	125120.	39.574	589.57	5.2717	22365.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.031	74.359	150.50	155.59	F 180880.	14730.
Stddev	.117	.733	.46	.70	535.	64.
%RSD	11.36	.98562	.30813	.45007	.29557	.4343
#1	1.033	75.115	150.60	155.99	180270.	14660.
#2	.9126	74.309	150.91	154.78	181290.	14790.
#3	1.147	73.652	150.00	156.00	181080.	14730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-007 Acquired: 11/19/2015 13:54:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40280.	2741.5	3.3252	1153.3	167.74	311.87
Stddev	229.	47.8	.2099	6.6	1.23	3.97
%RSD	.5692	1.7444	6.3132	.56889	.73323	1.2720
#1	40080.	2748.6	3.5676	1151.2	169.07	316.09
#2	40530.	2785.3	3.2019	1160.6	167.52	311.30
#3	40230.	2690.5	3.2061	1148.0	166.64	308.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.7253	4.3102	752.7	2.6288	169.90	538.90
Stddev	.3733	1.2781	1.3	.2688	.43	5.31
%RSD	13.696	29.653	.1714	10.226	.25235	.98617
#1	2.3479	4.0464	751.2	2.5320	169.44	544.52
#2	2.7337	5.6997	753.3	2.4218	169.96	538.22
#3	3.0943	3.1846	753.6	2.9326	170.29	533.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-007 Acquired: 11/19/2015 13:54:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27473.	5160.2	401320.
Stddev	99.	45.8	3408.
%RSD	.35982	.88745	.84918
#1	27428.	5117.9	405240.
#2	27404.	5153.9	399670.
#3	27586.	5208.8	399060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	107.76%	112.82%	107.78%
Range			

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Sample Name: QK13011-008 Acquired: 11/19/2015 13:59:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37758	92385.	34.550	338.22	4.1076	17774.
Stddev	.41312	474.	.839	1.92	.1031	88.
%RSD	109.41	.51277	2.4288	.56655	2.5104	.49560
#1	-.51610	91969.	34.047	336.34	4.0992	17675.
#2	.08700	92901.	35.519	338.16	4.0090	17844.
#3	-.70365	92285.	34.085	340.17	4.2147	17803.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.036	69.614	134.43	104.65	F 207190.	11390.
Stddev	.204	.229	3.55	2.12	668.	74.
%RSD	19.68	.32874	2.6386	2.0279	.32237	.6496
#1	.9765	69.395	134.11	104.40	206430.	11300.
#2	1.263	69.594	131.05	102.67	207670.	11410.
#3	.8688	69.852	138.13	106.89	207480.	11450.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-008 Acquired: 11/19/2015 13:59:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33990.	2151.6	2.8722	1254.1	150.20	73.037
Stddev	157.	24.4	.1732	12.5	.27	1.702
%RSD	.4621	1.1356	6.0287	.99567	.17887	2.3297
#1	33840.	2133.6	2.7180	1244.8	150.09	73.824
#2	34150.	2141.9	2.8392	1268.3	149.99	71.084
#3	33980.	2179.4	3.0595	1249.3	150.50	74.201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1365	4.5514	979.5	3.3838	144.99	469.67
Stddev	2.4056	.9535	22.4	1.5697	3.11	1.02
%RSD	112.59	20.949	2.282	46.390	2.1435	.21723
#1	1.9870	5.2615	975.1	3.2128	144.18	468.72
#2	4.6134	3.4677	959.7	1.9065	142.37	469.54
#3	-.19080	4.9251	1004.	5.0320	148.43	470.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-008 Acquired: 11/19/2015 13:59:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27332.	5247.9	398000.
Stddev	51.	49.2	6223.
%RSD	.18583	.93799	1.5634
#1	27304.	5303.7	400230.
#2	27391.	5210.7	402800.
#3	27301.	5229.3	390970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	107.20%	114.74%	106.89%
Range			

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Sample Name: CCV002 Acquired: 11/19/2015 14:04:30 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	761.28	48608.	2492.3	9930.0	1038.9	50601.	985.6
Stddev	15.77	595.	7.1	115.1	27.2	599.	1.3
%RSD	2.0714	1.2248	.28474	1.1591	2.6145	1.1838	.1319
#1	768.86	47922.	2500.4	9807.0	1052.7	49948.	987.1
#2	771.82	48911.	2487.4	9948.0	1056.4	50727.	985.3
#3	743.15	48990.	2489.1	10035.	1007.6	51126.	984.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4791.6	10078.	12433.	25004.	36970.	49210.	5015.6
Stddev	7.0	195.	97.	256.	409.	630.	141.5
%RSD	.14514	1.9349	.78373	1.0255	1.106	1.280	2.8204
#1	4799.6	10141.	12406.	24736.	36510.	48500.	5106.0
#2	4787.1	10233.	12541.	25029.	37080.	49420.	5088.1
#3	4788.1	9859.1	12352.	25247.	37310.	49710.	4852.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV002 Acquired: 11/19/2015 14:04:30 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.13	25950.	4774.0	9340.5	2463.6	1245.2	1014.
Stddev	.05	347.	5.7	12.6	5.7	3.4	19.
%RSD	.00498	1.3356	.11959	.13496	.23009	.27407	1.914
#1	980.19	25594.	4780.0	9352.3	2469.3	1249.1	1020.
#2	980.10	25971.	4773.3	9327.2	2457.9	1243.3	1029.
#3	980.11	26286.	4768.6	9342.0	2463.5	1243.1	992.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	923.78	2529.3	4879.4
Stddev	2.20	47.4	7.0
%RSD	.23821	1.8752	.14337
#1	926.02	2545.8	4885.3
#2	921.62	2566.3	4871.7
#3	923.70	2475.8	4881.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV002 Acquired: 11/19/2015 14:04:30 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24418.	4720.1	363830.
Stddev	101.	86.8	6970.
%RSD	.41166	1.8398	1.9158
#1	24488.	4794.8	360100.
#2	24464.	4740.7	359520.
#3	24303.	4624.8	371870.

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Sample Name: CCB002 Acquired: 11/19/2015 14:09:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18509	-122.70	.31612	.48977	-.02121	-14.424	.1064
Stddev	.27901	59.11	.48638	.98692	.00348	6.228	.1250
%RSD	150.74	48.176	153.86	201.51	16.403	43.181	117.4
#1	-.47685	-60.339	-.05804	1.5953	-.02495	-7.4541	.1957
#2	-.15757	-129.85	.86593	-.30236	-.01807	-16.372	.1600
#3	.07913	-177.92	.14049	.17633	-.02061	-19.445	-.0364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09282	-.01652	.45462	-1.8516	204.8	54.89	.02829
Stddev	.04135	.03629	.33393	11.979	64.6	17.72	.05645
%RSD	44.548	219.68	73.452	646.95	31.56	32.28	199.56
#1	-.04841	-.03802	.53391	8.4812	164.3	68.24	.04905
#2	-.09984	-.03692	.74176	.94590	170.7	61.64	.07142
#3	-.13020	.02538	.08819	-14.982	279.3	34.79	-.03560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/19/2015 14:09:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2290	26.702	.13686	-.36274	.04685	.23779	.4023
Stddev	.1583	14.405	.49407	.18432	1.1442	1.6172	.6450
%RSD	12.877	53.948	361.01	50.814	2442.0	680.12	160.4
#1	1.3363	34.939	.69037	-.54503	.49572	2.1040	-.1469
#2	1.3035	10.068	-.25958	-.17645	.89855	-.63653	1.113
#3	1.0472	35.098	-.02021	-.36675	-1.2537	-.75409	.2411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.28957	-.06723	-.10945
Stddev	.54169	.01927	.06674
%RSD	187.07	28.670	60.980
#1	-.66968	-.08824	-.18290
#2	.33068	-.06308	-.09292
#3	-.52970	-.05036	-.05252
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB002 Acquired: 11/19/2015 14:09:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26282.	4567.7	380540.
Stddev	6.	79.5	5960.
%RSD	.02266	1.7412	1.5662
#1	26284.	4475.8	381350.
#2	26276.	4614.2	374220.
#3	26287.	4612.9	386050.

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Sample Name: QK13011-009 Acquired: 11/19/2015 14:14:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63462	110560.	29.159	444.66	4.8413	19197.
Stddev	.03906	438.	.595	1.34	.0228	126.
%RSD	6.1551	.39586	2.0404	.30198	.47094	.65757
#1	-.58955	110070.	28.649	443.14	4.8659	19073.
#2	-.65571	110920.	29.015	445.68	4.8209	19193.
#3	-.65861	110690.	29.813	445.16	4.8372	19326.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9561	74.133	143.86	121.72	F 173290.	13660.
Stddev	.0788	.102	.61	.91	1054.	69.
%RSD	8.239	.13711	.42215	.75160	.60836	.5049
#1	.8805	74.247	143.99	122.59	172080.	13580.
#2	.9500	74.051	143.20	120.77	173840.	13690.
#3	1.038	74.102	144.39	121.81	173970.	13710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-009 Acquired: 11/19/2015 14:14:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37860.	2492.5	2.5237	1301.9	165.60	85.257
Stddev	347.	17.4	.1698	19.3	.68	.514
%RSD	.9156	.69713	6.7288	1.4844	.40835	.60262
#1	37460.	2489.7	2.3679	1280.5	165.07	85.056
#2	38110.	2511.1	2.4986	1318.1	165.36	85.841
#3	38000.	2476.7	2.7047	1307.1	166.36	84.875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.2653	3.6944	875.6	2.7833	161.43	522.02
Stddev	1.3801	1.4044	4.2	.3868	.70	.99
%RSD	32.357	38.014	.4742	13.898	.43145	.19038
#1	2.7539	2.9743	879.7	2.7016	162.08	521.35
#2	5.4585	5.3128	871.4	2.4439	160.70	521.56
#3	4.5836	2.7962	875.7	3.2045	161.52	523.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-009 Acquired: 11/19/2015 14:14:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27806.	5258.1	403130.
Stddev	111.	64.6	2080.
%RSD	.39841	1.2282	.51587
#1	27919.	5331.6	401250.
#2	27800.	5210.5	402770.
#3	27698.	5232.2	405360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	109.06%	114.96%	108.26%
Range			

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Sample Name: QK13011-010 Acquired: 11/19/2015 14:19:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.79500	59723.	30.249	332.82	2.5896	29693.	11.22
Stddev	.37101	161.	.785	.61	.0084	17.	.07
%RSD	46.667	.26948	2.5948	.18190	.32348	.05837	.6161
#1	.37916	59858.	30.409	332.12	2.5850	29674.	11.30
#2	.91376	59545.	30.942	333.07	2.5846	29707.	11.17
#3	1.0921	59765.	29.396	333.25	2.5993	29699.	11.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67.238	222.57	320.56	100280.	7605.	29450.	1451.8
Stddev	.169	1.65	2.05	160.	77.	83.	8.6
%RSD	.25092	.74260	.63797	.16000	1.011	.2819	.58922
#1	67.388	222.20	319.77	100360.	7617.	29380.	1449.3
#2	67.270	221.13	319.03	100100.	7523.	29540.	1444.7
#3	67.055	224.37	322.88	100390.	7676.	29430.	1461.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-010 Acquired: 11/19/2015 14:19:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3248	810.20	137.07	405.11	4.5014	5.7301	327.9
Stddev	.1374	29.08	.35	1.97	.6423	1.8058	1.9
%RSD	5.9087	3.5891	.25533	.48579	14.269	31.515	.5666
#1	2.4715	837.99	137.09	406.81	4.9919	6.9991	328.1
#2	2.1992	812.63	137.41	405.57	4.7379	3.6627	325.9
#3	2.3037	779.99	136.71	402.96	3.7743	6.5286	329.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8634	104.23	1426.7
Stddev	.3121	.77	3.0
%RSD	10.898	.73887	.20912
#1	3.0968	103.95	1429.6
#2	2.5089	103.64	1426.9
#3	2.9844	105.10	1423.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-010 Acquired: 11/19/2015 14:19:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26745.	4967.8	387840.
Stddev	45.	105.0	544.
%RSD	.16697	2.1129	.14029
#1	26712.	4862.6	387220.
#2	26796.	4968.3	388090.
#3	26728.	5072.5	388220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.90%	108.61%	104.16%
Range			

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Sample Name: QK13011-011 Acquired: 11/19/2015 14:24:10 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42562	108350.	46.122	421.80	3.8769	14684.
Stddev	.16468	1414.	.679	4.12	.0499	148.
%RSD	38.691	1.3052	1.4719	.97596	1.2871	1.0065
#1	-.23740	109490.	46.149	424.88	3.9026	14826.
#2	-.54314	108800.	46.787	423.39	3.9086	14693.
#3	-.49633	106770.	45.430	417.12	3.8193	14531.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.119	67.762	288.70	167.73	F 173200.	9451.
Stddev	.074	.781	3.91	1.89	1767.	39.
%RSD	6.616	1.1529	1.3528	1.1262	1.0201	.4133
#1	1.101	68.477	290.69	168.87	174840.	9411.
#2	1.056	67.881	291.20	168.76	173450.	9489.
#3	1.200	66.928	284.20	165.55	171330.	9452.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-011 Acquired: 11/19/2015 14:24:10 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42540.	1966.3	2.4223	876.25	143.72	259.82
Stddev	519.	22.3	.3004	18.68	1.61	2.44
%RSD	1.219	1.1339	12.401	2.1321	1.1212	.94032
#1	43080.	1984.9	2.3193	872.33	145.30	262.49
#2	42500.	1972.5	2.7606	896.58	143.79	259.29
#3	42050.	1941.6	2.1870	859.84	142.08	257.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4283	4.7066	432.9	2.0267	119.44	522.58
Stddev	1.4585	1.1037	5.7	1.0549	1.71	6.41
%RSD	60.063	23.450	1.327	52.051	1.4310	1.2260
#1	4.0904	5.9559	435.4	2.9333	120.02	528.87
#2	1.3621	4.3003	436.9	.86884	120.77	522.80
#3	1.8324	3.8637	426.3	2.2779	117.51	516.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-011 Acquired: 11/19/2015 14:24:10 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26904.	4907.5	384900.
Stddev	48.	29.7	2579.
%RSD	.17957	.60593	.67017
#1	26886.	4888.6	384570.
#2	26959.	4892.1	382500.
#3	26867.	4941.8	387620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.53%	107.29%	103.37%
Range			

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Sample Name: QK13011-012 Acquired: 11/19/2015 14:29:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.40981	101680.	154.48	373.91	3.8570	20571.
Stddev	.31158	612.	1.69	2.51	.0690	119.
%RSD	76.030	.60163	1.0952	.67250	1.7878	.57701
#1	.05364	101250.	156.31	373.48	3.9166	20508.
#2	.63190	101420.	152.97	371.65	3.7815	20497.
#3	.54390	102380.	154.15	376.62	3.8730	20708.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78.47	89.274	3817.3	826.99	F 187510.	7150.
Stddev	.20	.391	48.2	12.78	1062.	37.
%RSD	.2539	.43774	1.2624	1.5459	.56656	.5195
#1	78.31	89.104	3855.8	837.97	186860.	7109.
#2	78.42	88.997	3763.2	812.95	186940.	7162.
#3	78.69	89.721	3832.8	830.04	188740.	7181.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-012 Acquired: 11/19/2015 14:29:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47780.	1987.7	2.6361	751.62	178.57	1444.8
Stddev	258.	25.3	.1399	9.09	.56	2.0
%RSD	.5388	1.2704	5.3051	1.2090	.31461	.13966
#1	47730.	2007.1	2.7971	762.11	178.54	1444.4
#2	47550.	1997.0	2.5671	746.64	178.02	1443.1
#3	48060.	1959.2	2.5442	746.12	179.14	1447.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104.53	5.8203	375.2	5.5080	123.30	6749.9
Stddev	1.52	.9104	5.5	.4872	1.45	13.1
%RSD	1.4523	15.642	1.474	8.8459	1.1764	.19427
#1	103.20	6.8132	380.0	5.0472	124.69	6752.3
#2	104.20	5.0247	369.2	5.4589	121.80	6735.8
#3	106.18	5.6230	376.4	6.0180	123.43	6761.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-012 Acquired: 11/19/2015 14:29:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26433.	4979.5	389800.
Stddev	87.	33.1	5046.
%RSD	.33018	.66486	1.2945
#1	26435.	4948.3	383970.
#2	26520.	4976.1	392610.
#3	26345.	5014.2	392810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.68%	108.87%	104.68%
Range			

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Sample Name: QK13011-013 Acquired: 11/19/2015 14:33:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13115	108990.	82.394	491.94	4.2800	18463.
Stddev	.34309	378.	.379	1.21	.0415	114.
%RSD	261.60	.34705	.46021	.24573	.96916	.61713
#1	.11766	108680.	82.053	491.52	4.2619	18362.
#2	.01143	108890.	82.327	490.99	4.3274	18440.
#3	-.52254	109410.	82.803	493.30	4.2506	18587.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.898	74.799	837.77	406.57	F 162050.	9932.
Stddev	.245	.150	6.72	3.27	775.	67.
%RSD	8.469	.20092	.80193	.80454	.47797	.6735
#1	2.623	74.719	833.66	406.10	161480.	9934.
#2	3.094	74.706	845.52	410.05	161750.	9864.
#3	2.977	74.973	834.13	403.56	162930.	9998.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-013 Acquired: 11/19/2015 14:33:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40040.	2027.9	3.1539	844.69	158.68	1065.3
Stddev	338.	7.4	.2809	20.68	.19	1.3
%RSD	.8441	.36653	8.9072	2.4484	.11860	.12191
#1	39650.	2021.3	3.2741	858.58	158.90	1065.7
#2	40210.	2026.3	3.3547	820.92	158.53	1066.4
#3	40260.	2036.0	2.8328	854.57	158.62	1063.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8790	3.7785	441.7	3.2877	132.87	723.30
Stddev	.7402	.8282	3.7	.1772	.86	.43
%RSD	25.710	21.919	.8312	5.3883	.64782	.05974
#1	3.1704	4.7259	439.4	3.1824	132.68	723.49
#2	3.4291	3.1919	446.0	3.4923	133.81	723.60
#3	2.0374	3.4177	439.8	3.1886	132.12	722.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-013 Acquired: 11/19/2015 14:33:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27137.	5026.8	394340.
Stddev	108.	35.3	2417.
%RSD	.39810	.70185	.61281
#1	27147.	5040.6	394970.
#2	27025.	4986.7	391670.
#3	27240.	5053.1	396380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.44%	109.90%	105.90%
Range			

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Sample Name: QK13011-014 Acquired: 11/19/2015 14:38:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22355	86568.	18.271	231.89	2.7776	10460.
Stddev	.20395	140.	.587	1.12	.0538	34.
%RSD	91.231	.16225	3.2145	.48100	1.9361	.32147
#1	-.05983	86473.	17.670	232.79	2.7275	10497.
#2	-.45201	86502.	18.300	230.64	2.7709	10448.
#3	-.15881	86729.	18.844	232.25	2.8345	10433.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5901	62.979	99.401	67.221	F 166490.	7321.
Stddev	.1474	.133	1.576	.976	100.	16.
%RSD	24.98	.21114	1.5859	1.4525	.06023	.2118
#1	.4211	62.836	97.943	66.449	166570.	7307.
#2	.6922	63.002	99.186	66.896	166530.	7319.
#3	.6570	63.099	101.07	68.319	166380.	7337.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-014 Acquired: 11/19/2015 14:38:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42520.	1655.0	1.5154	516.32	134.50	49.627
Stddev	171.	22.5	.1516	34.03	.21	1.071
%RSD	.4032	1.3612	10.006	6.5919	.15578	2.1572
#1	42370.	1632.6	1.6629	512.76	134.56	48.733
#2	42710.	1654.8	1.5232	484.20	134.67	50.813
#3	42480.	1677.6	1.3600	551.99	134.26	49.334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6489	1.2714	276.9	2.4023	94.481	416.91
Stddev	1.4201	1.2593	3.1	1.6372	1.285	.46
%RSD	86.120	99.049	1.103	68.151	1.3605	.11077
#1	.01006	1.2452	274.2	.53971	93.372	417.36
#2	2.5144	.02535	276.2	3.6137	94.182	416.44
#3	2.4224	2.5435	280.2	3.0535	95.890	416.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-014 Acquired: 11/19/2015 14:38:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26896.	4926.9	384500.
Stddev	47.	25.1	6485.
%RSD	.17473	.51018	1.6865
#1	26950.	4927.9	390570.
#2	26869.	4901.3	385270.
#3	26868.	4951.6	377670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.49%	107.72%	103.26%
Range			

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Sample Name: QK13011-015 Acquired: 11/19/2015 14:43:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16744	97385.	28.843	369.91	3.7664	13937.
Stddev	.11347	1400.	.909	6.23	.0108	270.
%RSD	67.767	1.4378	3.1506	1.6850	.28684	1.9397
#1	-.04511	98976.	28.858	376.90	3.7645	14243.
#2	-.18795	96341.	27.927	364.92	3.7780	13729.
#3	-.26924	96838.	29.744	367.91	3.7567	13840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9485	66.782	131.43	126.11	F 153130.	8582.
Stddev	.1673	.182	.60	1.68	2813.	133.
%RSD	17.64	.27198	.45983	1.3347	1.8368	1.548
#1	.9001	66.721	131.62	128.04	156300.	8723.
#2	1.135	66.639	131.91	125.34	150920.	8459.
#3	.8107	66.987	130.75	124.95	152170.	8563.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-015 Acquired: 11/19/2015 14:43:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38380.	1857.2	2.3047	663.23	141.82	363.40
Stddev	667.	7.7	.2367	13.08	.38	1.31
%RSD	1.738	.41343	10.270	1.9730	.26452	.36001
#1	39090.	1863.4	2.0486	671.27	142.15	362.60
#2	37770.	1859.6	2.3503	648.14	141.90	362.69
#3	38290.	1848.6	2.5153	670.30	141.41	364.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4910	3.3258	370.4	2.2317	114.30	474.83
Stddev	2.3301	3.1680	3.7	1.0225	.64	.31
%RSD	93.539	95.257	.9923	45.819	.56255	.06521
#1	-.10007	-.15975	374.6	2.1370	114.69	475.02
#2	4.4142	4.1069	369.0	1.2598	114.66	474.47
#3	3.1589	6.0302	367.7	3.2983	113.56	474.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-015 Acquired: 11/19/2015 14:43:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26808.	5019.2	380790.
Stddev	176.	20.4	1458.
%RSD	.65669	.40645	.38287
#1	26647.	5004.9	379440.
#2	26781.	5042.6	380590.
#3	26996.	5010.2	382330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.15%	109.74%	102.26%
Range			

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Sample Name: QK13011-016 Acquired: 11/19/2015 14:48:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48279	77666.	27.015	268.44	3.3748	15872.	1.043
Stddev	.27752	691.	.449	2.57	.0151	130.	.076
%RSD	57.483	.88957	1.6606	.95699	.44689	.81805	7.293
#1	-.31895	77670.	27.447	268.29	3.3922	15894.	.9550
#2	-.32621	76972.	27.046	265.94	3.3658	15733.	1.091
#3	-.80322	78354.	26.551	271.07	3.3664	15990.	1.082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62.826	112.10	108.51	147070.	7242.	33810.	2178.6
Stddev	.202	.19	.49	1384.	55.	288.	42.5
%RSD	.32218	.16726	.45009	.94081	.7525	.8511	1.9516
#1	62.967	112.26	109.01	147680.	7203.	33880.	2132.8
#2	62.594	112.14	108.47	145490.	7219.	33500.	2186.2
#3	62.916	111.89	108.04	148050.	7304.	34060.	2216.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-016 Acquired: 11/19/2015 14:48:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9249	877.89	141.27	75.717	.80209	2.2019	705.3
Stddev	.2604	27.20	.96	.800	1.4868	1.1028	1.8
%RSD	13.526	3.0981	.67849	1.0560	185.37	50.084	.2529
#1	2.1260	884.31	141.86	76.626	1.4702	1.2586	704.0
#2	2.0179	848.06	140.16	75.402	1.8377	3.4144	704.6
#3	1.6308	901.31	141.78	75.123	-.90157	1.9328	707.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.5042	118.53	418.35
Stddev	.7893	.59	1.49
%RSD	22.524	.50181	.35553
#1	3.9586	118.91	419.21
#2	3.9611	117.85	416.64
#3	2.5928	118.83	419.22
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-016 Acquired: 11/19/2015 14:48:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27173.	4988.5	394260.
Stddev	149.	88.7	996.
%RSD	.54980	1.7771	.25271
#1	27182.	4960.2	394400.
#2	27319.	5087.9	395180.
#3	27020.	4917.5	393200.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.58%	109.06%	105.88%
Range			

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Sample Name: QK13011-017 Acquired: 11/19/2015 14:53:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07888	75133.	64.153	225.81	2.6709	14214.
Stddev	.26428	184.	.688	1.03	.0645	54.
%RSD	335.05	.24438	1.0719	.45425	2.4167	.37911
#1	.25625	74926.	64.359	224.71	2.7436	14152.
#2	-.22486	75274.	63.386	226.00	2.6487	14241.
#3	.20524	75200.	64.715	226.74	2.6204	14249.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.88	63.207	890.14	427.28	F 153810.	6964.
Stddev	.19	.172	19.23	8.79	556.	37.
%RSD	.6297	.27155	2.1607	2.0574	.36131	.5252
#1	29.73	63.081	910.02	436.49	153240.	6974.
#2	29.83	63.138	888.75	426.38	154350.	6995.
#3	30.09	63.403	871.63	418.98	153850.	6924.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-017 Acquired: 11/19/2015 14:53:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41390.	1650.0	1.0191	493.22	137.57	534.41
Stddev	97.	36.2	.1481	6.10	.96	3.57
%RSD	.2346	2.1958	14.533	1.2362	.69893	.66804
#1	41360.	1689.2	1.0437	486.69	136.91	530.97
#2	41320.	1643.1	.86019	498.77	137.12	534.17
#3	41500.	1617.8	1.1533	494.19	138.67	538.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.306	.64684	201.7	2.8806	87.464	3228.5
Stddev	.637	1.2312	4.4	1.8575	1.824	10.6
%RSD	3.4778	190.33	2.201	64.483	2.0855	.32744
#1	17.782	1.3253	206.1	4.6182	89.339	3220.2
#2	19.014	-.77429	201.7	3.1009	87.356	3224.9
#3	18.121	1.3895	197.2	.92282	85.695	3240.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-017 Acquired: 11/19/2015 14:53:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26126.	4771.3	380620.
Stddev	74.	42.1	7108.
%RSD	.28147	.88184	1.8674
#1	26178.	4818.1	372960.
#2	26158.	4736.7	381880.
#3	26042.	4759.1	387010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.47%	104.32%	102.22%
Range			

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Sample Name: QK13011-018 Acquired: 11/19/2015 14:58:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30688	127970.	17.713	278.86	4.0117	11406.
Stddev	.17976	3043.	1.252	6.34	.0493	283.
%RSD	58.576	2.3778	7.0656	2.2733	1.2279	2.4819
#1	-.13523	126510.	17.897	276.36	4.0665	11321.
#2	-.29163	131460.	18.862	286.07	3.9712	11722.
#3	-.49377	125930.	16.379	274.15	3.9974	11176.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.897	109.52	171.91	125.75	F 284670.	7262.
Stddev	.098	.24	1.51	1.20	6815.	199.
%RSD	5.142	.21788	.88114	.95704	2.3941	2.735
#1	1.973	109.44	173.54	127.14	282320.	7090.
#2	1.930	109.78	170.55	124.97	292350.	7479.
#3	1.787	109.32	171.65	125.16	279340.	7216.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-018 Acquired: 11/19/2015 14:58:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54450.	2950.3	1.0907	461.13	207.66	98.741
Stddev	1129.	73.8	.3195	32.81	.63	1.422
%RSD	2.073	2.4999	29.290	7.1155	.30490	1.4399
#1	53940.	3035.3	1.4477	450.10	207.88	100.38
#2	55740.	2903.5	.99255	498.04	208.16	97.991
#3	53670.	2912.1	.83184	435.26	206.95	97.851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6842	1.4350	180.2	4.1792	110.72	779.01
Stddev	1.0297	2.6617	1.8	.3284	1.23	.86
%RSD	61.139	185.48	1.016	7.8577	1.1092	.11033
#1	1.1811	4.3495	182.2	3.8536	112.03	779.43
#2	1.0028	-.86713	178.6	4.1736	109.59	779.58
#3	2.8688	.82269	179.7	4.5103	110.53	778.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-018 Acquired: 11/19/2015 14:58:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26086.	4736.4	377190.
Stddev	28.	88.6	2708.
%RSD	.10877	1.8697	.71788
#1	26107.	4738.6	374060.
#2	26098.	4646.8	378820.
#3	26054.	4823.9	378680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.32%	103.55%	101.30%
Range			

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Sample Name: QK13011-019 Acquired: 11/19/2015 15:02:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65874	119420.	56.052	358.14	4.2014	14767.
Stddev	.36611	1178.	.565	2.71	.0231	88.
%RSD	55.578	.98600	1.0082	.75774	.55046	.59496
#1	-.78789	118080.	55.512	355.03	4.1791	14669.
#2	-.24556	119860.	56.004	359.30	4.1998	14790.
#3	-.94277	120310.	56.639	360.07	4.2253	14840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.753	83.852	583.63	219.72	F 216980.	8714.
Stddev	.094	.239	3.16	.51	1055.	51.
%RSD	1.210	.28503	.54152	.23341	.48638	.5866
#1	7.859	83.586	580.98	219.56	215840.	8655.
#2	7.721	84.048	582.79	219.31	217170.	8738.
#3	7.680	83.921	587.13	220.30	217930.	8748.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-019 Acquired: 11/19/2015 15:02:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57170.	2312.8	2.0088	637.48	187.10	535.18
Stddev	478.	9.9	.2193	13.94	.39	.46
%RSD	.8363	.42993	10.916	2.1865	.20830	.08522
#1	56730.	2304.8	2.1579	653.56	186.66	534.66
#2	57090.	2323.9	1.7570	630.08	187.39	535.49
#3	57680.	2309.8	2.1115	628.80	187.25	535.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.7833	3.9504	281.6	3.1574	128.48	1445.6
Stddev	1.6162	1.4710	1.3	.4116	.48	1.6
%RSD	58.067	37.238	.4573	13.037	.37354	.10913
#1	3.6391	4.8038	281.5	2.9805	127.94	1443.8
#2	3.7916	4.7956	280.4	3.6279	128.68	1446.3
#3	.91917	2.2518	283.0	2.8637	128.83	1446.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-019 Acquired: 11/19/2015 15:02:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26656.	4969.4	390580.
Stddev	114.	55.1	2112.
%RSD	.42781	1.1095	.54063
#1	26525.	5009.0	392830.
#2	26731.	4906.4	390290.
#3	26712.	4992.7	388640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.55%	108.65%	104.89%
Range			

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Sample Name: QK13011-020 Acquired: 11/19/2015 15:07:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43987	68232.	43.551	337.34	3.2243	18827.	10.56
Stddev	.29096	117.	.943	1.84	.0787	116.	.15
%RSD	66.146	.17149	2.1655	.54532	2.4395	.61464	1.436
#1	.62723	68115.	44.637	335.38	3.2073	18704.	10.59
#2	.58771	68232.	43.079	339.02	3.1556	18934.	10.69
#3	.10468	68349.	42.937	337.62	3.3101	18841.	10.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61.083	438.29	531.19	129570.	6420.	31710.	2047.6
Stddev	.124	10.44	12.10	593.	97.	257.	36.4
%RSD	.20379	2.3812	2.2777	.45774	1.505	.8095	1.7799
#1	61.108	435.42	527.11	128920.	6324.	31520.	2048.9
#2	60.948	429.59	521.66	130070.	6517.	32000.	2010.6
#3	61.193	449.86	544.80	129710.	6419.	31620.	2083.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-020 Acquired: 11/19/2015 15:07:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4312	815.04	120.32	807.47	6.7581	4.6183	273.2
Stddev	.4647	5.81	.03	.80	1.8140	1.4583	6.5
%RSD	19.114	.71334	.02167	.09887	26.842	31.576	2.389
#1	1.9744	809.05	120.32	808.20	7.6985	3.2974	271.3
#2	2.9034	820.66	120.35	806.62	7.9089	6.1832	267.8
#3	2.4159	815.42	120.30	807.59	4.6670	4.3744	280.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.4196	92.842	1441.4
Stddev	.5079	1.991	1.5
%RSD	14.854	2.1443	.10094
#1	2.9013	92.410	1443.0
#2	3.4409	91.102	1440.2
#3	3.9165	95.013	1440.9
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-020 Acquired: 11/19/2015 15:07:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26397.	4841.7	378200.
Stddev	113.	99.0	9551.
%RSD	.42754	2.0456	2.5253
#1	26310.	4946.5	380340.
#2	26525.	4749.7	386500.
#3	26357.	4828.7	367760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.54%	105.85%	101.57%
Range			

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Sample Name: QQ89663-002 Acquired: 11/19/2015 15:12:41 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.519	F 244.24	17.643	396.82	10.084	10280.	9.108
Stddev	.286	64.51	.951	3.75	.167	79.	.127
%RSD	1.4650	26.412	5.3904	.94621	1.6542	.76740	1.390
#1	19.243	171.07	17.322	398.77	9.8913	10313.	9.092
#2	19.502	268.70	16.895	399.20	10.183	10336.	8.990
#3	19.814	292.93	18.713	392.49	10.178	10190.	9.242
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		400.00					
Range		-30.500%					

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.655	20.013	49.118	219.11	9862.	9850.	30.898
Stddev	.270	.442	.497	4.83	87.	56.	.468
%RSD	.28788	2.2062	1.0127	2.2032	.8845	.5651	1.5134
#1	93.873	19.510	48.660	215.36	9832.	9865.	30.359
#2	93.353	20.193	49.647	224.56	9961.	9896.	31.143
#3	93.737	20.336	49.047	217.42	9795.	9788.	31.192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89663-002 Acquired: 11/19/2015 15:12:41 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15712	10598.	74.730	18.275	113.10	66.431	.3129
Stddev	.13605	94.	.216	.676	.73	.941	.0810
%RSD	86.588	.88872	.28903	3.7001	.64383	1.4163	25.89
#1	.16718	10660.	74.887	18.897	113.49	66.429	.2719
#2	.01632	10644.	74.484	17.555	112.26	65.491	.4062
#3	.28786	10489.	74.819	18.373	113.56	67.372	.2605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.733	97.657	113.81
Stddev	.828	1.885	.12
%RSD	1.7721	1.9301	.10349
#1	46.308	95.494	113.94
#2	47.687	98.533	113.76
#3	46.203	98.944	113.71
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89663-002 Acquired: 11/19/2015 15:12:41 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25738.	4590.0	374900.
Stddev	56.	8.6	5562.
%RSD	.21574	.18742	1.4835
#1	25725.	4593.6	381190.
#2	25691.	4580.2	372900.
#3	25799.	4596.2	370620.

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Sample Name: QK03007-001(5) Acquired: 11/19/2015 15:17:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00029	25254.	3.5115	118.30	-.54646	9724.6	.3782
Stddev	.23547	358.	.7362	1.46	.01174	106.5	.0628
%RSD	81980.	1.4157	20.966	1.2313	2.1476	1.0951	16.60
#1	.24031	24844.	3.5127	116.70	-.53405	9601.8	.3402
#2	-.01089	25415.	2.7747	118.67	-.54797	9779.6	.4507
#3	-.23028	25502.	4.2472	119.54	-.55737	9792.3	.3438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.943	319.65	37.938	75900.	1143.	102400.	1234.0
Stddev	.357	2.72	.335	822.	18.	1176.	10.5
%RSD	.37990	.84966	.88223	1.0825	1.615	1.149	.85159
#1	93.583	319.93	38.166	74983.	1126.	101100.	1236.0
#2	93.948	316.81	38.095	76569.	1163.	103200.	1222.6
#3	94.297	322.22	37.554	76149.	1141.	103000.	1243.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK03007-001(5) Acquired: 11/19/2015 15:17:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27735	200.42	1741.3	6.3319	2.1626	.00064	1618.
Stddev	.08824	5.07	7.2	1.1995	.6646	.79360	14.
%RSD	31.817	2.5311	.41390	18.944	30.730	124530.	.8814
#1	.20423	197.85	1733.4	6.3750	2.0655	.77073	1622.
#2	.25244	206.26	1743.0	5.1114	2.8704	-.81454	1602.
#3	.37537	197.14	1747.5	7.5092	1.5519	.04572	1630.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.65334	102.69	86.068
Stddev	.38328	.83	.426
%RSD	58.665	.81290	.49541
#1	-.48322	102.49	85.634
#2	-1.0922	101.97	86.084
#3	-.38457	103.61	86.486
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03007-001(5) Acquired: 11/19/2015 15:17:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25396.	4644.6	371010.
Stddev	84.	57.0	3487.
%RSD	.33006	1.2272	.93978
#1	25413.	4694.9	369350.
#2	25305.	4582.7	375010.
#3	25470.	4656.2	368660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.611%	101.55%	99.636%
Range			

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Sample Name: QK13011-001(2) Acquired: 11/19/2015 15:22:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09269	56557.	20.724	149.15	2.0053	11809.	2.462
Stddev	.50092	56.	1.397	.42	.0225	51.	.139
%RSD	540.40	.09824	6.7393	.28196	1.1220	.42894	5.642
#1	-.42746	56580.	20.881	149.03	2.0052	11755.	2.380
#2	.57185	56494.	22.035	149.62	1.9828	11856.	2.623
#3	.13369	56597.	19.255	148.81	2.0278	11815.	2.385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.745	124.91	98.859	117350.	5244.	31680.	1395.6
Stddev	.495	.92	.946	485.	25.	161.	8.9
%RSD	1.1305	.73858	.95693	.41304	.4827	.5094	.63684
#1	44.251	125.54	99.555	117500.	5271.	31700.	1401.2
#2	43.720	123.85	97.782	117740.	5241.	31840.	1385.3
#3	43.263	125.33	99.241	116810.	5220.	31520.	1400.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001(2) Acquired: 11/19/2015 15:22:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.88665	669.51	95.368	98.733	13.470	1.5258	342.7
Stddev	.04577	8.20	.864	1.463	1.582	1.9592	2.5
%RSD	5.1617	1.2243	.90619	1.4816	11.745	128.40	.7185
#1	.91305	678.34	96.070	100.25	15.200	-.21512	343.8
#2	.83380	662.15	95.631	98.629	12.096	1.1452	339.9
#3	.91309	668.04	94.402	97.325	13.116	3.6474	344.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6521	75.818	467.50
Stddev	.7196	.356	5.18
%RSD	27.132	.46929	1.1070
#1	2.2460	76.138	472.49
#2	3.4829	75.435	467.85
#3	2.2274	75.882	462.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001(2) Acquired: 11/19/2015 15:22:14 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26248.	4672.0	373190.
Stddev	356.	35.6	3728.
%RSD	1.3553	.76232	.99882
#1	25865.	4631.8	370240.
#2	26312.	4684.7	377380.
#3	26568.	4699.5	371950.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.95%	102.14%	100.22%
Range			

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Sample Name: QK13011-001L(2) Acquired: 11/19/2015 15:26:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23532	11548.	4.8385	30.908	.38164	2436.9	.5018
Stddev	.28925	30.	.5214	.916	.01918	4.3	.0426
%RSD	122.92	.25952	10.776	2.9639	5.0268	.17792	8.485
#1	-.06259	11550.	5.4392	30.171	.39106	2432.2	.5022
#2	-.56925	11576.	4.5023	31.934	.39430	2437.6	.4590
#3	-.07412	11516.	4.5741	30.619	.35957	2440.8	.5442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.9767	25.005	20.003	24219.	1062.	6528.	282.85
Stddev	.0400	.091	1.313	173.	99.	105.	2.54
%RSD	.44605	.36438	6.5660	.71349	9.349	1.606	.89836
#1	8.9319	24.920	20.051	24020.	1110.	6415.	281.25
#2	9.0089	25.101	21.292	24303.	948.3	6547.	285.78
#3	8.9894	24.994	18.667	24333.	1129.	6622.	281.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001L(2) Acquired: 11/19/2015 15:26:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00087	118.55	19.722	20.974	3.2580	.10880	69.13
Stddev	.13612	42.39	.273	.673	2.7307	1.2994	.68
%RSD	15587.	35.761	1.3854	3.2108	83.814	1194.3	.9895
#1	.01406	88.188	19.450	20.578	1.8134	-.95634	68.62
#2	.12716	100.48	19.996	21.752	1.5531	-.27376	69.90
#3	-.14384	166.99	19.721	20.593	6.4076	1.5565	68.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6133	15.112	95.976
Stddev	.3220	.118	.266
%RSD	19.960	.77952	.27747
#1	1.4061	15.045	96.277
#2	1.4494	15.043	95.882
#3	1.9843	15.248	95.770
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001L(2) Acquired: 11/19/2015 15:26:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26214.	4579.3	382160.
Stddev	14.	31.1	2109.
%RSD	.05154	.67849	.55181
#1	26201.	4605.4	383680.
#2	26228.	4587.5	379750.
#3	26214.	4544.9	383040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.82%	100.12%	102.63%
Range			

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Sample Name: QK13011-001DU(2) Acquired: 11/19/2015 15:31:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45950	52228.	22.810	154.35	2.1411	13192.	2.861
Stddev	.34283	2150.	.839	4.98	.2640	493.	.124
%RSD	74.610	4.1155	3.6762	3.2295	12.332	3.7382	4.342
#1	-.79689	53573.	22.525	157.50	2.4453	13523.	2.731
#2	-.47012	53362.	23.754	156.96	2.0072	13427.	2.979
#3	-.11148	49749.	22.151	148.61	1.9709	12625.	2.871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.631	138.66	113.46	105400.	5211.	26690.	1395.1
Stddev	.245	13.13	10.63	4061.	187.	1106.	133.2
%RSD	.60303	9.4684	9.3699	3.8529	3.587	4.144	9.5455
#1	40.357	153.79	125.72	108180.	5350.	27390.	1548.4
#2	40.829	131.88	107.88	107270.	5285.	27260.	1328.3
#3	40.708	130.31	106.78	100740.	4999.	25410.	1308.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001DU(2) Acquired: 11/19/2015 15:31:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0766	684.60	92.000	165.53	13.951	.59904	386.1
Stddev	.1354	40.80	.136	3.42	1.304	1.6887	37.0
%RSD	12.574	5.9596	.14747	2.0679	9.3493	281.90	9.574
#1	1.0550	724.72	92.056	162.35	14.606	.40916	428.7
#2	.95336	685.92	92.098	165.08	12.449	2.3747	367.2
#3	1.2215	643.15	91.845	169.16	14.799	-.98670	362.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2642	78.002	498.94
Stddev	1.6784	7.208	1.46
%RSD	74.131	9.2411	.29185
#1	1.3923	86.283	497.63
#2	1.2011	74.583	498.69
#3	4.1991	73.139	500.51
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001DU(2) Acquired: 11/19/2015 15:31:47 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26095.	4804.6	362610.
Stddev	136.	186.8	33136.
%RSD	.52076	3.8891	9.1381
#1	25992.	4640.3	324570.
#2	26249.	4765.5	378070.
#3	26043.	5007.9	385190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.35%	105.04%	97.380%
Range			

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Sample Name: QK13011-001MS(2) Acquired: 11/19/2015 15:36:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.281	50313.	57.694	2046.9	52.694	9061.2	47.38
Stddev	.870	228.	.328	1.1	.446	35.3	.25
%RSD	1.8398	.45231	.56878	.05286	.84671	.38903	.5347
#1	46.381	50476.	57.374	2045.8	52.297	9035.8	47.58
#2	48.118	50410.	58.030	2046.9	53.177	9046.3	47.45
#3	47.343	50053.	57.679	2048.0	52.608	9101.4	47.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	494.50	301.94	329.01	94952.	5552.	25970.	1654.4
Stddev	2.18	3.49	2.37	166.	18.	65.	15.2
%RSD	.44062	1.1558	.72020	.17431	.3215	.2519	.92170
#1	496.37	298.17	326.99	95061.	5533.	26020.	1638.7
#2	495.01	305.05	331.62	95033.	5569.	25990.	1669.2
#3	492.11	302.60	328.42	94761.	5553.	25890.	1655.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001MS(2) Acquired: 11/19/2015 15:36:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72745	596.97	531.29	100.74	31.967	89.937	309.7
Stddev	.23241	6.58	1.86	.14	2.040	2.166	2.9
%RSD	31.949	1.1020	.35041	.13728	6.3807	2.4087	.9452
#1	.53551	591.49	532.58	100.82	30.390	92.026	306.8
#2	.66099	604.27	532.13	100.58	34.270	90.084	312.6
#3	.98586	595.16	529.15	100.82	31.240	87.701	309.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.768	538.30	907.68
Stddev	.664	4.42	2.09
%RSD	1.3905	.82138	.23039
#1	47.961	533.71	909.43
#2	48.314	542.54	908.26
#3	47.028	538.66	905.36
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001MS(2) Acquired: 11/19/2015 15:36:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26260.	4728.3	377660.
Stddev	171.	9.7	4618.
%RSD	.65085	.20472	1.2228
#1	26456.	4731.0	382980.
#2	26184.	4717.6	374740.
#3	26140.	4736.4	375250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.00%	103.38%	101.42%
Range			

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Sample Name: QK13011-001A(2) Acquired: 11/19/2015 15:41:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.7715	55719.	29.895	348.33	7.0607	16815.	6.937
Stddev	.1914	251.	1.830	1.43	.0762	19.	.181
%RSD	1.9584	.45068	6.1222	.41175	1.0791	.11315	2.607
#1	9.9281	55730.	31.110	348.39	7.0247	16834.	6.864
#2	9.8280	55965.	27.790	349.73	7.1482	16814.	7.142
#3	9.5582	55463.	30.785	346.87	7.0091	16796.	6.803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88.361	130.05	120.07	115240.	10260.	35670.	1369.1
Stddev	.007	1.60	1.53	186.	36.	62.	13.9
%RSD	.00816	1.2316	1.2704	.16152	.3534	.1728	1.0168
#1	88.354	129.27	118.98	115430.	10240.	35640.	1362.2
#2	88.359	131.89	121.81	115240.	10300.	35630.	1385.1
#3	88.368	128.99	119.42	115060.	10240.	35740.	1360.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001A(2) Acquired: 11/19/2015 15:41:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.65338	6065.0	130.21	104.78	68.628	33.474	332.4
Stddev	.06765	11.0	.37	.85	.335	1.684	3.3
%RSD	10.354	.18147	.28623	.80872	.48879	5.0293	.9809
#1	.58350	6053.4	130.64	105.75	68.338	35.088	331.0
#2	.65809	6066.4	129.96	104.20	68.995	33.607	336.1
#3	.71856	6075.3	130.04	104.38	68.550	31.729	330.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	23.786	122.23	513.34
Stddev	.666	1.25	1.26
%RSD	2.8016	1.0188	.24641
#1	23.086	121.48	514.79
#2	24.412	123.67	512.46
#3	23.861	121.55	512.77
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001A(2) Acquired: 11/19/2015 15:41:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26096.	4729.8	378620.
Stddev	24.	30.4	3505.
%RSD	.09139	.64361	.92584
#1	26106.	4764.5	381700.
#2	26113.	4717.7	374800.
#3	26068.	4707.3	379360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.35%	103.41%	101.68%
Range			

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Sample Name: QK13011-002(2) Acquired: 11/19/2015 15:46:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.46266	50548.	17.958	136.83	2.0384	9242.4	.5613
Stddev	.35410	278.	.435	.33	.0168	39.1	.0376
%RSD	76.536	.55089	2.4203	.24328	.82357	.42255	6.703
#1	-.14886	50310.	18.074	136.79	2.0190	9275.3	.5273
#2	-.39255	50854.	18.324	137.18	2.0492	9252.7	.6018
#3	-.84657	50481.	17.478	136.52	2.0469	9199.3	.5550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.832	74.359	58.297	107210.	6489.	24900.	1382.4
Stddev	.063	.806	1.099	182.	15.	135.	11.5
%RSD	.15093	1.0841	1.8847	.16931	.2275	.5411	.83482
#1	41.827	73.837	57.028	107420.	6475.	24750.	1369.7
#2	41.772	75.287	58.932	107100.	6504.	24960.	1392.3
#3	41.898	73.951	58.931	107110.	6486.	25000.	1385.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-002(2) Acquired: 11/19/2015 15:46:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.99966	1407.7	90.748	42.984	1.8721	1.8407	565.2
Stddev	.15028	8.3	.482	.322	1.1862	1.4935	4.4
%RSD	15.033	.58725	.53112	.74895	63.362	81.140	.7755
#1	.83737	1411.0	91.142	43.336	2.2291	.11754	560.4
#2	1.1340	1398.3	90.211	42.912	.54843	2.7634	568.9
#3	1.0276	1413.8	90.890	42.704	2.8389	2.6412	566.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1625	78.265	269.67
Stddev	.9978	.958	.23
%RSD	46.143	1.2238	.08462
#1	2.9361	77.213	269.91
#2	1.0362	79.085	269.47
#3	2.5152	78.499	269.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-002(2) Acquired: 11/19/2015 15:46:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26439.	4758.0	380860.
Stddev	54.	33.3	2592.
%RSD	.20522	.69964	.68063
#1	26495.	4796.4	380950.
#2	26437.	4740.3	378220.
#3	26386.	4737.3	383400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.70%	104.03%	102.28%
Range			

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Sample Name: QK13011-003(2) Acquired: 11/19/2015 15:50:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.57991	59138.	15.401	141.99	1.8822	7680.5	.8405
Stddev	.13267	161.	.993	.75	.0141	15.2	.0659
%RSD	22.877	.27263	6.4463	.53162	.75190	.19774	7.837
#1	-.59237	59249.	15.105	141.35	1.8742	7696.4	.8416
#2	-.44145	58953.	14.589	142.83	1.8738	7666.2	.7741
#3	-.70591	59212.	16.507	141.80	1.8985	7678.7	.9058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.142	78.880	65.497	113050.	6363.	27670.	1224.7
Stddev	.146	.387	.731	251.	85.	126.	7.3
%RSD	.36269	.49031	1.1156	.22197	1.341	.4535	.59577
#1	40.033	78.453	64.897	113000.	6269.	27580.	1219.7
#2	40.085	78.980	65.282	112820.	6435.	27610.	1221.4
#3	40.307	79.207	66.311	113320.	6385.	27810.	1233.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-003(2) Acquired: 11/19/2015 15:50:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.87660	818.07	96.107	44.190	2.3911	.39175	409.2
Stddev	.29910	4.17	.206	1.388	1.7942	.97666	2.8
%RSD	34.121	.50988	.21383	3.1411	75.035	249.31	.6728
#1	.55520	814.26	96.267	45.464	1.4393	.44631	408.0
#2	.92781	822.53	95.876	42.711	1.2733	1.3400	407.3
#3	1.1468	817.44	96.180	44.396	4.4606	-.61104	412.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1281	74.862	319.82
Stddev	.4338	.669	.26
%RSD	20.386	.89371	.07990
#1	2.6245	74.295	319.78
#2	1.9385	74.692	319.59
#3	1.8214	75.600	320.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-003(2) Acquired: 11/19/2015 15:50:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26183.	4677.0	383600.
Stddev	79.	63.2	1426.
%RSD	.30203	1.3510	.37178
#1	26273.	4649.9	385010.
#2	26150.	4632.0	382150.
#3	26126.	4749.3	383650.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.70%	102.26%	103.02%
Range			

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Sample Name: CCV003 Acquired: 11/19/2015 15:55:35 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	749.00	48915.	2512.4	10008.	1023.4	50605.	994.1
Stddev	15.59	192.	4.4	66.	23.4	286.	1.2
%RSD	2.0811	.39213	.17442	.65706	2.2901	.56598	.1250
#1	738.86	49136.	2513.4	10083.	1018.0	50928.	995.0
#2	741.20	48808.	2507.6	9964.0	1003.1	50382.	992.7
#3	766.95	48800.	2516.2	9975.6	1049.0	50505.	994.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4850.9	9929.3	12110.	24931.	37570.	49140.	4987.7
Stddev	6.6	212.3	201.	132.	249.	161.	150.5
%RSD	.13679	2.1385	1.6565	.53031	.6625	.3272	3.0170
#1	4857.2	9793.8	11936.	25082.	37840.	49310.	4991.4
#2	4843.9	9820.0	12065.	24835.	37360.	48990.	4835.4
#3	4851.4	10174.	12330.	24876.	37500.	49120.	5136.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV003 Acquired: 11/19/2015 15:55:35 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	989.79	26276.	4813.5	9442.6	2483.8	1255.4	998.8
Stddev	.97	207.	7.0	7.0	9.1	2.2	22.8
%RSD	.09837	.78862	.14597	.07382	.36559	.17445	2.282
#1	990.67	26515.	4820.3	9450.4	2494.1	1257.8	983.9
#2	988.74	26167.	4806.2	9440.4	2480.2	1253.5	987.4
#3	989.94	26146.	4814.0	9437.0	2477.0	1254.8	1025.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.85	2503.1	4941.9
Stddev	2.91	57.2	7.4
%RSD	.31114	2.2856	.14903
#1	935.42	2464.9	4950.2
#2	930.50	2475.4	4939.2
#3	935.64	2568.8	4936.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV003 Acquired: 11/19/2015 15:55:35 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24102.	4482.6	364880.
Stddev	50.	40.6	6814.
%RSD	.20838	.90505	1.8674
#1	24106.	4445.7	367780.
#2	24050.	4475.9	369770.
#3	24150.	4526.0	357100.

