

# Report of Trace Metals Analyses Water

**Project:** Great Salt Lake Water Quality Sampling Plan

**Samples Collected:** July 26, 2012

**Report Date:** October 19, 2012

**Prepared for:**

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Project ID: UDE-SL1201



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## Case Narrative

### Shipping and Receiving

On July 31, 2012, Brooks Rand Labs (BRL) received four (4) water samples at 08:30 A.M. in one (1) cooler with ice all at the temperature of than 3.2 °C. The chain-of-custody (COC) forms requested analysis for mercury (Hg), monomethyl mercury (MeHg), and trace metals [arsenic (As), cadmium (Cd), copper (Cu), lead (Pb), selenium (Se), and thallium (Tl)]. The samples were received and stored securely according to BRL standard operating procedures (SOP) and EPA methodology.

A myriad of bottles were received for samples *Site #9 Upper* and *Site #10 Upper*. Three 250-mL HDPE and one 250-mL FLPE bottle accompanied sample *Site #9 Upper*. The three 250-mL HDPE bottles were preserved, composited into a 1-L HDPE container, and assigned trace metals analysis. The additional one 250-mL FLPE was designated as extra volume for Hg analysis. Four 250-mL HDPE bottles were assigned to sample *Site #10 Upper*. These bottles were preserved and then transferred to a 1-L HDPE bottle for trace metals analysis.

### Preservation and Holding Time

All method and SOP requirements for preservation and holding time were satisfied.

### Total Mercury in Water by EPA Method 1631 (SOP BR-0006)

All samples are prepared and analyzed in accordance with EPA Method 1631. Samples are oxidized with bromine monochloride (BrCl) and then analyzed with stannous chloride (SnCl<sub>2</sub>) reduction, single gold amalgamation, and cold vapor atomic fluorescence spectroscopy (CVAFS) detection using a BRL Model III CVAFS Mercury Analyzer.

The results were method blank-corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

### Sequence 1200662

The analysis of instrument blank IBL4 was slightly elevated, though still within an acceptable level (< 40 pg). An analytical trap check and purge vessel check were performed. As a precautionary measure the IBL was re-analyzed as IBL5 and produced a lower result that was more consistent with the other IBLs in this sequence. IBL5 was reported in place of IBL4.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

### Batch B121430

The same analytical trap and purge vessel used to analyze IBL4 were also used for the analysis of the third method blank –BLK3. The result of the method blank was greater than the MDL, but within the method acceptance criteria.

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

## **Methylmercury in Water by EPA Method 1630 (SOP BR-0011)**

Water samples are prepared by distillation. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS).

The results were method blank-corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

### **Sequence 1200672**

The analysis of continuing calibration blanks CCB1 and CCB2 returned detectable results due to carryover. However, no sample results were bracketed by either analysis and no further corrective action was necessary.

Similarly, CCB4 result was elevated and immediately following CCB5 was analyzed. The CCB5 result was acceptable and the analysis was continued.

The analysis of CCB6 was elevated as well. The next two samples analyzed were greater than 10x the level of CCB6, and the samples analyzed at run 35 & 36 were **B** flagged and **U** flagged; indicating any possible contamination was cleared.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

### **Batch B121520**

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

## **ICP-MS Analysis by EPA Draft Method 1640, Mod. (BRL SOP BR-0066)**

Samples are preserved to 0.2% (v/v) with pre-tested concentrated HNO<sub>3</sub> and then prepared by reductive precipitation (RP) according to EPA Method 1640. The procedure concentrates the samples by a factor of four and is a useful method for achieving a low level of detection for brackish waters and seawaters.

This method involves a reductive precipitation of all metals by sodium borohydride (NaBH<sub>4</sub>) followed by a filtration of the precipitate through a pre-cleaned 0.2- $\mu$ m filter. The majority of the saltwater matrix remains in the filtrate. The metals on the filter are then digested and oxidized with nitric acid (HNO<sub>3</sub>) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).

Sample aliquots for Column chelation were adjusted to a pH of 1% (v/v) HNO<sub>3</sub>. Sample extracts are then analyzed by inductively coupled plasma — mass spectrometry (ICP-MS) according to EPA Method 1640.

Aliquots of prepared sample were analyzed with a Perkin Elmer ELAN with internal standardization. Briefly, this method incorporates ionization of the sample in inductively coupled RF plasma, with detection of the resulting ions by mass spectrometer on the basis of their mass-to-charge ratio.

When the native sample concentration was a non-detect (reported as ND) and the corresponding DUP was also a non-detect, the RPD has been reported as 'N/C'.

The recoveries of the matrix spike or matrix spike duplicates (MS/MSD) were not reported (NR) when spiked at a concentration less than 25% of the native sample value.

**Sequence 1200644**

The As, Se, and TI analysis of instrument calibration blank ICB2 were greater than the level of the low calibration standard. This ICB did not bracket the analysis of client samples and the cause was attributed to carryover from the high calibration standard which was analyzed immediately prior to ICB2.

The independent calibration verification standard ICV1 did not recovery with the acceptance criteria range for the TI analysis. A second ICV (ICV2) was prepared, analyzed, and recovered at 108%. BRL deemed the recovery of ICV1 a result of a spiking error and ICV2 was reported in place of ICV1.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

**Batch B121403**

The SRM SLEW-3 is not reported for Se and TI since the SRM was not certified for either of these analytes.

Quality control samples MS3 and MS4 are seawater samples collected in Puget Sound and spiked with analytes of a known concentration.

The matrix spike/matrix spike duplicate (MS/MSD) sets were spiked with As concentrations slightly less than the values of the native sample results. Therefore, the recoveries are not valid indicators of data quality and were reported to demonstrate duplicate precision. No sample results were qualified on the basis of the MS or MSD recoveries for the As analysis.

**Sequence 1200624**

The Cu result of instrument calibration blank ICB2 was greater than the level of the low calibration standard. This ICB did not bracket the analysis of client samples and the cause was attributed to carryover from the high calibration standard which was analyzed immediately prior to ICB2.

Secondary calibration verification (SCV1) standard was certified at about 2x the method reporting limit (MRL) for Cd. The recovery for Cd was low, but was less than 5x the MRL and within the MRL of the certified value. Also the recovery was in-line with historical data and the cause was pinpointed to a molybdenum interference. On this basis, SCV1 was reported for Cd and no results were qualified. A second SCV2 was analyzed and meet the acceptance criteria.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

**Batch B121404**

The Cd analysis of SRM1 (CASS-5) recovered outside of acceptance criteria. See sequence narration for more detail. SCV1 was re-uploaded as SRM1 for this analysis. No results were qualified based on the recovery of SRM2 (SLEW-3).

**Sequence 1200695**

The high calibration standard recovered somewhat low at 66% and was omitted from the calibration curve. All results were within the 6 point curve and all other calibration standards recovered well.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

**Batch B121664**

The Pb analysis of SRM1 (CASS-5) recovered outside of acceptance criteria at 73%. The certified value was less than 2x the MRL and the result from the analysis was within 1x the MRL of the certified level. No results were qualified on this basis and all other quality control criteria were satisfied.

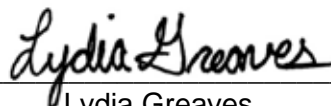
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We certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.



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## Report Information

### Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>BLK</b>	method blank	<b>MS</b>	matrix spike
<b>BRL</b>	Brooks Rand Labs	<b>MSD</b>	matrix spike duplicate
<b>BS</b>	laboratory fortified blank	<b>ND</b>	non-detect
<b>CAL</b>	calibration standard	<b>NR</b>	non-reportable
<b>CCV</b>	continuing calibration verification	<b>PS</b>	post preparation spike
<b>COC</b>	chain of custody record	<b>REC</b>	percent recovery
<b>CRM</b>	certified reference material	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>RSD</b>	relative standard deviation
<b>DUP</b>	duplicate	<b>SCV</b>	secondary calibration verification
<b>ICV</b>	initial calibration verification	<b>SOP</b>	standard operating procedure
<b>MDL</b>	method detection limit	<b>SRM</b>	standard reference material
<b>MRL</b>	method reporting limit	<b>T</b>	total recoverable fraction

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>B</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA [SOW ILM03.0](#), Exhibit B, Section III, pg. B-18, and the [USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review](#); USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Site #9 Upper	1231002-01	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #9 Upper	1231002-02	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #9 Upper	1231002-03	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #9 Upper	1231002-04	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #9 Lower	1231002-05	Great Salt Lake	QC Sample	07/26/2012	07/31/2012
Site #10 Lower	1231002-06	Great Salt Lake	QC Sample	07/26/2012	07/31/2012
Site #10 Upper	1231002-07	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #10 Upper	1231002-08	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #10 Upper	1231002-09	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #10 Upper	1231002-10	Great Salt Lake	Sample	07/26/2012	07/31/2012
Site #10 Upper	1231002-11	Great Salt Lake	Sample	07/26/2012	07/31/2012

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
As	Water	EPA 1640 RP	08/13/2012	08/17/2012	B121403	1200644
Cd	Water	EPA 1640 Column	08/08/2012	08/11/2012	B121404	1200624
Cu	Water	EPA 1640 Column	08/08/2012	08/11/2012	B121404	1200624
Hg	Water	EPA 1631	08/10/2012	08/24/2012	B121430	1200662
MeHg	Water	EPA 1630	08/27/2012	08/29/2012	B121520	1200672
Pb	Water	EPA 1640 Column	08/08/2012	09/08/2012	B121664	1200695
Se	Water	EPA 1640 RP	08/13/2012	08/17/2012	B121403	1200644
Tl	Water	EPA 1640 RP	08/13/2012	08/17/2012	B121403	1200644





## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>Site #10 Lower</b>										
1231002-06	As	Great Salt Lake	T	40.3		0.15	0.50	µg/L	B121403	1200644
1231002-06	Cd	Great Salt Lake	T	0.0101	U	0.0101	0.101	µg/L	B121404	1200624
1231002-06	Cu	Great Salt Lake	T	0.610		0.0404	0.202	µg/L	B121404	1200624
1231002-06	Hg	Great Salt Lake	T	4.23		0.20	0.54	ng/L	B121430	1200662
1231002-06	MeHg	Great Salt Lake	T	1.21		0.020	0.050	ng/L	B121520	1200672
1231002-06	Pb	Great Salt Lake	T	0.328		0.0101	0.101	µg/L	B121664	1200695
1231002-06	Se	Great Salt Lake	T	0.459	B	0.349	1.05	µg/L	B121403	1200644
1231002-06	TI	Great Salt Lake	T	0.010	U	0.010	0.050	µg/L	B121403	1200644
<b>Site #10 Upper</b>										
1231002-11	As	Great Salt Lake	T	31.2		0.15	0.50	µg/L	B121403	1200644
1231002-11	Cd	Great Salt Lake	T	0.0101	U	0.0101	0.101	µg/L	B121404	1200624
1231002-11	Cu	Great Salt Lake	T	0.467		0.0404	0.202	µg/L	B121404	1200624
1231002-11	Hg	Great Salt Lake	T	3.66		0.15	0.41	ng/L	B121430	1200662
1231002-11	MeHg	Great Salt Lake	T	0.928		0.020	0.049	ng/L	B121520	1200672
1231002-11	Pb	Great Salt Lake	T	0.162		0.0101	0.101	µg/L	B121664	1200695
1231002-11	Se	Great Salt Lake	T	0.404	B	0.347	1.04	µg/L	B121403	1200644
1231002-11	TI	Great Salt Lake	T	0.010	U	0.010	0.050	µg/L	B121403	1200644
<b>Site #9 Lower</b>										
1231002-05	As	Great Salt Lake	T	36.4		0.15	0.49	µg/L	B121403	1200644
1231002-05	Cd	Great Salt Lake	T	0.0101	U	0.0101	0.101	µg/L	B121404	1200624
1231002-05	Cu	Great Salt Lake	T	0.537		0.0404	0.202	µg/L	B121404	1200624
1231002-05	Hg	Great Salt Lake	T	6.13		0.20	0.54	ng/L	B121430	1200662
1231002-05	MeHg	Great Salt Lake	T	1.37		0.020	0.050	ng/L	B121520	1200672
1231002-05	Pb	Great Salt Lake	T	0.138		0.0101	0.101	µg/L	B121664	1200695
1231002-05	Se	Great Salt Lake	T	0.346	U	0.346	1.04	µg/L	B121403	1200644
1231002-05	TI	Great Salt Lake	T	0.010	U	0.010	0.049	µg/L	B121403	1200644