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Sample Name: CCB003 Acquired: 11/19/2015 16:00:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17817	-152.25	-.61868	.20289	-.02421	-18.220	.0380
Stddev	.36445	87.49	1.2329	.36613	.02054	5.763	.0701
%RSD	204.55	57.468	199.28	180.46	84.859	31.631	184.7
#1	.20245	-249.74	-.81478	-.21604	-.03526	-24.239	.1120
#2	-.52394	-126.44	-1.7418	.36315	-.03686	-17.668	-.0275
#3	-.21304	-80.558	.70054	.46155	-.00051	-12.752	.0294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01128	-.24272	.65831	-9.8405	134.5	30.65	.05487
Stddev	.11408	.15152	.05735	14.197	49.5	59.64	.00618
%RSD	1011.4	62.426	8.7116	144.27	36.79	194.6	11.259
#1	.09776	-.38582	.66499	5.8481	84.94	95.56	.06189
#2	-.11801	-.25835	.59791	-21.801	134.5	-21.74	.05241
#3	.05409	-.08399	.71202	-13.568	183.9	18.14	.05030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB003 Acquired: 11/19/2015 16:00:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1179	26.964	.09313	.49421	.33692	.26546	-.0271
Stddev	.2184	4.340	.25687	.59138	1.2159	1.8672	.0638
%RSD	19.539	16.094	275.80	119.66	360.90	703.38	235.7
#1	1.2241	22.200	-.00909	1.0844	-.11338	1.4952	-.0900
#2	1.2629	30.692	-.09688	-.09833	1.7138	1.1843	-.0288
#3	.86666	28.000	.38537	.49653	-.58964	-1.8831	.0376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.69745	.27235	-.16782
Stddev	.12162	.11010	.06122
%RSD	17.437	40.427	36.482
#1	.55906	.21942	-.22847
#2	.78729	.19870	-.16894
#3	.74600	.39891	-.10604
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB003 Acquired: 11/19/2015 16:00:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26067.	4524.6	376920.
Stddev	20.	21.2	10874.
%RSD	.07774	.46912	2.8850
#1	26057.	4532.5	385860.
#2	26055.	4500.5	380090.
#3	26091.	4540.7	364820.

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Sample Name: QK13011-004(2) Acquired: 11/19/2015 16:05:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51014	52548.	17.343	204.01	2.2919	10024.	.6105
Stddev	.17180	399.	.997	.70	.0769	39.	.0288
%RSD	33.677	.75947	5.7492	.34379	3.3538	.38439	4.711
#1	-.64544	52401.	16.418	203.57	2.3167	10008.	.5898
#2	-.56813	52999.	17.212	204.82	2.2057	10068.	.6434
#3	-.31685	52242.	18.399	203.64	2.3533	9996.4	.5984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.780	75.068	60.915	91064.	6671.	19900.	1417.8
Stddev	.142	1.784	1.429	417.	140.	54.	37.2
%RSD	.34846	2.3761	2.3455	.45830	2.096	.2702	2.6246
#1	40.694	75.737	61.846	90807.	6563.	19930.	1430.4
#2	40.702	73.047	59.270	91545.	6829.	19840.	1375.9
#3	40.944	76.421	61.628	90839.	6621.	19930.	1447.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-004(2) Acquired: 11/19/2015 16:05:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7470	637.02	87.901	45.789	1.7155	2.8566	501.7
Stddev	.2079	10.01	.352	.886	1.0064	.7693	13.0
%RSD	11.900	1.5712	.40102	1.9344	58.663	26.929	2.589
#1	1.9780	636.21	87.727	45.020	.59317	2.6691	506.1
#2	1.6882	627.44	88.306	45.590	2.0159	2.1985	487.1
#3	1.5749	647.41	87.668	46.758	2.5376	3.7023	512.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6723	80.868	266.41
Stddev	.3858	2.147	.52
%RSD	14.438	2.6547	.19405
#1	2.3952	81.688	265.88
#2	2.5086	78.432	266.91
#3	3.1130	82.484	266.46
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-004(2) Acquired: 11/19/2015 16:05:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26629.	4775.9	390460.
Stddev	34.	55.3	10969.
%RSD	.12673	1.1570	2.8091
#1	26634.	4722.5	386610.
#2	26593.	4772.4	402840.
#3	26659.	4832.9	381940.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.45%	104.42%	104.86%
Range			

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Sample Name: QK13011-005(2) Acquired: 11/19/2015 16:10:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32217	57255.	18.616	197.40	2.4498	8981.5	.7003
Stddev	.06951	2137.	.587	7.23	.1088	335.2	.0759
%RSD	21.574	3.7315	3.1542	3.6620	4.4423	3.7323	10.84
#1	-.25206	56630.	18.777	194.69	2.3383	8884.1	.7860
#2	-.32340	55500.	19.106	191.91	2.5558	8705.7	.6417
#3	-.39106	59634.	17.965	205.59	2.4553	9354.6	.6732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.774	79.723	63.349	102790.	7236.	21920.	1335.0
Stddev	.190	3.514	2.158	3901.	209.	843.	53.4
%RSD	.43454	4.4080	3.4065	3.7953	2.888	3.845	3.9991
#1	43.983	76.035	61.163	101830.	7154.	21690.	1281.3
#2	43.730	83.033	65.478	99449.	7081.	21220.	1388.1
#3	43.610	80.099	63.406	107070.	7474.	22860.	1335.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-005(2) Acquired: 11/19/2015 16:10:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4835	687.35	93.898	42.232	2.7687	1.9973	528.9
Stddev	.0772	50.01	.202	1.621	3.7529	.5967	21.3
%RSD	5.2052	7.2756	.21507	3.8395	135.55	29.876	4.021
#1	1.4232	679.00	94.092	43.407	5.6118	2.1242	507.4
#2	1.4567	642.04	93.689	42.907	4.1796	1.3473	549.9
#3	1.5705	741.00	93.913	40.382	-1.4851	2.5203	529.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0277	86.499	271.52
Stddev	.1339	3.574	1.15
%RSD	6.6009	4.1317	.42237
#1	2.1280	82.795	272.72
#2	1.8757	89.927	271.40
#3	2.0794	86.774	270.44
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-005(2) Acquired: 11/19/2015 16:10:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27105.	4928.0	396640.
Stddev	46.	119.6	14486.
%RSD	.16942	2.4276	3.6521
#1	27067.	4970.4	411260.
#2	27091.	5020.7	382290.
#3	27156.	4793.0	396380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.31%	107.74%	106.52%
Range			

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Sample Name: QK13011-006(2) Acquired: 11/19/2015 16:15:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33302	57124.	17.572	211.12	2.4763	10413.	.8286
Stddev	.24820	461.	1.380	1.06	.0856	56.	.1422
%RSD	74.530	.80690	7.8530	.50038	3.4567	.53433	17.16
#1	-.06470	57095.	16.331	210.02	2.5378	10390.	.9926
#2	-.55439	57599.	17.327	212.13	2.5127	10477.	.7525
#3	-.37998	56678.	19.058	211.20	2.3786	10373.	.7406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.806	82.328	64.350	102710.	7612.	21210.	1432.1
Stddev	.982	2.263	1.931	430.	80.	207.	42.4
%RSD	2.3484	2.7482	3.0002	.41885	1.052	.9757	2.9590
#1	42.743	84.063	66.265	102620.	7519.	21070.	1466.4
#2	40.785	83.153	64.381	103180.	7661.	21440.	1445.1
#3	41.891	79.769	62.404	102340.	7655.	21100.	1384.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-006(2) Acquired: 11/19/2015 16:15:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2164	674.83	89.116	42.429	1.1479	2.6686	627.3
Stddev	.0923	8.70	2.357	1.474	.8545	1.9104	18.7
%RSD	7.5870	1.2886	2.6448	3.4753	74.437	71.589	2.987
#1	1.2863	672.08	91.480	43.864	2.0282	3.0174	642.3
#2	1.1118	684.57	86.767	40.918	.32185	.60778	633.2
#3	1.2511	667.84	89.101	42.505	1.0936	4.3805	606.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0478	88.948	270.75
Stddev	1.1383	2.641	6.86
%RSD	108.63	2.9693	2.5335
#1	.07626	91.300	277.70
#2	2.3002	89.454	263.98
#3	.76707	86.091	270.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-006(2) Acquired: 11/19/2015 16:15:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26831.	4781.3	381500.
Stddev	599.	45.5	11299.
%RSD	2.2315	.95132	2.9617
#1	26232.	4832.5	374670.
#2	27429.	4765.9	375290.
#3	26832.	4745.5	394550.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.24%	104.54%	102.46%
Range			

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Sample Name: QK13011-007(2) Acquired: 11/19/2015 16:19:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15997	63259.	20.461	293.44	2.7368	11119.	.4932
Stddev	.07781	123.	.755	1.20	.0267	54.	.1287
%RSD	48.644	.19448	3.6909	.41050	.97515	.48459	26.11
#1	-.17529	63142.	19.590	292.33	2.7402	11057.	.6268
#2	-.07563	63248.	20.858	293.27	2.7086	11147.	.4828
#3	-.22898	63387.	20.935	294.72	2.7616	11153.	.3700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.932	78.997	81.414	90513.	7353.	20400.	1457.4
Stddev	.545	.987	1.104	529.	41.	124.	16.3
%RSD	1.3659	1.2498	1.3559	.58433	.5589	.6068	1.1149
#1	40.551	78.832	81.111	89990.	7320.	20290.	1454.9
#2	39.722	78.103	80.493	90503.	7340.	20390.	1442.6
#3	39.523	80.057	82.637	91047.	7399.	20530.	1474.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-007(2) Acquired: 11/19/2015 16:19:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0047	593.42	88.297	169.08	2.5336	2.3869	388.9
Stddev	.0692	22.34	.763	1.86	.8912	.1966	4.6
%RSD	3.4531	3.7640	.86448	1.0983	35.175	8.2353	1.177
#1	2.0214	579.59	89.098	169.71	3.2799	2.2840	388.4
#2	1.9286	581.48	88.216	170.54	2.7740	2.6136	384.6
#3	2.0640	619.19	87.578	166.99	1.5468	2.2632	393.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5530	89.086	287.36
Stddev	.1525	1.135	3.13
%RSD	9.8224	1.2740	1.0905
#1	1.6903	88.869	290.38
#2	1.5798	88.075	287.58
#3	1.3888	90.314	284.12
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-007(2) Acquired: 11/19/2015 16:19:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26449.	4717.9	380060.
Stddev	163.	19.8	5632.
%RSD	.61657	.41881	1.4818
#1	26393.	4718.0	380760.
#2	26321.	4737.6	385300.
#3	26632.	4698.1	374100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.74%	103.15%	102.07%
Range			

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Sample Name: QK13011-008(2) Acquired: 11/19/2015 16:24:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04947	48784.	17.470	188.05	2.1346	10027.	.8504
Stddev	.11267	1185.	1.520	5.12	.0825	250.	.0274
%RSD	227.75	2.4291	8.7006	2.7207	3.8667	2.4968	3.218
#1	.08711	49510.	19.144	190.79	2.0576	10199.	.8326
#2	-.07720	49425.	16.175	191.22	2.1244	10142.	.8819
#3	.13850	47416.	17.091	182.15	2.2217	9739.8	.8367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.346	74.724	59.687	112810.	6235.	18790.	1165.4
Stddev	.113	1.900	2.019	2873.	136.	577.	35.4
%RSD	.30210	2.5426	3.3835	2.5469	2.187	3.069	3.0383
#1	37.395	73.058	57.939	114630.	6257.	19170.	1133.8
#2	37.427	74.321	59.223	114310.	6359.	19070.	1158.7
#3	37.217	76.793	61.898	109500.	6089.	18120.	1203.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-008(2) Acquired: 11/19/2015 16:24:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3121	710.69	80.363	45.247	2.2217	2.3136	516.1
Stddev	.0747	17.29	.233	1.167	.6325	1.1767	15.6
%RSD	5.6941	2.4328	.28991	2.5802	28.469	50.859	3.014
#1	1.2282	730.62	80.457	45.829	2.5761	1.9408	502.3
#2	1.3715	699.70	80.534	43.903	2.5975	1.3685	513.1
#3	1.3366	701.76	80.098	46.009	1.4915	3.6316	532.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5694	77.036	268.87
Stddev	.2919	2.372	.69
%RSD	18.603	3.0790	.25842
#1	1.8628	75.034	269.51
#2	1.5664	76.418	268.96
#3	1.2789	79.656	268.13
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-008(2) Acquired: 11/19/2015 16:24:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26793.	4817.1	387000.
Stddev	121.	76.7	11540.
%RSD	.45313	1.5922	2.9820
#1	26680.	4735.3	396550.
#2	26777.	4828.6	390260.
#3	26921.	4887.4	374170.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.09%	105.32%	103.93%
Range			

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Sample Name: QK13011-009(2) Acquired: 11/19/2015 16:29:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.61359	57468.	15.923	242.67	2.5127	10624.	.8465
Stddev	.08842	155.	1.070	.71	.0338	46.	.2532
%RSD	14.410	.26976	6.7173	.29459	1.3471	.43324	29.92
#1	-.56083	57304.	16.534	243.01	2.4884	10655.	.8666
#2	-.71567	57486.	16.547	241.85	2.4983	10571.	.5838
#3	-.56427	57613.	14.688	243.16	2.5513	10646.	1.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.802	78.998	68.252	92703.	7292.	20360.	1355.2
Stddev	.192	1.047	.841	218.	46.	193.	19.3
%RSD	.48119	1.3255	1.2319	.23487	.6358	.9473	1.4205
#1	39.632	78.630	68.230	92700.	7239.	20500.	1355.7
#2	39.764	78.184	67.423	92922.	7310.	20440.	1335.7
#3	40.009	80.179	69.104	92487.	7326.	20140.	1374.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-009(2) Acquired: 11/19/2015 16:29:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4108	686.57	88.353	52.791	1.8592	2.2803	461.2
Stddev	.0580	9.77	.066	.920	1.5909	1.5165	7.3
%RSD	4.1078	1.4228	.07500	1.7426	85.570	66.505	1.584
#1	1.4740	675.73	88.368	53.529	.14287	1.0075	461.0
#2	1.3982	689.28	88.411	51.760	3.2845	3.9582	454.0
#3	1.3602	694.70	88.281	53.083	2.1502	1.8751	468.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0698	85.630	293.49
Stddev	1.2705	1.042	.32
%RSD	118.76	1.2170	.10749
#1	1.8461	85.784	293.14
#2	1.7597	84.519	293.58
#3	-.39638	86.587	293.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-009(2) Acquired: 11/19/2015 16:29:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26978.	4852.8	389220.
Stddev	20.	48.7	4079.
%RSD	.07540	1.0039	1.0480
#1	26995.	4868.8	390070.
#2	26985.	4891.6	392810.
#3	26956.	4798.2	384790.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.82%	106.10%	104.53%
Range			

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Sample Name: QK13011-011(2) Acquired: 11/19/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36589	50319.	22.201	196.48	1.8470	7135.1	.8698
Stddev	.10512	520.	.662	1.62	.0561	48.2	.1821
%RSD	28.730	1.0333	2.9807	.82267	3.0392	.67619	20.93
#1	-.48696	49767.	21.591	194.65	1.8935	7080.2	.9997
#2	-.31292	50389.	22.904	197.12	1.8628	7171.0	.6617
#3	-.29779	50800.	22.108	197.68	1.7846	7154.0	.9480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.827	138.79	84.437	80372.	4329.	19950.	947.65
Stddev	.128	3.42	2.509	485.	92.	32.	24.38
%RSD	.36848	2.4659	2.9718	.60379	2.130	.1591	2.5725
#1	34.787	141.87	86.091	79839.	4237.	19910.	969.01
#2	34.971	139.39	85.670	80788.	4330.	19960.	952.85
#3	34.724	135.11	81.550	80488.	4421.	19970.	921.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-011(2) Acquired: 11/19/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2263	386.61	72.663	139.60	1.3196	.60583	204.8
Stddev	.2904	32.53	.240	1.05	2.8536	1.6504	5.2
%RSD	23.681	8.4147	.33039	.74863	216.25	272.41	2.528
#1	.90682	349.05	72.939	139.76	-.58380	-1.2442	209.8
#2	1.2979	405.50	72.502	140.55	4.6006	1.1349	205.2
#3	1.4742	405.29	72.549	138.48	-.05807	1.9268	199.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5421	57.901	286.12
Stddev	.6183	1.521	1.07
%RSD	40.094	2.6262	.37549
#1	1.1062	59.245	287.18
#2	1.2703	58.207	285.03
#3	2.2497	56.251	286.15
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-011(2) Acquired: 11/19/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26358.	4726.9	381600.
Stddev	159.	93.5	10569.
%RSD	.60484	1.9775	2.7697
#1	26347.	4825.4	371840.
#2	26523.	4716.1	380140.
#3	26204.	4639.4	392820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.38%	103.35%	102.48%
Range			

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Sample Name: QK13011-012(2) Acquired: 11/19/2015 16:38:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10174	48829.	77.628	188.38	1.7540	10268.	39.33
Stddev	.09415	463.	.221	1.45	.1002	87.	.47
%RSD	92.542	.94790	.28428	.76787	5.7138	.84243	1.196
#1	-.10556	48395.	77.703	187.17	1.8691	10187.	38.81
#2	-.00574	48774.	77.380	187.99	1.6858	10258.	39.43
#3	-.19392	49316.	77.802	189.98	1.7072	10359.	39.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.691	1822.7	386.51	93605.	3566.	23650.	966.47
Stddev	.572	86.5	17.22	957.	102.	218.	44.39
%RSD	1.2521	4.7462	4.4561	1.0221	2.857	.9210	4.5931
#1	45.315	1921.8	406.14	92819.	3452.	23540.	1017.3
#2	45.409	1762.6	373.91	93326.	3649.	23510.	935.19
#3	46.350	1783.6	379.49	94670.	3597.	23910.	946.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-012(2) Acquired: 11/19/2015 16:38:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2670	370.06	91.395	745.19	56.557	2.8475	177.3
Stddev	.1641	21.80	.941	7.74	2.003	1.1993	8.4
%RSD	12.953	5.8917	1.0300	1.0388	3.5414	42.119	4.724
#1	1.3630	345.38	90.338	736.71	54.888	1.5676	186.9
#2	1.3605	386.73	91.707	747.00	56.006	3.9455	171.7
#3	1.0775	378.05	92.141	751.87	58.778	3.0294	173.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.4905	58.152	3478.0
Stddev	.2556	2.809	29.8
%RSD	10.265	4.8312	.85717
#1	2.5906	61.377	3446.1
#2	2.2000	56.231	3482.5
#3	2.6810	56.849	3505.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-012(2) Acquired: 11/19/2015 16:38:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25872.	4676.2	404490.
Stddev	17.	28.3	20245.
%RSD	.06744	.60558	5.0051
#1	25892.	4677.8	381370.
#2	25859.	4647.1	419020.
#3	25866.	4703.7	413090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.48%	102.24%	108.63%
Range			

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Sample Name: QK13011-013(2) Acquired: 11/19/2015 16:43:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41486	52177.	38.845	240.39	2.0687	8916.0	1.465
Stddev	.14419	157.	.492	.65	.0170	33.4	.021
%RSD	34.757	.30155	1.2656	.26926	.81930	.37510	1.440
#1	-.46634	52022.	38.913	239.90	2.0729	8884.1	1.486
#2	-.25199	52171.	39.299	240.15	2.0500	8913.0	1.464
#3	-.52625	52337.	38.323	241.13	2.0832	8950.8	1.444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.316	402.06	200.62	78042.	4840.	19270.	1008.0
Stddev	.145	3.85	2.37	367.	23.	46.	9.4
%RSD	.40019	.95835	1.1819	.46969	.4849	.2394	.92793
#1	36.163	402.33	199.77	78053.	4837.	19320.	1007.7
#2	36.452	398.07	198.79	77670.	4817.	19230.	998.79
#3	36.334	405.76	203.30	78403.	4864.	19270.	1017.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-013(2) Acquired: 11/19/2015 16:43:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5675	398.91	77.008	523.52	2.4756	2.4821	213.5
Stddev	.1474	22.63	.185	1.21	1.5209	.9061	2.3
%RSD	9.4043	5.6726	.23980	.23084	61.434	36.506	1.055
#1	1.5663	422.65	77.156	524.82	2.2970	3.0684	214.6
#2	1.4207	396.48	77.068	523.29	1.0519	2.9396	210.9
#3	1.7155	377.59	76.801	522.44	4.0779	1.4385	215.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5993	64.899	350.28
Stddev	.8305	.881	.17
%RSD	51.924	1.3581	.04852
#1	1.4053	64.789	350.45
#2	.88312	64.078	350.29
#3	2.5096	65.830	350.11
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-013(2) Acquired: 11/19/2015 16:43:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26595.	4642.7	384010.
Stddev	74.	47.3	4240.
%RSD	.27852	1.0187	1.1042
#1	26600.	4628.5	382460.
#2	26519.	4604.0	388800.
#3	26667.	4695.4	380760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.31%	101.50%	103.13%
Range			

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Sample Name: QK13011-014(2) Acquired: 11/19/2015 16:48:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12515	44028.	8.8910	115.54	1.4527	5124.3	.4858
Stddev	.24043	1894.	.4791	4.94	.0587	227.4	.0235
%RSD	192.12	4.3014	5.3886	4.2768	4.0380	4.4374	4.842
#1	-.09974	46212.	8.5503	121.17	1.4617	5381.9	.4787
#2	-.37727	42844.	9.4388	111.95	1.5064	4951.5	.5120
#3	.10157	43027.	8.6839	113.49	1.3901	5039.5	.4666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.201	51.700	35.797	83082.	3578.	21440.	860.95
Stddev	.067	1.571	1.100	3456.	183.	767.	29.36
%RSD	.20042	3.0394	3.0718	4.1601	5.107	3.575	3.4106
#1	33.272	51.462	35.513	87008.	3784.	22330.	855.61
#2	33.140	53.377	37.011	80500.	3436.	20960.	892.62
#3	33.193	50.261	34.868	81737.	3515.	21050.	834.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-014(2) Acquired: 11/19/2015 16:48:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.83495	249.65	69.653	26.376	1.8407	.42122	142.7
Stddev	.28895	43.16	.674	.774	2.3503	.97233	5.4
%RSD	34.607	17.286	.96708	2.9358	127.68	230.84	3.763
#1	1.1382	293.75	69.989	25.756	3.5354	1.1411	142.1
#2	.56276	247.70	68.877	27.244	-.84237	-.68489	148.4
#3	.80394	207.50	70.092	26.129	2.8292	.80747	137.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7885	49.738	219.07
Stddev	.1675	1.430	.95
%RSD	9.3672	2.8755	.43488
#1	1.9671	49.293	219.28
#2	1.7635	51.338	218.03
#3	1.6348	48.583	219.89
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-014(2) Acquired: 11/19/2015 16:48:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26113.	4749.2	372930.
Stddev	168.	189.8	13776.
%RSD	.64193	3.9954	3.6940
#1	25938.	4537.9	370490.
#2	26273.	4905.1	360540.
#3	26129.	4804.6	387770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.42%	103.83%	100.15%
Range			

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Sample Name: QK13011-015(2) Acquired: 11/19/2015 16:53:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18987	50451.	15.042	199.35	1.8192	7449.7	.5533
Stddev	.24854	948.	.958	4.45	.0201	190.4	.1116
%RSD	130.90	1.8794	6.3683	2.2338	1.1033	2.5556	20.16
#1	-.19725	49414.	16.112	195.31	1.8091	7276.2	.6753
#2	-.43463	51274.	14.265	204.13	1.8424	7653.4	.5282
#3	.06228	50664.	14.748	198.61	1.8062	7419.4	.4564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.901	66.600	61.626	82535.	4550.	20620.	939.79
Stddev	.034	.431	.457	1774.	111.	389.	7.83
%RSD	.09778	.64753	.74110	2.1488	2.434	1.884	.83333
#1	34.903	66.770	61.515	80857.	4473.	20290.	938.57
#2	34.934	66.920	62.129	84391.	4677.	21050.	948.16
#3	34.866	66.110	61.236	82356.	4500.	20530.	932.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-015(2) Acquired: 11/19/2015 16:53:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4017	343.01	74.296	192.51	1.4612	1.5058	184.1
Stddev	.0435	27.81	.274	2.06	2.2987	1.5917	1.8
%RSD	3.0997	8.1060	.36910	1.0716	157.32	105.71	.9784
#1	1.4512	354.60	74.001	191.81	3.5102	3.1303	184.9
#2	1.3698	363.15	74.344	190.89	-1.0246	1.4379	185.4
#3	1.3841	311.29	74.543	194.83	1.8979	-.05093	182.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.46215	57.197	249.33
Stddev	.77224	.511	1.56
%RSD	167.10	.89331	.62748
#1	-.22638	56.803	247.79
#2	1.2971	57.774	249.26
#3	.31570	57.014	250.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-015(2) Acquired: 11/19/2015 16:53:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26159.	4535.9	386850.
Stddev	118.	100.9	3978.
%RSD	.44945	2.2240	1.0283
#1	26292.	4601.5	385800.
#2	26070.	4419.8	383500.
#3	26114.	4586.5	391250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.60%	99.170%	103.89%
Range			

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Sample Name: QK13011-017(2) Acquired: 11/19/2015 16:57:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11197	37571.	31.690	114.29	1.3064	7107.3	15.10
Stddev	.43828	613.	.312	2.33	.0583	139.8	.17
%RSD	391.42	1.6319	.98545	2.0422	4.4607	1.9664	1.133
#1	.16788	37311.	31.858	112.99	1.3735	7058.0	15.30
#2	.11328	37131.	31.882	112.90	1.2686	6998.9	15.03
#3	-.61707	38271.	31.330	116.99	1.2772	7265.1	14.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.207	442.71	212.93	77272.	3514.	20830.	831.32
Stddev	.195	15.90	7.12	1366.	30.	356.	27.64
%RSD	.60625	3.5917	3.3426	1.7683	.8552	1.708	3.3245
#1	32.404	461.07	221.14	76738.	3493.	20710.	863.23
#2	32.203	433.97	209.19	76254.	3502.	20540.	815.55
#3	32.014	433.11	208.47	78825.	3549.	21220.	815.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-017(2) Acquired: 11/19/2015 16:57:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.68737	250.41	69.866	276.05	10.103	1.2092	100.3
Stddev	.08847	46.02	.696	2.14	1.922	1.8374	4.1
%RSD	12.871	18.377	.99656	.77681	19.019	151.95	4.098
#1	.78887	266.90	70.666	278.52	11.115	3.2936	105.0
#2	.64660	285.90	69.399	274.69	11.308	-.17616	97.82
#3	.62663	198.42	69.533	274.94	7.8873	.51024	98.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6768	43.722	1645.8
Stddev	1.1319	1.361	12.4
%RSD	67.500	3.1120	.75633
#1	2.8793	45.293	1660.0
#2	1.5192	42.942	1637.1
#3	.63205	42.931	1640.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-017(2) Acquired: 11/19/2015 16:57:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25871.	4566.6	382100.
Stddev	226.	106.4	11596.
%RSD	.87313	2.3306	3.0348
#1	25610.	4660.5	368780.
#2	26008.	4588.4	387600.
#3	25995.	4451.0	389930.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.47%	99.841%	102.62%
Range			

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Sample Name: QK13011-018(5) Acquired: 11/19/2015 17:02:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22226	25620.	4.2763	55.551	.79739	2274.6	.4011
Stddev	.33020	124.	1.2904	.644	.00857	19.0	.1409
%RSD	148.57	.48363	30.175	1.1596	1.0747	.83621	35.12
#1	-.37337	25547.	2.9341	55.434	.79011	2281.1	.5567
#2	-.44987	25550.	5.5076	54.974	.79522	2253.2	.3642
#3	.15646	25763.	4.3873	56.246	.80683	2289.5	.2823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.547	35.553	26.497	57673.	1428.	11100.	616.98
Stddev	.138	.257	.931	542.	33.	131.	3.08
%RSD	.58547	.72409	3.5122	.93933	2.317	1.181	.49940
#1	23.389	35.335	25.434	57405.	1449.	11080.	613.51
#2	23.607	35.837	27.168	57317.	1390.	10980.	618.02
#3	23.645	35.488	26.888	58296.	1445.	11240.	619.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-018(5) Acquired: 11/19/2015 17:02:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30163	83.877	43.203	23.076	.11512	-1.0531	37.46
Stddev	.09257	26.215	.275	1.329	1.6878	1.9123	.17
%RSD	30.688	31.254	.63662	5.7569	1466.2	181.59	.4611
#1	.25269	82.997	42.939	21.549	-1.1383	-1.1011	37.62
#2	.24381	58.112	43.182	23.709	-.55060	-2.9410	37.28
#3	.40840	110.52	43.488	23.969	2.0343	.88277	37.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4359	22.886	166.27
Stddev	.8114	.128	.29
%RSD	56.510	.55925	.17687
#1	.55795	23.010	165.94
#2	1.5914	22.895	166.40
#3	2.1583	22.755	166.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-018(5) Acquired: 11/19/2015 17:02:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25656.	4530.7	375850.
Stddev	40.	43.3	963.
%RSD	.15753	.95537	.25610
#1	25702.	4482.7	375700.
#2	25627.	4566.8	376870.
#3	25639.	4542.7	374970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.63%	99.056%	100.94%
Range			

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Sample Name: QK13011-019(2) Acquired: 11/19/2015 17:07:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71098	62546.	28.985	197.07	2.1167	8014.8	4.102
Stddev	.46792	2232.	1.622	6.58	.0530	246.5	.093
%RSD	65.814	3.5680	5.5970	3.3394	2.5060	3.0759	2.272
#1	-1.1441	65108.	27.259	204.66	2.1057	8299.3	4.093
#2	-.77413	61505.	30.478	193.01	2.0699	7881.8	4.200
#3	-.21469	61025.	29.217	193.53	2.1743	7863.4	4.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.064	305.18	111.55	118210.	4653.	31060.	1218.7
Stddev	.349	6.30	2.87	3899.	114.	978.	24.8
%RSD	.79186	2.0645	2.5696	3.2986	2.454	3.149	2.0333
#1	44.097	305.11	111.26	122690.	4783.	32180.	1216.7
#2	44.396	298.92	108.84	116340.	4604.	30640.	1194.9
#3	43.700	311.52	114.55	115590.	4571.	30360.	1244.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-019(2) Acquired: 11/19/2015 17:07:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2114	333.62	98.924	285.04	3.0138	1.9235	145.5
Stddev	.2419	15.49	.750	1.59	2.0312	1.7710	3.9
%RSD	19.966	4.6421	.75859	.55673	67.398	92.069	2.657
#1	1.1583	320.94	99.283	285.39	3.5390	1.2558	145.1
#2	1.4754	329.03	99.427	286.42	4.7308	3.9313	141.8
#3	1.0005	350.88	98.061	283.30	.77153	.58347	149.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6260	66.067	762.44
Stddev	1.0217	1.301	5.02
%RSD	38.908	1.9688	.65892
#1	2.2093	66.200	764.65
#2	1.8785	64.705	765.97
#3	3.7903	67.296	756.69
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-019(2) Acquired: 11/19/2015 17:07:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25923.	4572.7	386350.
Stddev	136.	160.3	7649.
%RSD	.52432	3.5052	1.9797
#1	25829.	4393.2	385840.
#2	25862.	4623.6	394250.
#3	26079.	4701.4	378980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.68%	99.974%	103.76%
Range			

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Sample Name: CCV004 Acquired: 11/19/2015 17:12:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	771.71	49152.	2510.7	10219.	1072.4	51260.	990.9
Stddev	10.91	1379.	14.0	280.	10.1	1386.	5.4
%RSD	1.4141	2.8050	.55881	2.7392	.94271	2.7041	.5432
#1	771.55	47560.	2526.9	9895.3	1076.8	49660.	997.0
#2	760.88	49963.	2502.4	10378.	1060.9	52076.	988.7
#3	782.71	49932.	2502.8	10382.	1079.7	52044.	986.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4833.2	10254.	12668.	25100.	38150.	49350.	5152.4
Stddev	27.9	153.	121.	759.	1033.	1371.	43.9
%RSD	.57674	1.4889	.95537	3.0236	2.708	2.779	.85216
#1	4865.4	10244.	12676.	24233.	36960.	47780.	5145.5
#2	4817.8	10106.	12543.	25644.	38770.	50320.	5199.4
#3	4816.5	10411.	12784.	25423.	38720.	49940.	5112.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV004 Acquired: 11/19/2015 17:12:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	989.40	26771.	4818.9	9430.0	2472.7	1249.8	1033.
Stddev	4.91	755.	28.1	49.2	16.0	10.0	16.
%RSD	.49658	2.8202	.58359	.52133	.64649	.79711	1.537
#1	995.07	25899.	4851.2	9486.0	2491.1	1261.2	1032.
#2	986.86	27196.	4805.8	9410.2	2464.9	1245.6	1018.
#3	986.29	27218.	4799.8	9393.8	2462.2	1242.6	1050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	927.85	2585.8	4934.1
Stddev	5.79	38.3	25.8
%RSD	.62440	1.4811	.52329
#1	934.18	2582.8	4963.7
#2	926.56	2549.0	4922.5
#3	922.81	2625.4	4916.2
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV004 Acquired: 11/19/2015 17:12:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24145.	4511.4	353160.
Stddev	15.	74.9	4083.
%RSD	.06154	1.6612	1.1562
#1	24143.	4595.2	354890.
#2	24132.	4488.3	356100.
#3	24161.	4450.8	348500.

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Sample Name: CCB004 Acquired: 11/19/2015 17:17:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04374	-65.179	-.06967	.63406	.00745	-22.259	.2065
Stddev	.29230	74.996	.47650	.18579	.01606	6.089	.0646
%RSD	668.25	115.06	683.93	29.302	215.53	27.357	31.28
#1	.24851	-141.50	-.32150	.43534	.02355	-20.915	.1433
#2	-.29101	8.419	-.36741	.80344	.00738	-16.954	.2038
#3	.17372	-62.457	.47990	.66340	-.00857	-28.908	.2724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03849	-.08378	.46443	4.1350	37.03	21.05	.10667
Stddev	.12335	.12623	.43548	15.015	50.09	58.29	.01822
%RSD	320.45	150.67	93.768	363.13	135.3	276.8	17.083
#1	-.08343	-.21907	.86518	21.458	77.47	82.44	.08667
#2	.03569	.03083	.00101	-3.9051	-19.00	-33.54	.12233
#3	.16322	-.06309	.52709	-5.1482	52.63	14.26	.11102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB004 Acquired: 11/19/2015 17:17:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5406	-3.8286	.30966	-.28482	-.13712	.39174	.1067
Stddev	.2713	21.925	.12913	1.2629	2.2879	1.0148	.1255
%RSD	17.607	572.66	41.700	443.41	1668.5	259.04	117.5
#1	1.8498	17.829	.33841	.38348	1.3777	-.69202	.2508
#2	1.4293	-3.3033	.42200	-1.7415	.97992	.54781	.0480
#3	1.3427	-26.012	.16858	.50352	-2.7690	1.3194	.0215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9502	.28893	.07157
Stddev	.3968	.21690	.08959
%RSD	20.348	75.069	125.17
#1	2.1875	.51357	-.02299
#2	1.4921	.08070	.08252
#3	2.1711	.27253	.15519
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB004 Acquired: 11/19/2015 17:17:23 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25642.	4521.7	375940.
Stddev	233.	125.5	9083.
%RSD	.90872	2.7764	2.4160
#1	25910.	4403.0	365930.
#2	25485.	4509.0	378210.
#3	25532.	4653.1	383660.

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Sample Name: QQ89825-001 Acquired: 11/19/2015 17:22:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44671	-149.93	.41674	.89620	.00584	38.047	-.0555
Stddev	.20469	30.16	1.4876	.58096	.00875	5.838	.1442
%RSD	45.820	20.118	356.97	64.826	149.69	15.344	259.6
#1	-.55074	-154.57	-1.0336	.75344	.01593	32.884	.0057
#2	-.21091	-177.50	.34472	1.5352	.00034	44.382	-.2203
#3	-.57849	-117.71	1.9391	.39992	.00126	36.875	.0479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00652	.13442	.62924	20.365	60.30	27.92	.35784
Stddev	.02635	.09563	.37139	12.887	80.43	32.93	.03846
%RSD	404.34	71.146	59.021	63.277	133.4	117.9	10.748
#1	-.03537	.06791	.61948	6.2924	-19.14	40.03	.39608
#2	-.00047	.24402	1.0054	23.215	141.7	53.09	.31916
#3	.01628	.09133	.26283	31.589	58.35	-9.348	.35829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89825-001 Acquired: 11/19/2015 17:22:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.54415	21.391	.35346	.90939	1.6187	.35974	.3939
Stddev	.21050	13.856	.11264	.53270	.3139	.36649	.2644
%RSD	38.684	64.777	31.869	58.578	19.390	101.88	67.12
#1	.64548	5.9847	.30230	1.0125	1.9796	-.00093	.6616
#2	.30215	32.834	.48261	.33267	1.4099	.73179	.3869
#3	.68482	25.355	.27548	1.3830	1.4665	.34836	.1331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.90512	.14010	1.0118
Stddev	.16942	.06735	.0796
%RSD	18.718	48.070	7.8670
#1	.76781	.12916	1.0347
#2	.85309	.21225	.92333
#3	1.0944	.07889	1.0776
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89825-001 Acquired: 11/19/2015 17:22:13 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26306.	4740.9	388850.
Stddev	125.	256.5	12031.
%RSD	.47493	5.4101	3.0941
#1	26180.	5036.3	376040.
#2	26307.	4574.8	390610.
#3	26430.	4611.7	399910.

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Sample Name: QQ89825-002 Acquired: 11/19/2015 17:27:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.490	F 268.06	18.588	388.33	10.119	9947.7	9.132
Stddev	.230	22.44	.523	24.17	.170	609.6	.076
%RSD	1.1804	8.3711	2.8136	6.2237	1.6759	6.1277	.8337
#1	19.639	273.63	19.177	402.70	9.9550	10321.	9.195
#2	19.225	287.20	18.178	401.87	10.108	10278.	9.152
#3	19.606	243.36	18.408	360.43	10.294	9244.3	9.047
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		400.00					
Range		-30.500%					

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.944	19.604	49.793	211.37	9785.	9551.	30.705
Stddev	.647	.502	1.535	21.11	674.	579.	.513
%RSD	.69602	2.5611	3.0830	9.9874	6.887	6.059	1.6710
#1	93.589	19.211	48.368	225.65	10210.	9942.	30.224
#2	92.950	19.431	49.591	221.34	10130.	9825.	30.646
#3	92.295	20.170	51.419	187.12	9008.	8887.	31.245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89825-002 Acquired: 11/19/2015 17:27:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25481	10401.	74.188	17.519	112.42	66.103	.2009
Stddev	.17589	616.	.583	.528	1.09	2.753	.1188
%RSD	69.028	5.9261	.78540	3.0159	.96733	4.1646	59.13
#1	.37473	10762.	74.397	17.603	113.66	67.709	.3136
#2	.05289	10751.	74.637	18.000	112.02	67.675	.2123
#3	.33682	9689.4	73.529	16.953	111.60	62.924	.0768
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.909	96.629	113.70
Stddev	.999	1.772	1.21
%RSD	2.1295	1.8341	1.0632
#1	47.995	94.984	114.66
#2	46.703	96.397	114.11
#3	46.029	98.506	112.35
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89825-002 Acquired: 11/19/2015 17:27:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25806.	4694.4	379120.
Stddev	193.	280.9	6877.
%RSD	.74793	5.9838	1.8138
#1	25709.	4502.4	386020.
#2	25681.	4563.9	379080.
#3	26028.	5016.8	372270.

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Sample Name: QK13012-002 Acquired: 11/19/2015 17:31:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38834	82356.	18.509	203.45	2.8879	9954.3
Stddev	.16773	190.	.531	.16	.0378	5.6
%RSD	43.191	.23051	2.8695	.07887	1.3102	.05647
#1	-.55344	82536.	17.946	203.26	2.8650	9956.5
#2	-.39349	82375.	18.578	203.56	2.9316	9947.9
#3	-.21810	82157.	19.002	203.52	2.8672	9958.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3178	45.890	103.67	111.18	F 171670.	5660.
Stddev	.1045	.867	.52	1.19	334.	124.
%RSD	32.87	1.8883	.50058	1.0713	.19463	2.192
#1	.2005	46.026	103.39	110.85	172010.	5803.
#2	.3520	44.963	104.27	112.50	171660.	5578.
#3	.4009	46.680	103.36	110.19	171340.	5599.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13012-002 Acquired: 11/19/2015 17:31:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42150.	1402.4	1.9168	413.66	138.29	58.353
Stddev	129.	10.5	.2637	7.46	2.29	3.236
%RSD	.3058	.74844	13.760	1.8039	1.6541	5.5462
#1	42300.	1398.9	1.7638	411.98	139.31	59.530
#2	42080.	1414.2	2.2213	407.19	135.67	54.693
#3	42070.	1394.1	1.7653	421.82	139.90	60.836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6648	.99107	149.9	3.7660	90.934	396.45
Stddev	.3248	1.3708	2.6	1.2353	.797	6.58
%RSD	19.508	138.32	1.732	32.802	.87600	1.6592
#1	1.9532	.41938	149.3	4.9585	90.698	398.51
#2	1.7283	2.5552	152.7	2.4919	91.822	389.09
#3	1.3130	-.00136	147.6	3.8476	90.283	401.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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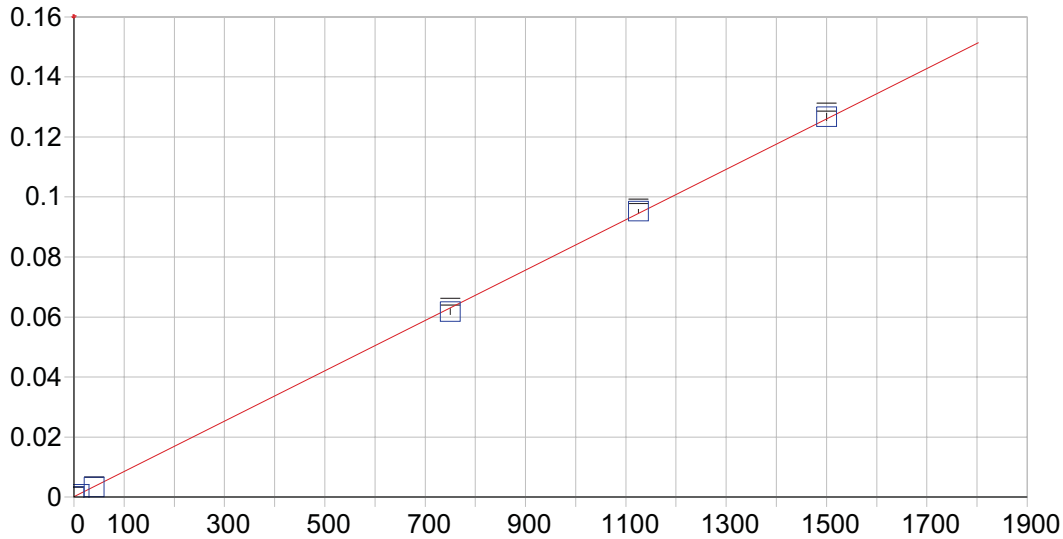
Sample Name: QK13012-002 Acquired: 11/19/2015 17:31:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26620.	4723.8	386110.
Stddev	303.	58.3	2068.
%RSD	1.1364	1.2338	.53550
#1	26445.	4659.8	384370.
#2	26970.	4737.9	385560.
#3	26446.	4773.8	388400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.41%	103.28%	103.69%
Range			

PDF created with pdfFactory trial version www.pdffactory.com



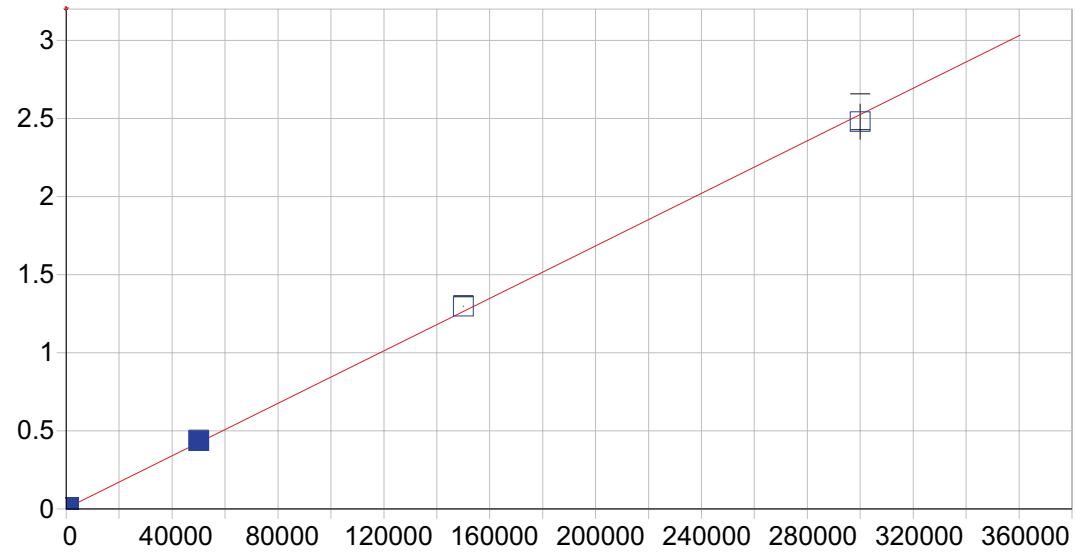
Ag 328.068 {103}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000058	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.469955		
Predicted MQL:	1.566518		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00056	.001	.000	.00006	.000	1
S01 ISM-520	10.000	9.8941	-.106	-1.06	.00089	.000	1
S02 ISM-521	40.000	38.475	-1.52	-3.81	.00329	.000	1
S03 ISM-538	750.00	735.03	-15.0	-2.00	.06178	.001	1
S04 ISM-523	1125.0	1133.8	8.79	.781	.09527	.001	1
S05 ISM-524	1500.0	1507.8	7.81	.521	.12668	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



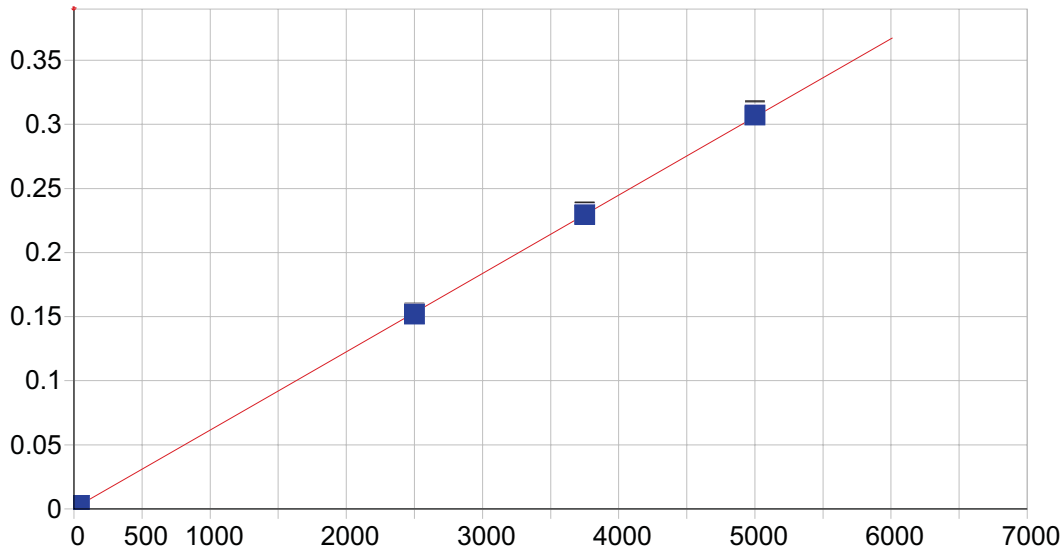
Al 308.215 {109}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003641	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999756	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	56.092629		
Predicted MQL:	186.975432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.01604	-.016	.000	.00364	.000	1
S01 ISM-520	200.00	203.28	3.28	1.64	.00537	.000	1
S02 ISM-521	800.00	821.71	21.7	2.71	.01063	.000	1
S03 ISM-538	50000.	51409.	1410.	2.82	.43662	.003	1
S06 ISM-463	150000.	153990.	3990.	2.66	1.2975	.003	1
S07 ISM-464	300000.	294580.	-5420.	-1.81	2.4788	.115	1

PDF created with pdfFactory trial version www.pdffactory.com



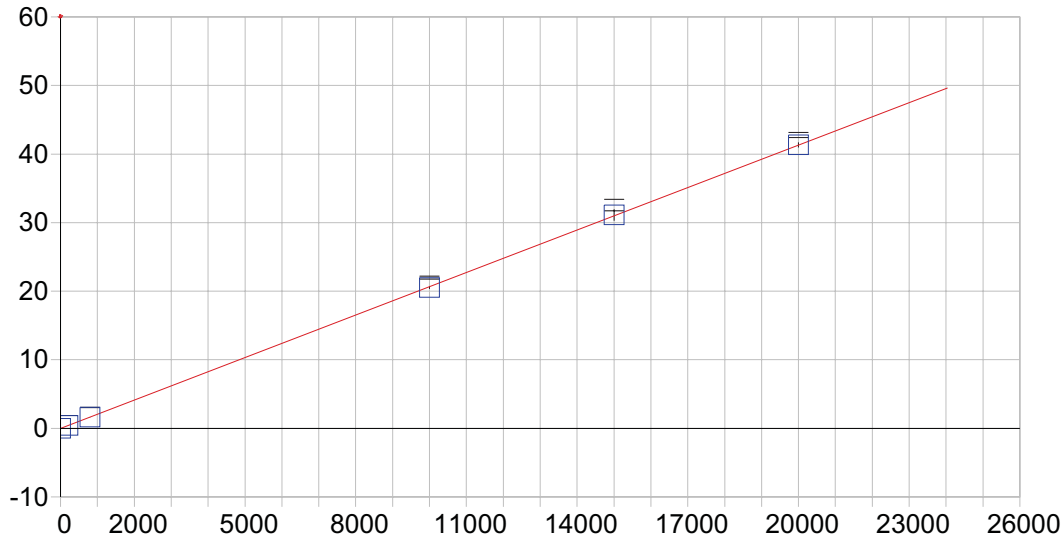
As 189.042 {478}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000395	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	1.202903		
Predicted MQL:	4.009675		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00048	-.000	.000	.00040	.000	1
S01 ISM-520	10.000	10.722	.722	7.22	.00105	.000	1
S02 ISM-521	40.000	39.180	-.820	-2.05	.00279	.000	1
S03 ISM-538	2500.0	2479.3	-20.7	-.827	.15227	.001	1
S04 ISM-523	3750.0	3750.7	.677	.018	.23011	.002	1
S05 ISM-524	5000.0	5020.1	20.1	.402	.30786	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



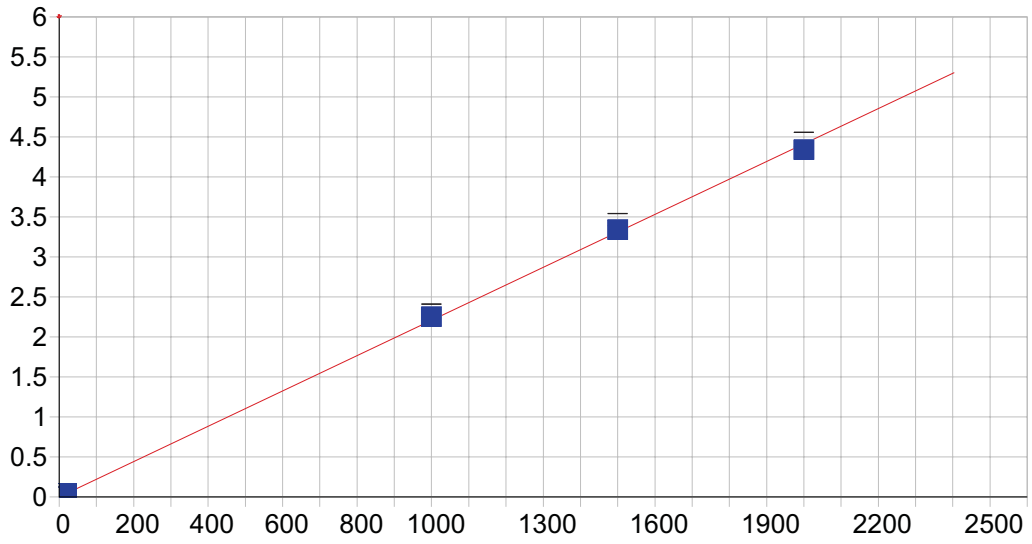
Ba 455.403 { 74}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004525	Re-Slope:	1.000000
A1 (Gain):	0.002066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.001138		
Predicted MDL:	0.581795		
Predicted MQL:	1.939315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00239	.002	.000	-.00452	.001	1
S01 ISM-520	200.00	202.00	2.00	1.00	.41278	.002	1
S02 ISM-521	800.00	783.37	-16.6	-2.08	1.6138	.026	1
S03 ISM-538	10000.	9940.2	-59.8	-.598	20.530	.205	1
S04 ISM-523	15000.	15065.	65.4	.436	31.118	.838	1
S05 ISM-524	20000.	20009.	8.97	.045	41.331	.367	1

PDF created with pdfFactory trial version www.pdffactory.com



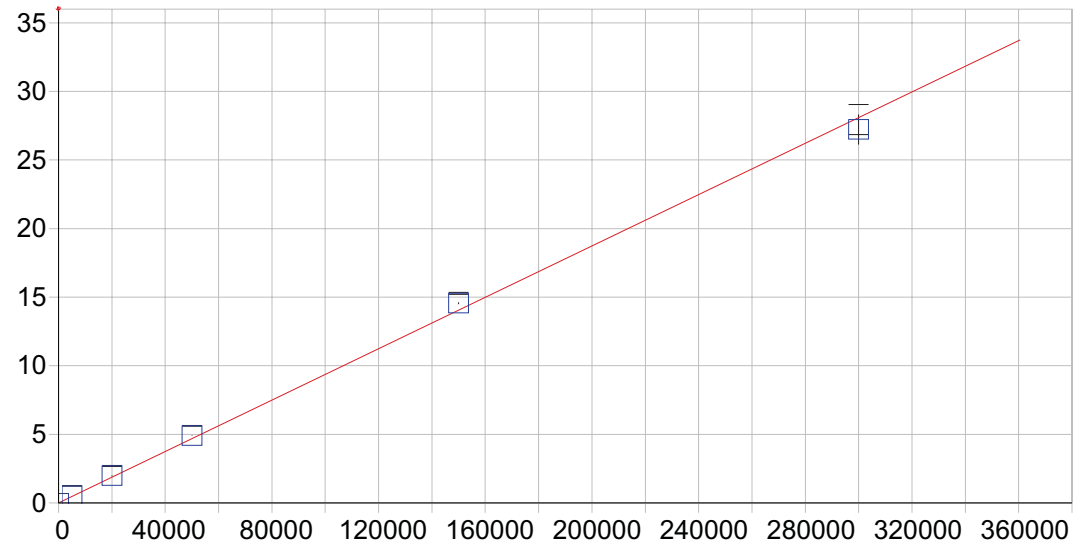
Be 313.042 {108}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000790	Re-Slope:	1.000000
A1 (Gain):	0.002207	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999880	Status:	OK.
Std Error of Est:	0.000200		
Predicted MDL:	0.015182		
Predicted MQL:	0.050608		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00027	-.000	.000	.00079	.000	1
S01 ISM-520	5.0000	5.1856	.186	3.71	.01228	.000	1
S02 ISM-521	20.000	20.084	.084	.422	.04529	.001	1
S03 ISM-538	1000.0	1019.9	19.9	1.99	2.2535	.035	1
S04 ISM-523	1500.0	1513.6	13.6	.904	3.3440	.077	1
S05 ISM-524	2000.0	1966.3	-33.7	-1.68	4.3442	.092	1