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>Site #9 Upper</b>										
1231002-04	As	Great Salt Lake	T	35.0		0.15	0.49	µg/L	B121403	1200644
1231002-04	Cd	Great Salt Lake	T	0.0101	U	0.0101	0.101	µg/L	B121404	1200624
1231002-04	Cu	Great Salt Lake	T	0.561		0.0404	0.202	µg/L	B121404	1200624
1231002-04	Hg	Great Salt Lake	T	3.63		0.15	0.41	ng/L	B121430	1200662
1231002-04	MeHg	Great Salt Lake	T	0.977		0.020	0.050	ng/L	B121520	1200672
1231002-04	Pb	Great Salt Lake	T	0.133		0.0101	0.101	µg/L	B121664	1200695
1231002-04	Se	Great Salt Lake	T	0.366	B	0.345	1.03	µg/L	B121403	1200644
1231002-04	Tl	Great Salt Lake	T	0.010	U	0.010	0.049	µg/L	B121403	1200644



## Accuracy & Precision Summary

Batch: B121403  
 Lab Matrix: Water  
 Method: EPA 1640 RP

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
<b>B121403-BS1</b>	<b>Laboratory Fortified Blank (1233013)</b>						
	As		6.965	4.94	µg/L	71% 70-130	
	Se		0.4179	0.356	µg/L	85% 70-130	
	Tl		0.01990	0.021	µg/L	104% 70-130	
<b>B121403-SRM1</b>	<b>Certified Reference Material (1220064, SLEW-3)</b>						
	As		1.360	1.13	µg/L	83% 75-125	
<b>B121403-MS3</b>	<b>Matrix Spike (0944029-91)</b>						
	As	1.08	6.965	7.31	µg/L	89% 70-130	
	Se	0.162	0.4179	0.639	µg/L	114% 70-130	
	Tl	0.011	0.01990	0.031	µg/L	100% 70-130	
<b>B121403-MS4</b>	<b>Matrix Spike (0944029-91)</b>						
	As	1.08	0.2000	1.06	µg/L	NR 70-130	
	Se	0.162	0.4200	0.545	µg/L	91% 70-130	
	Tl	0.011	0.02000	0.032	µg/L	103% 70-130	
<b>B121403-DUP1</b>	<b>Duplicate (1231002-05)</b>						
	As	36.44		38.70	µg/L		6% 30
	Se	ND		0.436	µg/L		N/C 30
	Tl	ND		ND	µg/L		N/C 30
<b>B121403-MS1</b>	<b>Matrix Spike (1231002-05)</b>						
	As	36.44	34.40	67.64	µg/L	91% 70-130	
	Se	ND	2.064	2.232	µg/L	92% 70-130	
	Tl	ND	0.09828	0.103	µg/L	104% 70-130	
<b>B121403-MSD1</b>	<b>Matrix Spike Duplicate (1231002-05)</b>						
	As	36.44	34.31	57.47	µg/L	61% 70-130	16% 30
	Se	ND	2.059	1.906	µg/L	76% 70-130	16% 30
	Tl	ND	0.09804	0.105	µg/L	106% 70-130	1% 30



## Accuracy & Precision Summary

**Batch:** B121403  
**Lab Matrix:** Water  
**Method:** EPA 1640 RP

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
<b>B121403-DUP2</b>	<b>Duplicate (1231002-06)</b>						
	As	40.32		33.30	µg/L		19% 30
	Se	0.459		ND	µg/L		N/C 30
	Tl	ND		ND	µg/L		N/C 30
<b>B121403-MS2</b>	<b>Matrix Spike (1231002-06)</b>						
	As	40.32	34.91	53.28	µg/L	37% 70-130	
	Se	0.459	2.095	2.461	µg/L	96% 70-130	
	Tl	ND	0.09975	0.109	µg/L	109% 70-130	
<b>B121403-MSD2</b>	<b>Matrix Spike Duplicate (1231002-06)</b>						
	As	40.32	34.48	58.27	µg/L	52% 70-130	9% 30
	Se	0.459	2.069	2.322	µg/L	90% 70-130	6% 30
	Tl	ND	0.09852	0.104	µg/L	105% 70-130	5% 30