PDF created with pdfFactory trial version www.pdffactory.com



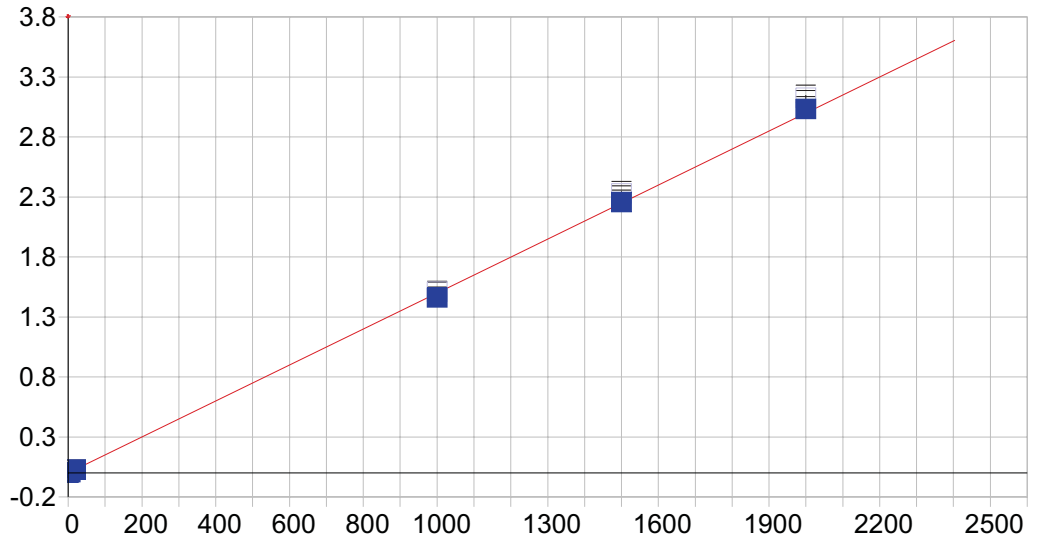
Ca 317.933 {106}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007010	Re-Slope:	1.000000
A1 (Gain):	0.000094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999344	Status:	OK.
Std Error of Est:	0.006728		
Predicted MDL:	6.029209		
Predicted MQL:	20.097364		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.97529	-.975	.000	.00692	.000	1
S01 ISM-520	5000.0	5455.0	455.	9.10	.51773	.000	1
S02 ISM-521	20000.	21036.	1040.	5.18	1.9765	.037	1
S03 ISM-538	50000.	52345.	2340.	4.69	4.9078	.026	1
S06 ISM-463	150000.	155440.	5440.	3.63	14.560	.061	1
S07 ISM-464	300000.	290720.	-9280.	-3.09	27.226	1.10	1

PDF created with pdfFactory trial version www.pdffactory.com



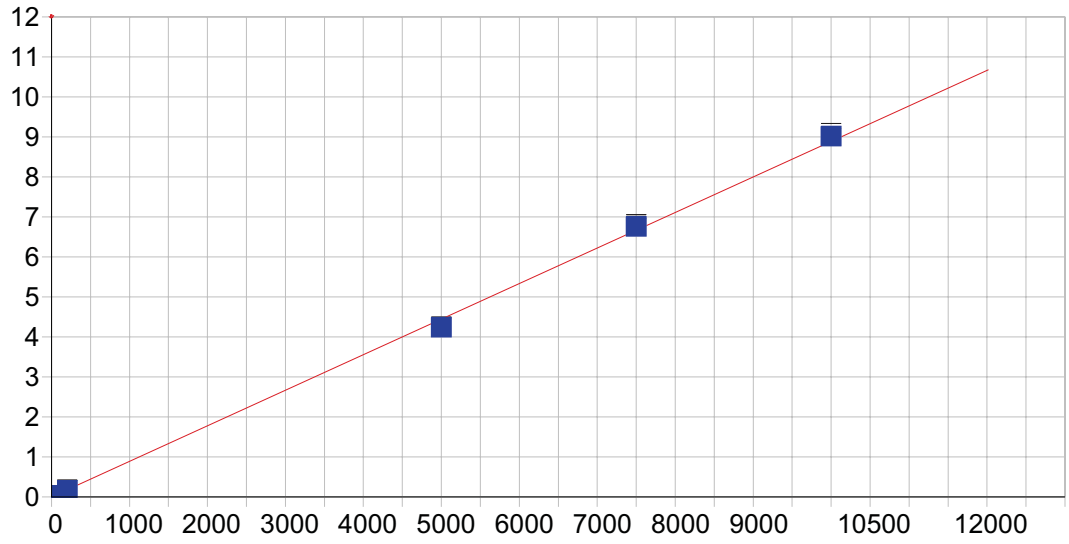
Cd 228.802 {447}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000563	Re-Slope:	1.000000
A1 (Gain):	0.001500	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999894	Status:	OK.
Std Error of Est:	0.000131		
Predicted MDL:	0.179192		
Predicted MQL:	0.597305		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00076	.001	.000	-.00056	.000	1
S01 ISM-520	5.0000	4.7242	-.276	-5.52	.00671	.000	1
S02 ISM-521	20.000	18.280	-1.72	-8.60	.02761	.000	1
S03 ISM-538	1000.0	975.30	-24.7	-2.47	1.5097	.004	1
S04 ISM-523	1500.0	1505.1	5.11	.341	2.3278	.018	1
S05 ISM-524	2000.0	2021.6	21.6	1.08	3.1261	.023	1

PDF created with pdfFactory trial version www.pdffactory.com



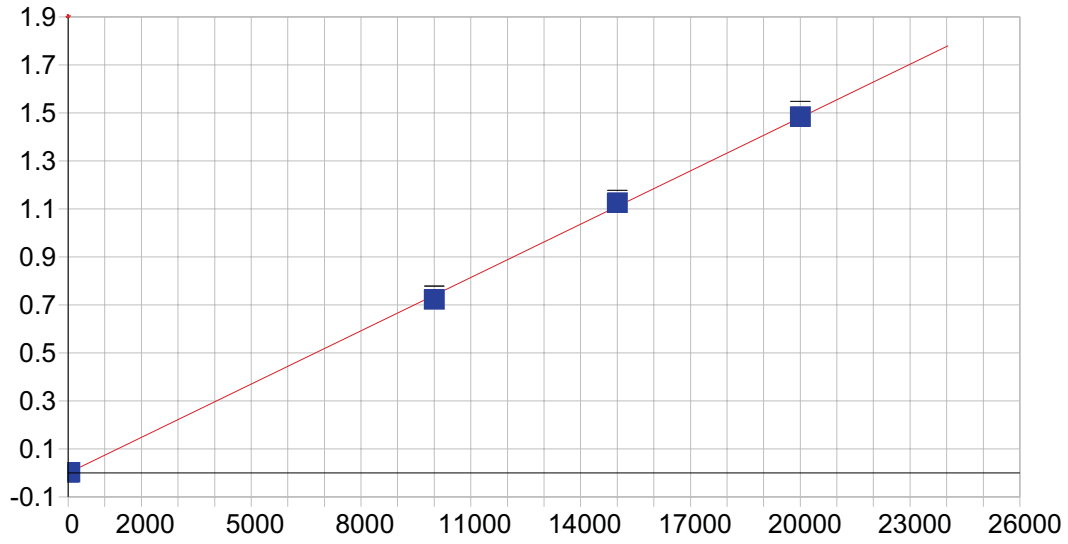
Co 228.616 {447}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000488	Re-Slope:	1.000000
A1 (Gain):	0.000889	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999662	Status:	OK.
Std Error of Est:	0.000954		
Predicted MDL:	0.176692		
Predicted MQL:	0.588972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00520	.005	.000	.00049	.000	1
S01 ISM-520	50.000	49.137	-.863	-1.73	.04426	.000	1
S02 ISM-521	200.00	186.37	-13.6	-6.81	.16632	.001	1
S03 ISM-538	5000.0	4766.4	-234.	-4.67	4.2385	.012	1
S04 ISM-523	7500.0	7601.3	101.	1.35	6.7590	.050	1
S05 ISM-524	10000.	10147.	147.	1.47	9.0222	.067	1

PDF created with pdfFactory trial version www.pdffactory.com



Cr 267.716 {126}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000074	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.347373		
Predicted MQL:	1.157911		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00028	-.000	.000	-.00005	.000	1
S01 ISM-520	10.000	10.451	.451	4.51	.00073	.000	1
S02 ISM-521	40.000	39.660	-.340	-.850	.00289	.000	1
S03 ISM-538	10000.	9762.5	-238.	-2.38	.72281	.015	1
S04 ISM-523	15000.	15197.	197.	1.32	1.1252	.011	1
S05 ISM-524	20000.	20040.	40.0	.200	1.4838	.023	1

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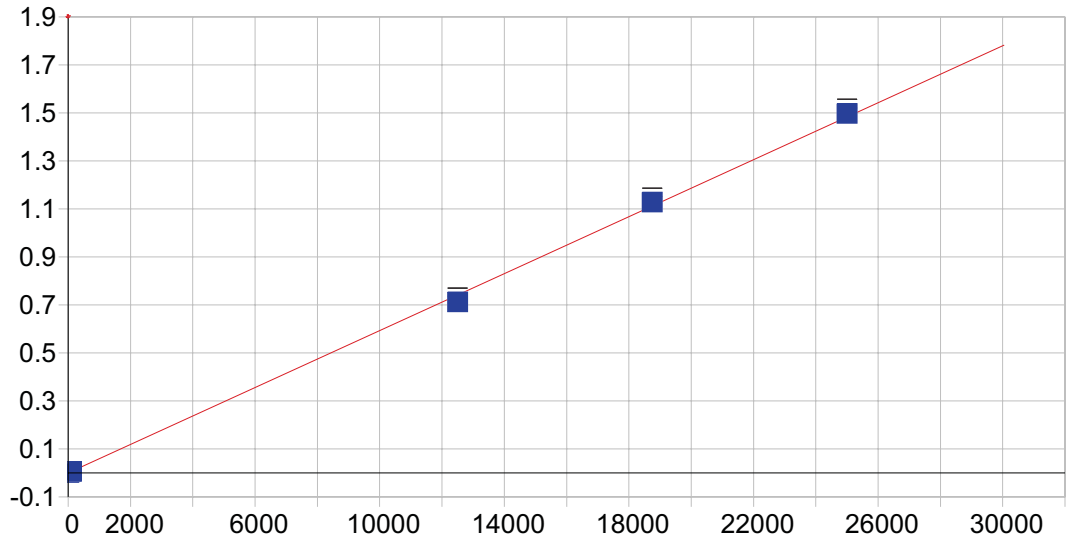

Cu 327.396 {103}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000119	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999768	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	0.724191		
Predicted MQL:	2.413968		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00137	.001	.000	-.00012	.000	1
S01 ISM-520	25.000	25.591	.591	2.36	.00141	.000	1
S02 ISM-521	100.00	93.791	-6.21	-6.21	.00549	.000	1
S03 ISM-538	12500.	12002.	-498.	-3.99	.71196	.017	1
S04 ISM-523	18750.	19007.	257.	1.37	1.1275	.018	1
S05 ISM-524	25000.	25246.	246.	.986	1.4976	.018	1

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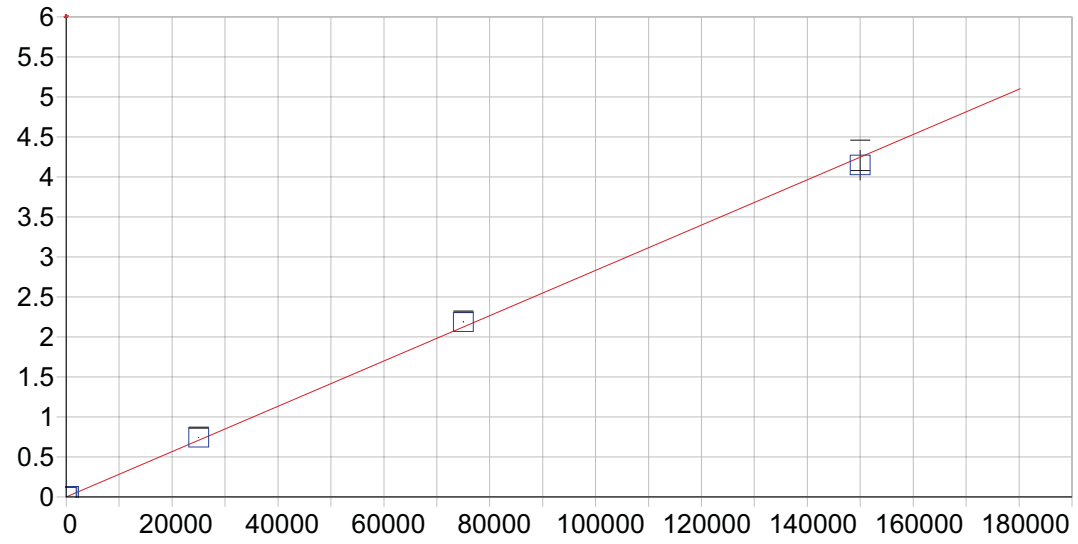


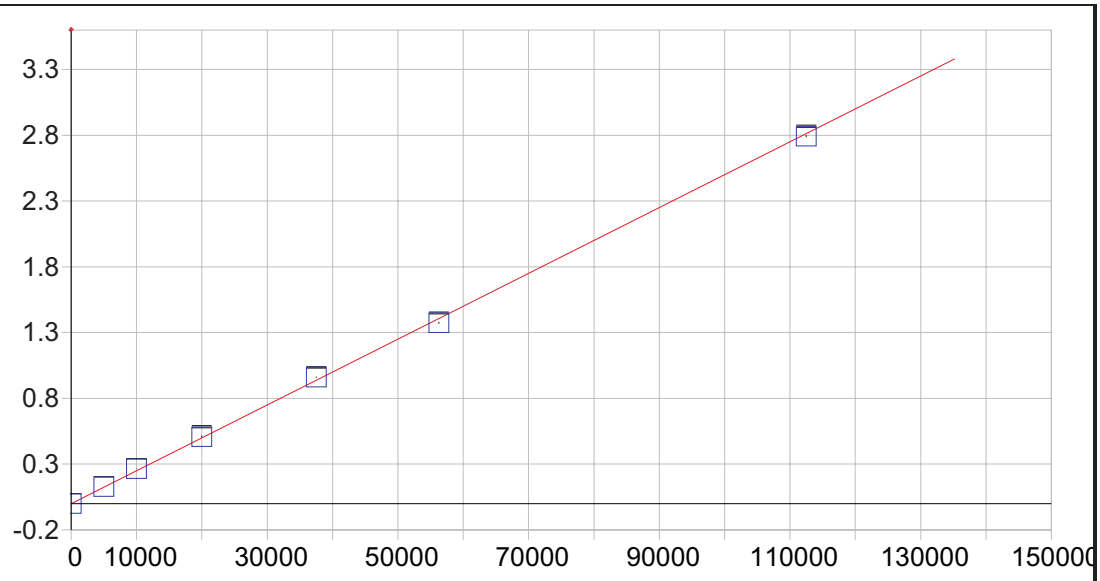
Fe 261.187 {129}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001003	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999578	Status:	OK.
Std Error of Est:	0.000159		
Predicted MDL:	11.480025		
Predicted MQL:	38.266750		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.01942	-.019	.000	.00100	.001	1
S01 ISM-520	100.00	109.35	9.35	9.35	.00410	.000	1
S02 ISM-521	400.00	418.40	18.4	4.60	.01285	.000	1
S03 ISM-538	25000.	26184.	1180.	4.74	.74214	.005	1
S06 ISM-463	75000.	77310.	2310.	3.08	2.1892	.010	1
S07 ISM-464	150000.	146480.	-3520.	-2.35	4.1470	.191	1

PDF created with pdfFactory trial version www.pdffactory.com



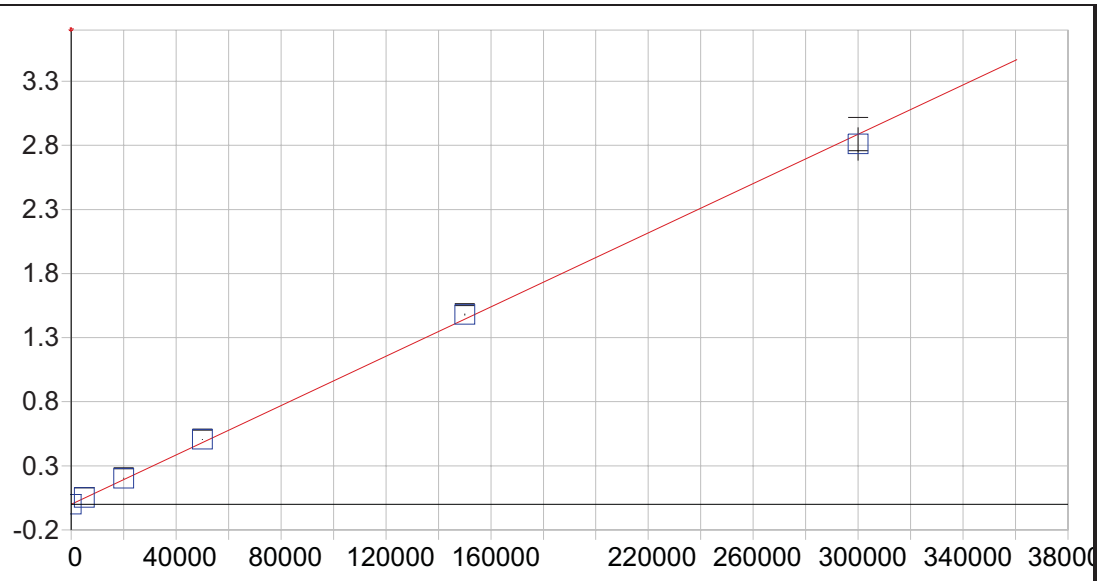
K 766.490 { 44}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000379	Re-Slope:	1.000000
A1 (Gain):	0.000025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999771	Status:	OK.
Std Error of Est:	0.000695		
Predicted MDL:	55.968084		
Predicted MQL:	186.560281		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.56105	-.561	.000	-.00039	.001	1
S02 ISM-521	20000.	20358.	358.	1.79	.50876	.008	1
S01 ISM-520	5000.0	5187.2	187.	3.74	.12935	.000	1
S03 ISM-538	37500.	38434.	934.	2.49	.96084	.004	1
S08 ISM-465	56250.	54962.	-1290.	-2.29	1.3742	.007	1
S06 ISM-463	112500.	111690.	-812.	-.722	2.7929	.009	1
S10 ISM-457	10000.	10621.	621.	6.21	.26524	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



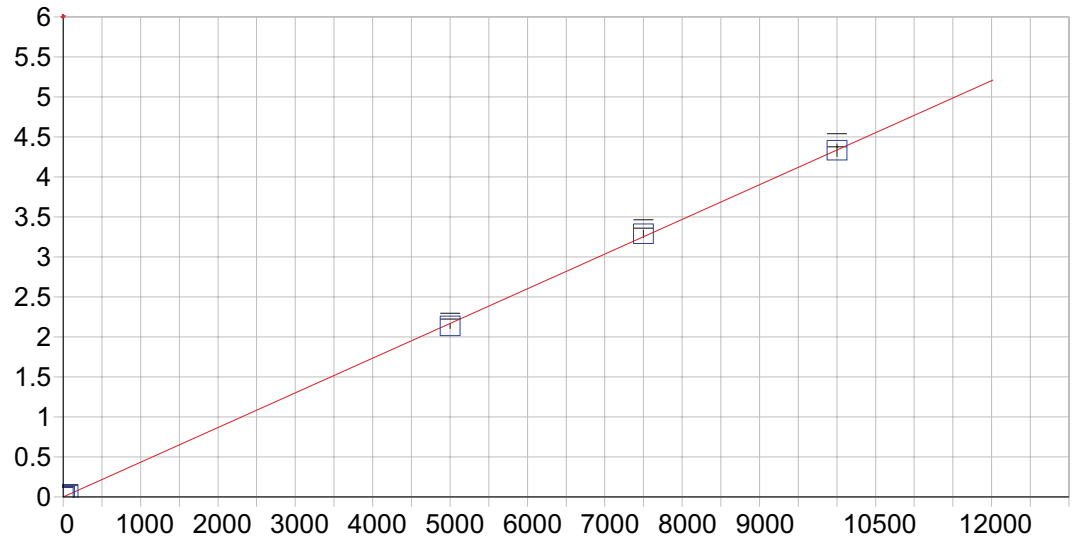
Mg 279.079 {121}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000161	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999488	Status:	OK.
Std Error of Est:	0.000611		
Predicted MDL:	30.571220		
Predicted MQL:	101.904065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.99269	-.993	.000	-.00017	.000	1
S01 ISM-520	5000.0	5470.8	471.	9.42	.05250	.000	1
S02 ISM-521	20000.	21080.	1080.	5.40	.20275	.004	1
S03 ISM-538	50000.	52581.	2580.	5.16	.50597	.003	1
S06 ISM-463	150000.	153760.	3760.	2.51	1.4799	.007	1
S07 ISM-464	300000.	292100.	-7900.	-2.63	2.8115	.130	1

PDF created with pdfFactory trial version www.pdffactory.com



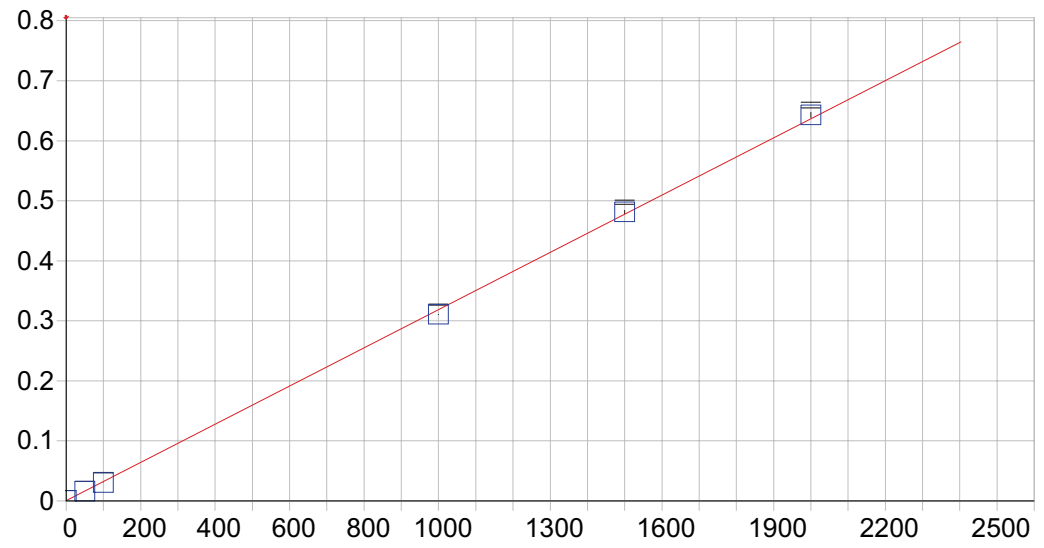
Mn 257.610 {131}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000434	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.055835		
Predicted MQL:	0.186117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00091	-.001	.000	.00001	.000	1
S01 ISM-520	15.000	15.949	.949	6.33	.00693	.000	1
S02 ISM-521	60.000	60.149	.149	.248	.02609	.000	1
S03 ISM-538	5000.0	4925.9	-74.1	-1.48	2.1360	.037	1
S04 ISM-523	7500.0	7580.2	80.2	1.07	3.2870	.051	1
S05 ISM-524	10000.	9992.9	-7.15	-.071	4.3333	.082	1

PDF created with pdfFactory trial version www.pdffactory.com



Mo 202.030 {467}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000555	Re-Slope:	1.000000
A1 (Gain):	0.000318	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	0.273907		
Predicted MQL:	0.913022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00469	.005	.000	.00056	.000	1
S01 ISM-520	50.000	48.364	-1.64	-3.27	.01594	.000	1
S02 ISM-521	100.00	94.574	-5.43	-5.43	.03063	.000	1
S03 ISM-538	1000.0	975.37	-24.6	-2.46	.31077	.001	1
S04 ISM-523	1500.0	1511.3	11.3	.752	.48121	.004	1
S05 ISM-524	2000.0	2020.4	20.4	1.02	.64314	.005	1

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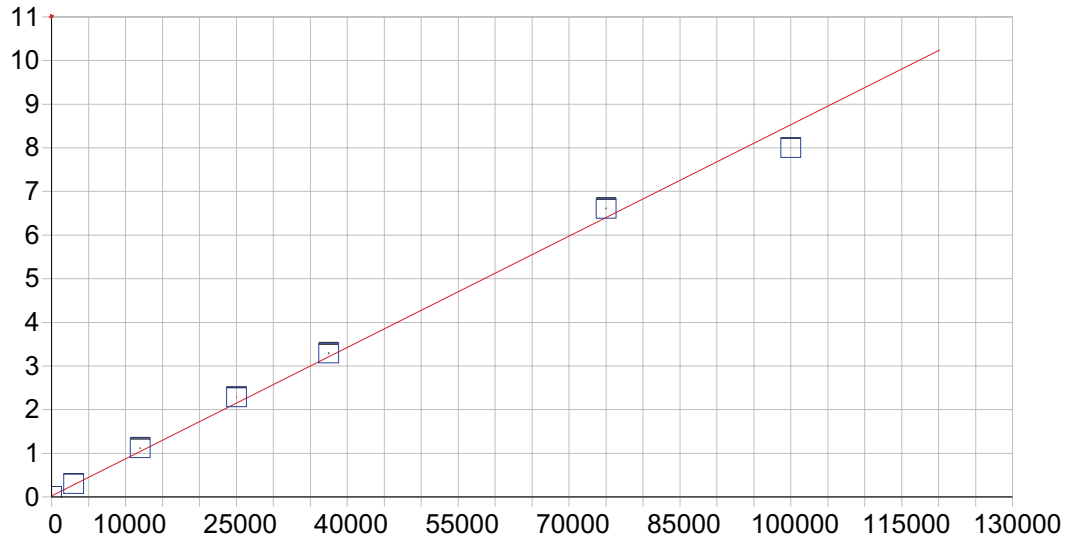


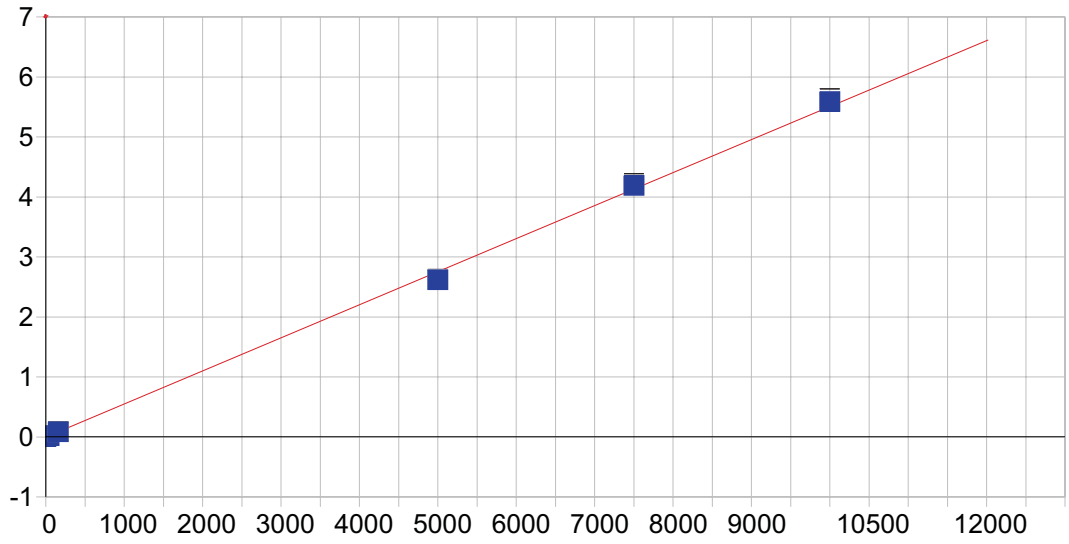
Na 589.592 { 57}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020244	Re-Slope:	1.000000
A1 (Gain):	0.000085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998618	Status:	OK.
Std Error of Est:	0.004607		
Predicted MDL:	20.443316		
Predicted MQL:	68.144388		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.73536	-.735	.000	.02018	.001	1
S01 ISM-520	3000.0	3329.9	330.	11.0	.30359	.001	1
S02 ISM-521	12000.	12905.	905.	7.54	1.1184	.019	1
S03 ISM-538	25000.	26608.	1610.	6.43	2.2844	.008	1
S06 ISM-463	75000.	77442.	2440.	3.26	6.6099	.018	1
S08 ISM-465	37500.	38440.	940.	2.51	3.2912	.022	1
S09 ISM-456	100000.	93774.	-6230.	-6.23	7.9996	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



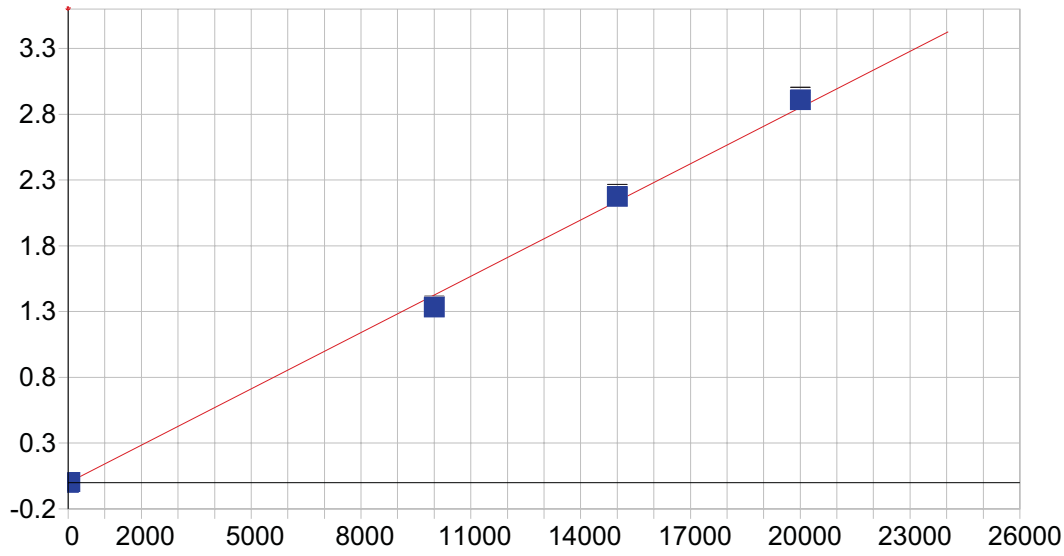
Ni 231.604 {445}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001037	Re-Slope:	1.000000
A1 (Gain):	0.000551	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999636	Status:	OK.
Std Error of Est:	0.000549		
Predicted MDL:	0.293386		
Predicted MQL:	0.977952		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00423	.004	.000	-.00103	.000	1
S01 ISM-520	40.000	39.462	-.538	-1.35	.02071	.000	1
S02 ISM-521	160.00	148.37	-11.6	-7.27	.08072	.000	1
S03 ISM-538	5000.0	4755.5	-244.	-4.89	2.6188	.008	1
S04 ISM-523	7500.0	7608.8	109.	1.45	4.1913	.030	1
S05 ISM-524	10000.	10148.	148.	1.48	5.5903	.045	1

PDF created with pdfFactory trial version www.pdffactory.com



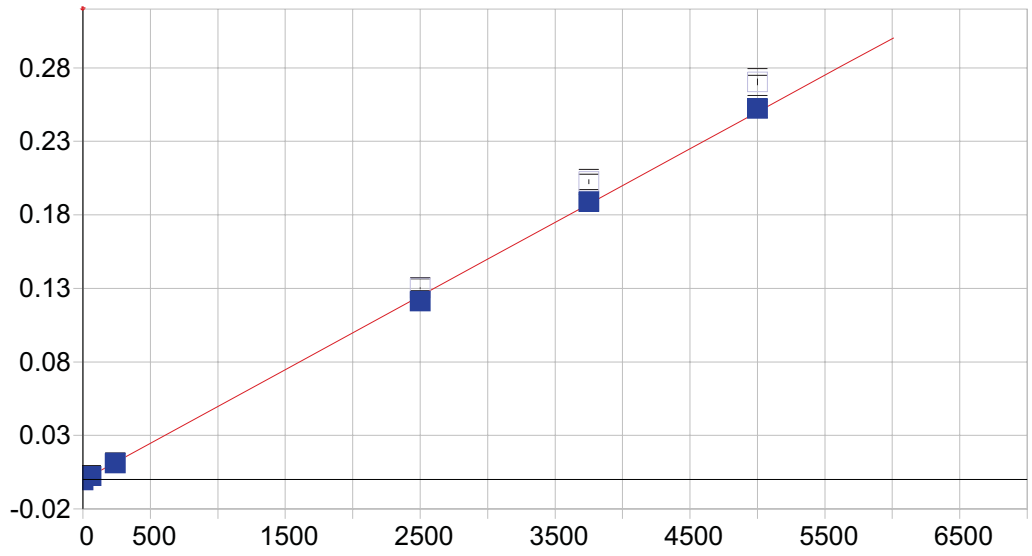
Pb 220.353 {453}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000536	Re-Slope:	1.000000
A1 (Gain):	0.000143	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999400	Status:	OK.
Std Error of Est:	0.000129		
Predicted MDL:	1.444175		
Predicted MQL:	4.813918		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00146	.001	.000	-.00054	.000	1
S01 ISM-520	10.000	9.9228	-.077	-.772	.00089	.000	1
S02 ISM-521	40.000	35.573	-4.43	-11.1	.00460	.000	1
S03 ISM-538	10000.	9355.7	-644.	-6.44	1.3377	.004	1
S04 ISM-523	15000.	15247.	247.	1.65	2.1754	.017	1
S05 ISM-524	20000.	20403.	403.	2.01	2.9111	.020	1

PDF created with pdfFactory trial version www.pdffactory.com



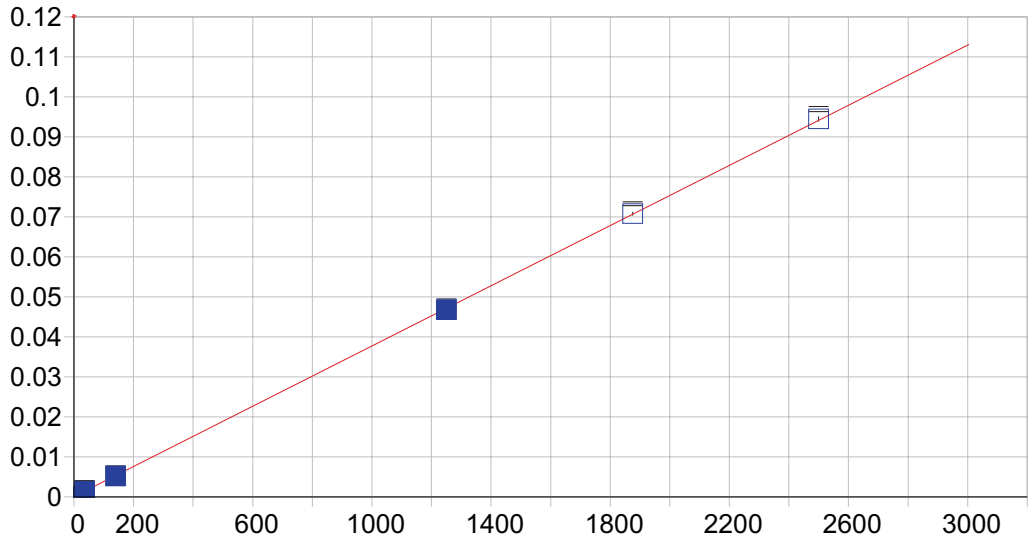
Sb 206.833 {463}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000419	Re-Slope:	1.000000
A1 (Gain):	0.000050	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999880	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	1.988833		
Predicted MQL:	6.629442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00449	.004	.000	-.00042	.000	1
S01 ISM-520	60.000	58.606	-1.39	-2.32	.00251	.000	1
S02 ISM-521	240.00	229.96	-10.0	-4.18	.01110	.000	1
S03 ISM-538	2500.0	2429.6	-70.4	-2.81	.13021	.000	1
S04 ISM-523	3750.0	3782.9	32.9	.876	.20258	.002	1
S05 ISM-524	5000.0	5048.1	48.1	.962	.27046	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



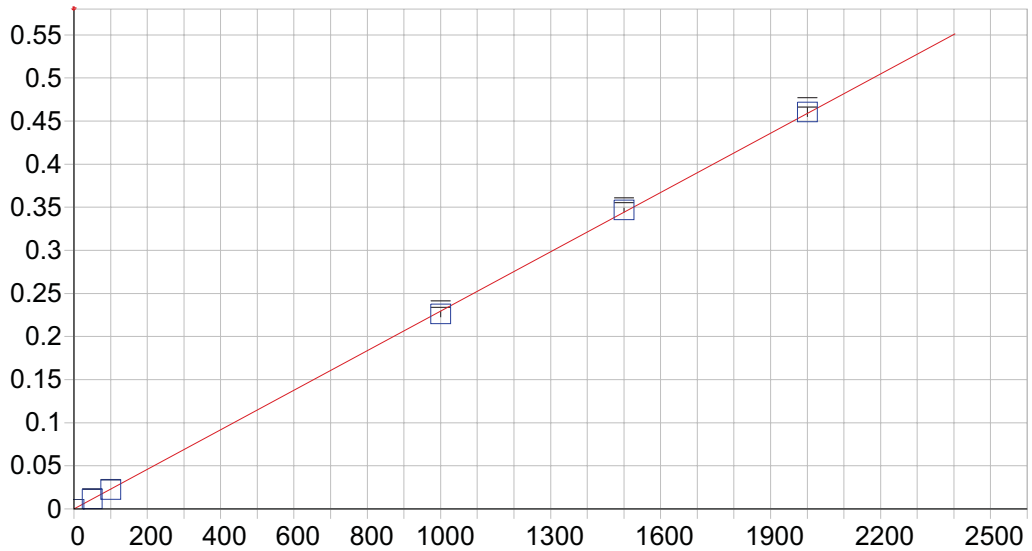
Se 196.090 {472}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000118	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	2.085389		
Predicted MQL:	6.951296		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00077	.001	.000	.00012	.000	1
S01 ISM-520	35.000	35.493	.493	1.41	.00145	.000	1
S02 ISM-521	140.00	135.12	-4.88	-3.48	.00520	.000	1
S03 ISM-538	1250.0	1241.0	-9.01	-.721	.04680	.000	1
S04 ISM-523	1875.0	1879.5	4.51	.240	.07081	.000	1
S05 ISM-524	2500.0	2508.9	8.88	.355	.09448	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



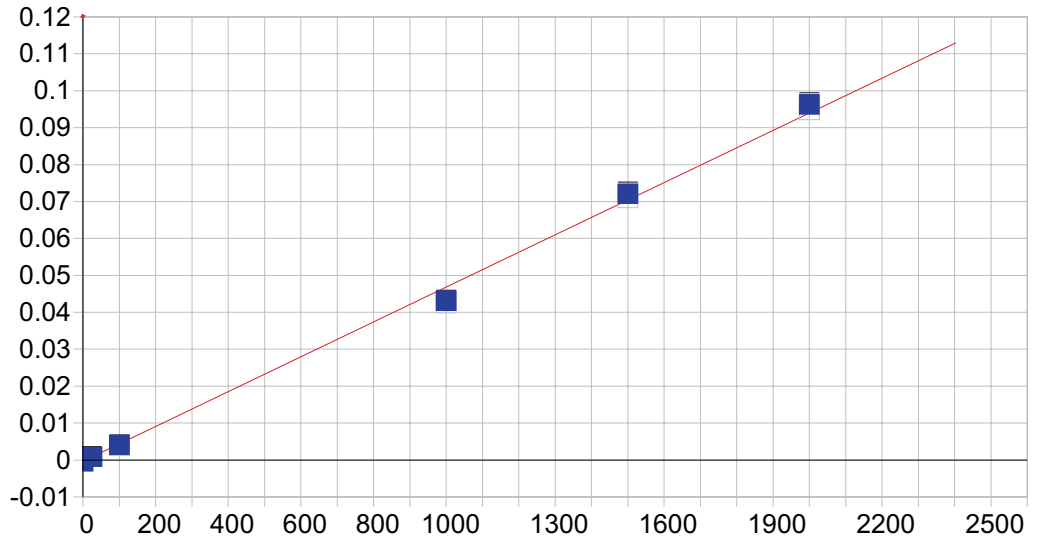
Ti 337.280 {100}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000117	Re-Slope:	1.000000
A1 (Gain):	0.000229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.204447		
Predicted MQL:	0.681490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00200	.002	.000	.00012	.000	1
S01 ISM-520	50.000	49.543	-.457	-.913	.01148	.000	1
S02 ISM-521	100.00	97.291	-2.71	-2.71	.02243	.000	1
S03 ISM-538	1000.0	985.59	-14.4	-1.44	.22619	.004	1
S04 ISM-523	1500.0	1510.9	10.9	.729	.34669	.003	1
S05 ISM-524	2000.0	2006.6	6.64	.332	.46039	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



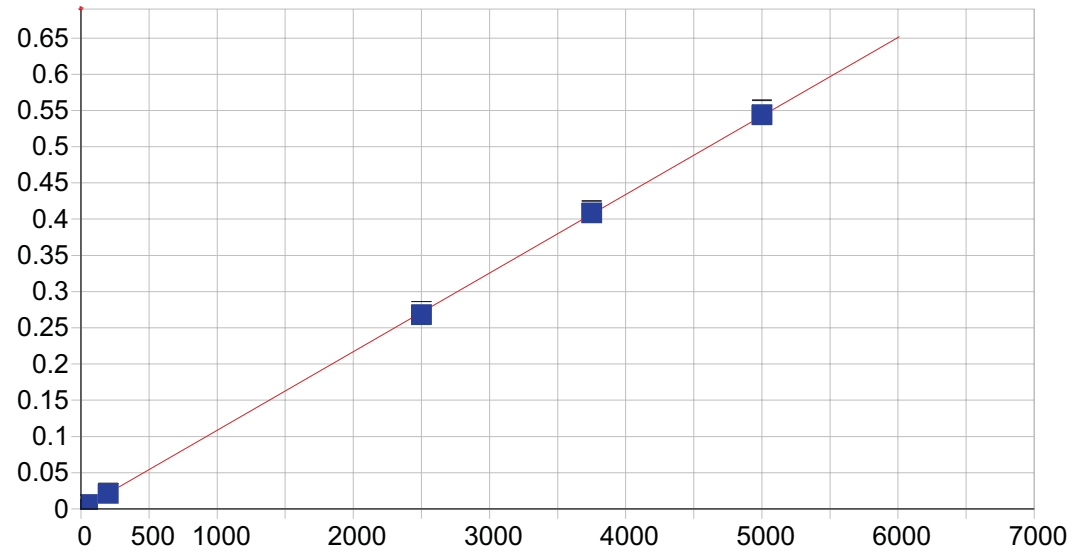
TI 190.856 {477}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000341	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999056	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	1.312787		
Predicted MQL:	4.375958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00236	.002	.000	-.00034	.000	1
S01 ISM-520	25.000	25.100	.100	.399	.00082	.000	1
S02 ISM-521	100.00	93.079	-6.92	-6.92	.00396	.000	1
S03 ISM-538	1000.0	922.75	-77.3	-7.73	.04243	.000	1
S04 ISM-523	1500.0	1535.1	35.1	2.34	.07094	.001	1
S05 ISM-524	2000.0	2049.0	49.0	2.45	.09480	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



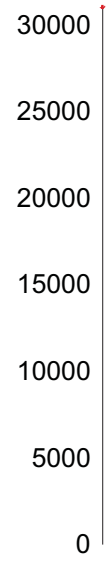
V 292.402 {115}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	0.000108	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.325367		
Predicted MQL:	1.084558		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00074	.001	.000	.00008	.000	1
S01 ISM-520	50.000	50.588	.588	1.18	.00555	.000	1
S02 ISM-521	200.00	195.43	-4.57	-2.28	.02124	.000	1
S03 ISM-538	2500.0	2472.4	-27.6	-1.10	.26788	.004	1
S04 ISM-523	3750.0	3764.8	14.8	.396	.40789	.003	1
S05 ISM-524	5000.0	5016.8	16.8	.335	.54350	.007	1

PDF created with pdfFactory trial version www.pdffactory.com

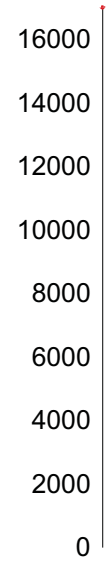


Y 224.306 {450}*

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

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

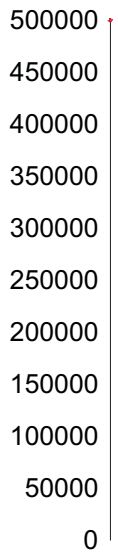
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	28931.	138.	1



Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

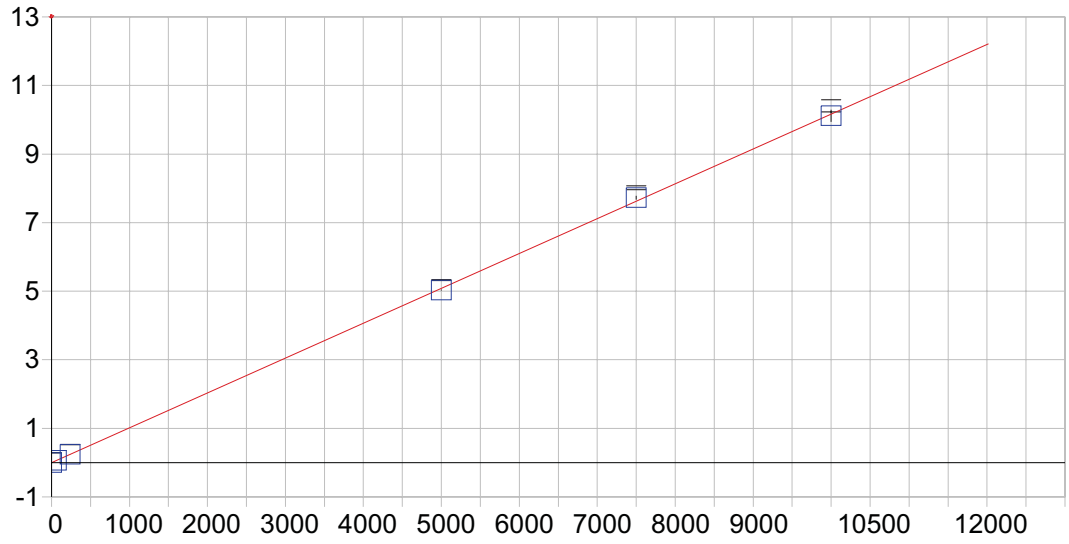
Date of Fit:	11/21/2015 13:14:48		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	16002.	158.	1



Y 371.030 { 91}2*

Date of Fit:	11/21/2015 13:14:48		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	412940.	4110.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/21/2015 13:14:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000093	Re-Slope:	1.000000
A1 (Gain):	0.001017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000467		
Predicted MDL:	0.099766		
Predicted MQL:	0.332552		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	-.00009	.000	1
S01 ISM-520	60.000	60.965	.965	1.61	.06188	.000	1
S02 ISM-521	240.00	233.70	-6.30	-2.63	.23747	.001	1
S03 ISM-538	5000.0	4950.0	-50.0	-.999	5.0318	.016	1
S04 ISM-523	7500.0	7603.6	104.	1.38	7.7292	.056	1
S05 ISM-524	10000.	9951.7	-48.3	-.483	10.116	.174	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/20/2015 17:36:57 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00006	.00364	.00040	-.00452	.00079	.00692	-.0006
Stddev	.00003	.00016	.00010	.00130	.00002	.00015	.0002
%RSD	50.352	4.3278	24.821	28.703	2.7772	2.1697	38.95
#1	.00007	.00349	.00041	-.00552	.00081	.00706	-.0004
#2	.00003	.00380	.00029	-.00305	.00079	.00693	-.0005
#3	.00008	.00363	.00048	-.00498	.00077	.00676	-.0008

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00049	-.00005	-.00012	.00100	-.0004	-.0002	.00001
Stddev	.00010	.00001	.00002	.00051	.0013	.0002	.00000
%RSD	21.225	21.119	12.652	51.327	337.8	129.1	16.419
#1	.00043	-.00006	-.00010	.00155	-.0013	-.0003	.00001
#2	.00061	-.00004	-.00013	.00094	.0011	-.0003	.00001
#3	.00044	-.00004	-.00012	.00053	-.0010	.0001	.00001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00056	.02018	-.00103	-.00054	-.00042	.00012	.0001
Stddev	.00008	.00145	.00002	.00022	.00007	.00003	.0000
%RSD	13.680	7.2077	2.3807	41.249	17.517	25.826	33.48
#1	.00047	.02092	-.00101	-.00075	-.00034	.00010	.0001
#2	.00057	.01851	-.00104	-.00055	-.00042	.00010	.0002
#3	.00062	.02111	-.00105	-.00031	-.00049	.00015	.0001

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Sample Name: S0 Acquired: 11/20/2015 17:36:57 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00034	.00008	-.00009
Stddev	.00005	.00003	.00012
%RSD	14.288	35.145	132.53
#1	-.00038	.00005	-.00023
#2	-.00029	.00007	.00001
#3	-.00036	.00011	-.00005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28931.	16002.	412940.
Stddev	138.	158.	4114.
%RSD	.47791	.98907	.99636
#1	28893.	15819.	408990.
#2	29084.	16103.	417200.
#3	28816.	16083.	412610.

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Sample Name: S01 ISM-520 Acquired: 11/20/2015 17:41:43 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00089	.00537	.00105	.41278	.01228	.51773	.0067
Stddev	.00001	.00028	.00005	.00165	.00005	.00039	.0002
%RSD	.75966	5.1572	4.7050	.39997	.41131	.07440	2.253
#1	.00089	.00535	.00110	.41173	.01224	.51729	.0067
#2	.00088	.00566	.00105	.41193	.01234	.51794	.0066
#3	.00090	.00511	.00100	.41468	.01226	.51797	.0069

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04426	.00073	.00141	.00410	.1294	.0525	.00693
Stddev	.00021	.00001	.00004	.00031	.0001	.0001	.00005
%RSD	.48190	1.2900	2.4932	7.5977	.0959	.1864	.75519
#1	.04411	.00073	.00137	.00388	.1295	.0524	.00688
#2	.04450	.00073	.00142	.00446	.1293	.0525	.00698
#3	.04416	.00072	.00144	.00396	.1292	.0526	.00692

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01594	.30359	.02071	.00089	.00251	.00145	.0115
Stddev	.00010	.00141	.00016	.00016	.00008	.00008	.0001
%RSD	.64925	.46353	.77880	17.333	3.0807	5.4905	.4458
#1	.01604	.30447	.02065	.00102	.00250	.00140	.0114
#2	.01583	.30197	.02058	.00094	.00259	.00141	.0115
#3	.01594	.30433	.02089	.00072	.00243	.00154	.0115

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Sample Name: S01 ISM-520 Acquired: 11/20/2015 17:41:43 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00082	.00555	.06188
Stddev	.00003	.00002	.00012
%RSD	3.3566	.43227	.18779
#1	.00079	.00552	.06191
#2	.00082	.00557	.06175
#3	.00085	.00554	.06198

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28199.	16047.	404540.
Stddev	134.	12.	818.
%RSD	.47416	.07277	.20219
#1	28072.	16057.	404460.
#2	28187.	16050.	403770.
#3	28339.	16034.	405400.

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Sample Name: S02 ISM-521 Acquired: 11/20/2015 17:46:29 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00329	.01063	.00279	1.6138	.04529	1.9765	.0276
Stddev	.00003	.00030	.00008	.0256	.00057	.0370	.0004
%RSD	.97236	2.8525	2.8302	1.5869	1.2604	1.8713	1.334
#1	.00325	.01068	.00288	1.6238	.04464	1.9892	.0276
#2	.00331	.01030	.00275	1.5847	.04570	1.9349	.0273
#3	.00330	.01090	.00274	1.6329	.04554	2.0055	.0280

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16632	.00289	.00549	.01285	.5088	.2027	.02609
Stddev	.00095	.00001	.00007	.00027	.0078	.0041	.00034
%RSD	.57081	.51732	1.3285	2.1258	1.533	2.046	1.3072
#1	.16671	.00288	.00540	.01277	.5114	.2042	.02572
#2	.16524	.00290	.00553	.01262	.5000	.1981	.02638
#3	.16701	.00290	.00553	.01315	.5149	.2059	.02618

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03063	1.1184	.08072	.00460	.01110	.00520	.0224
Stddev	.00018	.0187	.00048	.00031	.00006	.00003	.0003
%RSD	.59966	1.6731	.59392	6.6487	.53216	.49878	1.149
#1	.03078	1.1251	.08100	.00428	.01115	.00517	.0221
#2	.03043	1.0972	.08017	.00462	.01104	.00521	.0226
#3	.03070	1.1328	.08100	.00489	.01111	.00522	.0225

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Sample Name: S02 ISM-521 Acquired: 11/20/2015 17:46:29 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00396	.02124	.23747
Stddev	.00002	.00029	.00121
%RSD	.40338	1.3530	.50764
#1	.00396	.02092	.23788
#2	.00395	.02148	.23611
#3	.00398	.02131	.23842

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27962.	16017.	398890.
Stddev	104.	208.	5577.
%RSD	.37119	1.2988	1.3981
#1	27901.	15845.	404470.
#2	28081.	16249.	393310.
#3	27902.	15958.	398890.