## Accuracy & Precision Summary

**Batch:** B121404  
**Lab Matrix:** Water  
**Method:** EPA 1640 Column

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
<b>B121404-BS1</b>	<b>Laboratory Fortified Blank (1227049)</b>						
	Cd		0.2020	0.2392	µg/L	118% 75-125	
	Cu		2.020	2.001	µg/L	99% 75-125	
<b>B121404-SRM1</b>	<b>Certified Reference Material (1151023, CASS-5)</b>						
	Cd		0.02172	0.0100	µg/L	46% 75-125	
	Cu		0.3838	0.3663	µg/L	95% 75-125	
<b>B121404-SRM2</b>	<b>Certified Reference Material (1214034, SLEW-3)</b>						
	Cd		0.04848	0.0435	µg/L	90% 75-125	
	Cu		1.566	1.599	µg/L	102% 75-125	
<b>B121404-DUP1</b>	<b>Duplicate (1231002-05)</b>						
	Cd	ND		ND	µg/L		N/C 20
	Cu	0.5371		0.5211	µg/L		3% 20
<b>B121404-MS1</b>	<b>Matrix Spike (1231002-05)</b>						
	Cd	ND	20.20	20.88	µg/L	103% 75-125	
	Cu	0.5371	20.20	21.60	µg/L	104% 75-125	
<b>B121404-MSD1</b>	<b>Matrix Spike Duplicate (1231002-05)</b>						
	Cd	ND	20.20	20.83	µg/L	103% 75-125	0.3% 20
	Cu	0.5371	20.20	21.70	µg/L	105% 75-125	0.5% 20
<b>B121404-DUP2</b>	<b>Duplicate (1231002-06)</b>						
	Cd	ND		ND	µg/L		N/C 20
	Cu	0.6101		0.6098	µg/L		0.05% 20
<b>B121404-MS2</b>	<b>Matrix Spike (1231002-06)</b>						
	Cd	ND	20.20	17.24	µg/L	85% 75-125	
	Cu	0.6101	20.20	18.21	µg/L	87% 75-125	

**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

## Accuracy & Precision Summary

**Batch:** B121404  
**Lab Matrix:** Water  
**Method:** EPA 1640 Column

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121404-MSD2	Matrix Spike Duplicate (1231002-06)						
	Cd	ND	20.20	20.87	µg/L	103% 75-125	19% 20
	Cu	0.6101	20.20	22.05	µg/L	106% 75-125	19% 20



## Accuracy & Precision Summary

Batch: B121430  
 Lab Matrix: Water  
 Method: EPA 1631

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
<b>B121430-SRM1</b>	<b>Certified Reference Material (1232065, NIST 1641d 1000x dilution)</b> Hg		15.68	15.69	ng/L	100% 85-115	
<b>B121430-MS1</b>	<b>Matrix Spike (1231002-05)</b> Hg	6.13	31.53	38.56	ng/L	103% 71-125	
<b>B121430-MSD1</b>	<b>Matrix Spike Duplicate (1231002-05)</b> Hg	6.13	30.96	37.79	ng/L	102% 71-125	2% 24
<b>B121430-MS2</b>	<b>Matrix Spike (1231002-06)</b> Hg	4.23	21.79	28.50	ng/L	111% 71-125	
<b>B121430-MSD2</b>	<b>Matrix Spike Duplicate (1231002-06)</b> Hg	4.23	22.02	27.35	ng/L	105% 71-125	4% 24



## Accuracy & Precision Summary

Batch: B121520  
Lab Matrix: Water  
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121520-BS1	Laboratory Fortified Blank (1233074) MeHg		0.9889	1.050	ng/L	106% 67-133	
B121520-BS2	Laboratory Fortified Blank (1233074) MeHg		1.000	1.046	ng/L	105% 67-133	
B121520-MS1	Matrix Spike (1231002-05) MeHg	1.369	3.044	4.996	ng/L	119% 65-135	
B121520-MS2	Matrix Spike (1231002-06) MeHg	1.208	2.808	4.293	ng/L	110% 65-135	





## Accuracy & Precision Summary

Batch: B121664  
 Lab Matrix: Water  
 Method: EPA 1640 Column

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121664-BS1	Laboratory Fortified Blank (1227049) Pb		0.5051	0.5752	µg/L	114% 75-125	
B121664-SRM1	Certified Reference Material (1151023, CASS-5) Pb		0.01100	0.0081	µg/L	73% 75-125	
B121664-DUP1	Duplicate (1231002-05) Pb	0.1377		0.1262	µg/L		9% 20
B121664-MS1	Matrix Spike (1231002-05) Pb	0.1377	20.20	16.87	µg/L	83% 75-125	
B121664-MSD1	Matrix Spike Duplicate (1231002-05) Pb	0.1377	20.20	17.02	µg/L	84% 75-125	0.9% 20
B121664-DUP2	Duplicate (1231002-06) Pb	0.3280		0.3006	µg/L		9% 20
B121664-MS2	Matrix Spike (1231002-06) Pb	0.3280	20.20	17.57	µg/L	85% 75-125	
B121664-MSD2	Matrix Spike Duplicate (1231002-06) Pb	0.3280	20.20	17.79	µg/L	86% 75-125	1% 20



## Method Blanks & Reporting Limits

**Batch:** B121403  
**Matrix:** Water  
**Method:** EPA 1640 RP  
**Analyte:** As 75

Sample	Result	Units			
B121403-BLK1	0.007	µg/L			
B121403-BLK2	0.01	µg/L			
B121403-BLK3	0.006	µg/L			
B121403-BLK4	-0.003	µg/L			
<b>Average:</b> 0.01			<b>Standard Deviation:</b> 0.01	<b>MDL:</b> 0.03	
<b>Limit:</b> 0.10			<b>Limit:</b> 0.03	<b>MRL:</b> 0.10	

**Analyte:** Se 82

Sample	Result	Units			
B121403-BLK1	-0.004	µg/L			
B121403-BLK2	0.013	µg/L			
B121403-BLK3	-0.010	µg/L			
B121403-BLK4	-0.007	µg/L			
<b>Average:</b> -0.002			<b>Standard Deviation:</b> 0.010	<b>MDL:</b> 0.070	
<b>Limit:</b> 0.209			<b>Limit:</b> 0.070	<b>MRL:</b> 0.209	

**Analyte:** Tl

Sample	Result	Units			
B121403-BLK1	0.0002	µg/L			
B121403-BLK2	0.0001	µg/L			
B121403-BLK3	0.0001	µg/L			
B121403-BLK4	0.00005	µg/L			
<b>Average:</b> 0.000			<b>Standard Deviation:</b> 0.000	<b>MDL:</b> 0.002	
<b>Limit:</b> 0.010			<b>Limit:</b> 0.002	<b>MRL:</b> 0.010	



## Method Blanks & Reporting Limits

**Batch:** B121404  
**Matrix:** Water  
**Method:** EPA 1640 Column  
**Analyte:** Cd 114

Sample	Result	Units		
B121404-BLK1	-0.0001	µg/L		
B121404-BLK2	-0.0001	µg/L		
B121404-BLK3	-0.0001	µg/L		
B121404-BLK4	-0.0001	µg/L		
<b>Average:</b>	-0.0001		<b>Standard Deviation:</b>	0.0000
<b>Limit:</b>	0.0101		<b>Limit:</b>	0.0010
			<b>MDL:</b>	0.0010
			<b>MRL:</b>	0.0101

**Analyte:** Cu 63

Sample	Result	Units		
B121404-BLK1	0.0017	µg/L		
B121404-BLK2	0.0051	µg/L		
B121404-BLK3	0.0015	µg/L		
B121404-BLK4	0.0013	µg/L		
<b>Average:</b>	0.0024		<b>Standard Deviation:</b>	0.0018
<b>Limit:</b>	0.0202		<b>Limit:</b>	0.0040
			<b>MDL:</b>	0.0040
			<b>MRL:</b>	0.0202

**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

## Method Blanks & Reporting Limits

**Batch:** B121430  
**Matrix:** Water  
**Method:** EPA 1631  
**Analyte:** Hg

Sample	Result	Units
B121430-BLK1	0.05	ng/L
B121430-BLK2	0.07	ng/L
B121430-BLK3	0.17	ng/L
B121430-BLK4	0.10	ng/L

**Average:** 0.10  
**Limit:** 0.50

**Standard Deviation:** 0.05  
**Limit:** 0.10

**MDL:** 0.15  
**MRL:** 0.40

**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

## Method Blanks & Reporting Limits

**Batch:** B121520  
**Matrix:** Water  
**Method:** EPA 1630  
**Analyte:** MeHg

Sample	Result	Units		
B121520-BLK1	0.010	ng/L		
B121520-BLK2	0.019	ng/L		
B121520-BLK3	0.016	ng/L		
B121520-BLK4	0.014	ng/L		
<b>Average:</b> 0.015			<b>Standard Deviation:</b> 0.004	<b>MDL:</b> 0.020
<b>Limit:</b> 0.045			<b>Limit:</b> 0.015	<b>MRL:</b> 0.049

**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

## Method Blanks & Reporting Limits

**Batch:** B121664  
**Matrix:** Water  
**Method:** EPA 1640 Column  
**Analyte:** Pb

Sample	Result	Units		
B121664-BLK1	0.0006	µg/L		
B121664-BLK2	0.0009	µg/L		
B121664-BLK3	0.0003	µg/L		
B121664-BLK4	0.0003	µg/L		
<b>Average:</b>	0.0005		<b>Standard Deviation:</b>	0.0003
<b>Limit:</b>	0.0101		<b>Limit:</b>	0.0010
			<b>MDL:</b>	0.0010
			<b>MRL:</b>	0.0101

Project ID: UDE-SL1201  
PM: Tiffany Stilwater



BRL Report 1231002  
Client PM: Jodi Gardberg  
Client PO: SS12208

## Instrument Calibration

Sequence: 1200624  
Instrument: ICP-MS-2  
Date: 08/11/2012  
Analyte: Cd 114

Trace Metals by ICP-MS  
Method: EPA 1640 Column

Lab ID	True Value	Result	Units	REC & Limits	
1200624-ICB1		0.000	ng/L		
1200624-CAL1	10.00	10.16	ng/L	102%	
1200624-CAL2	20.00	19.25	ng/L	96%	
1200624-CAL3	50.00	50.27	ng/L	101%	
1200624-CAL4	100.0	100.9	ng/L	101%	
1200624-CAL5	500.0	509.6	ng/L	102%	
1200624-CAL6	1000	990.8	ng/L	99%	
1200624-CAL7	5000	4981	ng/L	100%	
1200624-ICB2		6.017	ng/L		
1200624-ICV1	50.00	55.24	ng/L	110%	85-115
1200624-ICB3		0.3220	ng/L		
1200624-IBL1		-0.1145	ng/L		
1200624-IBL2		-0.1904	ng/L		
1200624-IBL3		-0.1420	ng/L		
1200624-IBL4		-0.1658	ng/L		
1200624-SCV1	21.50	9.828	ng/L	46%	75-125
1200624-SCV2	48.00	42.92	ng/L	89%	75-125
1200624-CCV1	100.0	99.77	ng/L	100%	75-125
1200624-CCB1		0.3132	ng/L		
1200624-CCV2	100.0	100.1	ng/L	100%	75-125
1200624-CCB2		0.4599	ng/L		
1200624-CCV3	100.0	100.4	ng/L	100%	75-125
1200624-CCB3		0.2791	ng/L		
1200624-CCV4	100.0	99.02	ng/L	99%	75-125
1200624-CCB4		0.4208	ng/L		
1200624-CCV5	100.0	100.8	ng/L	101%	75-125
1200624-CCB5		0.0680	ng/L		
1200624-CCV6	100.0	99.46	ng/L	99%	75-125
1200624-CCB6		0.1168	ng/L		
1200624-CCV7	500.0	508.4	ng/L	102%	75-125
1200624-CCB7		0.0502	ng/L		