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Sample Name: S03 ISM-538 Acquired: 11/20/2015 17:51:13 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06178	.43662	.15227	20.530	2.2535	4.9078	1.510
Stddev	.00113	.00319	.00054	.205	.0346	.0264	.004
%RSD	1.8264	.73055	.35662	.99969	1.5351	.53794	.2500
#1	.06236	.43584	.15167	20.452	2.2526	4.9006	1.505
#2	.06048	.43388	.15243	20.763	2.2193	4.8857	1.513
#3	.06251	.44012	.15272	20.376	2.2885	4.9370	1.511

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2385	.72281	.71196	.74214	.9608	.5060	2.1360
Stddev	.0124	.01511	.01675	.00481	.0045	.0033	.0375
%RSD	.29359	2.0911	2.3523	.64746	.4683	.6465	1.7540
#1	4.2243	.73957	.71689	.73903	.9570	.5056	2.1626
#2	4.2440	.71021	.69330	.73970	.9597	.5029	2.0932
#3	4.2473	.71864	.72569	.74767	.9658	.5094	2.1524

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31077	2.2844	2.6188	1.3377	.13021	.04680	.2262
Stddev	.00083	.0081	.0075	.0041	.00042	.00017	.0038
%RSD	.26622	.35663	.28700	.30946	.32600	.35806	1.688
#1	.30992	2.2824	2.6102	1.3330	.12975	.04661	.2286
#2	.31080	2.2774	2.6220	1.3407	.13058	.04687	.2218
#3	.31158	2.2933	2.6242	1.3395	.13032	.04692	.2282

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Sample Name: S03 ISM-538 Acquired: 11/20/2015 17:51:13 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04243	.26788	5.0318
Stddev	.00016	.00446	.0159
%RSD	.36655	1.6666	.31494
#1	.04225	.27055	5.0136
#2	.04252	.26273	5.0390
#3	.04252	.27037	5.0427

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26577.	15783.	389020.
Stddev	115.	65.	6175.
%RSD	.43207	.40893	1.5874
#1	26593.	15807.	385970.
#2	26456.	15831.	396130.
#3	26684.	15710.	384960.

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Sample Name: S04 ISM-523 Acquired: 11/20/2015 17:56:36 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09527	.23011	31.118	3.3440	2.328	6.7590	1.1252
Stddev	.00071	.00159	.838	.0769	.018	.0504	.0111
%RSD	.75001	.69057	2.6927	2.3010	.7521	.74544	.98615
#1	.09609	.22871	30.493	3.4247	2.310	6.7077	1.1354
#2	.09489	.22978	30.791	3.2714	2.328	6.7611	1.1134
#3	.09482	.23184	32.070	3.3359	2.345	6.8084	1.1269

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1275	3.2870	.48121	4.1913	2.1754	.20258	.07081
Stddev	.0178	.0513	.00362	.0301	.0171	.00159	.00046
%RSD	1.5817	1.5606	.75221	.71716	.78704	.78310	.64708
#1	1.1434	3.3395	.47758	4.1612	2.1578	.20112	.07037
#2	1.1308	3.2846	.48124	4.1915	2.1764	.20236	.07077
#3	1.1082	3.2370	.48482	4.2213	2.1920	.20427	.07128

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3467	.07094	.40789	7.7292
Stddev	.0028	.00055	.00324	.0560
%RSD	.8050	.76945	.79508	.72506
#1	.3499	.07042	.41160	7.6713
#2	.3454	.07088	.40647	7.7333
#3	.3448	.07151	.40560	7.7831

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Sample Name: S04 ISM-523 Acquired: 11/20/2015 17:56:36 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27130.	15939.	400130.
Stddev	208.	169.	3981.
%RSD	.76699	1.0581	.99491
#1	27364.	16131.	395640.
#2	27058.	15868.	403220.
#3	26966.	15817.	401540.

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Sample Name: S05 ISM-524 Acquired: 11/20/2015 18:02:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12668	.30786	41.331	4.3442	3.126	9.0222	1.4838
Stddev	.00137	.00274	.367	.0918	.023	.0668	.0233
%RSD	1.0819	.88915	.88719	2.1123	.7434	.73991	1.5699
#1	.12546	.30859	41.138	4.2486	3.132	9.0394	1.4574
#2	.12816	.30483	41.754	4.4316	3.101	8.9486	1.4924
#3	.12641	.31016	41.101	4.3523	3.146	9.0787	1.5015

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4976	4.3333	.64314	5.5903	2.9111	.27046	.09448
Stddev	.0181	.0822	.00474	.0451	.0202	.00221	.00064
%RSD	1.2118	1.8978	.73743	.80630	.69422	.81692	.68024
#1	1.4782	4.2437	.64446	5.6054	2.9150	.27125	.09467
#2	1.5003	4.4054	.63787	5.5396	2.8893	.26797	.09376
#3	1.5142	4.3506	.64708	5.6259	2.9291	.27217	.09501

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4604	.09480	.54350	10.116
Stddev	.0054	.00049	.00662	.174
%RSD	1.163	.51677	1.2189	1.7215
#1	.4560	.09499	.53816	10.059
#2	.4663	.09424	.55091	10.312
#3	.4589	.09517	.54142	9.9776

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Sample Name: S05 ISM-524 Acquired: 11/20/2015 18:02:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26870.	15628.	402930.
Stddev	125.	183.	3090.
%RSD	.46440	1.1680	.76677
#1	26903.	15801.	406050.
#2	26975.	15437.	399870.
#3	26732.	15646.	402860.

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Sample Name: S06 ISM-463 Acquired: 11/20/2015 18:07:34 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2975	14.560	2.1892	2.793	1.480	6.6099
Stddev	.0031	.061	.0097	.009	.007	.0176
%RSD	.23514	.41989	.44081	.3253	.4883	.26575
#1	1.2983	14.595	2.1937	2.803	1.482	6.6219
#2	1.2941	14.490	2.1781	2.785	1.472	6.5897
#3	1.3001	14.596	2.1959	2.791	1.486	6.6181

Int. Std.	Y_3710
Units	Cts/S
Avg	15688.
Stddev	65.
%RSD	.41469
#1	15761.
#2	15635.
#3	15668.

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Sample Name: S07 ISM-464 Acquired: 11/20/2015 18:12:18 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4788	27.226	4.1470	2.812
Stddev	.1155	1.101	.1907	.130
%RSD	4.6577	4.0437	4.5988	4.624
#1	2.3462	26.012	3.9282	2.662
#2	2.5570	27.507	4.2780	2.900
#3	2.5333	28.159	4.2348	2.872

Int. Std.	Y_3710
Units	Cts/S
Avg	15997.
Stddev	577.
%RSD	3.6070
#1	16660.
#2	15724.
#3	15607.

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Sample Name: S08 ISM-465 Acquired: 11/20/2015 18:17:06 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.374	3.2912
Stddev	.007	.0221
%RSD	.5145	.67149
#1	1.371	3.2768
#2	1.369	3.2801
#3	1.382	3.3166

Int. Std.	Y_3710
Units	Cts/S
Avg	15497.
Stddev	287.
%RSD	1.8533
#1	15167.
#2	15635.
#3	15690.

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Sample Name: S09 ISM-456 Acquired: 11/20/2015 18:21:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.9996
Stddev	.0039
%RSD	.04842
#1	7.9980
#2	7.9969
#3	8.0041
Int. Std.	Y_3710
Units	Cts/S
Avg	15846.
Stddev	156.
%RSD	.98687
#1	16003.
#2	15690.
#3	15845.

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Sample Name: S10 ISM-457 Acquired: 11/20/2015 18:26:37 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2652
Stddev	.0010
%RSD	.3686
#1	.2647
#2	.2647
#3	.2664
Int. Std.	Y_3710
Units	Cts/S
Avg	16150.
Stddev	71.
%RSD	.43943
#1	16165.
#2	16073.
#3	16213.

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Sample Name: ICV ISM-514 Acquired: 11/20/2015 18:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	494.03	2766.3	1000.8	510.09	518.15	10926.	475.7
Stddev	6.59	37.9	2.7	1.33	3.45	26.	1.6
%RSD	1.3344	1.3712	.27470	.26115	.66617	.24191	.3396
#1	497.19	2803.0	1000.8	511.29	521.89	10944.	474.7
#2	486.45	2768.5	998.12	508.65	515.08	10896.	474.9
#3	498.44	2727.3	1003.6	510.33	517.48	10939.	477.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	481.19	500.35	492.21	5416.6	10490.	6511.	514.58
Stddev	1.64	7.12	7.95	21.2	75.	12.	7.17
%RSD	.34137	1.4237	1.6143	.39115	.7173	.1916	1.3932
#1	480.00	502.92	495.61	5414.9	10520.	6517.	517.05
#2	480.49	492.30	483.13	5396.3	10410.	6497.	506.50
#3	483.06	505.83	497.88	5438.5	10550.	6520.	520.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/20/2015 18:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23927	11011.	484.88	928.18	971.93	982.63	.0799
Stddev	.18097	69.	1.53	4.81	2.12	4.72	.0703
%RSD	75.634	.62775	.31467	.51847	.21852	.48013	87.93
#1	-.43601	11050.	484.28	928.41	972.07	982.68	.1535
#2	-.07991	10931.	483.74	923.26	969.75	977.89	.0135
#3	-.20189	11051.	486.61	932.87	973.99	987.33	.0728
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	980.06	500.54	1000.4
Stddev	5.42	7.00	3.8
%RSD	.55261	1.3980	.37503
#1	977.16	503.19	998.14
#2	976.71	492.60	998.36
#3	986.31	505.82	1004.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/20/2015 18:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28665.	16246.	411550.
Stddev	92.	103.	5371.
%RSD	.31984	.63504	1.3051
#1	28677.	16159.	407610.
#2	28750.	16360.	417670.
#3	28568.	16218.	409380.

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Sample Name: ICB Acquired: 11/20/2015 18:36:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08514	-25.505	.24719	.21892	-.01288	-.48131	-.0200
Stddev	.05155	27.515	.51559	.31989	.00580	2.3874	.1323
%RSD	60.544	107.88	208.58	146.12	45.064	496.03	663.0
#1	-.14432	-15.023	.12935	.24047	-.01148	-.69050	-.1362
#2	-.06118	-4.7702	.81150	-.11119	-.00790	-2.7572	-.0478
#3	-.04994	-56.720	-.19927	.52750	-.01925	2.0038	.1241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06972	-.11961	-.54033	2.6310	-54.41	7.917	.08377
Stddev	.17225	.24806	.38081	5.3136	30.24	26.47	.06410
%RSD	247.05	207.40	70.477	201.96	55.57	334.3	76.509
#1	.08509	-.38984	-.10445	5.9142	-19.50	-22.50	.10224
#2	-.03899	.09775	-.80849	-3.4995	-71.34	25.71	.01247
#3	-.25527	-.06673	-.70805	5.4783	-72.39	20.54	.13661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/20/2015 18:36:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21982	-31.555	.07907	.47544	-.94449	1.5769	-.0742
Stddev	.01939	14.847	.06352	1.1106	1.5247	.5512	.2233
%RSD	8.8225	47.052	80.329	233.59	161.43	34.953	301.0
#1	-.20973	-21.061	.01327	1.6687	.56982	.94281	-.1412
#2	-.20756	-25.061	.08393	.28575	-2.4794	1.8466	.1750
#3	-.24218	-48.543	.14003	-.52810	-.92391	1.9413	-.2564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3539	.01311	-.13809
Stddev	1.2375	.19970	.05682
%RSD	91.401	1523.0	41.149
#1	1.1847	.17785	-.18200
#2	2.6674	.07048	-.07391
#3	.20976	-.20899	-.15835
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/20/2015 18:36:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29248.	15964.	413700.
Stddev	69.	206.	2291.
%RSD	.23427	1.2880	.55388
#1	29170.	16138.	411130.
#2	29298.	15737.	414410.
#3	29276.	16016.	415550.

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Sample Name: ICSA ISM-519 Acquired: 11/20/2015 18:41:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05713	272020.	2.5666	7.7881	.18148	270430.	1.108
Stddev	.11795	848.	.5730	.3977	.00821	1030.	.174
%RSD	206.45	.31186	22.324	5.1064	4.5249	.38083	15.67
#1	-.06914	271070.	3.2134	7.3533	.17322	271440.	.9763
#2	.16447	272280.	2.1228	7.8777	.18965	270480.	1.305
#3	.07606	272700.	2.3636	8.1334	.18158	269380.	1.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.57444	60.229	-2.9430	107060.	287.9	277200.	18.284
Stddev	.16728	.117	.0608	113.	61.8	527.	.035
%RSD	29.121	.19406	2.0646	.10540	21.48	.1902	.18991
#1	-.42816	60.297	-3.0076	106970.	358.4	276700.	18.304
#2	-.75682	60.296	-2.9343	107190.	243.0	277800.	18.244
#3	-.53832	60.094	-2.8870	107030.	262.2	277200.	18.305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-519 Acquired: 11/20/2015 18:41:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8547	89.907	-1.9806	.14666	4.7828	7.0874	3.496
Stddev	.4473	12.556	.1506	1.8635	.6330	1.5395	.159
%RSD	24.118	13.966	7.6037	1270.7	13.234	21.722	4.544
#1	1.8741	75.492	-1.9316	.53696	4.0850	8.3446	3.443
#2	2.2920	98.463	-2.1496	1.7841	5.3201	7.5473	3.369
#3	1.3980	95.765	-1.8606	-1.8811	4.9433	5.3703	3.674
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.31851	1.3132	1.2090
Stddev	.40110	.2645	.1378
%RSD	125.93	20.142	11.394
#1	.77643	1.0100	1.1021
#2	.14968	1.4968	1.1603
#3	.02942	1.4327	1.3644
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-519 Acquired: 11/20/2015 18:41:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25757.	15243.	365190.
Stddev	117.	148.	1800.
%RSD	.45380	.97311	.49282
#1	25892.	15345.	363570.
#2	25697.	15073.	367130.
#3	25684.	15312.	364880.

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Sample Name: ICSAB ISM-522 Acquired: 11/20/2015 18:45:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.81	267020.	103.15	535.83	547.49	264020.	994.7
Stddev	1.66	730.	1.95	2.83	9.62	8501.	3.0
%RSD	.79044	.27340	1.8923	.52884	1.7566	3.2196	.2991
#1	209.46	266180.	103.95	532.86	548.74	255150.	992.8
#2	208.36	267350.	100.93	536.11	537.31	272090.	993.2
#3	211.62	267530.	104.58	538.51	556.43	264830.	998.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	461.47	566.53	496.38	106050.	244.4	274800.	543.92
Stddev	1.42	5.74	5.92	407.	46.2	1352.	5.20
%RSD	.30851	1.0130	1.1917	.38342	18.90	.4918	.95534
#1	460.41	565.01	495.76	105590.	275.3	273300.	542.71
#2	460.92	561.71	490.81	106190.	191.3	275400.	539.43
#3	463.09	572.88	502.59	106370.	266.5	275800.	549.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-522 Acquired: 11/20/2015 18:45:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3710	52.249	922.50	43.784	586.98	54.305	3.418
Stddev	.0456	15.016	2.36	.809	2.54	.752	.077
%RSD	3.3255	28.739	.25555	1.8467	.43212	1.3851	2.257
#1	1.3312	38.550	921.53	44.607	587.40	53.520	3.505
#2	1.4207	68.303	920.78	43.754	584.25	54.376	3.392
#3	1.3612	49.894	925.19	42.990	589.27	55.019	3.358
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	89.420	506.78	972.04
Stddev	.399	5.47	1.88
%RSD	.44584	1.0803	.19362
#1	89.059	505.13	971.71
#2	89.354	502.31	970.34
#3	89.848	512.88	974.06
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-522 Acquired: 11/20/2015 18:45:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26220.	15522.	370480.
Stddev	47.	81.	3329.
%RSD	.18094	.52112	.89856
#1	26173.	15610.	372010.
#2	26268.	15451.	372770.
#3	26219.	15505.	366660.

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Sample Name: CCV ISM-538 Acquired: 11/20/2015 18:50:58 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	725.16	51374.	2461.3	9879.0	1033.1	52132.	963.5
Stddev	14.29	757.	2.6	313.7	10.5	507.	1.9
%RSD	1.9699	1.4736	.10732	3.1756	1.0186	.97161	.1948
#1	737.68	50542.	2464.1	9540.7	1032.4	51566.	964.1
#2	709.60	51557.	2458.9	9935.8	1022.9	52286.	961.4
#3	728.21	52022.	2460.8	10160.	1043.9	52544.	965.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4712.5	9850.7	11835.	25974.	38330.	51570.	4838.7
Stddev	11.1	208.3	192.	263.	388.	574.	54.0
%RSD	.23615	2.1143	1.6193	1.0126	1.011	1.112	1.1164
#1	4717.1	10077.	12045.	25679.	37890.	50930.	4895.6
#2	4699.9	9666.8	11671.	26061.	38460.	51710.	4788.2
#3	4720.7	9808.4	11788.	26183.	38640.	52050.	4832.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/20/2015 18:50:58 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	969.86	26210.	4722.5	9251.7	2412.8	1228.1	981.2
Stddev	1.82	235.	11.2	22.8	3.6	3.8	20.9
%RSD	.18755	.89769	.23667	.24603	.15067	.31152	2.134
#1	970.48	25977.	4730.4	9260.5	2409.4	1230.2	998.9
#2	967.81	26206.	4709.7	9225.9	2412.3	1223.7	958.1
#3	971.29	26447.	4727.4	9268.8	2416.6	1230.5	986.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	909.98	2457.5	4881.7
Stddev	2.10	51.4	11.1
%RSD	.23111	2.0921	.22799
#1	911.38	2502.5	4887.9
#2	907.56	2401.5	4868.8
#3	911.01	2468.5	4888.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-538 Acquired: 11/20/2015 18:50:58 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27086.	15922.	397490.
Stddev	35.	281.	6135.
%RSD	.13077	1.7641	1.5433
#1	27078.	16245.	391310.
#2	27125.	15732.	403580.
#3	27056.	15790.	397560.

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Sample Name: CCB Acquired: 11/20/2015 18:56:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24049	2.4799	.67931	.49150	.00338	.58924	.0111
Stddev	.23202	10.362	1.8665	.51044	.01360	5.9650	.0614
%RSD	96.476	417.83	274.76	103.85	401.93	1012.3	554.0
#1	-.39780	4.3080	2.8052	1.0357	.01687	-4.2545	.0137
#2	-.34965	-8.6743	-.69068	.41550	.00360	-1.2298	-.0516
#3	.02597	11.806	-.07653	.02332	-.01032	7.2520	.0712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10611	-.00499	-.10365	-9.2980	-38.96	12.32	.10588
Stddev	.07768	.15776	.92546	7.4343	58.02	31.48	.03221
%RSD	73.207	3162.5	892.88	79.955	148.9	255.4	30.420
#1	.19520	-.08304	.67405	-16.250	-2.048	-23.74	.14058
#2	.07061	.17659	-1.1272	-10.183	-8.992	34.26	.10013
#3	.05253	-.10852	.14222	-1.4611	-105.8	26.44	.07694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/20/2015 18:56:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06417	-54.079	.00187	.32772	.76621	.88968	-.0113
Stddev	.01294	12.672	.07055	.21243	.74941	1.4131	.1752
%RSD	20.157	23.432	3766.9	64.820	97.807	158.84	1557.
#1	-.06365	-42.996	.00235	.17392	.03116	2.4540	-.1173
#2	-.05151	-67.894	-.06892	.23913	.73827	.50970	.1909
#3	-.07737	-51.347	.07218	.57010	1.5292	-.29461	-.1073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8175	.05252	.65385
Stddev	1.0716	.33162	.10946
%RSD	58.961	631.39	16.740
#1	2.5998	.35625	.53406
#2	.59607	.10262	.74865
#3	2.2566	-.30130	.67883
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/20/2015 18:56:17 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29160.	15903.	416870.
Stddev	40.	189.	7295.
%RSD	.13593	1.1889	1.7500
#1	29200.	15701.	420820.
#2	29158.	16075.	408450.
#3	29121.	15934.	421330.

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Sample Name: QK03007-009 Acquired: 11/20/2015 19:01:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32226	230720.	61.947	1282.2	-2.6155	76616.
Stddev	.55199	551.	1.183	3.3	.0383	109.
%RSD	171.29	.23874	1.9092	.26017	1.4654	.14241
#1	.68482	230160.	60.605	1280.8	-2.6428	76503.
#2	.59496	230730.	62.401	1279.8	-2.5716	76720.
#3	-.31301	231260.	62.835	1286.0	-2.6320	76624.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.582	138.88	465.87	462.13	F 363780.	24040.
Stddev	.199	.62	3.31	3.91	408.	106.
%RSD	12.60	.44998	.71018	.84587	.11203	.4420
#1	1.440	139.34	468.91	465.65	363320.	24090.
#2	1.495	138.17	462.35	457.92	364110.	23920.
#3	1.810	139.13	466.35	462.81	363900.	24120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03007-009 Acquired: 11/20/2015 19:01:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	163600.	6080.0	1.7571	6392.1	515.96	45.364
Stddev	595.	80.3	.3712	6.9	2.86	1.583
%RSD	.3638	1.3201	21.126	.10745	.55336	3.4894
#1	163600.	6055.5	1.9945	6387.2	515.43	45.977
#2	164200.	6014.9	1.3293	6389.1	513.40	43.566
#3	163000.	6169.7	1.9474	6399.9	519.04	46.549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.4353	9.5766	F 12120.	-3.1861	680.34	808.12
Stddev	2.5885	2.1510	253.	.6669	4.94	3.59
%RSD	30.686	22.461	2.088	20.931	.72580	.44476
#1	10.045	11.952	11940.	-3.7106	683.98	807.56
#2	9.8116	7.7606	12010.	-2.4356	674.72	804.85
#3	5.4494	9.0171	12410.	-3.4122	682.33	811.97
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10000.			
Low Limit			-10000.			

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Sample Name: QK03007-009 Acquired: 11/20/2015 19:01:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28515.	16760.	403900.
Stddev	137.	76.	1870.
%RSD	.47921	.45605	.46299
#1	28494.	16672.	403110.
#2	28660.	16806.	406030.
#3	28389.	16801.	402550.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.562%	104.74%	97.811%
Range			

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Sample Name: QK03007-010 Acquired: 11/20/2015 19:06:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46037	117610.	26.682	537.52	-2.4375	61127.
Stddev	.39161	198.	1.528	.40	.0247	45.
%RSD	85.066	.16839	5.7280	.07416	1.0130	.07356
#1	.01356	117450.	25.145	537.13	-2.4290	61142.
#2	.74406	117560.	26.701	537.50	-2.4654	61163.
#3	.62347	117830.	28.201	537.92	-2.4183	61077.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7020	70.391	267.56	235.29	F 181400.	9833.
Stddev	.0389	.114	1.29	1.49	125.	1.
%RSD	5.541	.16173	.48342	.63262	.06916	.0142
#1	.6640	70.260	267.36	235.49	181540.	9834.
#2	.7417	70.448	268.94	236.67	181300.	9833.
#3	.7001	70.466	266.38	233.72	181370.	9832.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03007-010 Acquired: 11/20/2015 19:06:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84200.	3015.7	1.0936	4305.9	292.75	16.068
Stddev	111.	36.4	.3066	17.6	.74	1.725
%RSD	.1322	1.2065	28.032	.40945	.25133	10.734
#1	84080.	3044.3	1.0308	4307.8	291.91	15.438
#2	84290.	3028.1	.82335	4287.3	293.07	18.019
#3	84230.	2974.8	1.4267	4322.4	293.27	14.746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9298	5.1852	6766.	-1.1360	389.10	379.75
Stddev	1.4066	1.4484	33.	.4864	1.92	.90
%RSD	28.533	27.933	.4866	42.818	.49295	.23643
#1	5.2080	5.4063	6730.	-1.5243	389.41	378.83
#2	3.4049	3.6389	6794.	-.59042	390.84	379.80
#3	6.1766	6.5103	6773.	-1.2933	387.04	380.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03007-010 Acquired: 11/20/2015 19:06:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29092.	16836.	413800.
Stddev	175.	158.	1531.
%RSD	.60266	.93794	.37005
#1	29267.	16949.	413500.
#2	29092.	16904.	412450.
#3	28916.	16656.	415470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.56%	105.22%	100.21%
Range			

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Sample Name: QQ89663-001 Acquired: 11/20/2015 19:11:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06362	48.552	.26556	.82045	-.02970	113.53	.0642
Stddev	.07143	62.076	.17090	.33636	.00515	8.24	.0850
%RSD	112.28	127.85	64.355	40.998	17.336	7.2594	132.3
#1	-.14611	112.94	.20432	1.1122	-.03498	120.34	-.0308
#2	-.02241	43.627	.13372	.45253	-.02469	104.37	.1330
#3	-.02235	-10.914	.45865	.89662	-.02943	115.88	.0904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00172	-.09778	.22631	3.7352	-105.5	35.55	.24544
Stddev	.13775	.25164	.92962	2.4318	6.2	19.87	.04937
%RSD	8024.6	257.35	410.78	65.105	5.872	55.89	20.117
#1	.11490	.13609	.29058	6.3549	-109.3	21.00	.26944
#2	-.15370	-.36405	-.73378	1.5497	-108.8	27.46	.27823
#3	.03364	-.06538	1.1221	3.3011	-98.35	58.19	.18865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89663-001 Acquired: 11/20/2015 19:11:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18640	-81.688	.33654	-.29834	.07175	.46331	.1722
Stddev	.07467	1.240	.07783	.96999	.53641	1.6973	.1961
%RSD	40.063	1.5179	23.125	325.13	747.65	366.34	113.8
#1	-.27131	-82.345	.42039	.00180	-.39550	2.0316	-.0481
#2	-.13095	-80.257	.32262	-1.3829	-.04676	.69702	.3274
#3	-.15693	-82.460	.26662	.48610	.65750	-1.3387	.2374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4368	-.23966	.93871
Stddev	.4449	.13220	.02014
%RSD	30.965	55.162	2.1453
#1	.94009	-.12264	.92431
#2	1.7987	-.38305	.93008
#3	1.5716	-.21328	.96172
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89663-001 Acquired: 11/20/2015 19:11:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29593.	16222.	423110.
Stddev	135.	32.	3882.
%RSD	.45726	.19943	.91745
#1	29735.	16192.	423980.
#2	29581.	16256.	426480.
#3	29465.	16219.	418860.

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Sample Name: QQ89663-002 Acquired: 11/20/2015 19:15:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.678	376.67	18.893	391.98	10.095	10587.	8.975
Stddev	.042	17.76	.136	.34	.081	31.	.164
%RSD	.22498	4.7154	.72068	.08643	.79955	.29047	1.830
#1	18.667	356.77	18.736	391.72	10.008	10564.	9.165
#2	18.643	382.29	18.970	392.36	10.109	10576.	8.891
#3	18.725	390.93	18.973	391.84	10.167	10622.	8.870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.007	20.106	48.572	207.50	10190.	10320.	30.470
Stddev	.205	.538	1.214	9.21	26.	44.	.288
%RSD	.22095	2.6737	2.4994	4.4397	.2568	.4242	.94452
#1	93.196	19.588	47.260	197.86	10160.	10360.	30.181
#2	93.038	20.068	49.656	208.43	10200.	10270.	30.474
#3	92.788	20.661	48.801	216.22	10210.	10340.	30.756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89663-002 Acquired: 11/20/2015 19:15:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16482	10526.	75.781	18.630	112.37	67.889	.2398
Stddev	.15235	41.	.168	1.028	.96	.613	.0644
%RSD	92.430	.38637	.22123	5.5190	.85826	.90273	26.85
#1	-.34071	10487.	75.809	18.993	111.80	68.441	.2115
#2	-.07423	10568.	75.932	19.426	113.49	67.230	.1943
#3	-.07953	10523.	75.601	17.469	111.84	67.997	.3134
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.447	95.421	115.08
Stddev	.657	1.046	.48
%RSD	1.4140	1.0964	.41383
#1	47.161	94.219	115.51
#2	46.310	96.130	115.14
#3	45.869	95.914	114.57
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89663-002 Acquired: 11/20/2015 19:15:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28676.	15860.	414960.
Stddev	110.	94.	3178.
%RSD	.38300	.59429	.76586
#1	28576.	15897.	418220.
#2	28659.	15753.	414790.
#3	28794.	15929.	411870.

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Sample Name: QK13011-001 Acquired: 11/20/2015 19:20:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04736	124290.	43.895	300.87	4.1570	25692.
Stddev	.02152	425.	1.687	.42	.0693	108.
%RSD	45.436	.34185	3.8423	.13844	1.6680	.42047
#1	-.04691	124700.	44.833	300.58	4.2370	25761.
#2	-.06910	124310.	41.948	300.67	4.1169	25748.
#3	-.02607	123850.	44.904	301.34	4.1170	25568.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.265	86.303	251.75	196.66	F 246700.	11040.
Stddev	.124	.647	3.22	2.57	1161.	44.
%RSD	2.905	.74964	1.2802	1.3046	.47065	.3999
#1	4.122	86.040	255.46	199.62	247530.	11010.
#2	4.332	85.829	249.68	195.23	247200.	11010.
#3	4.342	87.040	250.10	195.13	245370.	11090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001 Acquired: 11/20/2015 19:20:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66500.	2767.2	1.4607	1261.8	184.65	195.46
Stddev	350.	38.8	.1033	13.7	.38	2.53
%RSD	.5260	1.4037	7.0709	1.0887	.20822	1.2951
#1	66760.	2806.1	1.4689	1274.6	184.62	193.79
#2	66630.	2767.3	1.5596	1263.6	184.27	194.22
#3	66100.	2728.4	1.3535	1247.3	185.04	198.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.687	7.0261	722.2	3.7250	152.55	926.02
Stddev	2.192	2.6503	12.0	.5951	2.30	4.60
%RSD	10.105	37.720	1.664	15.976	1.5084	.49687
#1	19.199	8.6209	736.0	4.3346	155.21	923.45
#2	23.332	3.9668	716.1	3.6950	151.11	923.28
#3	22.528	8.4907	714.3	3.1455	151.34	931.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001 Acquired: 11/20/2015 19:20:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29591.	16872.	418310.
Stddev	153.	98.	5370.
%RSD	.51769	.57971	1.2837
#1	29641.	16766.	412160.
#2	29713.	16888.	422050.
#3	29419.	16960.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.28%	105.44%	101.30%
Range			

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Sample Name: QK13011-001L(5) Acquired: 11/20/2015 19:25:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19419	26309.	9.2709	63.180	.84857	5459.0	1.016
Stddev	.41361	1338.	.8304	3.674	.01871	281.0	.123
%RSD	212.99	5.0860	8.9566	5.8151	2.2044	5.1479	12.11
#1	-.23875	24829.	8.4625	59.246	.85417	5154.6	1.153
#2	-.58371	27432.	10.122	66.522	.82771	5708.5	.9161
#3	.23989	26666.	9.2285	63.773	.86384	5513.9	.9781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.567	54.423	41.709	52324.	2153.	14330.	605.99
Stddev	.109	.846	.357	2662.	149.	641.	6.62
%RSD	.58752	1.5541	.85508	5.0883	6.941	4.472	1.0917
#1	18.647	55.088	42.066	49415.	2031.	13630.	612.12
#2	18.443	53.471	41.710	54640.	2320.	14880.	598.97
#3	18.612	54.709	41.353	52916.	2108.	14480.	606.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001L(5) Acquired: 11/20/2015 19:25:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23879	187.45	39.664	43.683	4.2115	1.5661	153.8
Stddev	.17682	30.01	.285	.844	.6496	1.0380	2.0
%RSD	74.047	16.012	.71892	1.9328	15.425	66.284	1.294
#1	.06858	164.19	39.386	44.657	4.1826	1.5731	155.5
#2	.42154	221.33	39.956	43.150	4.8751	.52450	151.6
#3	.22625	176.83	39.650	43.243	3.5768	2.6005	154.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5673	32.790	197.75
Stddev	.4170	.633	.69
%RSD	26.609	1.9307	.34915
#1	1.6306	33.437	197.48
#2	1.1222	32.172	197.25
#3	1.9491	32.760	198.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001L(5) Acquired: 11/20/2015 19:25:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29109.	15852.	407660.
Stddev	70.	697.	2406.
%RSD	.23891	4.3939	.59014
#1	29164.	16629.	405390.
#2	29132.	15282.	410180.
#3	29031.	15647.	407410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.62%	99.068%	98.721%
Range			

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Sample Name: QK13011-001DU Acquired: 11/20/2015 19:30:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33796	111060.	50.273	310.74	4.2136	27298.
Stddev	.04043	227.	.425	1.52	.0827	73.
%RSD	11.962	.20482	.84570	.48891	1.9620	.26584
#1	-.36945	111200.	50.111	309.03	4.1192	27218.
#2	-.29237	110800.	50.756	311.25	4.2730	27317.
#3	-.35206	111180.	49.953	311.94	4.2485	27360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.206	77.732	272.23	216.09	F 219430.	11040.
Stddev	.033	.173	4.32	4.04	611.	32.
%RSD	.6363	.22248	1.5860	1.8691	.27835	.2932
#1	5.241	77.535	267.25	211.43	218760.	11010.
#2	5.175	77.858	274.66	218.13	219570.	11050.
#3	5.202	77.802	274.79	218.69	219960.	11070.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001DU Acquired: 11/20/2015 19:30:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54970.	2616.6	1.5259	1317.3	174.26	317.26
Stddev	78.	40.0	.1971	6.9	.09	2.17
%RSD	.1423	1.5288	12.918	.52412	.05276	.68253
#1	54890.	2577.0	1.7265	1312.6	174.30	318.72
#2	55050.	2657.0	1.5186	1325.2	174.32	314.77
#3	54960.	2615.6	1.3325	1314.1	174.15	318.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.655	6.1130	733.5	4.1361	146.75	979.89
Stddev	1.881	.2124	12.7	1.4643	2.64	1.86
%RSD	7.0579	3.4747	1.729	35.403	1.8004	.18934
#1	25.041	5.9831	718.9	3.6876	143.72	980.21
#2	26.203	6.3581	740.4	5.7721	148.54	977.90
#3	28.721	5.9977	741.3	2.9484	148.00	981.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001DU Acquired: 11/20/2015 19:30:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29620.	16917.	415710.
Stddev	199.	47.	5911.
%RSD	.67338	.28062	1.4220
#1	29390.	16886.	422530.
#2	29750.	16894.	412390.
#3	29718.	16972.	412200.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.38%	105.72%	100.67%
Range			

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Sample Name: QK13011-001MS Acquired: 11/20/2015 19:35:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.973	102040.	113.76	3921.5	105.95	17549.
Stddev	.586	420.	.74	10.7	.85	54.
%RSD	.66563	.41136	.65365	.27185	.80670	.30518
#1	87.381	101910.	113.52	3920.9	105.04	17534.
#2	87.985	101710.	114.59	3911.2	106.09	17505.
#3	88.552	102510.	113.16	3932.5	106.73	17609.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88.09	923.63	598.96	644.54	F 183060.	11200.
Stddev	.13	1.06	6.18	4.59	566.	13.
%RSD	.1507	.11438	1.0320	.71225	.30905	.1187
#1	88.05	924.10	592.41	639.43	182940.	11210.
#2	87.99	922.42	599.76	645.88	182560.	11190.
#3	88.24	924.37	604.70	648.31	183680.	11200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001MS Acquired: 11/20/2015 19:35:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49380.	3117.9	1.0768	1047.4	1017.9	187.52
Stddev	197.	4.7	.4531	6.1	1.9	1.53
%RSD	.3993	.14927	42.077	.58649	.19007	.81466
#1	49280.	3114.7	1.5982	1044.5	1019.1	189.15
#2	49240.	3115.7	.85260	1043.2	1015.7	187.27
#3	49600.	3123.2	.77946	1054.5	1018.9	186.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.778	181.33	585.7	87.403	1024.2	1725.8
Stddev	1.961	1.03	3.8	.396	8.1	3.3
%RSD	3.3368	.56902	.6522	.45259	.79129	.18974
#1	58.959	182.00	581.9	87.092	1015.4	1727.3
#2	56.733	181.86	585.7	87.268	1025.9	1722.0
#3	60.643	180.15	589.5	87.848	1031.3	1728.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001MS Acquired: 11/20/2015 19:35:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30158.	17157.	421100.
Stddev	166.	273.	4474.
%RSD	.55175	1.5896	1.0624
#1	29975.	17193.	426260.
#2	30300.	17409.	418310.
#3	30199.	16867.	418740.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.24%	107.22%	101.98%
Range			

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Sample Name: QK13011-001A Acquired: 11/20/2015 19:39:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.653	122250.	61.262	656.07	14.271	34458.
Stddev	.509	168.	1.028	2.54	.349	117.
%RSD	2.8824	.13761	1.6779	.38692	2.4476	.33832
#1	17.077	122130.	62.143	653.19	14.068	34325.
#2	17.837	122450.	61.510	657.04	14.071	34544.
#3	18.043	122180.	60.132	657.98	14.674	34504.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.76	169.74	270.19	243.25	F 238740.	20650.
Stddev	.05	.35	6.06	5.36	759.	106.
%RSD	.4047	.20723	2.2440	2.2027	.31802	.5148
#1	12.82	169.86	266.71	240.31	237870.	20620.
#2	12.72	169.35	266.66	240.01	239150.	20770.
#3	12.75	170.02	277.19	249.44	239210.	20570.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-001A Acquired: 11/20/2015 19:39:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73080.	2785.5	1.6225	11113.	251.96	207.98
Stddev	228.	47.0	.2722	40.	.64	1.02
%RSD	.3119	1.6885	16.775	.36419	.25481	.49218
#1	72810.	2753.9	1.9311	11068.	251.59	209.16
#2	73190.	2762.9	1.5197	11125.	251.59	207.37
#3	73230.	2839.5	1.4166	11146.	252.70	207.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125.95	70.861	712.2	42.788	242.44	1015.7
Stddev	.93	2.367	15.2	1.027	5.28	2.5
%RSD	.73884	3.3405	2.137	2.4001	2.1782	.24267
#1	126.22	68.229	701.6	43.744	238.84	1014.7
#2	124.91	71.538	705.3	42.918	239.97	1014.0
#3	126.71	72.815	729.6	41.703	248.50	1018.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-001A Acquired: 11/20/2015 19:39:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29434.	16872.	412080.
Stddev	34.	35.	6929.
%RSD	.11481	.20595	1.6816
#1	29414.	16867.	417000.
#2	29414.	16909.	415070.
#3	29473.	16841.	404150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	105.44%	99.791%
Range			

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Sample Name: QK13011-002 Acquired: 11/20/2015 19:44:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34013	106500.	38.139	265.65	4.3863	18474.
Stddev	.36483	196.	1.587	.50	.1076	55.
%RSD	107.26	.18412	4.1602	.18982	2.4524	.29986
#1	-.63610	106460.	37.327	265.74	4.3578	18481.
#2	.06747	106320.	39.967	265.11	4.5053	18415.
#3	-.45176	106710.	37.122	266.11	4.2959	18524.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7638	81.183	155.72	118.46	F 216650.	13440.
Stddev	.1535	.181	3.58	2.36	754.	98.
%RSD	20.10	.22337	2.2966	1.9957	.34820	.7266
#1	.9245	81.225	154.09	117.76	216740.	13500.
#2	.6185	81.340	159.82	121.10	215860.	13330.
#3	.7483	80.985	153.25	116.53	217360.	13500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-002 Acquired: 11/20/2015 19:44:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50060.	2705.1	1.6009	2656.2	171.89	82.666
Stddev	174.	57.9	.0511	9.3	.29	1.704
%RSD	.3482	2.1400	3.1941	.35089	.16788	2.0619
#1	50070.	2670.3	1.5422	2649.7	172.22	84.436
#2	49880.	2771.9	1.6356	2652.0	171.71	81.036
#3	50230.	2673.1	1.6248	2666.9	171.73	82.526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4483	7.3931	1122.	3.7901	155.99	532.98
Stddev	1.5649	2.1968	28.	.9061	3.56	.37
%RSD	108.05	29.714	2.486	23.907	2.2849	.06997
#1	3.0534	4.8567	1113.	2.8917	154.97	533.37
#2	1.3645	8.6908	1153.	4.7037	159.95	532.94
#3	-.07299	8.6317	1100.	3.7749	153.04	532.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-002 Acquired: 11/20/2015 19:44:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29886.	16819.	413270.
Stddev	84.	175.	9407.
%RSD	.28170	1.0393	2.2763
#1	29831.	17001.	417290.
#2	29844.	16803.	402520.
#3	29983.	16653.	420000.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.30%	105.11%	100.08%
Range			

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Sample Name: QK13011-003 Acquired: 11/20/2015 19:49:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25893	121540.	31.117	275.34	3.9571	15158.
Stddev	.05297	190.	.401	.90	.1774	32.
%RSD	20.456	.15640	1.2902	.32830	4.4830	.20915
#1	-.26802	121520.	30.654	275.43	3.9639	15122.
#2	-.30677	121740.	31.371	276.19	4.1310	15168.
#3	-.20201	121370.	31.325	274.39	3.7764	15183.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.199	74.999	162.50	132.87	F 223870.	13120.
Stddev	.171	.728	7.27	5.79	391.	41.
%RSD	14.27	.97102	4.4766	4.3568	.17484	.3113
#1	1.359	74.452	162.01	132.67	223520.	13170.
#2	1.019	74.720	170.00	138.76	223790.	13110.
#3	1.218	75.826	155.48	127.19	224290.	13090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-003 Acquired: 11/20/2015 19:49:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54170.	2366.7	1.4592	1459.8	176.54	80.609
Stddev	214.	122.4	.0848	20.9	1.59	1.197
%RSD	.3955	5.1736	5.8149	1.4325	.90187	1.4845
#1	53940.	2333.3	1.4886	1483.7	175.41	81.471
#2	54200.	2502.4	1.5255	1450.9	175.86	79.243
#3	54360.	2264.5	1.3636	1444.9	178.36	81.113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8279	6.9782	797.2	2.9323	145.62	609.30
Stddev	.5852	2.1502	35.1	.1606	6.35	5.41
%RSD	20.694	30.813	4.398	5.4788	4.3613	.88807
#1	3.4763	9.1556	797.1	2.7515	146.08	605.59
#2	2.6683	6.9229	832.3	2.9867	151.73	606.80
#3	2.3391	4.8562	762.2	3.0587	139.06	615.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-003 Acquired: 11/20/2015 19:49:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29274.	16547.	410080.
Stddev	186.	336.	18059.
%RSD	.63431	2.0282	4.4039
#1	29446.	16164.	409020.
#2	29298.	16792.	392570.
#3	29077.	16684.	428640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.19%	103.41%	99.307%
Range			

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Sample Name: QK13011-004 Acquired: 11/20/2015 19:54:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.59360	109220.	33.311	402.12	4.7885	20130.
Stddev	.14074	270.	1.464	.95	.0491	51.
%RSD	23.709	.24710	4.3935	.23523	1.0248	.25362
#1	-.69096	108970.	34.272	401.27	4.7331	20088.
#2	-.65760	109200.	31.627	403.14	4.8265	20115.
#3	-.43223	109510.	34.035	401.96	4.8060	20187.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.170	76.638	151.36	121.57	F 182730.	13750.
Stddev	.059	.400	1.05	1.17	444.	47.
%RSD	4.999	.52172	.69526	.95870	.24291	.3401
#1	1.156	76.547	150.15	120.38	182290.	13750.
#2	1.120	76.292	152.09	122.71	182710.	13700.
#3	1.234	77.076	151.83	121.63	183180.	13790.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-004 Acquired: 11/20/2015 19:54:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39030.	2740.6	2.3831	1110.0	164.97	86.066
Stddev	128.	21.5	.0362	17.0	.61	.799
%RSD	.3289	.78472	1.5182	1.5290	.36959	.92856
#1	39030.	2730.1	2.3843	1090.4	164.40	85.777
#2	38900.	2726.4	2.3464	1120.4	164.90	85.451
#3	39160.	2765.4	2.4187	1119.1	165.61	86.969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72775	7.8474	986.0	2.9404	157.91	513.02
Stddev	1.7654	1.5392	9.4	1.0477	1.39	2.34
%RSD	242.59	19.614	.9498	35.633	.87877	.45629
#1	-1.3107	7.0119	975.2	3.5390	156.31	511.87
#2	1.7641	9.6236	992.1	1.7306	158.82	511.47
#3	1.7299	6.9066	990.6	3.5516	158.59	515.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-004 Acquired: 11/20/2015 19:54:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30520.	17218.	430130.
Stddev	308.	129.	2803.
%RSD	1.0094	.74965	.65156
#1	30748.	17127.	433120.
#2	30644.	17365.	427560.
#3	30170.	17161.	429730.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.49%	107.60%	104.16%
Range			

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Sample Name: QK13011-005 Acquired: 11/20/2015 19:59:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37710	116970.	35.919	383.79	5.1858	17742.
Stddev	.47630	282.	.769	.31	.0978	45.
%RSD	126.31	.24077	2.1418	.08172	1.8862	.25319
#1	-.52512	116700.	35.041	383.76	5.2798	17698.
#2	-.76182	116960.	36.242	384.12	5.1931	17742.
#3	.15564	117260.	36.475	383.49	5.0846	17787.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.060	81.779	160.42	127.85	F 201880.	14830.
Stddev	.125	.209	2.60	2.24	597.	94.
%RSD	11.77	.25517	1.6201	1.7496	.29589	.6303
#1	1.069	81.552	163.06	129.66	201250.	14820.
#2	1.180	81.962	160.33	128.54	201940.	14740.
#3	.9310	81.824	157.87	125.35	202440.	14930.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-005 Acquired: 11/20/2015 19:59:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42360.	2574.1	2.0544	1247.2	175.22	80.841
Stddev	191.	49.7	.4324	13.9	.42	1.434
%RSD	.4519	1.9303	21.046	1.1158	.23934	1.7737
#1	42170.	2623.8	2.5234	1231.7	174.81	81.147
#2	42360.	2574.1	1.9684	1258.7	175.64	82.097
#3	42550.	2524.4	1.6716	1251.0	175.21	79.279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00835	7.4920	1034.	2.5679	167.92	520.89
Stddev	1.8572	2.6423	19.	1.1288	2.93	.34
%RSD	22235.	35.268	1.836	43.958	1.7456	.06605
#1	-1.7078	7.3071	1051.	3.8660	170.62	520.53
#2	1.9742	10.222	1038.	1.8174	168.32	521.22
#3	-.29138	4.9470	1013.	2.0202	164.80	520.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-005 Acquired: 11/20/2015 19:59:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30832.	17397.	434030.
Stddev	52.	203.	6451.
%RSD	.16980	1.1671	1.4864
#1	30892.	17373.	428410.
#2	30796.	17611.	432600.
#3	30807.	17207.	441070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.57%	108.72%	105.11%
Range			

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Sample Name: QK13011-006 Acquired: 11/20/2015 20:04:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.83495	117400.	38.237	409.63	5.2236	20540.
Stddev	.09559	706.	.771	.83	.0935	83.
%RSD	11.448	.60145	2.0151	.20233	1.7904	.40532
#1	-.83254	116580.	37.522	409.03	5.1845	20454.
#2	-.74059	117830.	38.137	409.30	5.1560	20544.
#3	-.93172	117780.	39.053	410.58	5.3304	20621.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.353	79.931	169.29	128.07	F 203570.	15320.
Stddev	.214	.340	2.62	2.59	789.	71.
%RSD	15.85	.42528	1.5453	2.0190	.38749	.4644
#1	1.395	80.187	168.55	127.45	202690.	15240.
#2	1.121	79.546	167.12	125.86	203830.	15330.
#3	1.543	80.062	172.20	130.91	204210.	15380.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-006 Acquired: 11/20/2015 20:04:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41140.	2781.5	2.4103	1217.5	169.73	81.796
Stddev	226.	109.9	.1637	15.3	.80	1.264
%RSD	.5492	3.9509	6.7931	1.2560	.47428	1.5452
#1	40900.	2762.1	2.5044	1199.9	170.57	83.046
#2	41150.	2682.6	2.5052	1227.8	168.96	81.822
#3	41350.	2899.8	2.2212	1224.7	169.65	80.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03175	7.3663	1226.	1.3136	173.88	531.45
Stddev	.83027	.5224	23.	.6327	3.19	1.20
%RSD	2615.3	7.0921	1.871	48.168	1.8326	.22640
#1	-.90507	6.9069	1219.	1.7397	172.54	532.24
#2	.74744	7.2573	1208.	1.6145	171.58	530.06
#3	.06238	7.9346	1252.	.58656	177.52	532.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-006 Acquired: 11/20/2015 20:04:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30195.	16902.	420080.
Stddev	135.	231.	7432.
%RSD	.44692	1.3683	1.7692
#1	30072.	17131.	422600.
#2	30339.	16907.	425930.
#3	30175.	16668.	411720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.37%	105.63%	101.73%
Range			

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Sample Name: QK13011-007 Acquired: 11/20/2015 20:09:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22223	125700.	41.347	571.34	5.4080	21916.
Stddev	.30698	347.	.949	2.93	.1411	83.
%RSD	138.13	.27628	2.2958	.51246	2.6084	.37760
#1	-.57649	125500.	40.376	568.91	5.5198	21880.
#2	-.03459	125490.	42.273	570.52	5.4547	21857.
#3	-.05561	126100.	41.393	574.59	5.2495	22011.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.031	71.613	152.80	155.55	F 176620.	15020.
Stddev	.130	.373	4.20	3.06	823.	71.
%RSD	12.62	.52130	2.7464	1.9686	.46589	.4725
#1	.9343	71.959	156.18	158.64	176300.	14980.
#2	1.179	71.664	154.11	155.49	176000.	14990.
#3	.9789	71.217	148.10	152.52	177550.	15110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-007 Acquired: 11/20/2015 20:09:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38640.	2737.1	2.9115	1033.4	159.63	306.77
Stddev	268.	55.0	.2614	22.4	.73	1.85
%RSD	.6929	2.0104	8.9770	2.1633	.45942	.60378
#1	38710.	2794.9	3.0625	1020.9	160.48	308.67
#2	38340.	2731.0	2.6097	1020.0	159.25	306.67
#3	38860.	2685.4	3.0623	1059.2	159.17	304.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8734	7.0447	733.5	2.8183	165.78	530.30
Stddev	.5019	.8680	17.6	.8894	3.90	1.14
%RSD	17.468	12.321	2.402	31.559	2.3535	.21534
#1	3.0903	7.2682	749.8	3.5473	169.18	531.53
#2	2.2995	7.7791	735.9	1.8273	166.66	530.10
#3	3.2305	6.0869	714.8	3.0801	161.52	529.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-007 Acquired: 11/20/2015 20:09:01 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30738.	16657.	426270.
Stddev	131.	32.	9318.
%RSD	.42638	.19457	2.1858
#1	30663.	16653.	418370.
#2	30889.	16627.	423900.
#3	30662.	16691.	436540.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.25%	104.10%	103.23%
Range			

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Sample Name: QK13011-008 Acquired: 11/20/2015 20:13:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50319	98350.	34.892	363.59	4.3220	19142.
Stddev	.20552	597.	.708	2.89	.0381	119.
%RSD	40.844	.60752	2.0300	.79380	.88233	.62162
#1	-.70917	98202.	35.571	363.68	4.2804	19135.
#2	-.50229	99008.	34.948	366.42	4.3553	19264.
#3	-.29812	97841.	34.158	360.65	4.3303	19026.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.033	66.677	138.44	105.69	F 221160.	12660.
Stddev	.199	.190	1.76	1.58	1771.	52.
%RSD	19.27	.28486	1.2745	1.4979	.80068	.4069
#1	1.182	66.530	136.66	104.44	220680.	12680.
#2	.8069	66.610	140.19	107.47	223120.	12710.
#3	1.111	66.891	138.46	105.16	219680.	12610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-008 Acquired: 11/20/2015 20:13:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35100.	2164.8	2.4774	1218.6	142.76	71.472
Stddev	188.	34.9	.3282	9.9	.24	.605
%RSD	.5361	1.6118	13.248	.81076	.16504	.84655
#1	35050.	2144.2	2.8342	1222.3	142.68	71.078
#2	35310.	2205.1	2.4095	1207.4	142.57	71.169
#3	34950.	2145.2	2.1884	1226.1	143.02	72.169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6906	6.7290	986.5	4.2113	143.49	462.46
Stddev	1.9846	1.1682	12.1	.9347	1.99	.57
%RSD	117.39	17.361	1.226	22.196	1.3866	.12291
#1	.56437	6.8403	975.5	3.2144	141.92	462.54
#2	.52522	5.5091	999.5	4.3514	145.73	461.85
#3	3.9821	7.8376	984.4	5.0680	142.83	462.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-008 Acquired: 11/20/2015 20:13:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30961.	16970.	433800.
Stddev	86.	64.	6910.
%RSD	.27763	.37649	1.5930
#1	30895.	16993.	440780.
#2	30930.	16898.	426970.
#3	31058.	17019.	433640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	107.02%	106.05%	105.05%
Range			

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Sample Name: QK13011-009 Acquired: 11/20/2015 20:18:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47251	118680.	30.704	466.82	5.3419	20299.
Stddev	.28886	551.	.793	2.50	.0897	33.
%RSD	61.133	.46444	2.5815	.53642	1.6802	.16321
#1	-.74059	118260.	30.079	464.07	5.2898	20276.
#2	-.16660	118470.	31.595	467.42	5.2903	20284.
#3	-.51035	119300.	30.437	468.98	5.4455	20337.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9883	73.981	156.74	129.96	F 181320.	14800.
Stddev	.0947	.152	2.36	1.45	448.	135.
%RSD	9.578	.20523	1.5039	1.1136	.24701	.9114
#1	.9903	74.152	155.98	129.35	180880.	14650.
#2	.8927	73.927	154.85	128.92	181300.	14850.
#3	1.082	73.863	159.38	131.62	181770.	14900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-009 Acquired: 11/20/2015 20:18:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38370.	2585.3	1.9865	1212.8	165.54	87.220
Stddev	74.	37.4	.0924	17.7	.53	1.870
%RSD	.1917	1.4457	4.6493	1.4600	.32193	2.1443
#1	38460.	2542.4	2.0580	1201.2	165.82	85.063
#2	38330.	2603.2	1.8822	1203.9	165.88	88.210
#3	38340.	2610.4	2.0193	1233.2	164.93	88.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.4808	5.0329	904.9	2.1465	166.19	531.81
Stddev	1.1120	.6076	12.4	.4721	2.20	.36
%RSD	75.090	12.072	1.373	21.995	1.3212	.06814
#1	-2.7291	4.3314	899.6	1.6197	165.55	532.23
#2	-1.1170	5.3881	896.1	2.5313	164.38	531.61
#3	-.59636	5.3793	919.1	2.2887	168.63	531.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-009 Acquired: 11/20/2015 20:18:43 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30821.	17154.	428470.
Stddev	135.	228.	7347.
%RSD	.43822	1.3293	1.7146
#1	30667.	17375.	431760.
#2	30918.	17168.	433590.
#3	30878.	16920.	420050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	106.53%	107.20%	103.76%
Range			

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Sample Name: QK13011-010 Acquired: 11/20/2015 20:23:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34223	63489.	30.645	334.26	2.7078	30319.	10.94
Stddev	.75948	87.	.298	1.08	.0388	66.	.01
%RSD	221.92	.13778	.97353	.32231	1.4346	.21911	.1068
#1	.02668	63434.	30.301	333.32	2.7477	30286.	10.95
#2	1.2086	63442.	30.826	334.03	2.7054	30275.	10.93
#3	-.20861	63589.	30.809	335.44	2.6702	30395.	10.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65.790	228.46	332.21	100930.	7898.	29240.	1452.9
Stddev	.110	2.66	4.59	401.	36.	54.	20.0
%RSD	.16778	1.1633	1.3816	.39725	.4546	.1840	1.3735
#1	65.662	230.21	334.91	100690.	7867.	29300.	1465.5
#2	65.855	229.78	334.81	100720.	7890.	29190.	1463.3
#3	65.852	225.40	326.91	101400.	7937.	29230.	1429.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-010 Acquired: 11/20/2015 20:23:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9769	696.50	134.78	402.23	4.2441	6.2387	317.4
Stddev	.3932	12.78	.38	1.85	1.5471	1.1120	3.8
%RSD	19.888	1.8344	.28265	.45945	36.452	17.825	1.200
#1	1.5460	708.48	134.36	400.20	5.4340	5.2151	320.0
#2	2.3160	697.96	134.89	402.67	4.8031	7.4220	319.3
#3	2.0688	683.05	135.10	403.82	2.4953	6.0789	313.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0123	103.68	1421.7
Stddev	.1867	1.61	2.6
%RSD	9.2767	1.5566	.18498
#1	2.2277	104.48	1419.5
#2	1.9128	104.73	1420.9
#3	1.8966	101.82	1424.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-010 Acquired: 11/20/2015 20:23:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC784

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29759.	16583.	418290.
Stddev	85.	166.	7014.
%RSD	.28638	1.0008	1.6769
#1	29823.	16393.	413890.
#2	29662.	16663.	414590.
#3	29793.	16695.	426380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.86%	103.64%	101.30%
Range			

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Sample Name: CCV006 Acquired: 11/20/2015 20:28:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	717.03	51749.	2514.3	10094.	1087.3	52639.	955.3
Stddev	1.87	104.	4.1	220.	15.0	122.	2.2
%RSD	.26113	.20140	.16451	2.1802	1.3836	.23153	.2348
#1	716.52	51834.	2516.8	9921.0	1069.9	52499.	957.8
#2	719.11	51633.	2516.6	10342.	1096.7	52701.	954.5
#3	715.47	51780.	2509.5	10020.	1095.1	52718.	953.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4671.6	9946.6	12616.	25530.	39410.	49010.	5016.1
Stddev	5.4	117.1	84.	93.	83.	166.	53.6
%RSD	.11611	1.1769	.66507	.36358	.2111	.3383	1.0676
#1	4677.9	9812.2	12535.	25441.	39350.	48830.	5040.5
#2	4669.0	10026.	12703.	25626.	39390.	49160.	5053.2
#3	4668.0	10001.	12610.	25523.	39510.	49030.	4954.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV006 Acquired: 11/20/2015 20:28:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	984.95	26017.	4853.0	9301.3	2442.1	1266.5	996.4
Stddev	1.74	72.	2.4	12.6	5.1	2.5	3.9
%RSD	.17656	.27493	.04908	.13570	.21080	.20077	.3870
#1	986.79	25955.	4855.7	9314.1	2447.6	1265.9	994.3
#2	983.34	26002.	4851.4	9288.9	2441.3	1269.3	1001.
#3	984.71	26095.	4851.9	9300.9	2437.4	1264.3	994.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F 887.82	2478.5	4852.2
Stddev	2.48	9.8	4.8
%RSD	.27886	.39625	.09954
#1	889.96	2472.5	4857.2
#2	885.11	2489.8	4847.5
#3	888.41	2473.1	4852.0
Check ?	Chk Fail	Chk Pass	Chk Pass
Value	1000.0		
Range	-10.000%		

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Sample Name: CCV006 Acquired: 11/20/2015 20:28:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27283.	15610.	395410.
Stddev	115.	162.	2476.
%RSD	.42019	1.0374	.62624
#1	27157.	15746.	397430.
#2	27382.	15430.	392650.
#3	27310.	15653.	396150.