## Instrument Calibration

Sequence: 1200624  
 Instrument: ICP-MS-2  
 Date: 08/11/2012  
 Analyte: Cu 63

Trace Metals by ICP-MS  
 Method: EPA 1640 Column

Lab ID	True Value	Result	Units	REC & Limits	
1200624-ICB1		0.000	ng/L		
1200624-CAL1	10.00	10.14	ng/L	101%	
1200624-CAL2	20.00	19.64	ng/L	98%	
1200624-CAL3	50.00	49.33	ng/L	99%	
1200624-CAL4	100.0	97.05	ng/L	97%	
1200624-CAL5	500.0	508.0	ng/L	102%	
1200624-CAL6	1000	1028	ng/L	103%	
1200624-CAL7	5000	5013	ng/L	100%	
1200624-ICB2		152.9	ng/L		
1200624-ICV1	500.0	529.4	ng/L	106%	85-115
1200624-ICB3		0.7944	ng/L		
1200624-IBL1		-0.9025	ng/L		
1200624-IBL2		-0.7400	ng/L		
1200624-IBL3		-0.8879	ng/L		
1200624-IBL4		-1.036	ng/L		
1200624-SCV1	380.0	365.0	ng/L	96%	75-125
1200624-SCV2	1550	1586	ng/L	102%	75-125
1200624-CCV1	100.0	97.43	ng/L	97%	75-125
1200624-CCB1		0.9640	ng/L		
1200624-CCV2	100.0	98.33	ng/L	98%	75-125
1200624-CCB2		0.5445	ng/L		
1200624-CCV3	100.0	98.50	ng/L	98%	75-125
1200624-CCB3		1.213	ng/L		
1200624-CCV4	100.0	95.25	ng/L	95%	75-125
1200624-CCB4		0.6573	ng/L		
1200624-CCV5	100.0	98.35	ng/L	98%	75-125
1200624-CCB5		0.4181	ng/L		
1200624-CCV6	100.0	98.00	ng/L	98%	75-125
1200624-CCB6		0.3541	ng/L		
1200624-CCV7	500.0	499.4	ng/L	100%	75-125
1200624-CCB7		0.3718	ng/L		





## Instrument Calibration

Sequence: 1200644  
 Instrument: ICP-MS-2  
 Date: 08/17/2012  
 Analyte: As 75

Trace Metals by ICP-MS  
 Method: EPA 1640 RP

Lab ID	True Value	Result	Units	REC & Limits	
1200644-ICB1		0.00	µg/L		
1200644-CAL1	0.2000	0.21	µg/L	104%	
1200644-CAL2	0.4000	0.37	µg/L	93%	
1200644-CAL3	2.000	1.96	µg/L	98%	
1200644-CAL4	5.000	5.08	µg/L	102%	
1200644-CAL5	10.00	10.21	µg/L	102%	
1200644-CAL6	50.00	50.62	µg/L	101%	
1200644-CAL7	100.0	99.81	µg/L	100%	
1200644-CAL8	200.0	201.6	µg/L	101%	
1200644-ICB2		0.57	µg/L		
1200644-ICB3		0.10	µg/L		
1200644-ICV2	5.000	5.34	µg/L	107%	85-115
1200644-ICB4		0.04	µg/L		
1200644-IBL1		0.04	µg/L		
1200644-IBL2		0.03	µg/L		
1200644-IBL3		0.01	µg/L		
1200644-IBL4		0.04	µg/L		
1200644-SCV1	60.45	56.82	µg/L	94%	75-125
1200644-CCV1	5.000	5.16	µg/L	103%	75-125
1200644-CCB1		0.009	µg/L		
1200644-CCV2	5.000	4.99	µg/L	100%	75-125
1200644-CCB2		0.02	µg/L		
1200644-CCV3	5.000	5.13	µg/L	103%	75-125
1200644-CCB3		0.02	µg/L		
1200644-CCV4	5.000	5.21	µg/L	104%	75-125
1200644-CCB4		0.07	µg/L		
1200644-CCV5	5.000	5.15	µg/L	103%	75-125
1200644-CCB5		-0.002	µg/L		
1200644-CCV6	5.000	5.13	µg/L	103%	75-125
1200644-CCB6		0.001	µg/L		
1200644-CCV7	10.00	10.41	µg/L	104%	75-125
1200644-CCB7		0.04	µg/L		



## Instrument Calibration

Sequence: 1200644  
 Instrument: ICP-MS-2  
 Date: 08/17/2012  
 Analyte: Se 82

Trace Metals by ICP-MS  
 Method: EPA 1640 RP

Lab ID	True Value	Result	Units	REC & Limits	
1200644-ICB1		0.000	µg/L		
1200644-CAL1	0.2000	0.196	µg/L	98%	
1200644-CAL2	0.4000	0.413	µg/L	103%	
1200644-CAL3	2.000	2.045	µg/L	102%	
1200644-CAL4	10.00	10.85	µg/L	109%	
1200644-CAL5	20.00	21.65	µg/L	108%	
1200644-CAL6	40.00	41.68	µg/L	104%	
1200644-CAL7	100.0	93.98	µg/L	94%	
1200644-CAL8	200.0	163.2	µg/L	82%	
1200644-ICB2		0.914	µg/L		
1200644-ICV1	10.00	9.781	µg/L	98%	85-115
1200644-ICB3		0.116	µg/L		
1200644-ICV2	10.00	10.11	µg/L	101%	85-115
1200644-ICB4		0.036	µg/L		
1200644-IBL1		-0.015	µg/L		
1200644-IBL2		0.010	µg/L		
1200644-IBL3		0.028	µg/L		
1200644-IBL4		0.013	µg/L		
1200644-SCV1	11.97	11.42	µg/L	95%	75-125
1200644-CCV1	10.00	9.714	µg/L	97%	75-125
1200644-CCB1		0.051	µg/L		
1200644-CCV2	10.00	10.53	µg/L	105%	75-125
1200644-CCB2		0.063	µg/L		
1200644-CCV3	10.00	10.41	µg/L	104%	75-125
1200644-CCB3		0.028	µg/L		
1200644-CCV4	10.00	11.33	µg/L	113%	75-125
1200644-CCB4		0.044	µg/L		
1200644-CCV5	10.00	10.22	µg/L	102%	75-125
1200644-CCB5		0.001	µg/L		
1200644-CCV6	10.00	10.01	µg/L	100%	75-125
1200644-CCB6		0.016	µg/L		
1200644-CCV7	20.00	21.75	µg/L	109%	75-125
1200644-CCB7		0.137	µg/L		



## Instrument Calibration

Sequence: 1200644  
 Instrument: ICP-MS-2  
 Date: 08/17/2012  
 Analyte: Tl

Trace Metals by ICP-MS  
 Method: EPA 1640 RP

Lab ID	True Value	Result	Units	REC & Limits	
1200644-ICB1		0.000	µg/L		
1200644-CAL1	0.01000	0.010	µg/L	98%	
1200644-CAL2	0.02000	0.021	µg/L	104%	
1200644-CAL3	0.1000	0.102	µg/L	102%	
1200644-CAL4	0.2500	0.257	µg/L	103%	
1200644-CAL5	0.5000	0.509	µg/L	102%	
1200644-CAL6	2.500	2.485	µg/L	99%	
1200644-CAL7	5.000	4.897	µg/L	98%	
1200644-CAL8	10.00	9.426	µg/L	94%	
1200644-ICB2		0.020	µg/L		
1200644-ICB3		0.003	µg/L		
1200644-ICV2	0.2500	0.270	µg/L	108%	85-115
1200644-ICB4		0.0001	µg/L		
1200644-IBL1		0.0005	µg/L		
1200644-IBL2		0.0003	µg/L		
1200644-IBL3		-0.00007	µg/L		
1200644-IBL4		0.0002	µg/L		
1200644-SCV1	7.445	7.576	µg/L	102%	75-125
1200644-CCV1	0.2500	0.255	µg/L	102%	75-125
1200644-CCB1		0.0004	µg/L		
1200644-CCV2	0.2500	0.249	µg/L	99%	75-125
1200644-CCB2		0.0005	µg/L		
1200644-CCV3	0.2500	0.247	µg/L	99%	75-125
1200644-CCB3		-0.0004	µg/L		
1200644-CCV4	0.2500	0.257	µg/L	103%	75-125
1200644-CCB4		0.0002	µg/L		
1200644-CCV5	0.2500	0.248	µg/L	99%	75-125
1200644-CCB5		-0.00007	µg/L		
1200644-CCV6	0.2500	0.245	µg/L	98%	75-125
1200644-CCB6		0.00006	µg/L		
1200644-CCV7	0.5000	0.518	µg/L	104%	75-125
1200644-CCB7		0.001	µg/L		



## Instrument Calibration

Sequence: 1200662  
 Instrument: THG-05  
 Date: 08/24/2012  
 Analyte: Hg

Total Mercury and Mercury Speciation by CVAFS  
 Method: EPA 1631

Lab ID	True Value	Result	Units	REC & Limits
1200662-IBL1		6.69	pg of Hg	
1200662-IBL2		5.85	pg of Hg	
1200662-IBL3		7.77	pg of Hg	
1200662-CAL1	25.00	23.68	pg of Hg	95%
1200662-CAL2	100.0	92.21	pg of Hg	92%
1200662-CAL3	500.0	534.2	pg of Hg	107%
1200662-CAL4	2500	2573	pg of Hg	103%
1200662-CAL5	10000	10500	pg of Hg	105%
1200662-ICV1	1568	1569	pg of Hg	100% 85-115
1200662-CCV1	500.0	514.0	pg of Hg	103% 77-123
1200662-CCB1		16.4	pg of Hg	
1200662-IBL5		11.90	pg of Hg	
1200662-CCV2	500.0	497.1	pg of Hg	99% 77-123
1200662-CCV3	500.0	512.8	pg of Hg	103% 77-123
1200662-CCV4	500.0	520.6	pg of Hg	104% 77-123
1200662-CCV5	500.0	521.8	pg of Hg	104% 77-123



## Instrument Calibration

Sequence: 1200672  
 Instrument: MMHG-09  
 Date: 08/29/2012  
 Analyte: MeHg

Total Mercury and Mercury Speciation by CVAFS  
 Method: EPA 1630

Lab ID	True Value	Result	Units	REC & Limits
1200672-IBL1		0.127	pg MeHg	
1200672-IBL2		0.080	pg MeHg	
1200672-IBL3		0.123	pg MeHg	
1200672-CAL1	0.5000	0.432	pg MeHg	86%
1200672-CAL2	1.000	1.020	pg MeHg	102%
1200672-CAL3	2.000	1.938	pg MeHg	97%
1200672-CAL4	10.00	10.45	pg MeHg	105%
1200672-CAL5	50.00	49.25	pg MeHg	98%
1200672-CAL6	250.0	270.8	pg MeHg	108%
1200672-CAL7	1000	1072	pg MeHg	107%
1200672-CCB1		2.02	pg MeHg	
1200672-ICV1	99.99	108.2	pg MeHg	108% 80-120
1200672-CCB2		3.51	pg MeHg	
1200672-CCV1	25.00	26.34	pg MeHg	105% 67-133
1200672-CCB3		0.334	pg MeHg	
1200672-CCB4		0.652	pg MeHg	
1200672-CCB5		0.250	pg MeHg	
1200672-CCV2	25.00	26.08	pg MeHg	104% 67-133
1200672-CCB6		0.766	pg MeHg	
1200672-CCV3	25.00	25.41	pg MeHg	102% 67-133
1200672-CCB7		0.106	pg MeHg	
1200672-CCV4	25.00	27.08	pg MeHg	108% 67-133
1200672-CCB8		0.131	pg MeHg	
1200672-CCV5	25.00	24.65	pg MeHg	99% 67-133
1200672-CCB9		0.004	pg MeHg	
1200672-CCV6	25.00	24.49	pg MeHg	98% 67-133
1200672-CCBA		0.004	pg MeHg	