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Sample Name: CCB006 Acquired: 11/20/2015 20:33:42 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12185	-64.079	.36798	.66808	-.05666	.75729	.1226
Stddev	.54499	91.487	.76842	.17270	.01485	2.8969	.0207
%RSD	447.26	142.77	208.82	25.850	26.215	382.54	16.87
#1	.66321	-12.100	.18976	.83566	-.04276	-.54035	.1410
#2	.12904	-169.72	1.2099	.67789	-.05492	-1.2639	.1002
#3	-.42670	-10.422	-.29568	.49068	-.07232	4.0762	.1265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01788	-.01300	.25333	-1.9162	-95.22	17.45	.13154
Stddev	.10199	.14356	.43876	2.8743	23.34	29.18	.02597
%RSD	570.58	1104.5	173.19	150.00	24.51	167.3	19.743
#1	-.09121	-.13565	.53820	1.3524	-76.75	35.37	.16058
#2	-.06102	-.04825	-.25193	-3.0513	-121.4	33.20	.12349
#3	.09860	.14491	.47374	-4.0497	-87.44	-16.23	.11054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB006 Acquired: 11/20/2015 20:33:42 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10122	-101.25	.37051	.85677	-.38854	-.54846	-.2583
Stddev	.01307	12.50	.26890	.27826	.79050	1.7665	.2004
%RSD	12.912	12.341	72.576	32.478	203.45	322.09	77.55
#1	.11620	-105.33	.45113	1.0420	-1.1173	.72748	-.0542
#2	.09221	-87.223	.58989	.99152	.45183	.19184	-.4546
#3	.09523	-111.19	.07052	.53679	-.50016	-2.5647	-.2662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1018	.17493	-.12665
Stddev	.0218	.31785	.02379
%RSD	1.9773	181.70	18.782
#1	1.0867	.46260	-.15370
#2	1.1267	.22848	-.11729
#3	1.0919	-.16629	-.10897
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB006 Acquired: 11/20/2015 20:33:42 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28935.	15415.	413400.
Stddev	143.	11.	3432.
%RSD	.49490	.07295	.83026
#1	29100.	15427.	416530.
#2	28842.	15405.	409730.
#3	28863.	15414.	413940.

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Sample Name: QK13011-011 Acquired: 11/20/2015 20:38:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29382	103450.	47.311	395.71	3.6787	13865.
Stddev	.16197	581.	.441	2.03	.0095	59.
%RSD	55.128	.56121	.93115	.51406	.25747	.42388
#1	-.25609	102780.	47.687	393.37	3.6860	13808.
#2	-.15403	103780.	47.419	396.72	3.6822	13925.
#3	-.47132	103790.	46.826	397.03	3.6680	13861.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.032	64.109	272.02	158.03	F 162650.	9082.
Stddev	.128	.145	1.25	1.07	691.	26.
%RSD	12.40	.22583	.45854	.67783	.42494	.2877
#1	1.163	64.053	273.41	158.90	161960.	9053.
#2	.9070	64.000	271.63	158.35	163340.	9092.
#3	1.027	64.273	271.01	156.84	162650.	9102.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-011 Acquired: 11/20/2015 20:38:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39100.	1824.1	2.2245	680.64	133.55	253.40
Stddev	180.	25.9	.0692	13.67	.37	1.89
%RSD	.4601	1.4220	3.1097	2.0078	.27664	.74601
#1	38920.	1853.9	2.1555	667.42	133.93	254.53
#2	39280.	1811.1	2.2241	694.72	133.20	251.22
#3	39080.	1807.1	2.2938	679.79	133.52	254.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3944	8.4874	398.1	2.7651	110.34	504.84
Stddev	1.9392	1.4638	2.2	.8765	.27	1.05
%RSD	57.130	17.247	.5484	31.699	.24680	.20791
#1	4.7847	7.6674	400.3	3.3239	110.45	505.62
#2	4.2193	7.6172	398.0	1.7549	110.54	503.65
#3	1.1791	10.177	396.0	3.2166	110.03	505.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-011 Acquired: 11/20/2015 20:38:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30008.	16580.	423850.
Stddev	175.	160.	3280.
%RSD	.58445	.96705	.77377
#1	30028.	16412.	420130.
#2	30172.	16596.	425080.
#3	29823.	16731.	426330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.72%	103.61%	102.64%
Range			

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Sample Name: QK13011-012 Acquired: 11/20/2015 20:43:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43986	106500.	160.87	401.92	3.9881	22159.
Stddev	.23405	616.	1.29	2.27	.0550	106.
%RSD	53.211	.57849	.80059	.56565	1.3796	.47770
#1	.36932	105870.	159.94	399.81	3.9260	22036.
#2	.24919	107100.	162.34	404.33	4.0309	22218.
#3	.70108	106540.	160.34	401.63	4.0073	22221.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77.08	87.941	3937.2	846.62	F 199580.	7798.
Stddev	.10	.068	51.2	12.27	795.	34.
%RSD	.1313	.07747	1.2992	1.4493	.39812	.4378
#1	77.15	87.902	3879.1	832.94	198660.	7777.
#2	76.97	87.901	3975.4	856.66	200070.	7837.
#3	77.12	88.019	3957.2	850.26	200000.	7780.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-012 Acquired: 11/20/2015 20:43:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49490.	2082.1	2.3937	703.28	176.03	1465.2
Stddev	346.	18.6	.0575	11.18	.27	2.9
%RSD	.6989	.89407	2.4022	1.5897	.15371	.19840
#1	49090.	2066.2	2.4586	693.10	175.97	1464.1
#2	49680.	2077.5	2.3732	701.50	175.79	1463.0
#3	49700.	2102.6	2.3492	715.24	176.33	1468.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108.71	8.3450	386.8	5.5099	124.74	6829.8
Stddev	1.88	2.6973	6.6	1.0756	2.05	12.3
%RSD	1.7249	32.323	1.707	19.522	1.6458	.17966
#1	107.04	11.459	379.3	6.5916	122.39	6823.3
#2	110.74	6.8408	391.7	5.4977	125.71	6822.0
#3	108.35	6.7351	389.3	4.4404	126.13	6843.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-012 Acquired: 11/20/2015 20:43:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29132.	16063.	416330.
Stddev	67.	339.	3692.
%RSD	.22831	2.1112	.88672
#1	29070.	16450.	420270.
#2	29203.	15921.	412950.
#3	29123.	15817.	415780.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.70%	100.38%	100.82%
Range			

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Sample Name: QK13011-013 Acquired: 11/20/2015 20:48:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05076	115340.	83.887	517.92	4.4809	19444.
Stddev	.51675	183.	.908	1.66	.0529	47.
%RSD	1018.0	.15885	1.0830	.31976	1.1810	.24362
#1	.12886	115550.	84.158	519.15	4.4859	19484.
#2	.52402	115250.	82.874	518.56	4.5311	19458.
#3	-.50060	115230.	84.630	516.04	4.4256	19392.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.761	72.878	847.34	419.73	F 168600.	10800.
Stddev	.221	.188	7.66	4.07	458.	83.
%RSD	8.017	.25856	.90379	.96858	.27189	.7710
#1	2.568	73.016	847.67	419.85	169060.	10880.
#2	3.003	72.954	854.82	423.74	168580.	10800.
#3	2.712	72.663	839.52	415.61	168150.	10720.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-013 Acquired: 11/20/2015 20:48:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40550.	2039.7	2.8829	741.44	155.26	1065.3
Stddev	177.	5.9	.1333	6.88	.25	2.2
%RSD	.4361	.28794	4.6237	.92752	.15924	.21025
#1	40730.	2043.5	2.7292	733.67	155.05	1067.7
#2	40530.	2032.9	2.9525	743.91	155.20	1065.1
#3	40380.	2042.6	2.9669	746.75	155.53	1063.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1853	8.7253	444.3	3.9080	132.55	722.49
Stddev	2.0324	.9736	3.9	.7763	1.18	.60
%RSD	92.999	11.159	.8850	19.865	.88752	.08239
#1	3.4783	9.2902	445.4	4.6571	132.57	723.06
#2	3.2349	7.6011	447.6	3.1070	133.71	722.54
#3	-.15721	9.2847	440.0	3.9598	131.36	721.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-013 Acquired: 11/20/2015 20:48:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29932.	16513.	422890.
Stddev	106.	61.	3591.
%RSD	.35378	.37167	.84920
#1	30039.	16465.	423230.
#2	29930.	16491.	419140.
#3	29827.	16582.	426290.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.46%	103.20%	102.41%
Range			

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Sample Name: QK13011-014 Acquired: 11/20/2015 20:53:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29295	95194.	20.565	243.59	2.9796	11071.
Stddev	.07519	1203.	1.943	2.12	.0619	105.
%RSD	25.668	1.2635	9.4474	.87101	2.0792	.94450
#1	-.35481	96524.	22.345	245.97	2.9253	11191.
#2	-.31478	94877.	18.492	242.91	2.9663	11024.
#3	-.20925	94182.	20.859	241.89	3.0471	10999.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2866	64.028	107.07	71.627	F 175780.	7982.
Stddev	.0660	.098	1.50	1.029	1888.	76.
%RSD	23.05	.15227	1.3981	1.4366	1.0740	.9557
#1	.2773	63.961	105.72	70.696	177960.	8069.
#2	.3568	64.140	106.80	71.454	174710.	7950.
#3	.2256	63.984	108.68	72.732	174670.	7927.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-014 Acquired: 11/20/2015 20:53:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44220.	1727.2	1.2356	437.22	133.79	50.412
Stddev	400.	19.8	.2116	9.05	.46	.501
%RSD	.9038	1.1458	17.126	2.0703	.34134	.99306
#1	44680.	1705.4	1.4712	427.06	134.31	49.834
#2	43950.	1732.2	1.0618	440.17	133.44	50.691
#3	44040.	1744.0	1.1736	444.43	133.63	50.712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.97939	5.2112	286.5	4.0300	97.645	430.67
Stddev	1.9835	.7132	3.5	.1774	1.397	1.21
%RSD	202.52	13.685	1.214	4.4030	1.4302	.28027
#1	1.2791	4.7503	282.9	4.0051	96.103	431.98
#2	-1.1369	6.0327	286.6	3.8664	98.006	430.42
#3	2.7960	4.8508	289.9	4.2186	98.825	429.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-014 Acquired: 11/20/2015 20:53:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29232.	15969.	405600.
Stddev	65.	135.	6778.
%RSD	.22204	.84706	1.6711
#1	29194.	15819.	413420.
#2	29195.	16082.	401830.
#3	29307.	16005.	401540.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	99.795%	98.223%
Range			

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Sample Name: QK13011-015 Acquired: 11/20/2015 20:57:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18822	103450.	30.356	389.64	3.9081	14738.
Stddev	.14759	639.	2.061	2.49	.0845	90.
%RSD	78.413	.61757	6.7898	.63955	2.1617	.60836
#1	-.35855	102990.	29.492	387.39	3.8130	14648.
#2	-.09793	103190.	28.867	389.22	3.9368	14739.
#3	-.10820	104180.	32.708	392.32	3.9744	14827.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8132	65.780	138.51	128.97	F 160600.	9332.
Stddev	.1599	.086	2.63	2.80	858.	65.
%RSD	19.66	.13001	1.8975	2.1719	.53419	.6927
#1	.6476	65.801	135.48	125.74	159680.	9267.
#2	.8255	65.852	140.24	130.70	160720.	9334.
#3	.9667	65.685	139.79	130.47	161390.	9396.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-015 Acquired: 11/20/2015 20:57:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39440.	1887.1	2.2517	564.22	139.62	366.08
Stddev	257.	61.8	.1869	13.12	.13	.94
%RSD	.6503	3.2724	8.3014	2.3252	.09423	.25690
#1	39170.	1817.5	2.4428	552.99	139.49	365.21
#2	39480.	1908.1	2.0692	561.03	139.62	367.08
#3	39680.	1935.5	2.2433	578.64	139.75	365.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72502	6.8030	376.4	3.5332	114.54	479.96
Stddev	1.9054	2.4122	8.1	.4608	2.20	.70
%RSD	262.81	35.458	2.140	13.041	1.9195	.14636
#1	2.3562	8.3760	367.1	4.0547	112.01	479.80
#2	1.1882	8.0072	381.1	3.1811	115.93	479.35
#3	-1.3693	4.0258	381.0	3.3637	115.68	480.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-015 Acquired: 11/20/2015 20:57:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29600.	16318.	410650.
Stddev	85.	206.	7226.
%RSD	.28661	1.2606	1.7596
#1	29519.	16479.	418910.
#2	29688.	16389.	405490.
#3	29593.	16086.	407550.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.31%	101.98%	99.446%
Range			

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Sample Name: QK13011-016 Acquired: 11/20/2015 21:02:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25527	81924.	27.170	271.07	3.7254	16199.	1.066
Stddev	.39083	216.	.568	1.07	.0541	67.	.197
%RSD	153.10	.26347	2.0892	.39649	1.4534	.41610	18.52
#1	-.02914	81917.	26.816	270.64	3.7182	16212.	.9046
#2	-.03011	82143.	27.825	272.29	3.7827	16259.	1.006
#3	-.70656	81711.	26.869	270.28	3.6751	16126.	1.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61.220	118.61	115.32	148440.	7472.	33260.	2277.9
Stddev	.072	1.65	1.66	424.	44.	209.	17.3
%RSD	.11722	1.3920	1.4427	.28548	.5821	.6285	.75946
#1	61.277	117.95	115.15	148520.	7469.	33180.	2280.5
#2	61.139	120.49	117.06	148810.	7517.	33500.	2293.7
#3	61.244	117.39	113.75	147970.	7430.	33100.	2259.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-016 Acquired: 11/20/2015 21:02:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6473	740.76	136.72	74.742	.15454	5.1673	705.4
Stddev	.2698	8.68	.21	1.311	2.1463	.4545	9.9
%RSD	16.376	1.1719	.15641	1.7545	1388.9	8.7950	1.410
#1	1.9491	749.89	136.73	75.933	2.4026	5.2476	702.4
#2	1.4296	732.61	136.50	74.956	-1.8730	4.6781	716.6
#3	1.5631	739.77	136.93	73.337	-.06597	5.5763	697.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.1949	120.27	415.32
Stddev	1.6923	1.64	.21
%RSD	52.967	1.3622	.05031
#1	3.9263	119.88	415.25
#2	1.2600	122.07	415.16
#3	4.3985	118.87	415.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-016 Acquired: 11/20/2015 21:02:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30263.	16356.	414640.
Stddev	103.	296.	6047.
%RSD	.33941	1.8118	1.4584
#1	30164.	16390.	414990.
#2	30255.	16044.	408420.
#3	30369.	16634.	420500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.60%	102.22%	100.41%
Range			

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Sample Name: QK13011-017 Acquired: 11/20/2015 21:07:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30710	78730.	64.719	229.93	2.7559	14543.
Stddev	.15780	63.	.675	.62	.0772	24.
%RSD	51.384	.07947	1.0423	.27110	2.8011	.16245
#1	-.19864	78776.	64.466	230.64	2.6759	14560.
#2	-.23453	78755.	65.483	229.49	2.7620	14552.
#3	-.48813	78659.	64.207	229.66	2.8299	14516.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.07	61.843	913.73	440.36	F 156220.	7234.
Stddev	.13	.098	27.17	12.86	209.	62.
%RSD	.4484	.15827	2.9732	2.9195	.13361	.8538
#1	28.95	61.875	884.98	426.55	156440.	7295.
#2	29.04	61.922	917.22	442.55	156180.	7235.
#3	29.21	61.734	938.98	451.98	156030.	7172.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-017 Acquired: 11/20/2015 21:07:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41450.	1677.2	.67839	373.10	132.80	530.26
Stddev	85.	50.1	.10166	8.89	.60	1.46
%RSD	.2040	2.9880	14.986	2.3831	.45399	.27501
#1	41360.	1625.2	.56529	365.62	132.24	528.61
#2	41520.	1681.0	.70771	382.93	132.71	531.37
#3	41470.	1725.2	.76218	370.74	133.44	530.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.090	7.0339	201.1	2.7577	87.515	3216.9
Stddev	1.081	.9135	6.4	.6824	2.912	9.9
%RSD	5.6598	12.987	3.197	24.746	3.3272	.30717
#1	17.849	8.0887	194.3	2.4433	84.600	3207.5
#2	19.601	6.4992	201.8	2.2891	87.522	3216.0
#3	19.820	6.5137	207.1	3.5406	90.424	3227.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-017 Acquired: 11/20/2015 21:07:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29377.	16029.	412320.
Stddev	140.	38.	11096.
%RSD	.47497	.23559	2.6911
#1	29523.	16023.	424570.
#2	29363.	16070.	409460.
#3	29245.	15995.	402940.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	100.17%	99.851%
Range			

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Sample Name: QK13011-018 Acquired: 11/20/2015 21:12:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01211	133530.	21.795	288.87	4.2580	11855.
Stddev	.16488	384.	1.414	.79	.0863	48.
%RSD	1361.2	.28792	6.4882	.27292	2.0258	.40738
#1	.17609	133100.	22.789	287.98	4.3455	11799.
#2	-.13111	133670.	20.177	289.17	4.2555	11876.
#3	-.08132	133830.	22.420	289.47	4.1730	11889.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.576	107.59	182.74	133.21	F 294550.	7674.
Stddev	.061	.55	3.45	1.25	908.	64.
%RSD	3.878	.50804	1.8896	.93780	.30839	.8326
#1	1.528	107.94	185.76	134.41	293510.	7661.
#2	1.645	107.86	183.49	133.31	295150.	7743.
#3	1.554	106.96	178.97	131.92	295000.	7618.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-018 Acquired: 11/20/2015 21:12:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54590.	3085.5	.86802	369.68	201.38	102.52
Stddev	268.	75.6	.18413	18.08	.47	1.15
%RSD	.4899	2.4502	21.213	4.8912	.23433	1.1235
#1	54320.	3093.0	.69536	385.88	201.67	103.77
#2	54860.	3157.1	.84689	350.17	201.64	101.50
#3	54590.	3006.5	1.0618	372.98	200.84	102.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1576	5.4706	186.5	4.5155	114.45	787.79
Stddev	1.8866	1.6325	3.0	.8760	1.74	3.68
%RSD	87.439	29.842	1.630	19.400	1.5228	.46710
#1	1.4121	5.1193	189.5	3.5116	116.14	790.25
#2	.75770	7.2501	186.6	4.9097	114.54	789.57
#3	4.3030	4.0422	183.4	5.1251	112.66	783.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-018 Acquired: 11/20/2015 21:12:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28831.	15756.	396300.
Stddev	119.	82.	6388.
%RSD	.41134	.52280	1.6118
#1	28729.	15755.	391890.
#2	28804.	15673.	393390.
#3	28961.	15838.	403630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.657%	98.463%	95.971%
Range			

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Sample Name: QK13011-019 Acquired: 11/20/2015 21:17:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30660	127440.	59.921	387.38	4.4694	15913.
Stddev	.48394	391.	1.107	1.19	.0776	72.
%RSD	157.84	.30642	1.8483	.30800	1.7361	.45390
#1	-.79750	127850.	59.023	388.50	4.4672	15979.
#2	.17006	127390.	59.582	387.52	4.3930	15923.
#3	-.29235	127080.	61.159	386.12	4.5481	15836.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.729	83.546	624.09	231.74	F 230510.	9646.
Stddev	.116	.753	10.65	3.91	767.	61.
%RSD	1.494	.90142	1.7071	1.6872	.33291	.6351
#1	7.828	82.823	621.57	230.32	231180.	9686.
#2	7.603	83.489	614.92	228.75	230690.	9678.
#3	7.757	84.326	635.77	236.17	229670.	9576.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK13011-019 Acquired: 11/20/2015 21:17:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58510.	2421.9	1.6138	567.15	187.21	546.93
Stddev	159.	57.9	.1555	9.49	.67	1.49
%RSD	.2719	2.3918	9.6372	1.6736	.35921	.27210
#1	58580.	2418.2	1.5740	563.06	186.53	545.52
#2	58620.	2365.9	1.4821	578.00	187.24	546.79
#3	58330.	2481.6	1.7854	560.39	187.87	548.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9857	6.5412	287.9	3.9393	131.64	1478.5
Stddev	2.2525	2.4616	5.4	1.7658	2.32	10.0
%RSD	113.44	37.632	1.862	44.825	1.7650	.67431
#1	3.2489	9.3081	286.3	5.8205	131.52	1469.5
#2	-.61496	4.5942	283.6	2.3177	129.38	1476.8
#3	3.3231	5.7213	293.9	3.6796	134.02	1489.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK13011-019 Acquired: 11/20/2015 21:17:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29160.	16017.	412470.
Stddev	215.	89.	7068.
%RSD	.73651	.55793	1.7135
#1	29370.	15913.	413650.
#2	29170.	16068.	418870.
#3	28941.	16068.	404880.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.79%	100.09%	99.886%
Range			

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Sample Name: QK13011-020 Acquired: 11/20/2015 21:21:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60474	73982.	45.614	361.17	3.3200	20132.	10.42
Stddev	.34928	76.	1.589	1.38	.0496	32.	.11
%RSD	57.757	.10322	3.4830	.38114	1.4951	.15729	1.092
#1	.63012	73894.	47.448	360.20	3.3089	20129.	10.49
#2	.24346	74016.	44.669	360.55	3.3742	20102.	10.29
#3	.94063	74034.	44.724	362.74	3.2768	20165.	10.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59.950	442.85	544.43	136390.	7004.	32420.	2106.0
Stddev	.079	6.96	7.72	112.	21.	34.	29.7
%RSD	.13242	1.5709	1.4175	.08213	.3004	.1047	1.4088
#1	59.952	441.73	542.95	136460.	7011.	32460.	2114.1
#2	59.870	450.30	552.79	136260.	6981.	32400.	2130.8
#3	60.029	436.52	537.57	136440.	7021.	32410.	2073.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-020 Acquired: 11/20/2015 21:21:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1834	723.53	117.57	809.11	5.3046	6.4815	277.1
Stddev	.3323	2.25	.51	2.49	.9984	1.1362	5.7
%RSD	15.221	.31129	.43224	.30729	18.821	17.530	2.051
#1	2.0535	726.00	117.62	807.91	5.7501	6.5653	274.9
#2	1.9357	723.01	117.04	807.45	4.1611	7.5735	283.6
#3	2.5611	721.58	118.05	811.97	6.0027	5.3057	272.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.9413	91.600	1445.3
Stddev	1.5052	1.404	1.9
%RSD	51.175	1.5331	.12953
#1	3.7773	90.971	1444.3
#2	3.8429	93.209	1444.2
#3	1.2036	90.620	1447.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-020 Acquired: 11/20/2015 21:21:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC793

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29519.	15757.	415330.
Stddev	95.	129.	6048.
%RSD	.32080	.82059	1.4562
#1	29627.	15906.	417200.
#2	29480.	15677.	408570.
#3	29449.	15687.	420220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.03%	98.470%	100.58%
Range			

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Sample Name: QK03007-001(5) Acquired: 11/20/2015 21:26:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01793	26796.	3.2879	127.73	-.32445	10507.	.3125
Stddev	.27874	37.	1.1004	.44	.01167	23.	.1753
%RSD	1554.3	.13934	33.470	.34293	3.5966	.22310	56.10
#1	.11029	26763.	4.1699	127.56	-.33540	10521.	.4848
#2	.23877	26787.	3.6390	127.40	-.31218	10521.	.1343
#3	-.29526	26836.	2.0547	128.22	-.32576	10480.	.3183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90.586	328.23	39.132	79767.	1004.	104100.	1265.0
Stddev	.116	1.33	.266	131.	26.	434.	5.7
%RSD	.12834	.40625	.67997	.16395	2.598	.4165	.45407
#1	90.454	327.86	38.923	79872.	973.8	104200.	1261.9
#2	90.673	329.71	39.432	79809.	1019.	104500.	1271.7
#3	90.630	327.12	39.042	79621.	1018.	103700.	1261.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03007-001(5) Acquired: 11/20/2015 21:26:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15423	100.53	1793.6	5.4841	-.75907	4.0680	1654.
Stddev	.14076	14.17	.9	.3525	.96236	1.7013	8.
%RSD	91.264	14.100	.05049	6.4274	126.78	41.822	.5006
#1	-.25692	94.993	1793.0	5.1822	-.14983	4.0344	1651.
#2	-.21199	89.966	1794.7	5.3985	-.25886	5.7859	1664.
#3	.00622	116.64	1793.2	5.8715	-1.8685	2.3838	1649.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.94875	102.38	85.360
Stddev	1.7720	.77	.086
%RSD	186.78	.75004	.10129
#1	1.2053	102.50	85.262
#2	2.5785	103.07	85.394
#3	-.93760	101.55	85.425
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03007-001(5) Acquired: 11/20/2015 21:26:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBP8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28912.	15837.	411950.
Stddev	75.	30.	608.
%RSD	.25988	.18715	.14751
#1	28830.	15870.	411940.
#2	28931.	15825.	411340.
#3	28976.	15814.	412560.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.937%	98.970%	99.760%
Range			

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Sample Name: QK13011-001(2) Acquired: 11/20/2015 21:31:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26561	58384.	22.224	151.99	2.0159	11950.	2.220
Stddev	.11160	162.	.235	.40	.0319	27.	.124
%RSD	42.016	.27767	1.0588	.26454	1.5809	.22732	5.593
#1	-.29758	58259.	21.982	151.53	1.9864	11922.	2.304
#2	-.14151	58567.	22.452	152.24	2.0497	11951.	2.078
#3	-.35772	58327.	22.238	152.20	2.0115	11976.	2.279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.280	123.68	99.136	116290.	5295.	30430.	1370.0
Stddev	.079	1.02	.732	273.	70.	124.	10.6
%RSD	.18637	.82836	.73817	.23437	1.318	.4087	.77554
#1	42.280	122.52	98.333	115980.	5229.	30320.	1358.0
#2	42.201	124.45	99.764	116440.	5368.	30560.	1378.2
#3	42.359	124.08	99.312	116460.	5287.	30410.	1373.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001(2) Acquired: 11/20/2015 21:31:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42775	525.16	92.070	97.774	12.045	3.6709	333.3
Stddev	.09003	10.12	.679	.895	2.343	.7925	2.8
%RSD	21.046	1.9278	.73750	.91579	19.452	21.590	.8273
#1	.35053	519.02	91.870	97.842	10.489	4.5489	330.2
#2	.40608	536.84	91.514	96.846	14.740	3.0084	335.5
#3	.52663	519.61	92.827	98.633	10.906	3.4553	334.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.6238	72.750	462.58
Stddev	.5061	.551	2.14
%RSD	13.966	.75793	.46284
#1	4.0775	72.117	461.13
#2	3.0780	73.126	461.57
#3	3.7160	73.007	465.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001(2) Acquired: 11/20/2015 21:31:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29500.	16068.	419590.
Stddev	76.	252.	2675.
%RSD	.25743	1.5659	.63740
#1	29519.	16165.	420690.
#2	29565.	15782.	416540.
#3	29417.	16256.	421540.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.97%	100.41%	101.61%
Range			

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Sample Name: QK13011-001L(2) Acquired: 11/20/2015 21:36:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09764	12239.	3.6769	32.203	.34919	2593.9	.4753
Stddev	.18848	66.	.6081	.487	.01313	15.8	.0679
%RSD	193.04	.53655	16.539	1.5111	3.7607	.61016	14.29
#1	.02280	12188.	3.8543	31.651	.34058	2576.0	.5286
#2	-.31485	12313.	4.1766	32.391	.36430	2599.4	.3988
#3	-.00087	12215.	2.9998	32.568	.34269	2606.2	.4984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.9217	26.069	20.758	25044.	1002.	6573.	292.36
Stddev	.2646	.247	.636	107.	47.	23.	2.68
%RSD	2.9655	.94599	3.0659	.42576	4.688	.3551	.91750
#1	8.7512	26.327	20.489	24921.	956.4	6546.	293.24
#2	9.2265	26.045	21.485	25115.	1050.	6590.	294.49
#3	8.7875	25.835	20.301	25095.	999.0	6582.	289.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001L(2) Acquired: 11/20/2015 21:36:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05832	16.710	19.445	21.566	2.7707	2.6560	70.57
Stddev	.21694	11.946	.041	.674	.2906	1.8384	.56
%RSD	371.99	71.488	.20989	3.1269	10.489	69.217	.7945
#1	-.11158	10.637	19.477	22.211	3.1063	.62886	70.61
#2	.30268	9.0214	19.460	20.865	2.6082	3.1239	71.11
#3	-.01614	30.473	19.399	21.620	2.5977	4.2152	69.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.89395	15.524	97.547
Stddev	.94032	.369	.066
%RSD	105.19	2.3794	.06746
#1	.16787	15.114	97.480
#2	1.9561	15.831	97.550
#3	.55783	15.626	97.612
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001L(2) Acquired: 11/20/2015 21:36:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29249.	15766.	416340.
Stddev	106.	54.	5645.
%RSD	.36126	.34245	1.3560
#1	29138.	15778.	413390.
#2	29348.	15813.	412780.
#3	29263.	15707.	422850.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.10%	98.526%	100.82%
Range			

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Sample Name: QK13011-001DU(2) Acquired: 11/20/2015 21:41:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13264	56359.	24.727	168.24	2.1317	14455.	2.654
Stddev	.08586	164.	.809	.34	.0531	34.	.063
%RSD	64.730	.29142	3.2713	.20208	2.4920	.23589	2.363
#1	-.06050	56203.	25.414	168.33	2.1918	14461.	2.723
#2	-.10982	56531.	24.930	167.86	2.1123	14485.	2.599
#3	-.22761	56344.	23.836	168.52	2.0911	14418.	2.640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.895	138.07	112.13	113280.	5641.	27870.	1379.5
Stddev	.306	1.80	1.31	118.	44.	90.	24.9
%RSD	.76590	1.3016	1.1696	.10414	.7757	.3241	1.8043
#1	39.862	140.13	113.58	113270.	5644.	27830.	1407.9
#2	39.608	137.24	111.78	113400.	5683.	27980.	1369.1
#3	40.216	136.83	111.02	113170.	5596.	27810.	1361.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001DU(2) Acquired: 11/20/2015 21:41:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.65953	620.02	90.665	166.89	14.170	3.1576	379.4
Stddev	.21778	9.93	.218	.54	.311	.7527	7.0
%RSD	33.021	1.6012	.24030	.32448	2.1925	23.839	1.845
#1	.81062	608.57	90.479	167.36	14.063	3.8647	387.3
#2	.75808	626.33	90.612	167.01	13.927	3.2417	376.4
#3	.40989	625.15	90.905	166.29	14.520	2.3663	374.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8949	75.430	500.99
Stddev	.2705	1.389	.35
%RSD	14.277	1.8408	.06954
#1	2.2005	77.007	501.02
#2	1.6860	74.389	500.62
#3	1.7983	74.896	501.32
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001DU(2) Acquired: 11/20/2015 21:41:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC775D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29656.	15919.	415660.
Stddev	149.	141.	6118.
%RSD	.50321	.88858	1.4719
#1	29506.	15959.	408860.
#2	29804.	16035.	417390.
#3	29657.	15761.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.51%	99.483%	100.66%
Range			

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Sample Name: QK13011-001MS(2) Acquired: 11/20/2015 21:45:53 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.630	51357.	58.548	2124.5	53.045	9378.8	44.86
Stddev	.124	470.	.858	23.6	.134	46.6	.38
%RSD	.27788	.91574	1.4652	1.1086	.25294	.49686	.8410
#1	44.740	51134.	57.633	2123.1	52.924	9358.5	44.71
#2	44.495	51039.	58.680	2101.6	53.022	9345.7	44.58
#3	44.653	51897.	59.333	2148.7	53.189	9432.1	45.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.73	296.92	327.90	95267.	5692.	25330.	1634.0
Stddev	2.88	.55	.34	726.	66.	176.	1.6
%RSD	.61002	.18454	.10444	.76225	1.163	.6945	.09743
#1	472.49	296.54	327.63	95058.	5656.	25210.	1632.6
#2	469.98	296.68	327.78	94669.	5652.	25260.	1633.6
#3	475.73	297.55	328.29	96075.	5769.	25540.	1635.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001MS(2) Acquired: 11/20/2015 21:45:53 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16417	484.59	533.09	100.02	30.283	93.297	302.6
Stddev	.15146	29.76	3.10	1.76	.289	.918	.7
%RSD	92.258	6.1408	.58134	1.7591	.95549	.98361	.2273
#1	-.00673	451.49	531.94	102.04	30.031	92.453	302.0
#2	.21747	493.13	530.73	99.263	30.599	94.274	302.4
#3	.28177	509.14	536.60	98.774	30.220	93.164	303.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.756	518.60	888.34
Stddev	1.054	1.16	5.34
%RSD	2.2538	.22277	.60150
#1	47.185	517.31	887.22
#2	47.527	518.96	883.65
#3	45.555	519.53	894.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001MS(2) Acquired: 11/20/2015 21:45:53 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29533.	15767.	417810.
Stddev	227.	149.	2331.
%RSD	.76846	.94663	.55784
#1	29529.	15922.	415120.
#2	29762.	15756.	419320.
#3	29308.	15624.	418980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.08%	98.536%	101.18%
Range			

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Sample Name: QK13011-001A(2) Acquired: 11/20/2015 21:50:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.1262	58949.	31.490	362.45	7.4368	17408.	6.681
Stddev	.2365	111.	1.464	.33	.0542	9.	.303
%RSD	2.5914	.18843	4.6482	.09102	.72935	.04931	4.540
#1	9.2862	58825.	32.037	362.07	7.4708	17415.	6.336
#2	9.2379	59041.	32.602	362.69	7.3743	17411.	6.907
#3	8.8546	58980.	29.832	362.57	7.4654	17398.	6.799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86.171	133.68	125.80	117350.	10850.	34990.	1395.0
Stddev	.106	.94	1.38	86.	11.	74.	9.8
%RSD	.12309	.69997	1.0983	.07321	.0976	.2120	.69944
#1	86.054	134.34	126.15	117260.	10840.	34920.	1401.3
#2	86.260	132.61	124.27	117430.	10850.	35070.	1383.8
#3	86.200	134.08	126.97	117360.	10860.	34990.	1400.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-001A(2) Acquired: 11/20/2015 21:50:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58047	5963.0	128.82	104.27	67.931	38.256	336.2
Stddev	.19116	22.9	.66	.93	.929	1.704	2.1
%RSD	32.931	.38482	.51594	.89068	1.3675	4.4529	.6317
#1	.47393	5938.9	128.22	105.11	66.962	37.564	337.0
#2	.80116	5965.4	128.69	103.27	68.017	37.008	333.8
#3	.46633	5984.7	129.54	104.42	68.814	40.197	337.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	23.455	122.23	512.37
Stddev	.508	1.14	1.61
%RSD	2.1661	.93210	.31429
#1	23.786	123.37	512.18
#2	22.870	121.09	510.87
#3	23.709	122.23	514.07
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-001A(2) Acquired: 11/20/2015 21:50:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC775A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29189.	15571.	407330.
Stddev	126.	149.	2829.
%RSD	.43002	.95798	.69446
#1	29281.	15482.	404070.
#2	29239.	15487.	408960.
#3	29046.	15743.	408980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.89%	97.308%	98.643%
Range			

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Sample Name: QK13011-002(2) Acquired: 11/20/2015 21:55:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08191	54042.	19.640	142.99	2.1975	9766.5	.4489
Stddev	.48289	55.	1.836	.64	.0398	32.9	.0491
%RSD	589.57	.10113	9.3484	.44571	1.8121	.33704	10.94
#1	-.17161	54009.	18.549	142.44	2.2191	9747.7	.4944
#2	-.51366	54011.	21.760	142.85	2.1515	9747.4	.3969
#3	.43955	54105.	18.611	143.69	2.2218	9804.5	.4554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.872	78.916	61.299	112130.	6958.	25440.	1435.6
Stddev	.071	1.058	.628	365.	75.	49.	27.1
%RSD	.16993	1.3412	1.0240	.32588	1.084	.1927	1.8855
#1	41.871	79.330	61.529	111860.	6938.	25390.	1447.2
#2	41.801	77.713	60.589	111980.	6894.	25450.	1404.7
#3	41.943	79.705	61.780	112550.	7041.	25490.	1454.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-002(2) Acquired: 11/20/2015 21:55:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69061	1318.9	90.073	43.976	.95888	3.8597	585.3
Stddev	.03660	8.2	.071	.669	.52684	.8274	11.2
%RSD	5.2994	.62479	.07873	1.5210	54.944	21.437	1.913
#1	.65499	1309.4	90.013	43.275	.72892	3.2188	589.8
#2	.72811	1323.9	90.054	44.044	1.5616	3.5666	572.5
#3	.68873	1323.4	90.151	44.608	.58611	4.7938	593.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8794	79.725	276.12
Stddev	.2018	1.735	.10
%RSD	7.0065	2.1761	.03667
#1	2.7606	80.373	276.01
#2	3.1124	77.759	276.13
#3	2.7653	81.042	276.22
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-002(2) Acquired: 11/20/2015 21:55:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC776

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29335.	15707.	411950.
Stddev	110.	138.	7813.
%RSD	.37347	.88062	1.8965
#1	29218.	15685.	406470.
#2	29354.	15855.	420900.
#3	29435.	15581.	408490.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.40%	98.160%	99.762%
Range			

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Sample Name: QK13011-003(2) Acquired: 11/20/2015 22:00:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44358	61624.	16.031	150.63	1.9573	8117.9	.5878
Stddev	.33293	284.	.279	.85	.0070	18.0	.1386
%RSD	75.056	.46088	1.7395	.56349	.35897	.22128	23.58
#1	-.25500	61638.	15.750	150.58	1.9654	8097.9	.6618
#2	-.24774	61333.	16.035	149.80	1.9527	8123.1	.6737
#3	-.82799	61901.	16.308	151.50	1.9538	8132.6	.4279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.469	81.340	67.115	116960.	6812.	27730.	1243.9
Stddev	.077	.097	.622	124.	77.	50.	2.1
%RSD	.20143	.11940	.92686	.10633	1.124	.1814	.16763
#1	38.534	81.449	67.816	116830.	6724.	27670.	1242.2
#2	38.383	81.262	66.629	116970.	6857.	27740.	1243.3
#3	38.489	81.309	66.900	117080.	6856.	27770.	1246.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-003(2) Acquired: 11/20/2015 22:00:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56694	689.40	92.902	42.817	1.3300	3.7689	412.8
Stddev	.08361	11.43	.154	1.737	.8921	2.8049	1.0
%RSD	14.748	1.6578	.16586	4.0562	67.078	74.423	.2505
#1	.57263	695.63	93.021	44.525	2.3485	4.4625	412.2
#2	.64755	676.21	92.728	42.874	.68736	.68223	412.2
#3	.48062	696.35	92.958	41.053	.95402	6.1619	414.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0238	73.858	315.44
Stddev	.5832	.224	.21
%RSD	28.819	.30358	.06670
#1	2.4227	74.044	315.29
#2	1.3544	73.609	315.35
#3	2.2942	73.920	315.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-003(2) Acquired: 11/20/2015 22:00:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC777

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29305.	15633.	419430.
Stddev	13.	166.	1495.
%RSD	.04427	1.0618	.35636
#1	29290.	15617.	421100.
#2	29315.	15807.	418210.
#3	29309.	15476.	418990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.29%	97.699%	101.57%
Range			

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Sample Name: CCV007 Acquired: 11/20/2015 22:04:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	737.65	51154.	2476.4	10013.	F 1105.2	52234.	945.2
Stddev	8.99	130.	5.8	252.	5.9	86.	1.6
%RSD	1.2187	.25490	.23528	2.5123	.53701	.16473	.1705
#1	730.91	51007.	2482.1	9787.2	1104.2	52157.	944.9
#2	734.19	51202.	2470.5	9967.1	1099.9	52217.	943.9
#3	747.86	51255.	2476.5	10284.	1111.6	52326.	947.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					1000.0		
Range					10.000%		

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4607.4	10106.	12798.	25140.	39400.	48080.	5133.0
Stddev	7.6	109.	311.	36.	132.	112.	79.7
%RSD	.16535	1.0777	2.4273	.14389	.3337	.2332	1.5535
#1	4608.3	10012.	12507.	25111.	39340.	48050.	5048.0
#2	4599.4	10079.	12760.	25130.	39310.	47990.	5145.0
#3	4614.6	10225.	13125.	25181.	39550.	48210.	5206.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV007 Acquired: 11/20/2015 22:04:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	974.48	25668.	4790.6	9217.2	2401.4	1244.6	1030.
Stddev	2.44	48.	7.9	24.0	5.6	5.4	11.
%RSD	.25086	.18849	.16476	.26037	.23320	.43303	1.101
#1	973.80	25649.	4791.1	9234.3	2405.3	1249.4	1023.
#2	972.45	25632.	4782.5	9189.7	2395.0	1238.7	1024.
#3	977.20	25723.	4798.3	9227.5	2404.0	1245.7	1043.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F 882.22	2548.5	4801.5
Stddev	6.01	25.7	10.9
%RSD	.68114	1.0067	.22757
#1	888.92	2530.3	4807.0
#2	877.31	2537.5	4789.0
#3	880.42	2577.9	4808.7
Check ?	Chk Fail	Chk Pass	Chk Pass
Value	1000.0		
Range	-10.000%		

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Sample Name: CCV007 Acquired: 11/20/2015 22:04:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27006.	15162.	382370.
Stddev	209.	206.	4188.
%RSD	.77376	1.3602	1.0953
#1	26772.	15263.	384330.
#2	27173.	15297.	385220.
#3	27074.	14924.	377560.

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Sample Name: CCB007 Acquired: 11/20/2015 22:10:10 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07946	-40.904	.51816	.64856	-.09117	7.7463	.0783
Stddev	.30642	31.818	1.5251	.08942	.00212	1.7313	.1225
%RSD	385.65	77.789	294.33	13.787	2.3281	22.350	156.5
#1	.17751	-6.1086	2.2785	.54959	-.09035	9.5220	.1696
#2	-.41859	-48.084	-.40570	.67257	-.08958	6.0630	-.0609
#3	.00271	-68.519	-.31831	.72353	-.09358	7.6540	.1261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09906	-.06087	-.27645	-2.1228	-127.5	6.556	.03555
Stddev	.14188	.23559	.13715	11.310	12.4	8.796	.02983
%RSD	143.23	387.01	49.612	532.79	9.754	134.2	83.909
#1	.00396	-.20325	-.23241	10.685	-123.0	-3.018	.06288
#2	-.04024	.21106	-.43021	-6.3179	-141.5	14.28	.04002
#3	-.26089	-.19043	-.16672	-10.736	-117.9	8.406	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB007 Acquired: 11/20/2015 22:10:10 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10293	-111.06	.04734	.60280	-.32730	-.05680	-.1124
Stddev	.16271	9.58	.27867	.16493	.81977	1.5374	.1280
%RSD	158.07	8.6262	588.63	27.360	250.47	2706.5	113.9
#1	.28817	-102.83	-.26057	.61359	-.52266	1.3409	-.2571
#2	.03752	-121.58	.12036	.43274	-1.0317	.19206	-.0142
#3	-.01688	-108.76	.28223	.76207	.57251	-1.7034	-.0659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.91491	.08036	-.15335
Stddev	.55659	.09108	.12318
%RSD	60.835	113.34	80.325
#1	1.4940	.18517	-.21260
#2	.86682	.03538	-.01174
#3	.38393	.02052	-.23571
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB007 Acquired: 11/20/2015 22:10:10 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29268.	15158.	417740.
Stddev	57.	68.	1232.
%RSD	.19584	.44535	.29491
#1	29283.	15181.	416690.
#2	29316.	15081.	419100.
#3	29204.	15210.	417450.

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Sample Name: QK13011-004(2) Acquired: 11/20/2015 22:14:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04252	55313.	15.867	214.34	2.3757	10502.	.4942
Stddev	.35030	150.	.391	.47	.0208	20.	.0419
%RSD	823.87	.27066	2.4639	.21774	.87375	.18684	8.477
#1	.35052	55482.	15.418	214.82	2.3848	10480.	.4672
#2	-.33856	55195.	16.131	213.89	2.3519	10518.	.5424
#3	.11559	55263.	16.053	214.32	2.3904	10507.	.4730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.931	76.705	62.223	93262.	7069.	19650.	1440.5
Stddev	.164	.756	.318	37.	35.	155.	10.6
%RSD	.42243	.98597	.51159	.03996	.5020	.7884	.73317
#1	38.829	76.692	62.589	93282.	7032.	19470.	1447.0
#2	38.843	75.956	62.072	93285.	7102.	19700.	1428.3
#3	39.121	77.468	62.008	93219.	7072.	19770.	1446.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-004(2) Acquired: 11/20/2015 22:14:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3953	515.85	84.616	45.483	-.40652	3.9945	505.1
Stddev	.2837	22.77	.187	1.371	1.5303	.1748	3.5
%RSD	20.333	4.4135	.22115	3.0142	376.45	4.3761	.6980
#1	1.5508	489.57	84.824	45.142	-1.9376	3.8780	507.4
#2	1.0678	529.19	84.563	44.315	1.1231	3.9099	501.1
#3	1.5672	528.80	84.461	46.992	-.40499	4.1955	506.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.3395	80.314	260.61
Stddev	.6290	.549	.53
%RSD	18.836	.68338	.20249
#1	2.7703	80.890	260.90
#2	3.2334	79.797	260.00
#3	4.0148	80.257	260.93
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-004(2) Acquired: 11/20/2015 22:14:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC778

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29948.	15880.	420660.
Stddev	109.	154.	2241.
%RSD	.36432	.97177	.53270
#1	29906.	16052.	420000.
#2	30072.	15754.	423160.
#3	29866.	15836.	418830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.52%	99.244%	101.87%
Range			

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Sample Name: QK13011-005(2) Acquired: 11/20/2015 22:19:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48242	60327.	18.396	201.42	2.6305	9271.5	.5508
Stddev	.33253	1010.	.367	2.31	.0389	111.7	.0546
%RSD	68.929	1.6734	1.9932	1.1461	1.4789	1.2046	9.920
#1	-.53025	61412.	18.734	203.85	2.6753	9389.6	.5963
#2	-.78845	60151.	18.006	201.14	2.6104	9257.2	.5658
#3	-.12857	59417.	18.446	199.26	2.6057	9167.6	.4902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.141	84.081	66.575	104520.	7555.	21950.	1375.5
Stddev	.085	.919	.929	1427.	125.	332.	12.4
%RSD	.19615	1.0926	1.3953	1.3650	1.648	1.514	.90134
#1	43.162	85.136	67.579	106060.	7689.	22300.	1389.0
#2	43.048	83.650	66.399	104230.	7535.	21890.	1372.9
#3	43.213	83.458	65.746	103250.	7443.	21650.	1364.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-005(2) Acquired: 11/20/2015 22:19:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1131	571.14	92.088	44.411	.57674	4.9306	540.6
Stddev	.1973	9.75	.158	.944	1.2095	.5837	5.0
%RSD	17.729	1.7068	.17133	2.1257	209.72	11.838	.9267
#1	1.0476	581.86	91.933	44.470	.89399	4.6108	546.2
#2	1.3349	568.76	92.082	45.325	-.75980	4.5768	539.3
#3	.95686	562.81	92.248	43.440	1.5960	5.6043	536.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6344	87.926	273.60
Stddev	.2245	.967	.16
%RSD	8.5233	1.1001	.05740
#1	2.3923	88.948	273.63
#2	2.8358	87.805	273.43
#3	2.6752	87.025	273.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-005(2) Acquired: 11/20/2015 22:19:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC779

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29867.	16220.	418740.
Stddev	62.	290.	2474.
%RSD	.20868	1.7852	.59073
#1	29824.	16058.	416210.
#2	29839.	16048.	421150.
#3	29939.	16554.	418870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.24%	101.37%	101.41%
Range			

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Sample Name: QK13011-006(2) Acquired: 11/20/2015 22:24:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51435	59902.	19.041	220.81	2.5517	10922.	.6241
Stddev	.18352	1579.	.958	5.34	.0621	277.	.0790
%RSD	35.679	2.6356	5.0297	2.4174	2.4325	2.5321	12.66
#1	-.30298	58955.	18.915	216.91	2.5284	10753.	.7116
#2	-.60703	61725.	18.152	226.89	2.6221	11241.	.6024
#3	-.63305	59027.	20.055	218.62	2.5047	10772.	.5582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.386	83.721	63.809	106280.	7973.	21410.	1436.9
Stddev	.238	1.824	.886	2778.	207.	546.	29.5
%RSD	.57589	2.1791	1.3881	2.6139	2.600	2.551	2.0560
#1	41.210	82.995	64.298	104510.	7875.	21030.	1423.6
#2	41.290	85.797	64.343	109480.	8211.	22030.	1470.8
#3	41.657	82.372	62.787	104850.	7833.	21160.	1416.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-006(2) Acquired: 11/20/2015 22:24:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0604	587.77	88.506	44.146	-.49238	4.8447	624.3
Stddev	.1748	7.34	.268	2.236	1.5253	3.0738	12.5
%RSD	16.487	1.2489	.30289	5.0661	309.79	63.446	1.997
#1	.93963	584.77	88.680	46.703	-2.1062	5.4022	618.5
#2	1.2609	596.13	88.639	42.551	.92554	1.5303	638.7
#3	.98075	582.40	88.197	43.185	-.29648	7.6016	615.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1478	87.337	275.44
Stddev	.1911	1.924	.54
%RSD	8.8986	2.2030	.19717
#1	2.3560	86.483	274.86
#2	1.9803	89.540	275.51
#3	2.1070	85.988	275.94
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-006(2) Acquired: 11/20/2015 22:24:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC780

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29546.	15607.	418760.
Stddev	87.	279.	7993.
%RSD	.29607	1.7891	1.9088
#1	29581.	15707.	419980.
#2	29446.	15291.	410230.
#3	29610.	15822.	426070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.13%	97.533%	101.41%
Range			

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Sample Name: QK13011-007(2) Acquired: 11/20/2015 22:29:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35977	64510.	21.832	302.13	2.7683	11456.	.5862
Stddev	.31010	86.	.993	.42	.1182	8.	.0928
%RSD	86.195	.13378	4.5501	.13839	4.2678	.07386	15.83
#1	-.32463	64558.	22.882	302.09	2.6439	11446.	.4795
#2	-.06873	64562.	20.908	302.56	2.8789	11460.	.6481
#3	-.68595	64410.	21.706	301.73	2.7822	11462.	.6310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.270	79.533	80.557	90622.	7621.	19660.	1441.3
Stddev	.115	1.873	2.773	246.	21.	24.	34.4
%RSD	.30019	2.3548	3.4428	.27108	.2737	.1220	2.3839
#1	38.252	77.408	77.713	90386.	7642.	19630.	1404.2
#2	38.165	80.945	83.254	90877.	7600.	19670.	1472.0
#3	38.393	80.245	80.704	90604.	7620.	19680.	1447.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-007(2) Acquired: 11/20/2015 22:29:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6607	472.96	85.703	167.00	.20148	3.7436	380.2
Stddev	.0825	4.85	.104	2.05	2.3262	.8335	9.2
%RSD	4.9670	1.0262	.12103	1.2305	1154.5	22.265	2.413
#1	1.5659	470.07	85.584	164.65	2.4926	2.9597	370.3
#2	1.7161	478.56	85.776	167.91	-2.1582	4.6191	388.4
#3	1.7001	470.25	85.750	168.44	.26996	3.6519	381.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9290	85.911	281.70
Stddev	1.0672	2.152	.53
%RSD	55.326	2.5043	.18929
#1	1.7214	83.696	281.25
#2	.98080	87.993	281.56
#3	3.0847	86.043	282.28
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-007(2) Acquired: 11/20/2015 22:29:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC781

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29309.	15568.	412260.
Stddev	46.	127.	9671.
%RSD	.15599	.81467	2.3459
#1	29346.	15422.	423290.
#2	29324.	15650.	405220.
#3	29258.	15633.	408280.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.31%	97.293%	99.837%
Range			

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Sample Name: QK13011-008(2) Acquired: 11/20/2015 22:33:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17617	51717.	19.348	191.84	2.2648	10279.	.5943
Stddev	.12947	331.	.619	.77	.0302	57.	.2738
%RSD	73.494	.64033	3.2003	.40350	1.3322	.55475	46.08
#1	-.32109	51336.	20.059	190.97	2.2753	10215.	.3456
#2	-.07190	51885.	18.929	192.44	2.2883	10301.	.5495
#3	-.13552	51931.	19.056	192.11	2.2308	10322.	.8877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.266	76.912	61.199	113530.	6427.	18390.	1171.3
Stddev	.093	.243	.777	467.	40.	137.	2.4
%RSD	.25623	.31633	1.2693	.41123	.6259	.7430	.20904
#1	36.372	77.189	60.923	113010.	6393.	18230.	1171.6
#2	36.229	76.816	62.076	113680.	6471.	18470.	1173.6
#3	36.198	76.731	60.598	113900.	6417.	18460.	1168.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-008(2) Acquired: 11/20/2015 22:33:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1773	569.42	76.776	44.669	-.76621	4.4416	514.3
Stddev	.0409	11.17	.528	1.614	1.9351	1.1466	2.0
%RSD	3.4712	1.9620	.68724	3.6137	252.56	25.815	.3812
#1	1.1729	556.62	76.174	45.242	1.4194	5.7609	513.5
#2	1.1388	574.38	76.996	45.918	-2.2615	3.8780	516.6
#3	1.2202	577.25	77.158	42.846	-1.4566	3.6858	512.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2187	76.287	266.77
Stddev	1.4058	.697	1.13
%RSD	63.362	.91304	.42514
#1	1.1259	75.974	265.96
#2	1.7255	77.085	266.28
#3	3.8046	75.802	268.07
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-008(2) Acquired: 11/20/2015 22:33:58 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC782

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29596.	15770.	418230.
Stddev	89.	106.	1524.
%RSD	.30113	.67504	.36430
#1	29614.	15777.	419640.
#2	29499.	15660.	418440.
#3	29674.	15873.	416610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.30%	98.554%	101.28%
Range			

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Sample Name: QK13011-009(2) Acquired: 11/20/2015 22:38:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21941	62368.	16.164	250.62	2.6676	11076.	.8779
Stddev	.13579	295.	.162	.32	.0259	67.	.1317
%RSD	61.889	.47299	1.0010	.12579	.97228	.60604	15.00
#1	-.06872	62232.	16.322	250.25	2.6814	11034.	1.002
#2	-.33229	62166.	16.173	250.80	2.6837	11040.	.8913
#3	-.25723	62706.	15.999	250.80	2.6377	11153.	.7400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.377	83.268	70.649	95561.	7679.	20470.	1373.8
Stddev	.028	1.183	1.074	535.	72.	181.	20.7
%RSD	.07042	1.4212	1.5196	.56004	.9327	.8857	1.5091
#1	39.401	83.082	70.191	95313.	7612.	20400.	1380.1
#2	39.346	84.533	71.876	95196.	7671.	20330.	1390.7
#3	39.384	82.188	69.880	96176.	7754.	20670.	1350.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-009(2) Acquired: 11/20/2015 22:38:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2323	570.90	88.191	52.250	-.89582	2.5428	461.6
Stddev	.3225	9.03	.122	1.548	.66537	2.3466	7.2
%RSD	26.172	1.5819	.13872	2.9625	74.275	92.285	1.553
#1	1.5172	567.69	88.192	53.275	-.92075	4.3783	463.5
#2	.88217	581.10	88.068	50.469	-1.5484	3.3512	467.5
#3	1.2974	563.92	88.313	53.006	-.21834	-.10116	453.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1275	85.608	297.61
Stddev	.9060	1.414	.66
%RSD	42.586	1.6521	.22258
#1	2.2220	86.273	298.16
#2	2.9826	86.567	296.88
#3	1.1779	83.984	297.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-009(2) Acquired: 11/20/2015 22:38:41 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC783

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29856.	15886.	420480.
Stddev	112.	120.	6107.
%RSD	.37411	.75649	1.4524
#1	29840.	15827.	415810.
#2	29975.	16025.	418230.
#3	29753.	15807.	427390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.20%	99.281%	101.83%
Range			

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Sample Name: QK13011-011(2) Acquired: 11/20/2015 22:43:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32216	53175.	22.962	201.62	1.8318	7412.1	.8086
Stddev	.61324	178.	.637	.49	.0506	41.9	.1737
%RSD	190.35	.33485	2.7740	.24439	2.7608	.56479	21.49
#1	-.60667	53337.	22.607	201.56	1.8560	7449.7	.6336
#2	-.74147	53205.	23.697	202.14	1.7737	7419.6	.8110
#3	.38166	52984.	22.580	201.16	1.8658	7367.0	.9811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.913	141.39	84.781	81389.	4481.	19720.	936.98
Stddev	.220	3.27	2.782	377.	23.	33.	23.67
%RSD	.64912	2.3154	3.2820	.46269	.5029	.1672	2.5268
#1	33.658	142.98	86.501	81719.	4491.	19730.	948.81
#2	34.045	137.62	81.571	81470.	4456.	19750.	909.72
#3	34.035	143.56	86.271	80979.	4497.	19690.	952.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-011(2) Acquired: 11/20/2015 22:43:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1201	293.34	70.451	139.12	.84599	4.3355	196.9
Stddev	.0496	20.32	.187	1.11	1.3766	1.4648	5.5
%RSD	4.4291	6.9284	.26611	.79555	162.72	33.786	2.767
#1	1.1355	316.49	70.450	139.98	.73914	2.6465	200.1
#2	1.1602	285.08	70.264	139.51	-.47408	5.2587	190.6
#3	1.0646	278.45	70.639	137.87	2.2729	5.1012	200.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0320	55.983	283.26
Stddev	.6773	1.130	1.15
%RSD	33.331	2.0189	.40566
#1	1.9848	56.494	282.37
#2	1.3796	54.687	282.85
#3	2.7317	56.767	284.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-011(2) Acquired: 11/20/2015 22:43:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC785

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29622.	15773.	419720.
Stddev	67.	60.	8931.
%RSD	.22463	.37780	2.1277
#1	29691.	15798.	416040.
#2	29616.	15705.	429900.
#3	29558.	15816.	413220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.39%	98.572%	101.64%
Range			

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Sample Name: QK13011-012(2) Acquired: 11/20/2015 22:48:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32943	52782.	78.905	197.25	1.9908	10783.	37.80
Stddev	.02605	303.	1.379	1.11	.0466	62.	.34
%RSD	7.9079	.57451	1.7473	.56147	2.3422	.57418	.8983
#1	-.35857	52541.	78.289	196.00	1.9395	10733.	37.40
#2	-.32129	52682.	77.942	197.64	2.0024	10764.	38.00
#3	-.30841	53123.	80.484	198.11	2.0305	10853.	37.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.009	2010.9	432.18	96488.	3649.	23920.	1056.3
Stddev	.193	33.8	7.19	592.	31.	120.	19.0
%RSD	.43780	1.6798	1.6648	.61345	.8484	.5001	1.7945
#1	43.843	1972.6	424.25	96010.	3684.	23830.	1035.1
#2	43.963	2023.6	433.98	96305.	3638.	23870.	1062.1
#3	44.220	2036.5	438.30	97150.	3626.	24060.	1071.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-012(2) Acquired: 11/20/2015 22:48:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76864	283.85	88.701	737.86	54.196	6.2079	191.4
Stddev	.02629	14.47	.341	3.46	1.761	.4745	3.6
%RSD	3.4198	5.0969	.38432	.46868	3.2493	7.6438	1.896
#1	.76200	268.38	88.307	734.35	55.912	6.7541	187.5
#2	.79761	286.14	88.905	741.26	54.283	5.8971	192.1
#3	.74631	297.04	88.890	737.98	52.393	5.9725	194.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.0381	62.466	3431.4
Stddev	1.4319	1.297	20.9
%RSD	47.131	2.0767	.60806
#1	1.4713	60.974	3407.8
#2	4.2789	63.096	3447.4
#3	3.3641	63.328	3439.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-012(2) Acquired: 11/20/2015 22:48:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC786

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28996.	15554.	409580.
Stddev	98.	187.	4199.
%RSD	.33822	1.2045	1.0253
#1	29109.	15749.	414120.
#2	28953.	15539.	405820.
#3	28928.	15375.	408810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.23%	97.205%	99.188%
Range			

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Sample Name: QK13011-013(2) Acquired: 11/20/2015 22:52:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36086	56171.	41.047	253.61	2.1714	9502.9	1.437
Stddev	.24399	223.	.771	.74	.0645	45.2	.026
%RSD	67.615	.39670	1.8773	.29070	2.9723	.47593	1.784
#1	-.36431	56313.	41.936	254.36	2.2396	9553.5	1.425
#2	-.60311	55914.	40.628	252.89	2.1632	9488.6	1.420
#3	-.11515	56285.	40.577	253.58	2.1113	9466.5	1.466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.243	423.18	210.59	81467.	5081.	19600.	1048.3
Stddev	.168	9.03	3.61	387.	67.	50.	24.9
%RSD	.46226	2.1327	1.7146	.47462	1.326	.2572	2.3777
#1	36.102	431.28	213.89	81904.	5107.	19650.	1071.4
#2	36.199	424.81	211.14	81332.	5132.	19550.	1051.5
#3	36.428	413.45	206.74	81166.	5005.	19610.	1021.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-013(2) Acquired: 11/20/2015 22:52:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3509	275.87	77.839	537.09	1.0710	4.1225	215.3
Stddev	.0576	11.64	.380	1.75	.0928	.4860	5.1
%RSD	4.2651	4.2200	.48841	.32621	8.6675	11.790	2.369
#1	1.2925	282.17	77.862	535.19	1.1579	3.9519	220.0
#2	1.4077	262.43	77.447	537.45	.97322	4.6709	215.9
#3	1.3524	282.99	78.207	538.64	1.0818	3.7448	209.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.5588	65.967	359.18
Stddev	1.4078	1.473	2.07
%RSD	55.019	2.2325	.57527
#1	4.1297	67.549	357.36
#2	2.1355	65.717	358.76
#3	1.4112	64.636	361.42
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-013(2) Acquired: 11/20/2015 22:52:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC787

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29358.	15339.	410330.
Stddev	160.	248.	9835.
%RSD	.54465	1.6158	2.3970
#1	29536.	15414.	401350.
#2	29312.	15540.	408790.
#3	29226.	15062.	420840.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.48%	95.857%	99.368%
Range			

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Sample Name: QK13011-014(2) Acquired: 11/20/2015 22:57:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22045	47022.	9.5403	122.83	1.4186	5551.2	.2289
Stddev	.24031	311.	1.2112	.75	.0069	54.2	.1425
%RSD	109.01	.66201	12.696	.60689	.48391	.97660	62.28
#1	.05420	46743.	8.2996	122.03	1.4240	5494.9	.3872
#2	-.32350	46965.	9.6016	122.98	1.4210	5555.7	.1886
#3	-.39204	47358.	10.720	123.50	1.4109	5603.1	.1108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.234	52.820	35.861	87124.	3838.	21850.	858.98
Stddev	.066	.258	.733	699.	30.	224.	2.72
%RSD	.20356	.48824	2.0434	.80227	.7766	1.025	.31721
#1	32.215	52.769	35.425	86410.	3815.	21630.	861.98
#2	32.307	53.099	36.707	87155.	3872.	21860.	856.66
#3	32.179	52.591	35.450	87806.	3827.	22080.	858.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-014(2) Acquired: 11/20/2015 22:57:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64558	142.89	67.601	26.820	-.04985	4.2033	139.6
Stddev	.12738	14.34	.271	.813	2.0354	1.2664	.5
%RSD	19.731	10.034	.40109	3.0304	4083.3	30.129	.3509
#1	.66257	141.48	67.636	26.107	1.5177	2.7497	139.8
#2	.76361	129.31	67.314	26.648	.68294	5.0684	139.0
#3	.51056	157.88	67.853	27.705	-2.3502	4.7919	139.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9759	48.113	216.76
Stddev	.7405	.314	.50
%RSD	37.476	.65172	.22926
#1	2.6839	48.070	216.64
#2	2.0369	47.824	216.34
#3	1.2068	48.446	217.31
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-014(2) Acquired: 11/20/2015 22:57:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC788

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29402.	15445.	413810.
Stddev	48.	259.	648.
%RSD	.16466	1.6777	.15658
#1	29360.	15635.	413120.
#2	29391.	15551.	414410.
#3	29455.	15150.	413890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.63%	96.523%	100.21%
Range			

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Sample Name: QK13011-015(2) Acquired: 11/20/2015 23:02:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36834	52912.	16.143	208.03	1.9151	7846.0	.3794
Stddev	.07892	150.	.845	1.09	.0334	18.6	.0859
%RSD	21.427	.28384	5.2358	.52384	1.7456	.23741	22.63
#1	-.37471	52808.	17.063	207.54	1.8771	7845.9	.3391
#2	-.28642	52844.	15.401	207.28	1.9402	7827.4	.4779
#3	-.44388	53084.	15.966	209.28	1.9279	7864.6	.3210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.849	69.554	65.495	84016.	4710.	20460.	988.53
Stddev	.081	.794	.623	270.	31.	81.	11.11
%RSD	.23918	1.1419	.95171	.32106	.6573	.3939	1.1236
#1	33.936	68.639	64.841	83948.	4674.	20390.	975.71
#2	33.777	69.950	65.560	83787.	4731.	20450.	995.08
#3	33.833	70.072	66.083	84313.	4725.	20550.	994.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-015(2) Acquired: 11/20/2015 23:02:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1584	229.98	72.830	193.61	-.04753	2.3442	188.4
Stddev	.0683	17.85	.176	.57	.60774	2.3894	1.9
%RSD	5.8913	7.7630	.24158	.29286	1278.6	101.93	.9862
#1	1.0830	209.41	72.628	193.60	-.68264	-.34840	186.2
#2	1.1763	239.02	72.914	194.19	.01150	4.2118	189.4
#3	1.2159	241.50	72.948	193.05	.52854	3.1691	189.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3496	58.150	248.08
Stddev	.8386	.775	.56
%RSD	62.133	1.3332	.22719
#1	2.3087	57.347	247.99
#2	.75445	58.894	247.56
#3	.98578	58.210	248.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-015(2) Acquired: 11/20/2015 23:02:21 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC789

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29371.	15384.	412940.
Stddev	24.	340.	4388.
%RSD	.08156	2.2106	1.0626
#1	29351.	15460.	418010.
#2	29398.	15680.	410480.
#3	29364.	15013.	410340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.52%	96.143%	100.00%
Range			

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Sample Name: QK13011-017(2) Acquired: 11/20/2015 23:07:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21808	39733.	32.438	120.14	1.3481	7554.3	14.55
Stddev	.24180	38.	.506	.14	.0298	11.3	.13
%RSD	110.88	.09487	1.5589	.11291	2.2119	.14981	.8658
#1	.02808	39712.	32.631	120.02	1.3805	7566.6	14.60
#2	-.45527	39776.	31.865	120.12	1.3218	7544.4	14.63
#3	-.22707	39710.	32.819	120.29	1.3420	7551.8	14.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.090	461.44	226.99	79349.	3612.	20660.	870.37
Stddev	.254	4.27	2.25	149.	51.	24.	7.84
%RSD	.81720	.92542	.98942	.18777	1.413	.1149	.90078
#1	31.316	466.18	229.59	79515.	3650.	20640.	879.36
#2	30.815	460.28	225.81	79304.	3554.	20680.	866.81
#3	31.140	457.88	225.59	79227.	3632.	20660.	864.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-017(2) Acquired: 11/20/2015 23:07:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22334	109.65	67.929	273.22	8.8967	3.4024	102.6
Stddev	.21434	2.53	.173	1.07	2.2432	1.2571	1.0
%RSD	95.969	2.3075	.25399	.38999	25.214	36.948	.9996
#1	.47025	112.51	67.991	274.40	8.5319	2.5138	103.8
#2	.11462	107.72	67.734	272.92	6.8581	2.8526	102.1
#3	.08515	108.71	68.062	272.34	11.300	4.8407	102.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.2719	44.649	1627.1
Stddev	.3047	.191	2.6
%RSD	9.3133	.42729	.15973
#1	3.2845	44.843	1630.1
#2	2.9611	44.461	1625.4
#3	3.5701	44.643	1625.9
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-017(2) Acquired: 11/20/2015 23:07:07 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC790

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29299.	15263.	407280.
Stddev	134.	123.	2402.
%RSD	.45616	.80737	.58978
#1	29146.	15299.	404500.
#2	29386.	15365.	408730.
#3	29367.	15126.	408590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.27%	95.385%	98.629%
Range			

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Sample Name: QK13011-018(5) Acquired: 11/20/2015 23:11:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11520	27257.	4.1211	59.661	.79147	2441.5	.4837
Stddev	.37668	248.	.8417	.910	.02575	7.4	.0896
%RSD	326.97	.91147	20.424	1.5252	3.2537	.30428	18.52
#1	-.28969	26972.	5.0930	58.611	.80957	2433.0	.5125
#2	.45525	27369.	3.6325	60.151	.80285	2444.8	.3833
#3	.18005	27429.	3.6378	60.221	.76199	2446.8	.5554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.652	37.175	26.309	59822.	1355.	11150.	634.59
Stddev	.112	.855	.313	173.	30.	114.	12.34
%RSD	.49569	2.3001	1.1900	.28944	2.190	1.021	1.9437
#1	22.658	37.522	26.569	59634.	1359.	11020.	641.19
#2	22.537	37.801	26.396	59856.	1323.	11200.	642.22
#3	22.761	36.200	25.961	59975.	1382.	11230.	620.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-018(5) Acquired: 11/20/2015 23:11:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02245	-24.595	41.956	22.423	.18166	.75603	36.89
Stddev	.04406	18.733	.261	1.576	1.2181	.55273	.45
%RSD	196.28	76.168	.62179	7.0273	670.55	73.110	1.216
#1	.02028	-22.784	41.858	24.129	-1.1135	1.3883	37.14
#2	-.01988	-6.8323	41.758	21.022	.35403	.51557	37.16
#3	-.06774	-44.168	42.251	22.117	1.3044	.36425	36.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6957	22.710	164.29
Stddev	.2794	.464	1.10
%RSD	10.364	2.0449	.67130
#1	2.8083	22.785	165.27
#2	2.9013	23.132	163.10
#3	2.3776	22.213	164.50
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-018(5) Acquired: 11/20/2015 23:11:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC791

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29029.	15162.	409880.
Stddev	140.	54.	8509.
%RSD	.48306	.35686	2.0759
#1	28878.	15218.	405000.
#2	29156.	15110.	404940.
#3	29051.	15159.	419710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	94.756%	99.261%
Range			

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Sample Name: QK13011-019(2) Acquired: 11/20/2015 23:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10112	65272.	29.698	204.97	2.2143	8411.7	3.973
Stddev	.60071	199.	.977	.64	.0456	25.9	.106
%RSD	594.04	.30507	3.2885	.31091	2.0572	.30826	2.664
#1	-.75770	65107.	30.414	204.35	2.2660	8398.3	4.080
#2	.03342	65215.	30.094	204.95	2.1800	8395.1	3.869
#3	.42091	65493.	28.585	205.62	2.1968	8441.5	3.969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.003	317.89	117.61	120780.	4933.	30710.	1278.4
Stddev	.088	4.38	2.28	288.	47.	60.	18.5
%RSD	.20556	1.3780	1.9395	.23805	.9467	.1956	1.4485
#1	43.011	322.94	120.21	120480.	4883.	30670.	1299.6
#2	43.087	315.61	116.69	120810.	4975.	30680.	1270.4
#3	42.911	315.12	115.93	121060.	4942.	30780.	1265.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13011-019(2) Acquired: 11/20/2015 23:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.84999	208.50	96.158	284.99	1.4711	2.8038	147.0
Stddev	.12284	21.33	.281	.60	1.6055	1.3556	2.8
%RSD	14.452	10.231	.29199	.20987	109.13	48.350	1.906
#1	.72588	189.01	96.040	285.18	2.6767	2.4622	150.2
#2	.85258	205.21	95.955	285.47	2.0878	4.2976	145.9
#3	.97152	231.29	96.479	284.32	-.35129	1.6517	145.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.7565	67.409	757.74
Stddev	.3259	1.263	1.61
%RSD	11.823	1.8737	.21236
#1	2.4636	68.686	759.55
#2	2.6984	67.382	757.20
#3	3.1076	66.160	756.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13011-019(2) Acquired: 11/20/2015 23:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC792

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29449.	15394.	411710.
Stddev	80.	156.	5528.
%RSD	.27079	1.0154	1.3427
#1	29358.	15511.	406410.
#2	29484.	15455.	411270.
#3	29506.	15217.	417440.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.79%	96.206%	99.703%
Range			

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Sample Name: CCV008 Acquired: 11/20/2015 23:21:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	729.34	51022.	2505.9	10754.	1081.0	53190.	946.5
Stddev	5.16	125.	4.1	210.	21.4	77.	1.3
%RSD	.70699	.24428	.16217	1.9524	1.9787	.14459	.1406
#1	734.47	50953.	2510.4	10610.	1088.7	53106.	947.9
#2	729.40	51166.	2502.5	10656.	1097.6	53207.	945.2
#3	724.16	50947.	2504.9	10995.	1056.9	53257.	946.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4621.1	9856.3	12880.	25364.	40220.	48380.	5133.1
Stddev	4.3	185.5	119.	67.	108.	168.	79.8
%RSD	.09361	1.8826	.92389	.26232	.2675	.3469	1.5538
#1	4625.9	10064.	12890.	25287.	40100.	48190.	5185.4
#2	4617.4	9798.1	12993.	25401.	40230.	48460.	5172.7
#3	4620.2	9706.9	12756.	25404.	40320.	48490.	5041.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV008 Acquired: 11/20/2015 23:21:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	982.37	26113.	4849.1	9282.7	2426.6	1261.7	1026.
Stddev	1.02	60.	6.3	9.3	3.0	5.8	8.
%RSD	.10418	.22889	.13048	.09966	.12540	.46117	.7467
#1	983.55	26060.	4856.3	9292.9	2427.0	1265.6	1034.
#2	981.90	26101.	4844.4	9280.2	2423.4	1255.0	1025.
#3	981.68	26178.	4846.7	9274.9	2429.5	1264.4	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F 880.86	2531.4	4827.5
Stddev	2.03	18.6	5.3
%RSD	.23079	.73339	.11057
#1	881.18	2550.8	4833.6
#2	882.71	2529.5	4825.1
#3	878.69	2513.9	4823.8
Check ?	Chk Fail	Chk Pass	Chk Pass
Value	1000.0		
Range	-10.000%		

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Sample Name: CCV008 Acquired: 11/20/2015 23:21:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27142.	14703.	386990.
Stddev	85.	88.	2703.
%RSD	.31139	.59548	.69840
#1	27236.	14693.	384860.
#2	27073.	14621.	386090.
#3	27117.	14796.	390030.

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Sample Name: CCB008 Acquired: 11/20/2015 23:26:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21430	-44.659	-.61763	.81548	-.05953	3.0299	.0303
Stddev	.17576	42.372	1.1453	.09072	.01433	2.3037	.1458
%RSD	82.015	94.879	185.44	11.125	24.067	76.031	480.6
#1	-.39973	-78.188	-1.4738	.89357	-.05520	.37312	.1633
#2	-.05014	2.9634	.68337	.83691	-.04786	4.2445	-.1255
#3	-.19304	-58.751	-1.0625	.71596	-.07552	4.4721	.0532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11729	.22540	-.53184	-3.4395	-155.8	37.39	.09952
Stddev	.12648	.28112	.19637	12.177	62.1	.80	.05038
%RSD	107.83	124.72	36.923	354.05	39.88	2.146	50.629
#1	-.09151	.33638	-.45057	.97320	-142.1	36.46	.08370
#2	-.25468	.43409	-.75580	-17.208	-101.6	37.82	.15591
#3	-.00569	-.09427	-.38915	5.9164	-223.6	37.88	.05894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB008 Acquired: 11/20/2015 23:26:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36371	-93.838	-.04558	1.0729	-.95465	-.28336	-.0485
Stddev	.15405	10.313	.08164	.2519	1.6213	1.8860	.2817
%RSD	42.354	10.990	179.12	23.479	169.83	665.60	580.5
#1	.53038	-98.792	.03437	1.1783	.81612	-1.5367	-.3025
#2	.22656	-81.982	-.04229	1.2550	-1.3139	1.8857	-.0975
#3	.33419	-100.74	-.12881	.78542	-2.3662	-1.1991	.2544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.86085	.12914	-.12372
Stddev	.92107	.09160	.15765
%RSD	106.99	70.929	127.42
#1	-.04808	.03878	-.14188
#2	1.7936	.12671	-.27151
#3	.83704	.22193	.04222
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB008 Acquired: 11/20/2015 23:26:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29061.	14905.	412780.
Stddev	142.	122.	4473.
%RSD	.48792	.81807	1.0835
#1	28909.	14942.	410300.
#2	29085.	15004.	410100.
#3	29189.	14769.	417940.

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ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5111915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	**Sample ID:**	**S0**	**EPA Sample ID:**	**S0**		**Date:**	**11/19/2015**	**11:03:52**	**Dilution:**	**1**
2·	**Sample ID:**	**S01 ISM-520**	**EPA Sample ID:**	**S01**		**Date:**	**11/19/2015**	**11:08:38**	**Dilution:**	**1**
3·	**Sample ID:**	**S02 ISM-521**	**EPA Sample ID:**	**S02**		**Date:**	**11/19/2015**	**11:13:23**	**Dilution:**	**1**
4·	**Sample ID:**	**S03 ISM-538**	**EPA Sample ID:**	**S03**		**Date:**	**11/19/2015**	**11:18:08**	**Dilution:**	**1**
5·	**Sample ID:**	**S04 ISM-523**	**EPA Sample ID:**	**S04**		**Date:**	**11/19/2015**	**11:23:14**	**Dilution:**	**1**
6·	**Sample ID:**	**S05 ISM-524**	**EPA Sample ID:**	**S05**		**Date:**	**11/19/2015**	**11:28:32**	**Dilution:**	**1**
7·	**Sample ID:**	**S06 ISM-463**	**EPA Sample ID:**	**S06**		**Date:**	**11/19/2015**	**11:34:04**	**Dilution:**	**1**
8·	**Sample ID:**	**S07 ISM-464**	**EPA Sample ID:**	**S07**		**Date:**	**11/19/2015**	**11:38:48**	**Dilution:**	**1**
9·	**Sample ID:**	**S08 ISM-465**	**EPA Sample ID:**	**S08**		**Date:**	**11/19/2015**	**11:43:31**	**Dilution:**	**1**
10·	**Sample ID:**	**S09 ISM-456**	**EPA Sample ID:**	**S09**		**Date:**	**11/19/2015**	**11:48:15**	**Dilution:**	**1**
11·	**Sample ID:**	**S10 ISM-457**	**EPA Sample ID:**	**S10**		**Date:**	**11/19/2015**	**11:53:04**	**Dilution:**	**1**
12·	**Sample ID:**	**ICV1**	**EPA Sample ID:**	**ICV001**		**Date:**	**11/19/2015**	**11:57:59**	**Dilution:**	**1**
13·	**Sample ID:**	**ICB1**	**EPA Sample ID:**	**ICB001**		**Date:**	**11/19/2015**	**12:02:50**	**Dilution:**	**1**
14·	**Sample ID:**	**ICS-A1**	**EPA Sample ID:**	**ICSA001**		**Date:**	**11/19/2015**	**12:07:39**	**Dilution:**	**1**
15·	**Sample ID:**	**ICS-AB1**	**EPA Sample ID:**	**ICSAB001**		**Date:**	**11/19/2015**	**12:12:23**	**Dilution:**	**1**
16·	**Sample ID:**	**CCV1**	**EPA Sample ID:**	**CCV001**		**Date:**	**11/19/2015**	**12:17:13**	**Dilution:**	**1**
17·	**Sample ID:**	**CCB1**	**EPA Sample ID:**	**CCB001**		**Date:**	**11/19/2015**	**12:22:23**	**Dilution:**	**1**
18·	**Sample ID:**	**QQ88853-001**	**EPA Sample ID:**	**QQ88853-001**		**Date:**	**11/19/2015**	**12:27:12**	**Dilution:**	**1**
19·	**Sample ID:**	**QQ88853-002**	**EPA Sample ID:**	**QQ88853-002**		**Date:**	**11/19/2015**	**12:32:00**	**Dilution:**	**1**
20·	**Sample ID:**	**QQ88854-001**	**EPA Sample ID:**	**QQ88854-001**		**Date:**	**11/19/2015**	**12:36:48**	**Dilution:**	**1**
21·	**Sample ID:**	**QQ88854-002**	**EPA Sample ID:**	**QQ88854-002**		**Date:**	**11/19/2015**	**12:41:36**	**Dilution:**	**1**
22·	**Sample ID:**	**QK03007-009**	**EPA Sample ID:**	**MJHBQ7**		**Date:**	**11/19/2015**	**12:46:32**	**Dilution:**	**1**
Cd2288				1.6870	2000			2.00	0.60	5.00
Cu3273				467.7200	25000			2.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE			358030.0000	150000			1.00	18.80	100.00
Ni2316				523.9000	10000			1.00	1.10	40.00
Pb2203				40.7210	20000			12.00	3.50	10.00
23·	**Sample ID:**	**QK03007-010**	**EPA Sample ID:**	**MJHBQ8**		**Date:**	**11/19/2015**	**12:51:30**	**Dilution:**	**1**
Cd2288				0.8865	2000			7.00	0.60	5.00
Cu3273				246.2100	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE			183000.0000	150000			0.00	18.80	100.00
Ni2316				303.9500	10000			2.00	1.10	40.00
Pb2203				14.0310	20000			16.00	3.50	10.00
24·	**Sample ID:**	**QQ89663-001**	**EPA Sample ID:**	**PBS**		**Date:**	**11/19/2015**	**12:56:31**	**Dilution:**	**1**
Hardness	MB result is greater than High Det Lim			0.2052	1984500			0.00	0.00	3.10
25·	**Sample ID:**	**QQ89663-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/19/2015**	**13:01:21**	**Dilution:**	**1**
26·	**Sample ID:**	**QK13011-001**	**EPA Sample ID:**	**MBC775**		**Date:**	**11/19/2015**	**13:06:07**	**Dilution:**	**1**
Cd2288				4.3870	2000			1.00	0.04	0.50
Cu3273				190.7300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE			228620.0000	150000			0.00	2.60	10.00
Ni2316				183.6000	10000			0.00	0.21	4.00
Pb2203				184.2700	20000			1.00	0.28	1.00
27·	**Sample ID:**	**QK13011-001L**	**EPA Sample ID:**	**MBC775L**		**Date:**	**11/19/2015**	**13:11:01**	**Dilution:**	**5**

Analytical Review Report

Data File: ***I5111915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
28· Sample ID:	**QK13011-001DU**	**EPA Sample ID:**	**MBC775D**		**Date:**	**11/19/2015**	**13:15:48**	**Dilution: 1**
Al3082	RPD IS OUT OF CRITERIA	107210.0000	300000		22.0	3.00	7.60	20.00
Cd2288		5.3160	2000		0.0	0.00	0.04	0.50
Cu3273		203.5300	25000		0.0	1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	216450.0000	150000		0.0	4.00	2.60	10.00
Mg2790	RPD IS OUT OF CRITERIA	55440.0000	300000		30.0	4.00	9.70	500.00
Mn2576	RPD IS OUT OF CRITERIA	2515.2000	10000		24.0	1.00	0.09	1.50
Ni2316		177.4200	10000		0.0	1.00	0.21	4.00
Pb2203		312.3700	20000		0.0	1.00	0.28	1.00
29· Sample ID:	**QK13011-001MS**	**EPA Sample ID:**	**MBC775S**		**Date:**	**11/19/2015**	**13:20:41**	**Dilution: 1**
Cd2288		90.2700	2000	100.0		1.00	0.04	0.50
Cu3273		621.8300	25000	500.0		1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	184870.0000	150000			1.00	2.60	10.00
Mn2576	RECOVERY IS OUT OF CRITERIA	3094.5000	10000	1000.0	60.0	1.00	0.09	1.50
Ni2316		1005.6000	10000	1000.0		0.00	0.21	4.00
Pb2203		188.2800	20000	40.0		0.00	0.28	1.00
30· Sample ID:	**QK13011-001A**	**EPA Sample ID:**	**MBC775A**		**Date:**	**11/19/2015**	**13:25:31**	**Dilution: 1**
31· Sample ID:	**QK13011-002**	**EPA Sample ID:**	**MBC776**		**Date:**	**11/19/2015**	**13:30:22**	**Dilution: 1**
Cd2288		0.8043	2000			8.00	0.04	0.50
Cu3273		113.4300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	206530.0000	150000			0.00	2.60	10.00
Ni2316		175.1800	10000			0.00	0.21	4.00
Pb2203		81.7250	20000			2.00	0.28	1.00
32· Sample ID:	**QK13011-003**	**EPA Sample ID:**	**MBC777**		**Date:**	**11/19/2015**	**13:35:14**	**Dilution: 1**
Cd2288		1.3180	2000			2.00	0.04	0.50
Cu3273		130.2500	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	221710.0000	150000			0.00	2.60	10.00
Ni2316		183.6700	10000			0.00	0.21	4.00
Pb2203		81.0230	20000			4.00	0.28	1.00
33· Sample ID:	**QK13011-004**	**EPA Sample ID:**	**MBC778**		**Date:**	**11/19/2015**	**13:40:07**	**Dilution: 1**
Cd2288		1.1880	2000			9.00	0.04	0.50
Cu3273		115.9500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	175360.0000	150000			0.00	2.60	10.00
Ni2316		166.3300	10000			0.00	0.21	4.00
Pb2203		85.4180	20000			2.00	0.28	1.00
34· Sample ID:	**QK13011-005**	**EPA Sample ID:**	**MBC779**		**Date:**	**11/19/2015**	**13:45:00**	**Dilution: 1**
Cd2288		1.2740	2000			6.00	0.04	0.50
Cu3273		123.2600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	192460.0000	150000			0.00	2.60	10.00
Ni2316		177.5800	10000			0.00	0.21	4.00
Pb2203		80.0910	20000			0.00	0.28	1.00
35· Sample ID:	**QK13011-006**	**EPA Sample ID:**	**MBC780**		**Date:**	**11/19/2015**	**13:49:54**	**Dilution: 1**
Cd2288		1.2560	2000			6.00	0.04	0.50
Cu3273		119.6300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	197600.0000	150000			0.00	2.60	10.00
Ni2316		170.3900	10000			0.00	0.21	4.00
Pb2203		79.7570	20000			0.00	0.28	1.00

Analytical Review Report

Data File: ***I5111915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
36· Sample ID:	**QK13011-007**	**EPA Sample ID:**	**MBC781**		**Date:**	**11/19/2015**	**13:54:46**	**Dilution:** **1**
Cd2288		1.0310	2000			11.00	0.04	0.50
Cu3273		155.5900	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	180880.0000	150000			0.00	2.60	10.00
Ni2316		167.7400	10000			1.00	0.21	4.00
Pb2203		311.8700	20000			1.00	0.28	1.00
37· Sample ID:	**QK13011-008**	**EPA Sample ID:**	**MBC782**		**Date:**	**11/19/2015**	**13:59:37**	**Dilution:** **1**
Cd2288		1.0360	2000			20.00	0.04	0.50
Cu3273		104.6500	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	207190.0000	150000			0.00	2.60	10.00
Ni2316		150.2000	10000			0.00	0.21	4.00
Pb2203		73.0370	20000			2.00	0.28	1.00
38· Sample ID:	**CCV2**	**EPA Sample ID:**	**CCV002**		**Date:**	**11/19/2015**	**14:04:30**	**Dilution:** **1**
39· Sample ID:	**CCB2**	**EPA Sample ID:**	**CCB002**		**Date:**	**11/19/2015**	**14:09:39**	**Dilution:** **1**
40· Sample ID:	**QK13011-009**	**EPA Sample ID:**	**MBC783**		**Date:**	**11/19/2015**	**14:14:30**	**Dilution:** **1**
Cd2288		0.9561	2000			8.00	0.04	0.50
Cu3273		121.7200	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	173290.0000	150000			1.00	2.60	10.00
Ni2316		165.6000	10000			0.00	0.21	4.00
Pb2203		85.2570	20000			1.00	0.28	1.00
41· Sample ID:	**QK13011-010**	**EPA Sample ID:**	**MBC784**		**Date:**	**11/19/2015**	**14:19:24**	**Dilution:** **1**
42· Sample ID:	**QK13011-011**	**EPA Sample ID:**	**MBC785**		**Date:**	**11/19/2015**	**14:24:10**	**Dilution:** **1**
Cd2288		1.1190	2000			7.00	0.04	0.50
Cu3273		167.7300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	173200.0000	150000			1.00	2.60	10.00
Ni2316		143.7200	10000			1.00	0.21	4.00
Pb2203		259.8200	20000			1.00	0.28	1.00
43· Sample ID:	**QK13011-012**	**EPA Sample ID:**	**MBC786**		**Date:**	**11/19/2015**	**14:29:03**	**Dilution:** **1**
Cd2288		78.4700	2000			0.00	0.04	0.50
Cu3273		826.9900	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	187510.0000	150000			1.00	2.60	10.00
Ni2316		178.5700	10000			0.00	0.21	4.00
Pb2203		1444.8000	20000			0.00	0.28	1.00
Sb2068		104.5300	5000			1.00	0.35	6.00
44· Sample ID:	**QK13011-013**	**EPA Sample ID:**	**MBC787**		**Date:**	**11/19/2015**	**14:33:54**	**Dilution:** **1**
Cd2288		2.8980	2000			8.00	0.04	0.50
Cu3273		406.5700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	162050.0000	150000			0.00	2.60	10.00
Ni2316		158.6800	10000			0.00	0.21	4.00
Pb2203		1065.3000	20000			0.00	0.28	1.00
45· Sample ID:	**QK13011-014**	**EPA Sample ID:**	**MBC788**		**Date:**	**11/19/2015**	**14:38:47**	**Dilution:** **1**
Cd2288		0.5901	2000			25.00	0.04	0.50
Cu3273		67.2210	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	166490.0000	150000			0.00	2.60	10.00
Ni2316		134.5000	10000			0.00	0.21	4.00
Pb2203		49.6270	20000			2.00	0.28	1.00

Analytical Review Report

Data File: ***I5111915A ISM***

Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
46· Sample ID:	**QK13011-015**	**EPA Sample ID:**	**MBC789**		**Date:**	**11/19/2015**	**14:43:31**	**Dilution: 1**
Cd2288		0.9485	2000			18.00	0.04	0.50
Cu3273		126.1100	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	153130.0000	150000			2.00	2.60	10.00
Ni2316		141.8200	10000			0.00	0.21	4.00
Pb2203		363.4000	20000			0.00	0.28	1.00
47· Sample ID:	**QK13011-016**	**EPA Sample ID:**	**MBC7H7**		**Date:**	**11/19/2015**	**14:48:24**	**Dilution: 1**
48· Sample ID:	**QK13011-017**	**EPA Sample ID:**	**MBC790**		**Date:**	**11/19/2015**	**14:53:17**	**Dilution: 1**
Cd2288		29.8800	2000			1.00	0.04	0.50
Cu3273		427.2800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	153810.0000	150000			0.00	2.60	10.00
Ni2316		137.5700	10000			1.00	0.21	4.00
Pb2203		534.4100	20000			1.00	0.28	1.00
49· Sample ID:	**QK13011-018**	**EPA Sample ID:**	**MBC791**		**Date:**	**11/19/2015**	**14:58:03**	**Dilution: 1**
Cd2288		1.8970	2000			5.00	0.04	0.50
Cu3273		125.7500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	284670.0000	150000			2.00	2.60	10.00
Ni2316		207.6600	10000			0.00	0.21	4.00
Pb2203		98.7410	20000			1.00	0.28	1.00
50· Sample ID:	**QK13011-019**	**EPA Sample ID:**	**MBC792**		**Date:**	**11/19/2015**	**15:02:55**	**Dilution: 1**
Cd2288		7.7530	2000			1.00	0.04	0.50
Cu3273		219.7200	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	216980.0000	150000			0.00	2.60	10.00
Ni2316		187.1000	10000			0.00	0.21	4.00
Pb2203		535.1800	20000			0.00	0.28	1.00
51· Sample ID:	**QK13011-020**	**EPA Sample ID:**	**MBC793**		**Date:**	**11/19/2015**	**15:07:47**	**Dilution: 1**
52· Sample ID:	**QQ89663-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/19/2015**	**15:12:41**	**Dilution: 1**
53· Sample ID:	**QK03007-001**	**EPA Sample ID:**	**MJHBP8**		**Date:**	**11/19/2015**	**15:17:28**	**Dilution: 5**
54· Sample ID:	**QK13011-001**	**EPA Sample ID:**	**MBC775**		**Date:**	**11/19/2015**	**15:22:14**	**Dilution: 2**
55· Sample ID:	**QK13011-001L**	**EPA Sample ID:**	**MBC775L**		**Date:**	**11/19/2015**	**15:26:59**	**Dilution: 2**
Cd2288	RPD IS OUT OF CRITERIA	0.5018	2000		80.0	8.00	0.04	0.50
Cu3273	RPD IS OUT OF CRITERIA	20.0030	25000		80.0	7.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA	24219.0000	150000		79.0	1.00	2.60	10.00
Ni2316	RPD IS OUT OF CRITERIA	19.7220	10000		79.0	1.00	0.21	4.00
Pb2203	RPD IS OUT OF CRITERIA	20.9740	20000		79.0	3.00	0.28	1.00
Sb2068	RPD IS OUT OF CRITERIA	3.2580	5000		76.0	84.00	0.35	6.00
56· Sample ID:	**QK13011-001DU**	**EPA Sample ID:**	**MBC775D**		**Date:**	**11/19/2015**	**15:31:47**	**Dilution: 2**
Fe2611	RPD IS OUT OF CRITERIA	105400.0000	150000		30.0	4.00	2.60	10.00
Pb2203	RPD IS OUT OF CRITERIA	165.5300	20000		32.0	2.00	0.28	1.00
57· Sample ID:	**QK13011-001MS**	**EPA Sample ID:**	**MBC775S**		**Date:**	**11/19/2015**	**15:36:33**	**Dilution: 2**
Sb2068	RECOVERY IS OUT OF CRITERIA	31.9670	5000	200.0	19.0	6.00	0.35	6.00
58· Sample ID:	**QK13011-001A**	**EPA Sample ID:**	**MBC775A**		**Date:**	**11/19/2015**	**15:41:19**	**Dilution: 2**
59· Sample ID:	**QK13011-002**	**EPA Sample ID:**	**MBC776**		**Date:**	**11/19/2015**	**15:46:04**	**Dilution: 2**
60· Sample ID:	**QK13011-003**	**EPA Sample ID:**	**MBC777**		**Date:**	**11/19/2015**	**15:50:49**	**Dilution: 2**
61· Sample ID:	**CCV3**	**EPA Sample ID:**	**CCV003**		**Date:**	**11/19/2015**	**15:55:35**	**Dilution: 1**
62· Sample ID:	**CCB3**	**EPA Sample ID:**	**CCB003**		**Date:**	**11/19/2015**	**16:00:43**	**Dilution: 1**
63· Sample ID:	**QK13011-004**	**EPA Sample ID:**	**MBC778**		**Date:**	**11/19/2015**	**16:05:33**	**Dilution: 2**
64· Sample ID:	**QK13011-005**	**EPA Sample ID:**	**MBC779**		**Date:**	**11/19/2015**	**16:10:19**	**Dilution: 2**

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Data File: ***I5111915A ISM***

Analyst: ***NCM***

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Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
65.	Sample ID:	QK13011-006	EPA Sample ID:	MBC780		Date:	11/19/2015	16:15:05	Dilution:	2
66.	Sample ID:	QK13011-007	EPA Sample ID:	MBC781		Date:	11/19/2015	16:19:50	Dilution:	2
67.	Sample ID:	QK13011-008	EPA Sample ID:	MBC782		Date:	11/19/2015	16:24:36	Dilution:	2
68.	Sample ID:	QK13011-009	EPA Sample ID:	MBC783		Date:	11/19/2015	16:29:22	Dilution:	2
69.	Sample ID:	QK13011-011	EPA Sample ID:	MBC785		Date:	11/19/2015	16:34:09	Dilution:	2
70.	Sample ID:	QK13011-012	EPA Sample ID:	MBC786		Date:	11/19/2015	16:38:54	Dilution:	2
71.	Sample ID:	QK13011-013	EPA Sample ID:	MBC787		Date:	11/19/2015	16:43:40	Dilution:	2
72.	Sample ID:	QK13011-014	EPA Sample ID:	MBC788		Date:	11/19/2015	16:48:25	Dilution:	2
73.	Sample ID:	QK13011-015	EPA Sample ID:	MBC789		Date:	11/19/2015	16:53:11	Dilution:	2
74.	Sample ID:	QK13011-017	EPA Sample ID:	MBC790		Date:	11/19/2015	16:57:57	Dilution:	2
75.	Sample ID:	QK13011-018	EPA Sample ID:	MBC791		Date:	11/19/2015	17:02:43	Dilution:	5
76.	Sample ID:	QK13011-019	EPA Sample ID:	MBC792		Date:	11/19/2015	17:07:30	Dilution:	2
77.	Sample ID:	CCV4	EPA Sample ID:	CCV004		Date:	11/19/2015	17:12:17	Dilution:	1
78.	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/19/2015	17:17:23	Dilution:	1

Analytical Review Report

Data File: ***I5112015B ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
79· Sample ID:	**S0**	**EPA Sample ID:**	**S0**		**Date:**	**11/20/2015**	**17:36:57**	**Dilution:**	**1**
80· Sample ID:	**S01 ISM-520**	**EPA Sample ID:**	**S01**		**Date:**	**11/20/2015**	**17:41:43**	**Dilution:**	**1**
81· Sample ID:	**S02 ISM-521**	**EPA Sample ID:**	**S02**		**Date:**	**11/20/2015**	**17:46:29**	**Dilution:**	**1**
82· Sample ID:	**S03 ISM-538**	**EPA Sample ID:**	**S03**		**Date:**	**11/20/2015**	**17:51:13**	**Dilution:**	**1**
83· Sample ID:	**S04 ISM-523**	**EPA Sample ID:**	**S04**		**Date:**	**11/20/2015**	**17:56:36**	**Dilution:**	**1**
84· Sample ID:	**S05 ISM-524**	**EPA Sample ID:**	**S05**		**Date:**	**11/20/2015**	**18:02:01**	**Dilution:**	**1**
85· Sample ID:	**S06 ISM-463**	**EPA Sample ID:**	**S06**		**Date:**	**11/20/2015**	**18:07:34**	**Dilution:**	**1**
86· Sample ID:	**S07 ISM-464**	**EPA Sample ID:**	**S07**		**Date:**	**11/20/2015**	**18:12:18**	**Dilution:**	**1**
87· Sample ID:	**S08 ISM-465**	**EPA Sample ID:**	**S08**		**Date:**	**11/20/2015**	**18:17:06**	**Dilution:**	**1**
88· Sample ID:	**S09 ISM-456**	**EPA Sample ID:**	**S09**		**Date:**	**11/20/2015**	**18:21:49**	**Dilution:**	**1**
89· Sample ID:	**S10 ISM-457**	**EPA Sample ID:**	**S10**		**Date:**	**11/20/2015**	**18:26:37**	**Dilution:**	**1**
90· Sample ID:	**ICV2**	**EPA Sample ID:**	**ICV002**		**Date:**	**11/20/2015**	**18:31:29**	**Dilution:**	**1**
91· Sample ID:	**ICB2**	**EPA Sample ID:**	**ICB002**		**Date:**	**11/20/2015**	**18:36:20**	**Dilution:**	**1**
92· Sample ID:	**ICS-A2**	**EPA Sample ID:**	**ICSA002**		**Date:**	**11/20/2015**	**18:41:08**	**Dilution:**	**1**
93· Sample ID:	**ICS-AB2**	**EPA Sample ID:**	**ICSAB002**		**Date:**	**11/20/2015**	**18:45:59**	**Dilution:**	**1**
94· Sample ID:	**CCV5**	**EPA Sample ID:**	**CCV005**		**Date:**	**11/20/2015**	**18:50:58**	**Dilution:**	**1**
95· Sample ID:	**CCB5**	**EPA Sample ID:**	**CCB005**		**Date:**	**11/20/2015**	**18:56:17**	**Dilution:**	**1**
96· Sample ID:	**QK03007-009**	**EPA Sample ID:**	**MJHBQ7**		**Date:**	**11/20/2015**	**19:01:03**	**Dilution:**	**1**
Cd2288			1.5820	2000			13.00	0.60	5.00
Cu3273			462.1300	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		363780.0000	150000			0.00	18.80	100.00
Ni2316			515.9600	10000			1.00	1.10	40.00
Pb2203			45.3640	20000			3.00	3.50	10.00
97· Sample ID:	**QK03007-010**	**EPA Sample ID:**	**MJHBQ8**		**Date:**	**11/20/2015**	**19:06:01**	**Dilution:**	**1**
Cd2288			0.7020	2000			6.00	0.60	5.00
Cu3273			235.2900	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE		181400.0000	150000			0.00	18.80	100.00
Ni2316			292.7500	10000			0.00	1.10	40.00
Pb2203			16.0680	20000			11.00	3.50	10.00
98· Sample ID:	**QQ89663-001**	**EPA Sample ID:**	**PBS**		**Date:**	**11/20/2015**	**19:11:03**	**Dilution:**	**1**
Hardness	MB result is greater than High Det Lim		0.4299	1984500			0.00	0.00	3.10
99· Sample ID:	**QQ89663-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/20/2015**	**19:15:49**	**Dilution:**	**1**
100· Sample ID:	**QK13011-001**	**EPA Sample ID:**	**MBC775**		**Date:**	**11/20/2015**	**19:20:36**	**Dilution:**	**1**
Cd2288			4.2650	2000			3.00	0.04	0.50
Cu3273			196.6600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		246700.0000	150000			0.00	2.60	10.00
Ni2316			184.6500	10000			0.00	0.21	4.00
Pb2203			195.4600	20000			1.00	0.28	1.00
101· Sample ID:	**QK13011-001L**	**EPA Sample ID:**	**MBC775L**		**Date:**	**11/20/2015**	**19:25:27**	**Dilution:**	**5**
Cd2288	RPD IS OUT OF CRITERIA		1.0160	2000		19.0	12.00	0.04	0.50
Na5895	RPD IS OUT OF CRITERIA		187.4500	100000		26.0	16.00	4.90	500.00
Pb2203	RPD IS OUT OF CRITERIA		43.6830	20000		12.0	2.00	0.28	1.00

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Data File: ***I5112015B ISM***

Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
102· Sample ID:	**QK13011-001DU**	**EPA Sample ID:**	**MBC775D**		**Date:**	**11/20/2015**	**19:30:13**	**Dilution: 1**
Cd2288		5.2060	2000		0.0	1.00	0.04	0.50
Cu3273		216.0900	25000		0.0	2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	219430.0000	150000		0.0	0.00	2.60	10.00
Mg2790	RPD IS OUT OF CRITERIA	54970.0000	300000		38.0	0.00	9.70	500.00
Mn2576	RPD IS OUT OF CRITERIA	2616.6001	10000		25.0	2.00	0.09	1.50
Ni2316		174.2600	10000		0.0	0.00	0.21	4.00
Pb2203		317.2600	20000		0.0	1.00	0.28	1.00
103· Sample ID:	**QK13011-001MS**	**EPA Sample ID:**	**MBC775S**		**Date:**	**11/20/2015**	**19:35:06**	**Dilution: 1**
Cd2288		88.0900	2000	100.0		0.00	0.04	0.50
Cu3273		644.5400	25000	500.0		1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	183060.0000	150000			0.00	2.60	10.00
Mn2576	RECOVERY IS OUT OF CRITERIA	3117.8999	10000	1000.0	51.0	0.00	0.09	1.50
Ni2316		1017.9000	10000	1000.0		0.00	0.21	4.00
Pb2203		187.5200	20000	40.0		1.00	0.28	1.00
104· Sample ID:	**QK13011-001A**	**EPA Sample ID:**	**MBC775A**		**Date:**	**11/20/2015**	**19:39:58**	**Dilution: 1**
105· Sample ID:	**QK13011-002**	**EPA Sample ID:**	**MBC776**		**Date:**	**11/20/2015**	**19:44:46**	**Dilution: 1**
Cd2288		0.7638	2000			20.00	0.04	0.50
Cu3273		118.4600	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	216650.0000	150000			0.00	2.60	10.00
Ni2316		171.8900	10000			0.00	0.21	4.00
Pb2203		82.6660	20000			2.00	0.28	1.00
106· Sample ID:	**QK13011-003**	**EPA Sample ID:**	**MBC777**		**Date:**	**11/20/2015**	**19:49:37**	**Dilution: 1**
Cd2288		1.1990	2000			14.00	0.04	0.50
Cu3273		132.8700	25000			4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	223870.0000	150000			0.00	2.60	10.00
Ni2316		176.5400	10000			1.00	0.21	4.00
Pb2203		80.6090	20000			1.00	0.28	1.00
107· Sample ID:	**QK13011-004**	**EPA Sample ID:**	**MBC778**		**Date:**	**11/20/2015**	**19:54:27**	**Dilution: 1**
Cd2288		1.1700	2000			5.00	0.04	0.50
Cu3273		121.5700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	182730.0000	150000			0.00	2.60	10.00
Ni2316		164.9700	10000			0.00	0.21	4.00
Pb2203		86.0660	20000			1.00	0.28	1.00
108· Sample ID:	**QK13011-005**	**EPA Sample ID:**	**MBC779**		**Date:**	**11/20/2015**	**19:59:19**	**Dilution: 1**
Cd2288		1.0600	2000			12.00	0.04	0.50
Cu3273		127.8500	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	201880.0000	150000			0.00	2.60	10.00
Ni2316		175.2200	10000			0.00	0.21	4.00
Pb2203		80.8410	20000			2.00	0.28	1.00
109· Sample ID:	**QK13011-006**	**EPA Sample ID:**	**MBC780**		**Date:**	**11/20/2015**	**20:04:11**	**Dilution: 1**
Cd2288		1.3530	2000			16.00	0.04	0.50
Cu3273		128.0700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	203570.0000	150000			0.00	2.60	10.00
Ni2316		169.7300	10000			0.00	0.21	4.00
Pb2203		81.7960	20000			2.00	0.28	1.00
110· Sample ID:	**QK13011-007**	**EPA Sample ID:**	**MBC781**		**Date:**	**11/20/2015**	**20:09:01**	**Dilution: 1**
Cd2288		1.0310	2000			13.00	0.04	0.50
Cu3273		155.5500	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	176620.0000	150000			0.00	2.60	10.00
Ni2316		159.6300	10000			0.00	0.21	4.00
Pb2203		306.7700	20000			1.00	0.28	1.00

Analytical Review Report

Data File: ***I5112015B ISM***

Analyst: ***NCM***

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Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
111· Sample ID:	**QK13011-008**	**EPA Sample ID:**	**MBC782**		**Date:**	**11/20/2015**	**20:13:51**	**Dilution:** **1**
Cd2288		1.0330	2000			19.00	0.04	0.50
Cu3273		105.6900	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	221160.0000	150000			1.00	2.60	10.00
Ni2316		142.7600	10000			0.00	0.21	4.00
Pb2203		71.4720	20000			1.00	0.28	1.00
112· Sample ID:	**QK13011-009**	**EPA Sample ID:**	**MBC783**		**Date:**	**11/20/2015**	**20:18:43**	**Dilution:** **1**
Cd2288		0.9883	2000			10.00	0.04	0.50
Cu3273		129.9600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	181320.0000	150000			0.00	2.60	10.00
Ni2316		165.5400	10000			0.00	0.21	4.00
Pb2203		87.2200	20000			2.00	0.28	1.00
113· Sample ID:	**QK13011-010**	**EPA Sample ID:**	**MBC784**		**Date:**	**11/20/2015**	**20:23:36**	**Dilution:** **1**
114· Sample ID:	**CCV6**	**EPA Sample ID:**	**CCV006**		**Date:**	**11/20/2015**	**20:28:20**	**Dilution:** **1**
Tl1908	RECOVERY IS OUT OF CRITERIA	887.8200	2000	1000.0	89.0	0.00	3.80	25.00
115· Sample ID:	**CCB6**	**EPA Sample ID:**	**CCB006**		**Date:**	**11/20/2015**	**20:33:42**	**Dilution:** **1**
116· Sample ID:	**QK13011-011**	**EPA Sample ID:**	**MBC785**		**Date:**	**11/20/2015**	**20:38:30**	**Dilution:** **1**
Cd2288		1.0320	2000			12.00	0.04	0.50
Cu3273		158.0300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	162650.0000	150000			0.00	2.60	10.00
Ni2316		133.5500	10000			0.00	0.21	4.00
Pb2203		253.4000	20000			1.00	0.28	1.00
117· Sample ID:	**QK13011-012**	**EPA Sample ID:**	**MBC786**		**Date:**	**11/20/2015**	**20:43:21**	**Dilution:** **1**
Cd2288		77.0800	2000			0.00	0.04	0.50
Cu3273		846.6200	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	199580.0000	150000			0.00	2.60	10.00
Ni2316		176.0300	10000			0.00	0.21	4.00
Pb2203		1465.2000	20000			0.00	0.28	1.00
Sb2068		108.7100	5000			2.00	0.35	6.00
118· Sample ID:	**QK13011-013**	**EPA Sample ID:**	**MBC787**		**Date:**	**11/20/2015**	**20:48:12**	**Dilution:** **1**
Cd2288		2.7610	2000			8.00	0.04	0.50
Cu3273		419.7300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	168600.0000	150000			0.00	2.60	10.00
Ni2316		155.2600	10000			0.00	0.21	4.00
Pb2203		1065.3000	20000			0.00	0.28	1.00
119· Sample ID:	**QK13011-014**	**EPA Sample ID:**	**MBC788**		**Date:**	**11/20/2015**	**20:53:03**	**Dilution:** **1**
Cd2288		0.2866	2000			23.00	0.04	0.50
Cu3273		71.6270	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	175780.0000	150000			1.00	2.60	10.00
Ni2316		133.7900	10000			0.00	0.21	4.00
Pb2203		50.4120	20000			1.00	0.28	1.00
120· Sample ID:	**QK13011-015**	**EPA Sample ID:**	**MBC789**		**Date:**	**11/20/2015**	**20:57:46**	**Dilution:** **1**
Cd2288		0.8132	2000			20.00	0.04	0.50
Cu3273		128.9700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	160600.0000	150000			1.00	2.60	10.00
Ni2316		139.6200	10000			0.00	0.21	4.00
Pb2203		366.0800	20000			0.00	0.28	1.00
121· Sample ID:	**QK13011-016**	**EPA Sample ID:**	**MBC7H7**		**Date:**	**11/20/2015**	**21:02:38**	**Dilution:** **1**

Analytical Review Report

Data File: ***I5112015B ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
122· Sample ID:	**QK13011-017**	**EPA Sample ID:**	**MBC790**		**Date:**	**11/20/2015**	**21:07:29**	**Dilution: 1**
Cd2288		29.0700	2000			0.00	0.04	0.50
Cu3273		440.3600	25000			3.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	156220.0000	150000			0.00	2.60	10.00
Ni2316		132.8000	10000			0.00	0.21	4.00
Pb2203		530.2600	20000			0.00	0.28	1.00
123· Sample ID:	**QK13011-018**	**EPA Sample ID:**	**MBC791**		**Date:**	**11/20/2015**	**21:12:12**	**Dilution: 1**
Cd2288		1.5760	2000			4.00	0.04	0.50
Cu3273		133.2100	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	294550.0000	150000			0.00	2.60	10.00
Ni2316		201.3800	10000			0.00	0.21	4.00
Pb2203		102.5200	20000			1.00	0.28	1.00
124· Sample ID:	**QK13011-019**	**EPA Sample ID:**	**MBC792**		**Date:**	**11/20/2015**	**21:17:05**	**Dilution: 1**
Cd2288		7.7290	2000			1.00	0.04	0.50
Cu3273		231.7400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	230510.0000	150000			0.00	2.60	10.00
Ni2316		187.2100	10000			0.00	0.21	4.00
Pb2203		546.9300	20000			0.00	0.28	1.00
125· Sample ID:	**QK13011-020**	**EPA Sample ID:**	**MBC793**		**Date:**	**11/20/2015**	**21:21:57**	**Dilution: 1**
126· Sample ID:	**QK03007-001**	**EPA Sample ID:**	**MJHBP8**		**Date:**	**11/20/2015**	**21:26:51**	**Dilution: 5**
127· Sample ID:	**QK13011-001**	**EPA Sample ID:**	**MBC775**		**Date:**	**11/20/2015**	**21:31:37**	**Dilution: 2**
128· Sample ID:	**QK13011-001L**	**EPA Sample ID:**	**MBC775L**		**Date:**	**11/20/2015**	**21:36:22**	**Dilution: 2**
As1890	RPD IS OUT OF CRITERIA	3.6769	5000		83.0	17.00	0.39	1.00
Ba4554	RPD IS OUT OF CRITERIA	32.2030	20000		79.0	2.00	0.20	20.00
Ca2179	RPD IS OUT OF CRITERIA	2593.8999	300000		78.0	1.00	6.90	500.00
Cd2288	RPD IS OUT OF CRITERIA	0.4753	2000		78.0	14.00	0.04	0.50
Co2286	RPD IS OUT OF CRITERIA	8.9217	10000		79.0	3.00	0.07	5.00
Cr2677	RPD IS OUT OF CRITERIA	26.0690	20000		79.0	1.00	0.12	1.00
Cu3273	RPD IS OUT OF CRITERIA	20.7580	25000		79.0	3.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA	25044.0000	150000		78.0	0.00	2.60	10.00
K_7664	RPD IS OUT OF CRITERIA	1002.0000	112500		81.0	5.00	10.90	500.00
Mg2790	RPD IS OUT OF CRITERIA	6573.0000	300000		78.0	0.00	9.70	500.00
Mn2576	RPD IS OUT OF CRITERIA	292.3600	10000		79.0	1.00	0.09	1.50
Na5895	RPD IS OUT OF CRITERIA	16.7100	100000		97.0	71.00	4.90	500.00
Ni2316	RPD IS OUT OF CRITERIA	19.4450	10000		79.0	0.00	0.21	4.00
Pb2203	RPD IS OUT OF CRITERIA	21.5660	20000		78.0	3.00	0.28	1.00
Sb2068	RPD IS OUT OF CRITERIA	2.7707	5000		77.0	10.00	0.35	6.00
V_2924	RPD IS OUT OF CRITERIA	15.5240	5000		79.0	2.00	0.13	5.00
Zn2062	RPD IS OUT OF CRITERIA	97.5470	10000		79.0	0.00	0.26	6.00
129· Sample ID:	**QK13011-001DU**	**EPA Sample ID:**	**MBC775D**		**Date:**	**11/20/2015**	**21:41:08**	**Dilution: 2**
Fe2611	RPD IS OUT OF CRITERIA	113280.0000	150000		22.0	0.00	2.60	10.00
Mg2790	RPD IS OUT OF CRITERIA	27870.0000	300000		28.0	0.00	9.70	500.00
Pb2203	RPD IS OUT OF CRITERIA	166.8900	20000		34.0	0.00	0.28	1.00
130· Sample ID:	**QK13011-001MS**	**EPA Sample ID:**	**MBC775S**		**Date:**	**11/20/2015**	**21:45:53**	**Dilution: 2**
Mn2576	RECOVERY IS OUT OF CRITERIA	1634.0000	10000	1000.0	68.0	0.00	0.09	1.50
Sb2068	RECOVERY IS OUT OF CRITERIA	30.2830	5000	200.0	19.0	1.00	0.35	6.00
131· Sample ID:	**QK13011-001A**	**EPA Sample ID:**	**MBC775A**		**Date:**	**11/20/2015**	**21:50:37**	**Dilution: 2**
132· Sample ID:	**QK13011-002**	**EPA Sample ID:**	**MBC776**		**Date:**	**11/20/2015**	**21:55:20**	**Dilution: 2**
133· Sample ID:	**QK13011-003**	**EPA Sample ID:**	**MBC777**		**Date:**	**11/20/2015**	**22:00:03**	**Dilution: 2**

Analytical Review Report

Data File: ***I5112015B ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
134· **Sample ID:**	**CCV7**	**EPA Sample ID:**	**CCV007**		**Date:**	**11/20/2015**	**22:04:47**	**Dilution:**	**1**
Be3130	RECOVERY IS OUT OF CRITERIA		1105.2000	2000	1000.0	111.0	1.00	0.05	5.00
Tl1908	RECOVERY IS OUT OF CRITERIA		882.2200	2000	1000.0	88.0	1.00	3.80	25.00
135· **Sample ID:**	**CCB7**	**EPA Sample ID:**	**CCB007**		**Date:**	**11/20/2015**	**22:10:10**	**Dilution:**	**1**
136· **Sample ID:**	**QK13011-004**	**EPA Sample ID:**	**MBC778**		**Date:**	**11/20/2015**	**22:14:58**	**Dilution:**	**2**
137· **Sample ID:**	**QK13011-005**	**EPA Sample ID:**	**MBC779**		**Date:**	**11/20/2015**	**22:19:42**	**Dilution:**	**2**
138· **Sample ID:**	**QK13011-006**	**EPA Sample ID:**	**MBC780**		**Date:**	**11/20/2015**	**22:24:27**	**Dilution:**	**2**
139· **Sample ID:**	**QK13011-007**	**EPA Sample ID:**	**MBC781**		**Date:**	**11/20/2015**	**22:29:12**	**Dilution:**	**2**
140· **Sample ID:**	**QK13011-008**	**EPA Sample ID:**	**MBC782**		**Date:**	**11/20/2015**	**22:33:58**	**Dilution:**	**2**
141· **Sample ID:**	**QK13011-009**	**EPA Sample ID:**	**MBC783**		**Date:**	**11/20/2015**	**22:38:41**	**Dilution:**	**2**
142· **Sample ID:**	**QK13011-011**	**EPA Sample ID:**	**MBC785**		**Date:**	**11/20/2015**	**22:43:25**	**Dilution:**	**2**
143· **Sample ID:**	**QK13011-012**	**EPA Sample ID:**	**MBC786**		**Date:**	**11/20/2015**	**22:48:09**	**Dilution:**	**2**
144· **Sample ID:**	**QK13011-013**	**EPA Sample ID:**	**MBC787**		**Date:**	**11/20/2015**	**22:52:52**	**Dilution:**	**2**
145· **Sample ID:**	**QK13011-014**	**EPA Sample ID:**	**MBC788**		**Date:**	**11/20/2015**	**22:57:37**	**Dilution:**	**2**
146· **Sample ID:**	**QK13011-015**	**EPA Sample ID:**	**MBC789**		**Date:**	**11/20/2015**	**23:02:21**	**Dilution:**	**2**
147· **Sample ID:**	**QK13011-017**	**EPA Sample ID:**	**MBC790**		**Date:**	**11/20/2015**	**23:07:07**	**Dilution:**	**2**
148· **Sample ID:**	**QK13011-018**	**EPA Sample ID:**	**MBC791**		**Date:**	**11/20/2015**	**23:11:51**	**Dilution:**	**5**
149· **Sample ID:**	**QK13011-019**	**EPA Sample ID:**	**MBC792**		**Date:**	**11/20/2015**	**23:16:37**	**Dilution:**	**2**
150· **Sample ID:**	**CCV8**	**EPA Sample ID:**	**CCV008**		**Date:**	**11/20/2015**	**23:21:21**	**Dilution:**	**1**
Tl1908	RECOVERY IS OUT OF CRITERIA		880.8600	2000	1000.0	88.0	0.00	3.80	25.00
151· **Sample ID:**	**CCB8**	**EPA Sample ID:**	**CCB008**		**Date:**	**11/20/2015**	**23:26:46**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/23/15 1433

Prep Batch: 89663

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/16/2015 1121
End Date: 11/16/2015 1605
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) 15-1242(7/17/18)
Balance ID: Balance #9B
Hot Block ID: Hot Block #3
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89663-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ89663-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			pipette:247
QK13011-001	Sample	MBC775	1	ISM02.2 ICP	1.2870		0.0	100	05/09/2016 1335	11/17/2015	
QK13011-001MS	MS	MBC775S	1	ISM02.2 ICP	1.2140	15-934(10/16)	1.0	100			pipette:247
QK13011-001DU	Duplicate	MBC775D	1	ISM02.2 ICP	1.5630		0.0	100			
QK13011-002	Sample	MBC776	1	ISM02.2 ICP	1.1810		0.0	100	05/09/2016 1400	11/17/2015	
QK13011-003	Sample	MBC777	1	ISM02.2 ICP	1.2840		0.0	100	05/09/2016 1345	11/17/2015	
QK13011-004	Sample	MBC778	1	ISM02.2 ICP	1.3770		0.0	100	05/09/2016 1500	11/17/2015	
QK13011-005	Sample	MBC779	1	ISM02.2 ICP	1.3390		0.0	100	05/09/2016 1530	11/17/2015	
QK13011-006	Sample	MBC780	1	ISM02.2 ICP	1.4640		0.0	100	05/09/2016 1520	11/17/2015	
QK13011-007	Sample	MBC781	1	ISM02.2 ICP	1.3090		0.0	100	05/09/2016 1700	11/17/2015	
QK13011-008	Sample	MBC782	1	ISM02.2 ICP	1.3860		0.0	100	05/09/2016 1720	11/17/2015	
QK13011-009	Sample	MBC783	1	ISM02.2 ICP	1.3970		0.0	100	05/09/2016 1710	11/17/2015	
QK13011-010	Sample	MBC784	1	ISM02.2 ICP	1.4420		0.0	100	05/09/2016 1625	11/17/2015	
QK13011-011	Sample	MBC785	1	ISM02.2 ICP	1.1620		0.0	100	05/09/2016 1635	11/17/2015	
QK13011-012	Sample	MBC786	1	ISM02.2 ICP	1.3670		0.0	100	05/09/2016 1630	11/17/2015	
QK13011-013	Sample	MBC787	1	ISM02.2 ICP	1.3910		0.0	100	05/09/2016 1735	11/17/2015	
QK13011-014	Sample	MBC788	1	ISM02.2 ICP	1.2440		0.0	100	05/09/2016 1755	11/17/2015	
QK13011-015	Sample	MBC789	1	ISM02.2 ICP	1.2780		0.0	100	05/09/2016 1745	11/17/2015	
QK13011-016	Sample	MBC7H7	1	ISM02.2 ICP	1.1450		0.0	100	05/09/2016 1510	11/17/2015	
QK13011-017	Sample	MBC790	1	ISM02.2 ICP	1.0170		0.0	100	05/10/2016 1000	11/17/2015	
QK13011-018	Sample	MBC791	1	ISM02.2 ICP	1.2720		0.0	100	05/10/2016 1020	11/17/2015	
QK13011-019	Sample	MBC792	1	ISM02.2 ICP	1.4790		0.0	100	05/10/2016 1010	11/17/2015	
QK13011-020	Sample	MBC793	1	ISM02.2 ICP	1.3300		0.0	100	05/10/2016 1045	11/17/2015	

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/23/15 1433

Prep Batch: 89663

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/16/2015 1121
End Date: 11/16/2015 1605

Level 2 Analyst: ECS

Digestion Cup ID: 1504103/2103333

Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0

Filter Paper Lot Num: 50630759

Chem ID: IM6310-01(1/9/16) 15-1242(7/17 **Balance ID:** Balance #9B(/18)

Hot Block ID: Hot Block #3

Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report)

Total Samples: 20

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM- 520		
Date:	11/5/15	Solvent:	5% HCl (15-1127)	5% HNO_3 (15-1042)	
Comments:	S01 ICP ISM				
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese	15-79	15			15
Molybdenum	15-76	50			50
Nickel		40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: NUM	Working Standard No.: ISM-521 (EXP 2/5/16)
Date: 11/5/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP ISM.	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-76	200	0.8	200	800
□ N/A	Antimony	15-78	60	↓	↓	240
□ N/A	Arsenic	15-76	10	↓	↓	40
□ N/A	Barium	↓	200	↓	↓	800
□ N/A	Beryllium	↓	5	↓	↓	20
□ N/A	Cadmium	↓	5	↓	↓	20
□ N/A	Calcium	↓	5000	↓	↓	20000
□ N/A	Chromium	↓	10	↓	↓	40
□ N/A	Cobalt	↓	50	↓	↓	200
□ N/A	Copper	↓	25	↓	↓	100
□ N/A	Iron	↓	100	↓	↓	400
□ N/A	Lead	↓	10	↓	↓	40
□ N/A	Magnesium	↓	5000	↓	↓	20000
□ N/A	Manganese	15-76	15	↓	↓	60
□ N/A	Molybdenum	15-79	50	0.4	↓	100
□ N/A	Nickel	15-76	40	0.8	↓	160
□ N/A	Potassium	↓	5000	↓	↓	20000
□ N/A	Selenium	↓	35	↓	↓	140
□ N/A	Silver	↓	10	↓	↓	40
□ N/A	Sodium	↓	3000	↓	↓	12000
□ N/A	Thallium	↓	25	↓	↓	100
□ N/A	Titanium	15-79	50	0.4	↓	100
□ N/A	Vanadium	15-76	50	0.8	↓	200
□ N/A	Zinc	↓	60	↓	↓	240

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM - 538
Date:	11/13/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S03/CCV ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-377	1000	2.5	500	50000
□ N/A	Antimony	15-77	500			2500
□ N/A	Arsenic	15-81	500			2500
□ N/A	Barium		2000			10000
□ N/A	Beryllium		200			1000
□ N/A	Cadmium		200			1000
□ N/A	Calcium	15-377	10000			50000
□ N/A	Chromium	15-81	2000			10000
□ N/A	Cobalt		1000			5000
□ N/A	Copper		2500			12500
□ N/A	Iron	15-377	5000			25000
□ N/A	Lead	15-81	2000			10000
□ N/A	Magnesium	15-377	10000			50000
□ N/A	Manganese	15-81	1000			5000
□ N/A	Molybdenum	15-80	200			1000
□ N/A	Nickel	15-81	1000			5000
□ N/A	Potassium	15-377	7500			37500
□ N/A	Selenium	15-81	2500			1250
□ N/A	Silver		150			750
□ N/A	Sodium	15-377	5000			25000
□ N/A	Thallium	15-81	200			1000
□ N/A	Titanium	15-80	200			1000
□ N/A	Vanadium	15-81	500			2500
□ N/A	Zinc		1000			5000

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-523 (Exp 2/12/16)
Date:	11/12/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S04 ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	3.75	500	3750
☐ N/A	Arsenic	15-81	500	⊥	⊥	3750
☐ N/A	Barium	⊥	2000	⊥	⊥	15000
☐ N/A	Beryllium	⊥	200	⊥	⊥	1500
☐ N/A	Cadmium	⊥	200	⊥	⊥	1500
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	3.75	500	15000
☐ N/A	Cobalt	⊥	1000	⊥	⊥	750
☐ N/A	Copper	⊥	2500	⊥	⊥	18750
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	3.75	500	15000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	3.75	500	7500
☐ N/A	Molybdenum	15-80	200	⊥	⊥	1500
☐ N/A	Nickel	15-81	1000	⊥	⊥	7500
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	3.75	500	1875
☐ N/A	Silver	⊥	150	⊥	⊥	1125
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	3.75	500	1500
☐ N/A	Titanium	15-80	200	⊥	⊥	1500
☐ N/A	Vanadium	15-81	500	⊥	⊥	3750
☐ N/A	Zinc	⊥	1000	⊥	⊥	7500

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-524 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: 505 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	5	500	5000
☐ N/A	Arsenic	15-81	500	↓	↓	5000
☐ N/A	Barium	↓	2000	↓	↓	20000
☐ N/A	Beryllium	↓	200	↓	↓	2000
☐ N/A	Cadmium	↓	200	↓	↓	2000
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	5	500	20000
☐ N/A	Cobalt	↓	1000	↓	↓	10000
☐ N/A	Copper	↓	2500	↓	↓	250000
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	5	500	20000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	5	500	10000
☐ N/A	Molybdenum	15-80	200	↓	↓	2000
☐ N/A	Nickel	15-81	1000	↓	↓	10000
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	5	500	2500
☐ N/A	Silver	↓	150	↓	↓	1500
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	5	500	2000
☐ N/A	Titanium	15-80	200	↓	↓	2000
☐ N/A	Vanadium	15-81	500	↓	↓	5000
☐ N/A	Zinc	↓	1000	↓	↓	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: S07 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel			NA		
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOB ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Element Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RLT		Working Standard No.: ISM-457			
Date: 10-8-15		Solvent: 5% HCl (15-929) 5% HNO3 (15-931)			
Comments: S10 ICP		Expires 1-8-16			
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLT 10-8-15

RLT 10-8-15

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	↓	↓	↓	↓	994
Arsenic	↓	↓	↓	↓	999
Barium	↓	↓	↓	↓	497
Beryllium	↓	↓	↓	↓	495
Cadmium	↓	↓	↓	↓	496
Calcium	↓	↓	↓	↓	10026
Chromium	↓	↓	↓	↓	490
Cobalt	↓	↓	↓	↓	499
Copper	↓	↓	↓	↓	492
Iron	↓	↓	↓	↓	5082
Lead	↓	↓	↓	↓	1002
Magnesium	↓	↓	↓	↓	6074
Manganese	↓	↓	↓	↓	499
Molybdenum	NA	NA	↓	NA	NA
Nickel	15-135	*	↓	200	503
Potassium	↓	↓	↓	↓	10021
Selenium	↓	↓	↓	↓	1029
Silver	↓	↓	↓	↓	501
Sodium	↓	↓	↓	↓	10097
Thallium	↓	↓	↓	↓	1028
Titanium	NA	NA	↓	NA	NA
Vanadium	15-135	*	↓	200	501
Zinc	↓	↓	↓	↓	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-519 Exp 2/5/16
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	ISM ICSA ICP	* Provided by the EPA. No true value given by the EPA.	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt					
Copper					
Iron	14-1033	*	10	100	100700
Lead	11/5/15 NCM ~~14-1033~~ NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-522 (Exp 2/11/16)
Date: 11/11/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: ICSAB ISM	* Stock provided by EPA, no true value given

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	14-1034 + 14-1033	*	10/10	100	246800
□ N/A	Antimony	↓	↓	10	↓	618
□ N/A	Arsenic	↓	↓	↓	↓	104
□ N/A	Barium	↓	↓	↓	↓	537
□ N/A	Beryllium	↓	↓	↓	↓	495
□ N/A	Cadmium	↓	↓	↓	↓	972
□ N/A	Calcium	+ 14-1033	↓	10/10	↓	234900
□ N/A	Chromium	↓	↓	10	↓	542
□ N/A	Cobalt	↓	↓	↓	↓	476
□ N/A	Copper	↓	↓	↓	↓	571
□ N/A	Iron	+ 14-1033	↓	10/10	↓	99320
□ N/A	Lead	↓	↓	10	↓	49
□ N/A	Magnesium	+ 14-1033	↓	10/10	↓	248000
□ N/A	Manganese	↓	↓	10	↓	507
☒ N/A	Molybdenum	NA	NA	NA	NA	NA
□ N/A	Nickel	14-1034	*	10	100	954
☒ N/A	Potassium	NA	NA	NA	NA	NA
□ N/A	Selenium	14-1034	*	10	100	46
□ N/A	Silver	↓	↓	↓	↓	201
☒ N/A	Sodium	NA	NA	NA	NA	NA
□ N/A	Thallium	14-1034	*	10	100	108
☒ N/A	Titanium	NA	NA	NA	NA	NA
□ N/A	Vanadium	14-1034	*	10	100	491
□ N/A	Zinc	↓	↓	↓	↓	952

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In

Contract: EPW14035

Lab Code: EQI

Case No: 45717

MA No.:

SDG No: MBC775

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC775	QK13011-001			X	
MBC775D	QK13011-001DU			X	
MBC775S	QK13011-001MS			X	
MBC776	QK13011-002			X	
MBC777	QK13011-003			X	
MBC778	QK13011-004			X	
MBC779	QK13011-005			X	
MBC780	QK13011-006			X	
MBC781	QK13011-007			X	
MBC782	QK13011-008			X	
MBC783	QK13011-009			X	
MBC784	QK13011-010			X	
MBC785	QK13011-011			X	
MBC786	QK13011-012			X	
MBC787	QK13011-013			X	
MBC788	QK13011-014			X	
MBC789	QK13011-015			X	
MBC790	QK13011-017			X	
MBC791	QK13011-018			X	
MBC792	QK13011-019			X	
MBC793	QK13011-020			X	
MBC7H7	QK13011-016			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. 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: Robert

Name: Robert Zhu

Date: 12/2/2015

Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC775

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-001

% Solids: 69.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.57	*	11/20/2015	18:37:05

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC776

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-002

% Solids: 72.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.034	J*	11/20/2015	18:44:21

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC777

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-003

% Solids: 62.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	*	11/20/2015	18:47:10

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC778

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-004

% Solids: 47.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.061	J*	11/20/2015	18:49:11

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC779

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-005

% Solids: 54.6 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.037	J*	11/20/2015	18:52:06

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC780

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-006

% Solids: 53.0 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.054	J*	11/20/2015	18:54:11

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC781

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-007

% Solids: 46.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.076	J*	11/20/2015	18:56:31

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC782

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-008

% Solids: 47.5 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J*	11/20/2015	19:03:48

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC783

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-009

% Solids: 50.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.044	J*	11/20/2015	19:06:50

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC784

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-010

% Solids: 32.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.85	*	11/20/2015	19:09:01

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC785

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-011

% Solids: 62.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.28	*	11/20/2015	19:11:10

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC786

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-012

% Solids: 57.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	16.7	D*	12/01/2015	12:08:44

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC787

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-013

% Solids: 50.2 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.8	*	11/20/2015	19:16:44

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC788

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-014

% Solids: 73.0 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.051	J*	11/20/2015	19:18:46

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC789

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-015

% Solids: 58.6 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.063	J*	11/20/2015	19:20:50

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC790

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-017

% Solids: 74.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	3.5	D*	12/01/2015	12:11:15

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC791

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-018

% Solids: 79.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J*	11/20/2015	19:33:50

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC792

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-019

% Solids: 72.6 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.39	*	11/20/2015	19:35:58

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC793

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-020

% Solids: 57.3 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.1	*	11/20/2015	19:38:22

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

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Lab Sample ID: QK13011-016

% Solids: 49.4 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.028	J*	11/20/2015	19:24:10

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

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.0	100		5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120115ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV011				ID: CCV012		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	3.9	98		5.0	5.4	108		4.9	98	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120115ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV013				ID: CCV014		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.1	102		5.0	100	

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: CVAA Preparation Batch: 90138

Run Batch: HG3112015ISMA1 Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS001	Q
Mercury	0.17	J	0.20	U	0.20	U	0.20	U	0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix:

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

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID:	Q	ID:	Q	ID:	Q
Mercury			0.078	J						

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Preparation Blank Matrix: SOIL

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): MG/KG

Analytical Method: CVAA Preparation Batch: 90839

Run Batch: HG4120115ISMA Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB002	Q	ID: CCB014	Q	ID: CCB012	Q	ID: CCB013	Q	ID: PBS002	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.12	U

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC775S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 69.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	0.91		0.57		0.75	45	*

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC775D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Matrix: SOIL Analytical Method: CVAA

% Solids: 69.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury	0.15	0.57		0.70		20	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7470A

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

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.023	03/25/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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	1805															X											
S01	1.0	1808															X											
S02	1.0	1810															X											
S03	1.0	1813															X											
S04	1.0	1817															X											
S05	1.0	1819															X											
ICV001	1.0	1822															X											
ICB001	1.0	1826															X											
CCV001	1.0	1829															X											
CCB001	1.0	1832															X											
PBS001	1.0	1834															X											
MBC775	1.0	1837															X											
MBC775S	1.0	1839															X											
MBC775D	1.0	1841															X											
MBC776	1.0	1844															X											
MBC777	1.0	1847															X											
MBC778	1.0	1849															X											
MBC779	1.0	1852															X											
MBC780	1.0	1854															X											
MBC781	1.0	1856															X											
CCV002	1.0	1858															X											
CCB002	1.0	1901															X											
MBC782	1.0	1903															X											
MBC783	1.0	1906															X											
MBC784	1.0	1909															X											
MBC785	1.0	1911															X											
ZZZZZZ	1.0	1913																										
MBC787	1.0	1916															X											
MBC788	1.0	1918															X											
MBC789	1.0	1920															X											
MBC7H7	1.0	1924															X											
ZZZZZZ	1.0	1926																										
CCV003	1.0	1929															X											
CCB003	1.0	1931															X											
MBC791	1.0	1933															X											
MBC792	1.0	1935															X											
MBC793	1.0	1938															X											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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		
CCV004	1.0	1941															X											
CCB004	1.0	1944															X											
ZZZZZZ	1.0	1946																										
ZZZZZZ	1.0	1948																										
ZZZZZZ	1.0	1950																										
ZZZZZZ	1.0	1952																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1958																										
ZZZZZZ	1.0	2001																										
ZZZZZZ	1.0	2005																										
ZZZZZZ	1.0	2007																										
ZZZZZZ	1.0	2009																										
ZZZZZZ	1.0	2011																										
ZZZZZZ	1.0	2015																										
ZZZZZZ	1.0	2018																										
ZZZZZZ	1.0	2023																										
ZZZZZZ	1.0	2025																										
ZZZZZZ	1.0	2027																										
ZZZZZZ	1.0	2030																										
ZZZZZZ	1.0	2032																										
ZZZZZZ	1.0	2036																										
ZZZZZZ	1.0	2038																										
ZZZZZZ	1.0	2041																										
ZZZZZZ	1.0	2043																										
ZZZZZZ	1.0	2046																										
ZZZZZZ	1.0	2049																										
ZZZZZZ	1.0	2051																										
ZZZZZZ	1.0	2054																										
ZZZZZZ	1.0	2056																										
ZZZZZZ	1.0	2058																										
ZZZZZZ	1.0	2100																										
ZZZZZZ	1.0	2103																										
ZZZZZZ	1.0	2105																										
ZZZZZZ	1.0	2108																										
ZZZZZZ	1.0	2110																										
ZZZZZZ	1.0	2113																										
ZZZZZZ	1.0	2116																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

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		
ZZZZZZ	1.0	2118																										
ZZZZZZ	1.0	2120																										
ZZZZZZ	1.0	2122																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2127																										
ZZZZZZ	1.0	2129																										
ZZZZZZ	1.0	2131																										
ZZZZZZ	1.0	2133																										
ZZZZZZ	1.0	2135																										
ZZZZZZ	1.0	2137																										
ZZZZZZ	1.0	2141																										
ZZZZZZ	1.0	2143																										
ZZZZZZ	1.0	2145																										
ZZZZZZ	1.0	2148																										
ZZZZZZ	1.0	2150																										
ZZZZZZ	1.0	2152																										
ZZZZZZ	1.0	2155																										
ZZZZZZ	1.0	2157																										
ZZZZZZ	1.0	2200																										
ZZZZZZ	1.0	2202																										
ZZZZZZ	1.0	2205																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 12/01/2015 End Date: 12/01/2015

Run Batch: HG4120115ISMA

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	1030															X											
S01	1.0	1032															X											
S02	1.0	1035															X											
S03	1.0	1037															X											
S04	1.0	1040															X											
S05	1.0	1042															X											
ICV002	1.0	1045															X											
ICB002	1.0	1048															X											
CCV011	1.0	1050															X											
CCB011	1.0	1053															X											
ZZZZZZ	1.0	1055																										
ZZZZZZ	1.0	1058																										
ZZZZZZ	1.0	1100																										
ZZZZZZ	1.0	1103																										
ZZZZZZ	1.0	1105																										
ZZZZZZ	1.0	1108																										
ZZZZZZ	1.0	1110																										
ZZZZZZ	1.0	1113																										
ZZZZZZ	1.0	1115																										
ZZZZZZ	1.0	1118																										
CCV012	1.0	1120															X											
CCB012	1.0	1123															X											
ZZZZZZ	1.0	1125																										
ZZZZZZ	1.0	1128																										
ZZZZZZ	1.0	1130																										
ZZZZZZ	1.0	1133																										
ZZZZZZ	1.0	1135																										
ZZZZZZ	1.0	1138																										
ZZZZZZ	1.0	1140																										
ZZZZZZ	1.0	1143																										
ZZZZZZ	1.0	1145																										
ZZZZZZ	1.0	1148																										
CCV013	1.0	1150															X											
CCB013	1.0	1153															X											
ZZZZZZ	1.0	1156																										
ZZZZZZ	1.0	1158																										
ZZZZZZ	1.0	1201																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 12/01/2015 End Date: 12/01/2015

Run Batch: HG4120115ISMA

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		
ZZZZZZ	5.0	1203																										
PBS002	1.0	1206															X											
MBC786	10	1208															X											
MBC790	5.0	1211															X											
ZZZZZZ	20	1213																										
ZZZZZZ	20	1216																										
ZZZZZZ	20	1218																										
CCV014	1.0	1221															X											
CCB014	1.0	1223															X											
ZZZZZZ	1.0	1226																										
ZZZZZZ	10	1228																										
ZZZZZZ	10	1231																										
ZZZZZZ	50	1234																										
ZZZZZZ	50	1236																										
ZZZZZZ	50	1239																										
ZZZZZZ	1.0	1241																										
ZZZZZZ	1.0	1244																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.098	0	0.200	0.15	-23	0.500	0.49	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: Hg4 **Start Date:** 12/1/2015

Analytical Method: CVAA **Run Batch:** HG4120115ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.0040	0	0.200	0.18	-9	0.500	0.49	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.99	-1	5.00	4.9	-2	10.0	10	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC775

Instrument ID: Hg4 Start Date: 12/1/2015

Analytical Method: CVAA Run Batch: HG4120115ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	2	5.00	5.0	0	10.0	10.0	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9999	0.996	0.0201	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC775

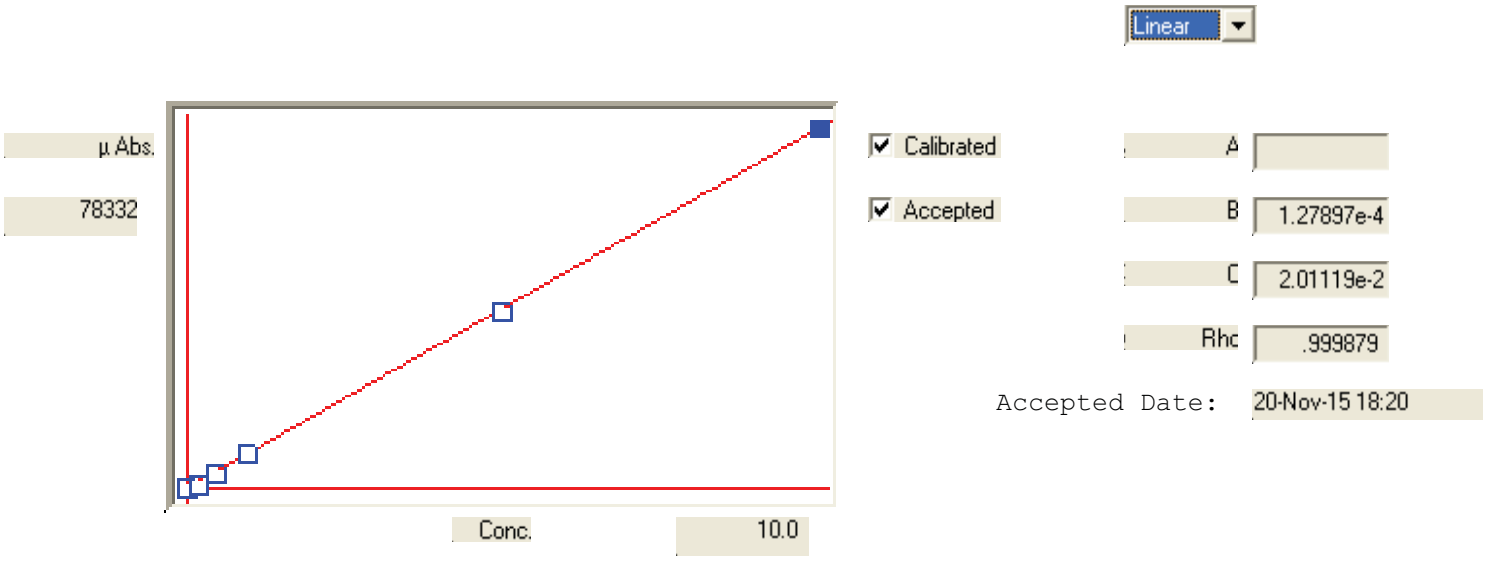
Instrument ID: Hg4 **Start Date:** 12/1/2015

Analytical Method: CVAA **Run Batch:** HG4120115ISMA

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.000	-0.00330	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.098	.098	612	0	612				
02	.20000	.154	-.046	1045	0%	1045				
03	.50000	.493	-.007	3701	0%	3701				
04	1.0000	.993	-.007	7606	0%	7606				
05	5.0000	4.92	-.077	38334	0%	38334				
06	10.000	10.0	.039	78332	0%	78332				
07										
08										
09										
10										

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1      S0      Seq:  140     18:05:04 20 Nov 15   HG

Hg    .000    ppb      612

*** Standard: 2 Rep: 1      S01     Seq:  141     18:08:44 20 Nov 15   HG

Hg    .200    ppb      1045

*** Standard: 3 Rep: 1     S02      Seq:  142     18:10:55 20 Nov 15   HG

Hg    .500    ppb      3701

*** Standard: 4 Rep: 1    S03       Seq:  143     18:13:55 20 Nov 15   HG

Hg    1.00    ppb      7606

*** Standard: 5 Rep: 1    S04       Seq:  144     18:17:01 20 Nov 15   HG

Hg    5.00    ppb      38334

*** Standard: 6 Rep: 1    S05       Seq:  145     18:19:47 20 Nov 15   HG

Hg    10.0    ppb      78332

*** Check Standard: 3  Ck3ICV0508   Seq:  146     18:22:13 20 Nov 15   HG ICV001
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     4.01    4.00  ppb        .000  %

*** Check Standard: 1  Ck1blank     Seq:  147     18:26:09 20 Nov 15   HG ICB001
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .167     .199     ppb        .000  %

*** Check Standard: 4  Ck4CCV1512   Seq:  148     18:29:39 20 Nov 15   HG CCV001
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.4     4.77    5.00  ppb        .000  %

*** Check Standard: 1  Ck1blank     Seq:  149     18:32:12 20 Nov 15   HG CCB001
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .016     .199     ppb        .000  %

*** Sample ID: QQ90138001 112015C    Seq:  150     18:34:46 20 Nov 15   HG
                            PBS
Hg    .023    ppb       .000  %   .023

================================================================================
*** Sample ID: QK13011001 112015C    Seq:  151     18:37:05 20 Nov 15   HG
                            MBC775
Hg    2.27    ppb       .000  %   2.27
                                                                              =
*** Sample ID: QK13011001 112015C    Seq:  152     18:39:40 20 Nov 15   HG
                            MBC775S
Hg    3.66    ppb       .000  %   3.66
                                                                              =
*** Sample ID: QK13011001 112015C    Seq:  153     18:41:50 20 Nov 15   HG
                            MBC775D
Hg    2.79    ppb       .000  %   2.79
                                                                              =
================================================================================
*** Sample ID: QK13011002 112015C    Seq:  154     18:44:21 20 Nov 15   HG
                            MBC776
Hg    .139    ppb       .000  %   .139
                                                                              =
================================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13011003 112015C    Seq:  155    18:47:10 20 Nov 15   HG
                           MBC777
Hg    .736    ppb       .000  %   .736
                                                                              =
==============================================================================
*** Sample ID: QK13011004 112015C    Seq:  156    18:49:11 20 Nov 15   HG
                           MBC777
Hg    .156    ppb       .000  %   .156
                                                                              =
==============================================================================
*** Sample ID: QK13011005 112015C    Seq:  157    18:52:06 20 Nov 15   HG
                           MBC779
Hg    .115    ppb       .000  %   .115
                                                                              =
==============================================================================
*** Sample ID: QK13011006 112015C    Seq:  158    18:54:11 20 Nov 15   HG
                           MBC780
Hg    .158    ppb       .000  %   .158
                                                                              =
==============================================================================
*** Sample ID: QK13011007 112015C    Seq:  159    18:56:31 20 Nov 15   HG
                           MBC781
Hg    .201    ppb       .000  %   .201
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  160     18:58:45 20 Nov 15   HG    CCV002
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.3     4.76    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  161     19:01:45 20 Nov 15   HG   CCB002
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.044     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13011008 112015C    Seq:  162    19:03:48 20 Nov 15   HG
                           MBC782
Hg    .121    ppb       .000  %   .121
                                                                              =
==============================================================================
*** Sample ID: QK13011009 112015C    Seq:  163    19:06:50 20 Nov 15   HG
                           MBC783
Hg    .115    ppb       .000  %   .115
                                                                              =
==============================================================================
*** Sample ID: QK13011010 112015C    Seq:  164    19:09:01 20 Nov 15   HG
                           MBC784
Hg    1.59    ppb       .000  %   1.59
                                                                              =
==============================================================================
*** Sample ID: QK13011011 112015C    Seq:  165    19:11:10 20 Nov 15   HG
                           MBC785
Hg    1.03    ppb       .000  %   1.03
                                                                              =
==============================================================================
*** Sample ID: QK13011012 112015C    Seq:  166    19:13:23 20 Nov 15   HG
                           MBC786
Hg    44.8    ppb       .000  %   44.8
                                                                              =
==============================================================================
*** Sample ID: QK13011013 112015C    Seq:  167    19:16:44 20 Nov 15   HG
                           MBC787
Hg    4.80    ppb       .000  %   4.80
                                                                              =
==============================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13011014 112015C    Seq:  168    19:18:46 20 Nov 15   HG
                           MBC788
Hg    .201    ppb       .000  %   .201
                                                                              =
================================================================================
*** Sample ID: QK13011015 112015C    Seq:  169    19:20:50 20 Nov 15   HG
                           MBC789
Hg    .189    ppb       .000  %   .189
                                                                              =
================================================================================
*** Sample ID: QK13011016 112015C    Seq:  170    19:24:10 20 Nov 15   HG
                           MBC7H7
Hg    .082    ppb       .000  %   .082
                                                                              =
================================================================================
*** Sample ID: QK13011017 112015C    Seq:  171    19:26:14 20 Nov 15   HG
                           MBC790
Hg    16.0    ppb       .000  %   16.0
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  172     19:29:15 20 Nov 15   HG    CCV003
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.7     4.38    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  173     19:31:26 20 Nov 15   HG   CCB003
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.014     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13011018 112015C    Seq:  174    19:33:50 20 Nov 15   HG
                           MBC791
Hg    .478    ppb       .000  %   .478
                                                                              =
================================================================================
*** Sample ID: QK13011019 112015C    Seq:  175    19:35:58 20 Nov 15   HG
                           MBC792
Hg    1.44    ppb       .000  %   1.44
                                                                              =
================================================================================
*** Sample ID: QK13011020 112015C    Seq:  176    19:38:22 20 Nov 15   HG
                           MBC793
Hg    3.07    ppb       .000  %   3.07
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  177     19:41:51 20 Nov 15   HG   CCV004
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          93.7     4.68    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  178     19:44:07 20 Nov 15   HG  CCB004
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .078     .199     ppb        .000  %
                                                                              =
*** Sample ID: QQ90139001 112015C    Seq:  179    19:46:21 20 Nov 15   HG
                           PBS
Hg    .034    ppb       .000  %   .034
                                                                              =
================================================================================
*** Sample ID: QK13012002 112015C    Seq:  180    19:48:21 20 Nov 15   HG
                           MBC794
Hg    .138    ppb       .000  %   .138
                                                                              =
================================================================================
*** Sample ID: QK13012003 112015C    Seq:  181    19:50:22 20 Nov 15   HG
                           MBC795
Hg    .701    ppb       .000  %   .701
                                                                              =
================================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13012004 112015C    Seq:  182    19:52:32 20 Nov 15   HG
                           MBC796
Hg    85.6    ppb       .000  %   85.6
                                                                              =
==============================================================================
*** Sample ID: QK13012005 112015C    Seq:  183    19:56:06 20 Nov 15   HG
                           MBC797
Hg    .126    ppb       .000  %   .126
                                                                              =
==============================================================================
*** Sample ID: QK13012006 112015C    Seq:  184    19:58:32 20 Nov 15   HG
                           MBC798
Hg    110.    ppb       .000  %   110.
                                                                              =
*** Sample ID: QK13012006 112015C    Seq:  185    20:01:58 20 Nov 15   HG
                           MBC798S
Hg    91.6    ppb       .000  %   91.6
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  186     20:05:00 20 Nov 15   HG   CCV005
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          91.1     4.56    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  187     20:07:05 20 Nov 15   HG   CCB005
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.017     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13012006 112015C    Seq:  188    20:09:10 20 Nov 15   HG
                           MBC798D
Hg    67.7    ppb       .000  %   67.7
                                                                              =
==============================================================================
*** Sample ID: QK13012007 112015C    Seq:  189    20:11:31 20 Nov 15   HG
                           MBC799
Hg    9.22    ppb       .000  %   9.22
                                                                              =
==============================================================================
*** Sample ID: QK13012008 112015C    Seq:  190    20:15:29 20 Nov 15   HG
                           MBC7A0
Hg    51.7    ppb       .000  %   51.7
                                                                              =
==============================================================================
*** Sample ID: QK13012009 112015C    Seq:  191    20:18:14 20 Nov 15   HG
                           MBC7A1
Hg    36.5    ppb       .000  %   36.5
                                                                              =
==============================================================================
*** Sample ID: QK13012010 112015C    Seq:  192    20:20:55 20 Nov 15   HG
                           MBC7A2
Hg    .519    ppb       .000  %   .519
                                                                              =
==============================================================================
*** Sample ID: QK13012011 112015C    Seq:  193    20:23:05 20 Nov 15   HG
                           MBC7A3
Hg    3.61    ppb       .000  %   3.61
                                                                              =
==============================================================================
*** Sample ID: QK13012012 112015C    Seq:  194    20:25:04 20 Nov 15   HG
                           MBC7A4
Hg    1.84    ppb       .000  %   1.84
                                                                              =
==============================================================================
```

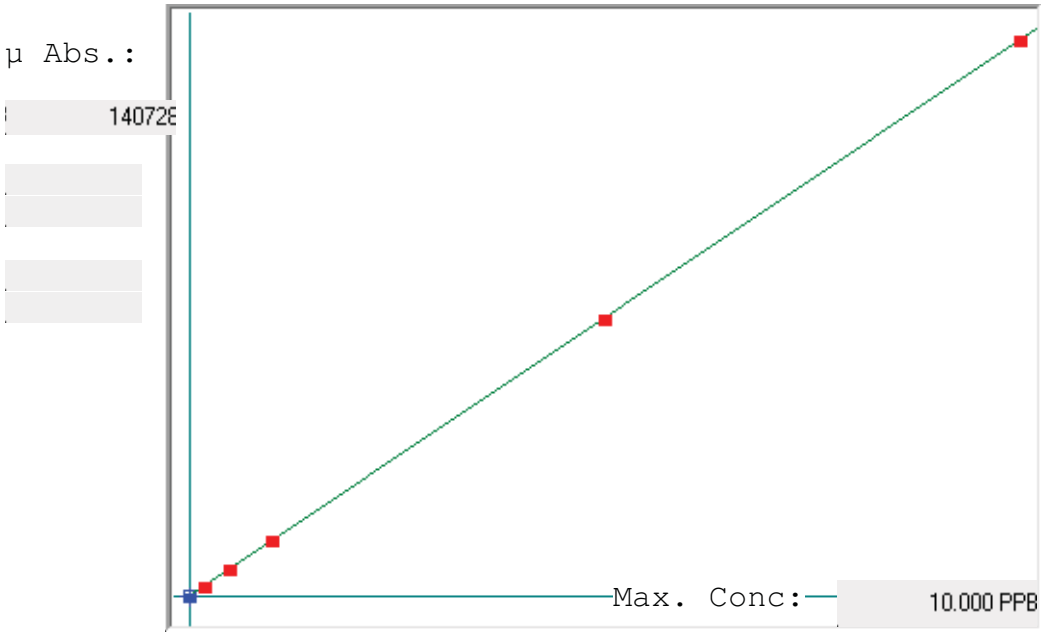
```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13012013 112015C    Seq:  195    20:27:16 20 Nov 15   HG
                           MBC7H9
Hg    .592    ppb       .000  %   .592
                                                                              =
==============================================================================
*** Sample ID: QK13012014 112015C    Seq:  196    20:30:47 20 Nov 15   HG
                           MBC7A5
Hg    .194    ppb       .000  %   .194
                                                                              =
==============================================================================
*** Sample ID: QK13012015 112015C    Seq:  197    20:32:49 20 Nov 15   HG
                           MBC7A6
Hg    .124    ppb       .000  %   .124
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  198     20:36:33 20 Nov 15   HG  CCV006
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.8     4.54    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  199     20:38:32 20 Nov 15   HG  CCB006
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.132     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13012016 112015C    Seq:  200    20:41:53 20 Nov 15   HG
                           MBC7A7
Hg    .085    ppb       .000  %   .085
                                                                              =
==============================================================================
*** Sample ID: QK13012017 112015C    Seq:  201    20:43:58 20 Nov 15   HG
                           MBC7A8
Hg    .416    ppb       .000  %   .416
                                                                              =
==============================================================================
*** Sample ID: QK13012018 112015C    Seq:  202    20:46:24 20 Nov 15   HG
                           MBC7A9
Hg    .536    ppb       .000  %   .536
                                                                              =
==============================================================================
*** Sample ID: QK13012019 112015C    Seq:  203    20:49:16 20 Nov 15   HG
                           MBC7B0
Hg    .642    ppb       .000  %   .642
                                                                              =
==============================================================================
*** Sample ID: QK13012020 112015C    Seq:  204    20:51:42 20 Nov 15   HG
                           MBC7D0
Hg    5.28    ppb       .000  %   5.28
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  205     20:54:18 20 Nov 15   HG  CCV007
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.5     4.38    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  206     20:56:23 20 Nov 15   HG  CCB007
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .098     .199     ppb        .000  %
                                                                              =
*** Sample ID: QQ90140001 112015C    Seq:  207    20:58:43 20 Nov 15   HG
                           PBS001
Hg    .021    ppb       .000  %   .021
                                                                              =
==============================================================================
*** Sample ID: QK13013001 112015C    Seq:  208    21:00:58 20 Nov 15   HG
                           MBC7C9
Hg    1.85    ppb       .000  %   1.85
                                                                              =
```

```
                              ***POST-RUN REPORT***
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK13013001 112015C    Seq:  209    21:03:03 20 Nov 15   HG
                           MBC7C9S
Hg    3.57    ppb       .000  %   3.57
                                                                              =
*** Sample ID: QK13013001 112015C    Seq:  210    21:05:18 20 Nov 15   HG
                           MBC7C9D
Hg    2.71    ppb       .000  %   2.71
                                                                              =
================================================================================
*** Sample ID: QK13013002 112015C    Seq:  211    21:08:28 20 Nov 15   HG
                           MBC7D1
Hg    1.19    ppb       .000  %   1.19
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  212     21:10:53 20 Nov 15   HG  CCV008
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          88.5     4.43    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  213     21:13:35 20 Nov 15   HG  CCB008
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .109     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK13013003 112015C    Seq:  214    21:16:06 20 Nov 15   HG
                           MBC7B1
Hg    .212    ppb       .000  %   .212
                                                                              =
================================================================================
*** Sample ID: QK13013004 112015C    Seq:  215    21:18:11 20 Nov 15   HG
                           MBC7B2
Hg    .011    ppb       .000  %   .011
                                                                              =
================================================================================
*** Sample ID: QK13013005 112015C    Seq:  216    21:20:12 20 Nov 15   HG
                           MBC7B3
Hg    .279    ppb       .000  %   .279
                                                                              =
================================================================================
*** Sample ID: QK13013006 112015C    Seq:  217    21:22:23 20 Nov 15   HG
                           MBC7B4
Hg    1.04    ppb       .000  %   1.04
                                                                              =
================================================================================
*** Sample ID: QK13013007 112015C    Seq:  218    21:24:39 20 Nov 15   HG
                           MBC7B6
Hg    2.03    ppb       .000  %   2.03
                                                                              =
================================================================================
*** Sample ID: QK13013008 112015C    Seq:  219    21:27:02 20 Nov 15   HG
                           MBC7H8
Hg   -.023    ppb       .000  %  -.023
                                                                              =
================================================================================
*** Sample ID: QK13013009 112015C    Seq:  220    21:29:17 20 Nov 15   HG
                           MBC7B7
Hg    .302    ppb       .000  %   .302
                                                                              =
================================================================================
*** Sample ID: QK17017-009 112015C    Seq:  221    21:31:31 20 Nov 15   HG
                           MBC7B9
Hg    .174    ppb       .000  %   .174
                                                                              =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: QK17017-010 112015C    Seq:  222    21:33:35 20 Nov 15   HG
                           MBC7C0
Hg    .225    ppb       .000  %   .225
                                                                              =
================================================================================
*** Sample ID: QK17017011 112015C    Seq:  223    21:35:39 20 Nov 15   HG
                           MBC7C1
Hg    .427    ppb       .000  %   .427
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  224     21:37:40 20 Nov 15   HG  CCV009
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.2     4.51    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  225     21:41:00 20 Nov 15   HG  CCB009
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.052     .199     ppb        .000  %
                                                                              =
*** Sample ID: QK17017012 112015C    Seq:  226    21:43:04 20 Nov 15   HG
                           MBC7C2
Hg    .232    ppb       .000  %   .232
                                                                              =
================================================================================
*** Sample ID: QK17017013 112015C    Seq:  227    21:45:30 20 Nov 15   HG
                           MBC7C3
Hg    .384    ppb       .000  %   .384
                                                                              =
================================================================================
*** Sample ID: QK17017014 112015C    Seq:  228    21:48:22 20 Nov 15   HG
                           MBC7C4
Hg    .252    ppb       .000  %   .252
                                                                              =
================================================================================
*** Sample ID: QK17017015 112015C    Seq:  229    21:50:36 20 Nov 15   HG
                           MBC7C5
Hg    .125    ppb       .000  %   .125
                                                                              =
================================================================================
*** Sample ID: QK17017016 112015C    Seq:  230    21:52:39 20 Nov 15   HG
                           MBC7C6
Hg    .110    ppb       .000  %   .110
                                                                              =
================================================================================
*** Sample ID: QK17017017 112015C    Seq:  231    21:55:23 20 Nov 15   HG
                           MBC7C7
Hg    .004    ppb       .000  %   .004
                                                                              =
================================================================================
*** Sample ID: QK17017018 112015C    Seq:  232    21:57:26 20 Nov 15   HG
                           MBC7C8
Hg    .020    ppb       .000  %   .020
                                                                              =
================================================================================
*** Sample ID: QK17017019 112015C    Seq:  233    22:00:08 20 Nov 15   HG
                           MBC7D2
Hg    .123    ppb       .000  %   .123
                                                                              =
*** Check Standard: 4  Ck4CCV1512   Seq:  234     22:02:15 20 Nov 15   HG  CCV010
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          80.1     4.00    5.00   ppb        .000  %
                                                                              =
*** Check Standard: 1  Ck1blank     Seq:  235     22:05:05 20 Nov 15   HG  CCB010
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .040     .199     ppb        .000  %
```

HG4ISMS

Linear



A= 0.0000e+000

B= 7.1034e-005

C= -3.2966e-003

Rho= 0.9999945

Accept= Accepted

Accepted Date=

12/01/15 10:45

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
BLANK S0	0.000	0.004	0.004	105	0.000	105				
CAL 1 0.2 S01	0.200	0.183	-0.017	2628	0.0 %	2628				
CAL 2 0.5 S02	0.500	0.490	-0.010	6947	0.0 %	6947				
CAL 3 1.0 S03	1.000	1.018	0.018	14371	0.0 %	14371				
CAL 4 5.0 S04	5.000	5.012	0.012	70597	0.0 %	70597				
CAL 5 10.0 S05	10.000	9.993	-0.007	140728	0.0 %	140728				

HG4120115ISMA

Method: HG4ISMS Operator: COH Date of Analysis: 01 Dec 2015 10:29:54

Sample ID	Extended ID	Conc.	µ Abs.	Date
BLANK S0 - 1		-	105	01 Dec 2015 10:30:21
CAL 1 0.2 S01 - 1		-	2628	01 Dec 2015 10:32:51
CAL 2 0.5 S02 - 1		-	6947	01 Dec 2015 10:35:23
CAL 3 1.0 S03 - 1		-	14371	01 Dec 2015 10:37:55
CAL 4 5.0 S04 - 1		-	70597	01 Dec 2015 10:40:27
CAL 5 10.0 S05 - 1		-	140728	01 Dec 2015 10:42:58
ICV002 EPA ICV5-0508 - 1		98.5% 3.9385	55491	01 Dec 2015 10:45:29
ICB002		0.0022	78	01 Dec 2015 10:48:00
CCV011		107.9% 5.3928	75965	01 Dec 2015 10:50:30
CCB 011		0.0039	101	01 Dec 2015 10:53:00
QQ90781001 - 1	PBS	0.0030	88	01 Dec 2015 10:55:31
QK09001001 - 1	ME6BD1	0.9654	13637	01 Dec 2015 10:58:02
QK09001001MS - 1	ME6BD1S	4.5082	63512	01 Dec 2015 11:00:33
QK09001001DU - 1	ME6BD1D	0.5733	8117	01 Dec 2015 11:03:04
QK09001002 - 1	ME6BD2	0.6268	8871	01 Dec 2015 11:05:34
QK09001003 - 1	ME6BD3	0.9329	13179	01 Dec 2015 11:08:05
QK09001004 - 1	ME6BD4	1.2020	16968	01 Dec 2015 11:10:36
QK09001005 - 1	ME6BD5	0.2609	3719	01 Dec 2015 11:13:07
QK09001006 - 1	ME6BD6	0.0578	860	01 Dec 2015 11:15:38
QK09001007 - 1	ME6BD7	0.3136	4461	01 Dec 2015 11:18:10
CCV 012		97.6% 4.8814	68765	01 Dec 2015 11:20:42
CCB 012		0.0027	84	01 Dec 2015 11:23:12
QK09001008 - 1	ME6BD8	0.7287	10305	01 Dec 2015 11:25:43
QK09001009 - 1	ME6BD9	0.4848	6871	01 Dec 2015 11:28:15
QK09001010 - 1	ME6BE0	0.3855	5473	01 Dec 2015 11:30:47
QK09001011 - 1	ME6BE1	0.3607	5124	01 Dec 2015 11:33:18
QK09001012 - 1	ME6BE2	2.9649	41785	01 Dec 2015 11:35:49
QK09001013 - 1	ME6BE3	0.1988	2845	01 Dec 2015 11:38:19
QK09001014 - 1	ME6BE4	3.3643	47408	01 Dec 2015 11:40:50
QK09001015 - 1	ME6BE5	3.3450	47137	01 Dec 2015 11:43:21
QK09001016 - 1	ME6BE6	24.9932	351893	01 Dec 2015 11:45:52
QK09001017 - 1	ME6BE8	5.0638	71333	01 Dec 2015 11:48:23
CCV 013		101.8% 5.0912	71719	01 Dec 2015 11:50:59
CCB 013		-0.0334	-424	01 Dec 2015 11:53:29
QK09001018 - 1	ME6BE9	4.7533	66962	01 Dec 2015 11:56:02
QK09001019 - 1	ME6BF0	1.4172	19998	01 Dec 2015 11:58:34
QK09001020 - 1	ME6BF1	1.2321	17392	01 Dec 2015 12:01:08
QK90001016(5) - 1	ME6BE6	4.8714	68624	01 Dec 2015 12:03:40
QQ90839001 - 1	PBS002	0.0130	229	01 Dec 2015 12:06:12
QK13011012(10) - 1	MBC786	5.4560	76854	01 Dec 2015 12:08:44
QK13011017(5) - 1	MBC790	2.7513	38778	01 Dec 2015 12:11:15
QK13012004(20) - 1	MBC796	3.2265	45468	01 Dec 2015 12:13:46
QK13012006(20) - 1	MBC798	12.6097	177562	01 Dec 2015 12:16:18
QK13012006MS(20) - 1	MBC798S	5.4004	76071	01 Dec 2015 12:18:49
CCV 014		100.6% 5.0276	70824	01 Dec 2015 12:21:22
CCB 014		0.0092	176	01 Dec 2015 12:23:52
QK13012006DU(20) - 1	MBC798D	7.6288	107443	01 Dec 2015 12:26:26
QK13012008(10) - 1	MBC7A0	5.3425	75256	01 Dec 2015 12:28:57
QK13012009(10) - 1	MBC7A1	9.2979	130939	01 Dec 2015 12:31:31
QK13012006(50) - 1	MBC798	5.1045	71906	01 Dec 2015 12:34:03
QK13012006MS(50) - 1	MBC798S	2.3106	32574	01 Dec 2015 12:36:36
QK13012006DU(50) - 1	MBC798D	3.2427	45696	01 Dec 2015 12:39:08
CCV 015		101.9% 5.0960	71786	01 Dec 2015 12:41:41
CCB 015		0.0181	301	01 Dec 2015 12:44:11

Mercury
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	Sample ID:	Std01Rep1	EPA Sample ID:	S0		Date:	11/20/2015	18:05:04	Dilution:	1
2·	Sample ID:	Std02Rep1	EPA Sample ID:	S01		Date:	11/20/2015	18:08:44	Dilution:	1
3·	Sample ID:	Std03Rep1	EPA Sample ID:	S02		Date:	11/20/2015	18:10:55	Dilution:	1
4·	Sample ID:	Std04Rep1	EPA Sample ID:	S03		Date:	11/20/2015	18:13:55	Dilution:	1
5·	Sample ID:	Std05Rep1	EPA Sample ID:	S04		Date:	11/20/2015	18:17:01	Dilution:	1
6·	Sample ID:	Std06Rep1	EPA Sample ID:	S05		Date:	11/20/2015	18:19:47	Dilution:	1
7·	Sample ID:	ICV1	EPA Sample ID:	ICV001		Date:	11/20/2015	18:22:13	Dilution:	1
8·	Sample ID:	ICB1	EPA Sample ID:	ICB001		Date:	11/20/2015	18:26:09	Dilution:	1
9·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV001		Date:	11/20/2015	18:29:39	Dilution:	1
10·	Sample ID:	CCB1	EPA Sample ID:	CCB001		Date:	11/20/2015	18:32:12	Dilution:	1
11·	Sample ID:	QQ90138-001	EPA Sample ID:	PBS001		Date:	11/20/2015	18:34:46	Dilution:	1
12·	Sample ID:	QK13011-001	EPA Sample ID:	MBC775		Date:	11/20/2015	18:37:05	Dilution:	1
13·	Sample ID:	QK13011-001MS	EPA Sample ID:	MBC775S		Date:	11/20/2015	18:39:40	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			3.6600	10	3.0	45.0	0.00	0.00	0.10
14·	Sample ID:	QK13011-001DU	EPA Sample ID:	MBC775D		Date:	11/20/2015	18:41:50	Dilution:	1
15·	Sample ID:	QK13011-002	EPA Sample ID:	MBC776		Date:	11/20/2015	18:44:21	Dilution:	1
16·	Sample ID:	QK13011-003	EPA Sample ID:	MBC777		Date:	11/20/2015	18:47:10	Dilution:	1
17·	Sample ID:	QK13011-004	EPA Sample ID:	MBC778		Date:	11/20/2015	18:49:11	Dilution:	1
18·	Sample ID:	QK13011-005	EPA Sample ID:	MBC779		Date:	11/20/2015	18:52:06	Dilution:	1
19·	Sample ID:	QK13011-006	EPA Sample ID:	MBC780		Date:	11/20/2015	18:54:11	Dilution:	1
20·	Sample ID:	QK13011-007	EPA Sample ID:	MBC781		Date:	11/20/2015	18:56:31	Dilution:	1
21·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV002		Date:	11/20/2015	18:58:45	Dilution:	1
22·	Sample ID:	CCB2	EPA Sample ID:	CCB002		Date:	11/20/2015	19:01:45	Dilution:	1
23·	Sample ID:	QK13011-008	EPA Sample ID:	MBC782		Date:	11/20/2015	19:03:48	Dilution:	1
24·	Sample ID:	QK13011-009	EPA Sample ID:	MBC783		Date:	11/20/2015	19:06:50	Dilution:	1
25·	Sample ID:	QK13011-010	EPA Sample ID:	MBC784		Date:	11/20/2015	19:09:01	Dilution:	1
26·	Sample ID:	QK13011-011	EPA Sample ID:	MBC785		Date:	11/20/2015	19:11:10	Dilution:	1
27·	Sample ID:	QK13011-012	EPA Sample ID:	MBC786		Date:	11/20/2015	19:13:23	Dilution:	1
Hg	PARAMETER IS OVER RANGE			44.8000	10			0.00	0.00	0.10
28·	Sample ID:	QK13011-013	EPA Sample ID:	MBC787		Date:	11/20/2015	19:16:44	Dilution:	1
29·	Sample ID:	QK13011-014	EPA Sample ID:	MBC788		Date:	11/20/2015	19:18:46	Dilution:	1
30·	Sample ID:	QK13011-015	EPA Sample ID:	MBC789		Date:	11/20/2015	19:20:50	Dilution:	1
31·	Sample ID:	QK13011-016	EPA Sample ID:	MBC7H7		Date:	11/20/2015	19:24:10	Dilution:	1
32·	Sample ID:	QK13011-017	EPA Sample ID:	MBC790		Date:	11/20/2015	19:26:14	Dilution:	1
Hg	PARAMETER IS OVER RANGE			16.0000	10			0.00	0.00	0.10
33·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV003		Date:	11/20/2015	19:29:15	Dilution:	1
34·	Sample ID:	CCB3	EPA Sample ID:	CCB003		Date:	11/20/2015	19:31:26	Dilution:	1
35·	Sample ID:	QK13011-018	EPA Sample ID:	MBC791		Date:	11/20/2015	19:33:50	Dilution:	1
36·	Sample ID:	QK13011-019	EPA Sample ID:	MBC792		Date:	11/20/2015	19:35:58	Dilution:	1
37·	Sample ID:	QK13011-020	EPA Sample ID:	MBC793		Date:	11/20/2015	19:38:22	Dilution:	1
38·	Sample ID:	Ck4CCV1512	EPA Sample ID:	CCV004		Date:	11/20/2015	19:41:51	Dilution:	1
39·	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/20/2015	19:44:07	Dilution:	1

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
40·	**Sample ID:**	**QQ90139-001**	**EPA Sample ID:**	**QQ90139-001MB**		**Date:**	**11/20/2015**	**19:46:21**	**Dilution:**	**1**
41·	**Sample ID:**	**QK13012-002**	**EPA Sample ID:**	**MBC794**		**Date:**	**11/20/2015**	**19:48:21**	**Dilution:**	**1**
42·	**Sample ID:**	**QK13012-003**	**EPA Sample ID:**	**MBC795**		**Date:**	**11/20/2015**	**19:50:22**	**Dilution:**	**1**
43·	**Sample ID:**	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**11/20/2015**	**19:52:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			85.6000	10			0.00	0.00	0.10
44·	**Sample ID:**	**QK13012-005**	**EPA Sample ID:**	**MBC797**		**Date:**	**11/20/2015**	**19:56:06**	**Dilution:**	**1**
45·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**19:58:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			110.0000	10			0.00	0.00	0.10
46·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**20:01:58**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			91.6000	10			0.00	0.00	0.10
47·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV005**		**Date:**	**11/20/2015**	**20:05:00**	**Dilution:**	**1**
48·	**Sample ID:**	**CCB5**	**EPA Sample ID:**	**CCB005**		**Date:**	**11/20/2015**	**20:07:05**	**Dilution:**	**1**
49·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/20/2015**	**20:09:10**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			67.7000	10			0.00	0.00	0.10
50·	**Sample ID:**	**QK13012-007**	**EPA Sample ID:**	**MBC799**		**Date:**	**11/20/2015**	**20:11:31**	**Dilution:**	**1**
51·	**Sample ID:**	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**11/20/2015**	**20:15:29**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE			51.7000	10			0.00	0.00	0.10
52·	**Sample ID:**	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**11/20/2015**	**20:18:14**	**Dilution:**	**1**
53·	**Sample ID:**	**QK13012-010**	**EPA Sample ID:**	**MBC7A2**		**Date:**	**11/20/2015**	**20:23:05**	**Dilution:**	**1**
54·	**Sample ID:**	**QK13012-012**	**EPA Sample ID:**	**MBC7A4**		**Date:**	**11/20/2015**	**20:25:04**	**Dilution:**	**1**
55·	**Sample ID:**	**QK13012-013**	**EPA Sample ID:**	**MBC7H9**		**Date:**	**11/20/2015**	**20:27:16**	**Dilution:**	**1**
56·	**Sample ID:**	**QK13012-014**	**EPA Sample ID:**	**MBC7A5**		**Date:**	**11/20/2015**	**20:30:47**	**Dilution:**	**1**
57·	**Sample ID:**	**QK13012-015**	**EPA Sample ID:**	**MBC7A6**		**Date:**	**11/20/2015**	**20:32:49**	**Dilution:**	**1**
58·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV006**		**Date:**	**11/20/2015**	**20:36:33**	**Dilution:**	**1**
59·	**Sample ID:**	**CCB6**	**EPA Sample ID:**	**CCB006**		**Date:**	**11/20/2015**	**20:38:32**	**Dilution:**	**1**
60·	**Sample ID:**	**QK13012-016**	**EPA Sample ID:**	**MBC7A7**		**Date:**	**11/20/2015**	**20:41:53**	**Dilution:**	**1**
61·	**Sample ID:**	**QK13012-017**	**EPA Sample ID:**	**MBC7A8**		**Date:**	**11/20/2015**	**20:43:58**	**Dilution:**	**1**
62·	**Sample ID:**	**QK13012-018**	**EPA Sample ID:**	**MBC7A9**		**Date:**	**11/20/2015**	**20:46:24**	**Dilution:**	**1**
63·	**Sample ID:**	**QK13012-019**	**EPA Sample ID:**	**MBC7B0**		**Date:**	**11/20/2015**	**20:49:16**	**Dilution:**	**1**
64·	**Sample ID:**	**QK13012-020**	**EPA Sample ID:**	**MBC7D0**		**Date:**	**11/20/2015**	**20:51:42**	**Dilution:**	**1**
65·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV007**		**Date:**	**11/20/2015**	**20:54:18**	**Dilution:**	**1**
66·	**Sample ID:**	**CCB7**	**EPA Sample ID:**	**CCB007**		**Date:**	**11/20/2015**	**20:56:23**	**Dilution:**	**1**
67·	**Sample ID:**	**QQ90140-001**	**EPA Sample ID:**	**QQ90140-001MB**		**Date:**	**11/20/2015**	**20:58:43**	**Dilution:**	**1**
68·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:00:58**	**Dilution:**	**1**
69·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:03:03**	**Dilution:**	**1**
70·	**Sample ID:**	**QK13013-001**	**EPA Sample ID:**	**MBC7C9**		**Date:**	**11/20/2015**	**21:05:18**	**Dilution:**	**1**
71·	**Sample ID:**	**QK13013-002**	**EPA Sample ID:**	**MBC7D1**		**Date:**	**11/20/2015**	**21:08:28**	**Dilution:**	**1**
72·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV008**		**Date:**	**11/20/2015**	**21:10:53**	**Dilution:**	**1**
73·	**Sample ID:**	**CCB8**	**EPA Sample ID:**	**CCB008**		**Date:**	**11/20/2015**	**21:13:35**	**Dilution:**	**1**
74·	**Sample ID:**	**QK13013-003**	**EPA Sample ID:**	**MBC7B1**		**Date:**	**11/20/2015**	**21:16:06**	**Dilution:**	**1**
75·	**Sample ID:**	**QK13013-004**	**EPA Sample ID:**	**MBC7B2**		**Date:**	**11/20/2015**	**21:18:11**	**Dilution:**	**1**
76·	**Sample ID:**	**QK13013-005**	**EPA Sample ID:**	**MBC7B3**		**Date:**	**11/20/2015**	**21:20:12**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
77·	**Sample ID:**	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/20/2015**	**21:22:23**	**Dilution:**	**1**
78·	**Sample ID:**	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/20/2015**	**21:24:39**	**Dilution:**	**1**
79·	**Sample ID:**	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/20/2015**	**21:27:02**	**Dilution:**	**1**
80·	**Sample ID:**	**QK13013-009**	**EPA Sample ID:**	**QK13013009**		**Date:**	**11/20/2015**	**21:29:17**	**Dilution:**	**1**
81·	**Sample ID:**	**QK13013-010**	**EPA Sample ID:**	**QK13013010**		**Date:**	**11/20/2015**	**21:31:31**	**Dilution:**	**1**
82·	**Sample ID:**	**QK13013-011**	**EPA Sample ID:**	**QK13013011**		**Date:**	**11/20/2015**	**21:33:35**	**Dilution:**	**1**
83·	**Sample ID:**	**QK13013-012**	**EPA Sample ID:**	**QK13013012**		**Date:**	**11/20/2015**	**21:35:39**	**Dilution:**	**1**
84·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV009**		**Date:**	**11/20/2015**	**21:37:40**	**Dilution:**	**1**
85·	**Sample ID:**	**CCB9**	**EPA Sample ID:**	**CCB009**		**Date:**	**11/20/2015**	**21:41:00**	**Dilution:**	**1**
86·	**Sample ID:**	**QK13013-013**	**EPA Sample ID:**	**QK13013013**		**Date:**	**11/20/2015**	**21:43:04**	**Dilution:**	**1**
87·	**Sample ID:**	**QK13013-014**	**EPA Sample ID:**	**QK13013014**		**Date:**	**11/20/2015**	**21:45:30**	**Dilution:**	**1**
88·	**Sample ID:**	**QK13013-015**	**EPA Sample ID:**	**QK13013015**		**Date:**	**11/20/2015**	**21:48:22**	**Dilution:**	**1**
89·	**Sample ID:**	**QK13013-016**	**EPA Sample ID:**	**QK13013016**		**Date:**	**11/20/2015**	**21:50:36**	**Dilution:**	**1**
90·	**Sample ID:**	**QK13013-017**	**EPA Sample ID:**	**QK13013017**		**Date:**	**11/20/2015**	**21:52:39**	**Dilution:**	**1**
91·	**Sample ID:**	**QK13013-018**	**EPA Sample ID:**	**QK13013018**		**Date:**	**11/20/2015**	**21:55:23**	**Dilution:**	**1**
92·	**Sample ID:**	**QK13013-019**	**EPA Sample ID:**	**QK13013019**		**Date:**	**11/20/2015**	**21:57:26**	**Dilution:**	**1**
93·	**Sample ID:**	**QK13013-020**	**EPA Sample ID:**	**QK13013020**		**Date:**	**11/20/2015**	**22:00:08**	**Dilution:**	**1**
94·	**Sample ID:**	**Ck4CCV1512**	**EPA Sample ID:**	**CCV010**		**Date:**	**11/20/2015**	**22:02:15**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			4.0000	10	5.0	80.0	0.00	0.02	0.20
95·	**Sample ID:**	**CCB10**	**EPA Sample ID:**	**CCB010**		**Date:**	**11/20/2015**	**22:05:05**	**Dilution:**	**1**

Analytical Review Report

Data File: *HG4120115ISMA*

Analyst: *COH*

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
96·	Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	12/1/2015	10:30:21	Dilution:	1
97·	Sample ID:	CAL 1 0-.2 S01	EPA Sample ID:	S01		Date:	12/1/2015	10:32:51	Dilution:	1
98·	Sample ID:	CAL 2 0-.5 S02	EPA Sample ID:	S02		Date:	12/1/2015	10:35:23	Dilution:	1
99·	Sample ID:	CAL 3 1-.0 S03	EPA Sample ID:	S03		Date:	12/1/2015	10:37:55	Dilution:	1
100·	Sample ID:	CAL 4 5-.0 S04	EPA Sample ID:	S04		Date:	12/1/2015	10:40:27	Dilution:	1
101·	Sample ID:	CAL 5 1-0.0 S05	EPA Sample ID:	S05		Date:	12/1/2015	10:42:58	Dilution:	1
102·	Sample ID:	ICV2	EPA Sample ID:	ICV002		Date:	12/1/2015	10:45:29	Dilution:	1
103·	Sample ID:	ICB2	EPA Sample ID:	ICB002		Date:	12/1/2015	10:48:00	Dilution:	1
104·	Sample ID:	CCV011	EPA Sample ID:	CCV011		Date:	12/1/2015	10:50:30	Dilution:	1
105·	Sample ID:	CCB011	EPA Sample ID:	CCB011		Date:	12/1/2015	10:53:00	Dilution:	1
106·	Sample ID:	QQ90781-001	EPA Sample ID:	PBS		Date:	12/1/2015	10:55:31	Dilution:	1
107·	Sample ID:	QK09001-001	EPA Sample ID:	ME6BD1		Date:	12/1/2015	10:58:02	Dilution:	1
108·	Sample ID:	QK09001-001MS	EPA Sample ID:	ME6BD1S		Date:	12/1/2015	11:00:33	Dilution:	1
109·	Sample ID:	QK09001-001DU	EPA Sample ID:	ME6BD1D		Date:	12/1/2015	11:03:04	Dilution:	1
110·	Sample ID:	QK09001-002	EPA Sample ID:	ME6BD2		Date:	12/1/2015	11:05:34	Dilution:	1
111·	Sample ID:	QK09001-003	EPA Sample ID:	ME6BD3		Date:	12/1/2015	11:08:05	Dilution:	1
112·	Sample ID:	QK09001-004	EPA Sample ID:	ME6BD4		Date:	12/1/2015	11:10:36	Dilution:	1
113·	Sample ID:	QK09001-005	EPA Sample ID:	ME6BD5		Date:	12/1/2015	11:13:07	Dilution:	1
114·	Sample ID:	QK09001-006	EPA Sample ID:	ME6BD6		Date:	12/1/2015	11:15:38	Dilution:	1
115·	Sample ID:	QK09001-007	EPA Sample ID:	ME6BD7		Date:	12/1/2015	11:18:10	Dilution:	1
116·	Sample ID:	CCV012	EPA Sample ID:	CCV012		Date:	12/1/2015	11:20:42	Dilution:	1
117·	Sample ID:	CCB012	EPA Sample ID:	CCB012		Date:	12/1/2015	11:23:12	Dilution:	1
118·	Sample ID:	QK09001-008	EPA Sample ID:	ME6BD8		Date:	12/1/2015	11:25:43	Dilution:	1
119·	Sample ID:	QK09001-009	EPA Sample ID:	ME6BD9		Date:	12/1/2015	11:28:15	Dilution:	1
120·	Sample ID:	QK09001-010	EPA Sample ID:	ME6BE0		Date:	12/1/2015	11:30:47	Dilution:	1
121·	Sample ID:	QK09001-011	EPA Sample ID:	ME6BE1		Date:	12/1/2015	11:33:18	Dilution:	1
122·	Sample ID:	QK09001-012	EPA Sample ID:	ME6BE2		Date:	12/1/2015	11:35:49	Dilution:	1
123·	Sample ID:	QK09001-013	EPA Sample ID:	ME6BE3		Date:	12/1/2015	11:38:19	Dilution:	1
124·	Sample ID:	QK09001-014	EPA Sample ID:	ME6BE4		Date:	12/1/2015	11:40:50	Dilution:	1
125·	Sample ID:	QK09001-015	EPA Sample ID:	ME6BE5		Date:	12/1/2015	11:43:21	Dilution:	1
126·	Sample ID:	QK09001-016	EPA Sample ID:	ME6BE6		Date:	12/1/2015	11:45:52	Dilution:	1
127·	Sample ID:	QK09001-017	EPA Sample ID:	ME6BE8		Date:	12/1/2015	11:48:23	Dilution:	1
128·	Sample ID:	CCV013	EPA Sample ID:	CCV013		Date:	12/1/2015	11:50:59	Dilution:	1
129·	Sample ID:	CCB013	EPA Sample ID:	CCB013		Date:	12/1/2015	11:53:29	Dilution:	1
130·	Sample ID:	QK09001-018	EPA Sample ID:	ME6BE9		Date:	12/1/2015	11:56:02	Dilution:	1
131·	Sample ID:	QK09001-019	EPA Sample ID:	ME6BF0		Date:	12/1/2015	11:58:34	Dilution:	1
132·	Sample ID:	QK09001-020	EPA Sample ID:	ME6BF1		Date:	12/1/2015	12:01:08	Dilution:	1
133·	Sample ID:	QK09001-016	EPA Sample ID:	ME6BE6		Date:	12/1/2015	12:03:40	Dilution:	5
134·	Sample ID:	QQ90839-001	EPA Sample ID:	PBS002		Date:	12/1/2015	12:06:12	Dilution:	1
135·	Sample ID:	QK13011-012	EPA Sample ID:	MBC786		Date:	12/1/2015	12:08:44	Dilution:	10
136·	Sample ID:	QK13011-017	EPA Sample ID:	MBC790		Date:	12/1/2015	12:11:15	Dilution:	5

Analytical Review Report

Data File: ***HG4120115ISMA***

Analyst: ***COH***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
137·	**Sample ID:**	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**12/1/2015**	**12:13:46**	**Dilution:**	**20**
138·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**12/1/2015**	**12:16:18**	**Dilution:**	**20**
139·	**Sample ID:**	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**12/1/2015**	**12:18:49**	**Dilution:**	**20**
140·	**Sample ID:**	**CCV014**	**EPA Sample ID:**	**CCV014**		**Date:**	**12/1/2015**	**12:21:22**	**Dilution:**	**1**
141·	**Sample ID:**	**CCB01**	**EPA Sample ID:**	**CCB014**		**Date:**	**12/1/2015**	**12:23:52**	**Dilution:**	**1**
142·	**Sample ID:**	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**12/1/2015**	**12:26:26**	**Dilution:**	**1**
Hg	RPD IS OUT OF CRITERIA			7.6288	25		188.0	0.00	0.00	0.10
143·	**Sample ID:**	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**12/1/2015**	**12:28:57**	**Dilution:**	**10**
144·	**Sample ID:**	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**12/1/2015**	**12:31:31**	**Dilution:**	**10**
145·	**Sample ID:**	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**12/1/2015**	**12:34:03**	**Dilution:**	**50**
146·	**Sample ID:**	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**12/1/2015**	**12:36:36**	**Dilution:**	**50**
147·	**Sample ID:**	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**12/1/2015**	**12:39:08**	**Dilution:**	**50**
Hg	RPD IS OUT OF CRITERIA			3.2427	25		46.0	0.00	0.00	0.10
148·	**Sample ID:**	**CCV015**	**EPA Sample ID:**	**CCV015**		**Date:**	**12/1/2015**	**12:41:41**	**Dilution:**	**1**
149·	**Sample ID:**	**CCB015**	**EPA Sample ID:**	**CCB015**		**Date:**	**12/1/2015**	**12:44:11**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1636

Prep Batch: 90138

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630759
Chem ID: IM6430-01(11/22/15) IM6215-01(**Balance ID:** Balance #9B15)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90138-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13011-001	Sample	MBC775	1	ISM02.2 HG	0.5730		0.0	50	12/07/2015 1335	11/17/2015	
QK13011-001MS	MS	MBC775S	1	ISM02.2 HG	0.5980	15HG1512(11	3.0	50			pipette:247
QK13011-001DU	Duplicate	MBC775D	1	ISM02.2 HG	0.5630		0.0	50			
QK13011-002	Sample	MBC776	1	ISM02.2 HG	0.5570		0.0	50	12/07/2015 1400	11/17/2015	
QK13011-003	Sample	MBC777	1	ISM02.2 HG	0.5990		0.0	50	12/07/2015 1345	11/17/2015	
QK13011-004	Sample	MBC778	1	ISM02.2 HG	0.5370		0.0	50	12/07/2015 1500	11/17/2015	
QK13011-005	Sample	MBC779	1	ISM02.2 HG	0.5680		0.0	50	12/07/2015 1530	11/17/2015	
QK13011-006	Sample	MBC780	1	ISM02.2 HG	0.5490		0.0	50	12/07/2015 1520	11/17/2015	
QK13011-007	Sample	MBC781	1	ISM02.2 HG	0.5760		0.0	50	12/07/2015 1700	11/17/2015	
QK13011-008	Sample	MBC782	1	ISM02.2 HG	0.5550		0.0	50	12/07/2015 1720	11/17/2015	
QK13011-009	Sample	MBC783	1	ISM02.2 HG	0.5170		0.0	50	12/07/2015 1710	11/17/2015	
QK13011-010	Sample	MBC784	1	ISM02.2 HG	0.5680		0.0	50	12/07/2015 1625	11/17/2015	
QK13011-011	Sample	MBC785	1	ISM02.2 HG	0.5900		0.0	50	12/07/2015 1635	11/17/2015	
QK13011-012	Sample	MBC786	1	ISM02.2 HG	0.5870		0.0	50	12/07/2015 1630	11/17/2015	
QK13011-013	Sample	MBC787	1	ISM02.2 HG	0.5200		0.0	50	12/07/2015 1735	11/17/2015	
QK13011-014	Sample	MBC788	1	ISM02.2 HG	0.5440		0.0	50	12/07/2015 1755	11/17/2015	
QK13011-015	Sample	MBC789	1	ISM02.2 HG	0.5140		0.0	50	12/07/2015 1745	11/17/2015	
QK13011-016	Sample	MBC7H7	1	ISM02.2 HG	0.5910		0.0	50	12/07/2015 1510	11/17/2015	
QK13011-017	Sample	MBC790	1	ISM02.2 HG	0.5930		0.0	50	12/08/2015 1000	11/17/2015	
QK13011-018	Sample	MBC791	1	ISM02.2 HG	0.5650		0.0	50	12/08/2015 1020	11/17/2015	
QK13011-019	Sample	MBC792	1	ISM02.2 HG	0.5050		0.0	50	12/08/2015 1010	11/17/2015	
QK13011-020	Sample	MBC793	1	ISM02.2 HG	0.5080		0.0	50	12/08/2015 1045	11/17/2015	
QQ90138-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90138-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	10.0	50			S05

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1636

Prep Batch: 90138

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630759
Chem ID: IM6430-01(11/22/15) IM6215-01(**Balance ID:** Balance #9B15)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90138-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	5.0	50			S04
QQ90138-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	1.0	50			S03
QQ90138-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	0.5	50			S02
QQ90138-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	0.2	50			S01
QQ90138-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90138-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90138-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90138-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1513(11	5.0	50			CCV

(end of report) **Total Samples: 20**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1637

Prep Batch: 90839

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/30/2015 1559
End Date: 11/30/2015 1629
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630754
Chem ID: IM6462-01(12/2/15) IM6215-01(1 **Balance ID:** Balance #9B5)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90839-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13011-012	Sample	MBC786	2	ISM02.2 HG	0.5650		0.0	50	12/07/2015 1630	11/17/2015	
QK13011-017	Sample	MBC790	2	ISM02.2 HG	0.5240		0.0	50	12/08/2015 1000	11/17/2015	
QK13012-004	Sample	MBC796	2	ISM02.2 HG	0.5680		0.0	50	12/08/2015 1130	11/17/2015	
QK13012-006	Sample	MBC798	2	ISM02.2 HG	0.5900		0.0	50	12/08/2015 1140	11/17/2015	
QK13012-006MS	MS	MBC798S	2	ISM02.2 HG	0.5570	15HG1544(12	3.0	50			
QK13012-006DU	Duplicate	MBC798D	2	ISM02.2 HG	0.5990		0.0	50			
QK13012-008	Sample	MBC7A0	2	ISM02.2 HG	0.5710		0.0	50	12/08/2015 1230	11/17/2015	
QK13012-009	Sample	MBC7A1	2	ISM02.2 HG	0.5370		0.0	50	12/08/2015 1220	11/17/2015	
QQ90839-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90839-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	10.0	50			S05
QQ90839-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	5.0	50			S04
QQ90839-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	1.0	50			S03
QQ90839-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	0.5	50			S02
QQ90839-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	0.2	50			S01
QQ90839-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90839-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90839-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90839-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1544(12	5.0	50			CCV

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/02/15 1637

Prep Batch: 90839

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/30/2015 1559
End Date: 11/30/2015 1629
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630754
Chem ID: IM6462-01(12/2/15) IM6215-01(1 **Balance ID:** Balance #9B5)
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report) **Total Samples: 6**

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM603006-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/28/15	CEH	15HG1538	100	0.5	100	0.5	15HG	1541
↓	↓	↓	↓	0.2	↓	0.2	15HG	1542
↓	↓	ICVS-0508	400	1	↓	4	15HG	1543
11/30/15	CEH	15HG1503	1000	10	100	100	15HG	1544
12/1/15	CEH	15HG1503	1000	10	100	100	15HG	1545
↓	↓	15HG1545	100	5	↓	5	15HG	1546
↓	↓	↓	↓	2	↓	2	15HG	1547
↓	↓	↓	↓	1	↓	1	15HG	1548
↓	↓	15HG1546	5	4	↓	0.2	15HG	1549
↓	↓	↓	↓	2	↓	0.1	15HG	1550
↓	↓	15HG1504	1000	10	↓	100	15HG	1551
↓	↓	↓	↓	8	↓	80	15HG	1552
↓	↓	15HG1551	100	2	↓	2	15HG	1553
12/1/15	KDB	15HG1503	1000	20	↓	200	15HG	1554
↓	↓	↓	↓	15	↓	150	15HG	1555
↓	↓	↓	↓	10	↓	100	15HG	1556
↓	↓	↓	↓	5	↓	50	15HG	1557
↓	↓	↓	↓	1	↓	10	15HG	1558
↓	↓	15HG1504	1000	50	↓	500	15HG	1559
↓	↓	↓	↓	10	↓	100	15HG	1560

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID		
11/17/15	KDB	15HG1220	1000	8	100	80	15HG	1501	
↓	↓	15HG1500	100	2	↓	2	15HG	1502	
11/18/15	KDB	15-138 (7/16)	1000 µg/mL	1	1000	1000	15HG	1503	
↓	↓	15-134 (8/16)	1000 µg/mL	1	1000	1000	15HG	1504	
11/18/15	KDB	15HG1503	1000	20	100	200	15HG	1505	
↓	↓	↓	~~15~~	15	↓	150	15HG	1506	11/18/ KD
↓	↓	↓	~~10~~	10	↓	100	15HG	1507	11/18/ KD
↓	↓	↓	~~5~~	5	↓	50	15HG	1508	11/18/ KD
↓	↓	↓	+ ↓	1	↓	10	15HG	1509	11/18 KD
↓	↓	15HG1504	1000	50	↓	500	15HG	1510	
↓	↓	↓	↓	10	↓	100	15HG	1511	
11/20/15	CEH	15HG1503	1000	10	100	100	15HG	1512	
11/23/15	CEH	15HG1503	1000	10	100	100	15HG	1513	
↓	↓	15HG1513	100	10	↓	10	15HG	1514	
↓	↓	↓	↓	5	↓	5	15HG	1515	
↓	↓	↓	↓	1	↓	1	15HG	1516	
↓	↓	↓	↓	0.5	↓	0.5	15HG	1517	
↓	↓	↓	↓	0.2	↓	0.2	15HG	1518	
↓	↓	ICVS-0508	400	1	↓	4	15HG	1519	
11/24/15	KDB	15HG1503	1000	10	100	100	15HG	1520	

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ89624-001		MB	1	4.41	4.41	0.0000	4.41	0	0	0	0	0.000		
QK13011-001		Sample	1	4.47	12.9274	8.4574	10.377	0	0	0	69.8441	69.8		
QK13011-002		Sample	1	4.36	14.2251	9.8651	11.5421	0	0	0	72.8031	72.8		
QK13011-003		Sample	1	4.36	11.6914	7.3314	8.9735	0	0	0	62.9279	62.9		
QK13011-004		Sample	1	4.43	13.7712	9.3412	8.9079	0	0	0	47.937	47.9		
QK13011-005		Sample	1	4.42	13.1611	8.7411	9.1915	0	0	0	54.5869	54.6		
QK13011-005DU		Duplicate	1	4.4	13.2908	8.8908	9.3101	0	0	0	55.2267	55.2	1.17	
QK13011-006		Sample	1	4.45	13.9242	9.4742	9.4727	0	0	0	53.0145	53.0		
QK13011-007		Sample	1	4.39	13.162	8.7720	8.439	0	0	0	46.1582	46.2		
QK13011-008		Sample	1	4.42	13.7538	9.3338	8.8521	0	0	0	47.4844	47.5		
QK13011-009		Sample	1	4.37	12.7949	8.4249	8.6014	0	0	0	50.2249	50.2		
QK13011-010		Sample	1	4.35	9.9124	5.5624	6.1752	0	0	0	32.8131	32.8		
QK13011-011		Sample	1	4.41	14.0947	9.6847	10.4895	0	0	0	62.7742	62.8		
QK13011-012		Sample	1	4.5	13.455	8.9550	9.6801	0	0	0	57.8458	57.8		
QK13011-013		Sample	1	4.45	12.2852	7.8352	8.3801	0	0	0	50.1595	50.2		
QK13011-014		Sample	1	4.37	12.7764	8.4064	10.5087	0	0	0	73.0241	73.0		
QK13011-015		Sample	1	4.38	12.4001	8.0201	9.0833	0	0	0	58.6439	58.6		
QK13011-015DU		Duplicate	1	4.45	14.343	9.8930	9.995	0	0	0	56.0497	56.0	4.52	
QK13011-016		Sample	1	4.39	13.7319	9.3419	9.0053	0	0	0	49.4042	49.4		
QK13011-017		Sample	1	4.37	11.5344	7.1644	9.7396	0	0	0	74.9483	74.9		
QK13011-018		Sample	1	4.41	13.3416	8.9316	11.5371	0	0	0	79.7964	79.8		
QK13011-019		Sample	1	4.48	13.4482	8.9682	10.9916	0	0	0	72.6076	72.6		
QK13011-020		Sample	1	4.47	13.3241	8.8541	9.5476	0	0	0	57.3474	57.3		
QK13012-002		Sample	1	4.51	13.5961	9.0861	10.7308	0	0	0	68.465	68.5		
QK13012-003		Sample	1	4.45	14.1965	9.7465	12.3969	0	0	0	81.5359	81.5		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13012-004		Sample	1	4.38	12.8388	8.4588	7.0849	0	0	0	31.9773	32.0		
QK13012-005		Sample	1	4.38	12.5807	8.2007	7.4697	0	0	0	37.676	37.7		
QK13012-006		Sample	1	4.48	12.4041	7.9241	7.6359	0	0	0	39.8266	39.8		
QK13012-006DU		Duplicate	1	4.45	9.6736	5.2236	6.4305	0	0	0	37.9144	37.9	4.92	
QK13012-007		Sample	1	4.39	12.9756	8.5856	7.2865	0	0	0	33.7367	33.7		
QK13012-008		Sample	1	4.38	12.0519	7.6719	7.1801	0	0	0	36.4981	36.5		
QK13012-009		Sample	1	4.44	12.633	8.1930	7.3536	0	0	0	35.562	35.6		
QK13012-010		Sample	1	4.46	13.5295	9.0695	6.5409	0	0	0	22.9439	22.9		
QK13012-011		Sample	1	4.47	13.7815	9.3115	8.5939	0	0	0	44.2882	44.3		
QK13012-012		Sample	1	4.36	13.5034	9.1434	7.3087	0	0	0	32.2494	32.2		
QK13012-013		Sample	1	4.39	12.6632	8.2732	10.9274	0	0	0	79.019	79.0		
QK13012-014		Sample	1	4.41	12.4145	8.0045	10.5471	0	0	0	76.6706	76.7		
QK13012-015		Sample	1	4.41	13.836	9.4260	12.5387	0	0	0	86.237	86.2		
QK13012-016		Sample	1	4.51	13.6369	9.1269	12.7118	0	0	0	89.864	89.9		
QK13012-016DU		Duplicate	1	4.46	14.4338	9.9738	13.3288	0	0	0	88.9209	88.9	1.05	
QK13012-017		Sample	1	4.45	14.0513	9.6013	10.9019	0	0	0	67.1981	67.2		
QK13012-018		Sample	1	4.41	12.0864	7.6764	9.0795	0	0	0	60.8292	60.8		
QK13012-019		Sample	1	4.49	11.7812	7.2912	9.0702	0	0	0	62.8181	62.8		
QK13012-020		Sample	1	4.4	11.5285	7.1285	9.9291	0	0	0	77.5633	77.6		
QK13013-001		Sample	1	4.46	11.121	6.6610	9.8436	0	0	0	80.8226	80.8		
QK13013-002		Sample	1	4.4	14.2943	9.8943	12.8962	0	0	0	85.8696	85.9		
QK13040-024		Sample	1	4.39	14.2779	9.8879	12.1781	0	0	0	78.7639	78.8		
QK13040-024DU		Duplicate	1	4.49	11.8548	7.3648	10.3095	0	0	0	79.0177	79.0	0.32	
QK13063-001		Sample	1	4.46	13.4403	8.9803	9.053	0	0	0	51.1452	51.1		

Total Items: 49 (23 samples)

(end of report)

ORIGIN ID:SWFA (303) 729-6121
WESTON SOLUTIONS, INC GOVT

1435 GARRISON ST STE 100

LAKEWOOD, CO 802154748
UNITED STATES US

SHIP DATE: 11NOV15
ACTWGT: 57.00 LB MAN
CAD: /POS1621
DIMS: 24x15x13 IN

BILL SENDER

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172
(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx
Express

2 of 2
MPS# 0681 7816 9795 6904
Mstr# 8088 5684 5233 0200

THU - 12 NOV 8:00A
FIRST OVERNIGHT
DSR
29172
SC-US **CAE**

X1 USCA

11/13/15

ORIGIN ID:SWFA

SHIP DATE: 12NOV15
ACTWGT: 29.00 LB
CAD: /POS1621
DIMS: 17x16x11 IN

BILL THIRD PARTY

UNITED STATES US

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172
(803) 791-9700
INV:
PO:
REF:
DEPT:

FedEx Express

2 of 2
MPS# 0681 7817 0584 8467
Mstr# 8044 6775 2093

0200

FRI - 13 NOV 3:00P
STANDARD OVERNIGHT
DSR
29172
SC-US **CAE**

XH USCA

11/13/15

Part # 156297-439 RIN 12JUL15 Rev 2 1/11 ©2005

ORIGIN ID:SWFA

SHIP DATE: 12NOV15
ACTWGT: 45.50 LB
CAD: /POS1621
DIMS: 22x14x14 IN

BILL THIRD PARTY

UNITED STATES US

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172

(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx
Express

1 of 2

TRK# 0200 **8044 6775 2093**

MASTER

XH USCA

FRI - 13 NOV 3:00P
STANDARD OVERNIGHT
DSR
29172
SC-US **CAE**

11/13/15

Obtain recip.

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC775	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	7816 9795 6904
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	8.2
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0808

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC775			QK13011 -001	ok
2	MBC776			-002	
3	MBC777			-003	
4	MBC778			-004	
5	MBC779			-005	
6	MBC780			-006	
7	MBC781			-007	
8	MBC782			-008	
9	MBC783			-009	
10	MBC784			-010	
11	MBC785			-011	
12	MBC786			-012	
13	MBC787			-013	
14	MBC788			-014	
15	MBC789			-015	
16	MBC7H7			-016	
17					
18					
19					
20					
21					
22					

MM 11/13/15

* Contact SMO and attach record of resolution

Reviewed By	RS	Logbook No.	MM
Date	11/16/15	Logbook Page No.	

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13011-008	% Solid Snaps	11/13/2015 20:45	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-006	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-005	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-003	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-019	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-018	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-017	% Solid Snaps	11/13/2015 20:45	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-015	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-014	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-012	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-020	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-009	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-007	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-005	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-004	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-002	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-010	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-016	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-015	% Solid Snaps	11/13/2015 20:46	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-013	% Solid Snaps	11/13/2015 20:47	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-011	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-001	% Solid Snaps	11/13/2015 20:48	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13011-007	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-020	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-008	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-013	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-014	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-016	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-004	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-003	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-018	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-011	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-015	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-006	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-009	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-010	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-001	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-012	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-019	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-017	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-002	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-001	9 oz G	11/16/2015 10:21	SR (WI # 1)	IM Prep	True	COH
QK13011-005	9 oz G	11/16/2015 10:37	SR (WI # 1)	IM Prep	True	COH
QK13011-018	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-002	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-012	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-019	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-005	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-018	% Solid Snaps	11/16/2015 15:10		Hazardous Solid	True	DMA
QK13011-015	% Solid Snaps	11/16/2015 15:14		Hazardous Solid	True	DMA
QK13011-005	% Solid Snaps	11/16/2015 15:15		Hazardous Solid	True	DMA
QK13011-007	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-016	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13011-001	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-014	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-010	9 oz G	11/16/2015 13:56	IM Prep	SR (WI # 1)	True	COH
QK13011-020	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-007	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-008	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-013	% Solid Snaps	11/16/2015 15:10		Hazardous Solid	True	DMA
QK13011-009	% Solid Snaps	11/16/2015 15:14		Hazardous Solid	True	DMA
QK13011-004	% Solid Snaps	11/16/2015 15:15		Hazardous Solid	True	DMA
QK13011-015	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-017	% Solid Snaps	11/16/2015 15:17		Hazardous Solid	True	DMA
QK13011-001	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-011	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-004	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-006	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-016	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-012	% Solid Snaps	11/16/2015 15:08		Hazardous Solid	True	DMA
QK13011-001	% Solid Snaps	11/16/2015 15:14		Hazardous Solid	True	DMA
QK13011-006	% Solid Snaps	11/16/2015 15:15		Hazardous Solid	True	DMA
QK13011-002	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-008	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-011	% Solid Snaps	11/16/2015 15:18		Hazardous Solid	True	DMA
QK13011-009	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-013	9 oz G	11/16/2015 13:55	IM Prep	SR (WI # 1)	True	COH
QK13011-017	9 oz G	11/16/2015 13:56	IM Prep	SR (WI # 1)	True	COH
QK13011-015	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-003	9 oz G	11/16/2015 13:57	IM Prep	SR (WI # 1)	True	COH
QK13011-014	% Solid Snaps	11/16/2015 15:06		Hazardous Solid	True	DMA
QK13011-020	% Solid Snaps	11/16/2015 15:14		Hazardous Solid	True	DMA
QK13011-019	% Solid Snaps	11/16/2015 15:14		Hazardous Solid	True	DMA
QK13011-010	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-005	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13011-003	% Solid Snaps	11/16/2015 15:18		Hazardous Solid	True	DMA
QK13011-006	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-010	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-007	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-011	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-018	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-013	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-003	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-019	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-017	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-009	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-015	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-001	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-016	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-004	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-012	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-014	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-005	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-020	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-008	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH
QK13011-002	9 oz G	11/20/2015 14:05	SR (WI # 1)	IM Prep	True	COH

Internal Chain-of-Custody Report

Printed: 11/27/2015 1858

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13011-019	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-015	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-010	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-011	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-018	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-020	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-007	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-001	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-004	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-009	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-013	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-003	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-017	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-012	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-014	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13011-005	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-016	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-002	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-008	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13011-006	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Site Assessment Team 2 (SAT) for each EPA Region. The WESTON Region 8 Start IV Contract EP-S8-13-01 Region 2 Site Assessment Team provides support to EPA Region 2.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON SAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, well, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples.* Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice have been tentatively classified by the field response team as:

__X__ Environmental ____ Hazardous ____ Comb. (Envir. & Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions .to provide protection against possible radiological or chemical exposure:

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON SAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by: Denise Breen Date 11/11/15

Case No. 45717 Date 11/11/15

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Shealy Environmental

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Site Assessment Team 2 (SAT) for each EPA Region. The WESTON Region 8 Start IV Contract EP-S8-13-01 Region 2 Site Assessment Team provides support to EPA Region 2.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON SAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, well, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples.* Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice have been tentatively classified by the field response team as:

__X__ Environmental ____ Hazardous ____ Comb. (Envir. & Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions .to provide protection against possible radiological or chemical exposure:

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON SAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by: Denise Breen Date 11/12/15

Case No. 45717 Date 11/12/15

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Shealy

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

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This form was prepared by: Denise Breen Date 11/12/15

Case No. 45717 Date 11/12/15

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Sneary