Project ID: UDE-SL1201  
PM: Tiffany Stilwater



BRL Report 1231002  
Client PM: Jodi Gardberg  
Client PO: SS12208

## Instrument Calibration

Sequence: 1200695  
Instrument: ICP-MS-2  
Date: 09/08/2012  
Analyte: Pb

Trace Metals by ICP-MS  
Method: EPA 1640 Column

Lab ID	True Value	Result	Units	REC & Limits	
1200695-ICB1		0.000	ng/L		
1200695-CAL1	10.00	10.01	ng/L	100%	
1200695-CAL2	20.00	19.89	ng/L	99%	
1200695-CAL3	50.00	50.21	ng/L	100%	
1200695-CAL4	100.0	100.7	ng/L	101%	
1200695-CAL5	500.0	501.5	ng/L	100%	
1200695-CAL6	1000	990.4	ng/L	99%	
1200695-ICB2		8.090	ng/L		
1200695-ICV1	250.0	266.1	ng/L	106%	85-115
1200695-ICB3		0.0063	ng/L		
1200695-IBL1		-0.0006	ng/L		
1200695-IBL2		-0.0007	ng/L		
1200695-IBL3		-0.0007	ng/L		
1200695-IBL4		-0.0007	ng/L		
1200695-SCV1	11.00	8.575	ng/L	78%	75-125
1200695-SCV2	9.000	7.012	ng/L	78%	75-125
1200695-CCV1	100.0	97.26	ng/L	97%	75-125
1200695-CCB1		-0.1101	ng/L		
1200695-CCV2	100.0	99.95	ng/L	100%	75-125
1200695-CCB2		-0.0167	ng/L		
1200695-CCV3	100.0	120.1	ng/L	120%	75-125
1200695-CCB3		1.113	ng/L		
1200695-CCV4	100.0	111.6	ng/L	112%	75-125
1200695-CCB4		0.4070	ng/L		
1200695-CCV5	100.0	113.9	ng/L	114%	75-125
1200695-CCB5		0.5244	ng/L		
1200695-CCV6	100.0	120.4	ng/L	120%	75-125
1200695-CCB6		0.9916	ng/L		

**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

## Sample Containers

Des Container		Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
<b>Lab ID:</b> 1231002-01 <b>Report Matrix:</b> Great Salt Lake <b>Sample:</b> Site #9 Upper <b>Sample Type:</b> Sample <b>Collected:</b> 07/26/2012 <b>Received:</b> 07/31/2012							
B	Bottle HDPE ICP-W	250 mL	12-133	0.1% HNO3 (BRL)	1229024	<2	Cooler
<b>Lab ID:</b> 1231002-02 <b>Report Matrix:</b> Great Salt Lake <b>Sample:</b> Site #9 Upper <b>Sample Type:</b> Sample <b>Collected:</b> 07/26/2012 <b>Received:</b> 07/31/2012							
B	Bottle HDPE ICP-W	250 mL	12-133	0.1% HNO3 (BRL)	1229024	<2	Cooler
<b>Lab ID:</b> 1231002-03 <b>Report Matrix:</b> Great Salt Lake <b>Sample:</b> Site #9 Upper <b>Sample Type:</b> Sample <b>Collected:</b> 07/26/2012 <b>Received:</b> 07/31/2012							
B	Bottle HDPE ICP-W	250 mL	12-133	0.1% HNO3 (BRL)	1229024	<2	Cooler
<b>Lab ID:</b> 1231002-04 <b>Report Matrix:</b> Great Salt Lake <b>Sample:</b> Site #9 Upper <b>Sample Type:</b> Sample <b>Collected:</b> 07/26/2012 <b>Received:</b> 07/31/2012							
A	Bottle FLPE Hg-T	250 mL	71659890	none	n/a		Cooler
B	Bottle HDPE ICP-W	1 L	11-300A	0.1% HNO3 (BRL)	1229024	<2	Cooler
C	Bottle FLPE Hg-SP	250 mL	71659890	1 mL 9N H2SO4 (PP)	1223069	<2	Cooler
D	EXTRA_VOL	250 mL	71659890	0.1% HNO3 (BRL)	1229024	<2	Cooler
E	Bottle HDPE ICP-ChelC	125 mL	12-175	1.0% HNO3 (BRL)	1229020	<2	Cooler
<b>Lab ID:</b> 1231002-05 <b>Report Matrix:</b> Great Salt Lake <b>Sample:</b> Site #9 Lower <b>Sample Type:</b> QC Sample <b>Collected:</b> 07/26/2012 <b>Received:</b> 07/31/2012							
A	Bottle FLPE Hg-T	250 mL	12-166	1% BrCl (BRL)			Cooler
B	Bottle HDPE ICP-W	1 L	11-300A	0.1% HNO3 (BRL)	1229024	<2	Cooler
C	Bottle FLPE Hg-SP	250 mL	71659890	1 mL 6N HCl (PP)	1226003	<2	Cooler
D	Bottle HDPE ICP-ChelC	125 mL	12-175	1.0% HNO3 (BRL)	1229020	<2	Cooler



## Sample Containers

Lab ID: 1231002-06		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Lower		Sample Type: QC Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	12-166	none	n/a		Cooler
B	Bottle HDPE ICP-W	1 L	11-300A	0.1% HNO3 (BRL)	1229024	<2	Cooler
C	Bottle FLPE Hg-SP	250 mL	71659890 20	1 mL 9N H2SO4 (PP)	1223069	<2	Cooler
D	Bottle HDPE ICP-ChelC	125 mL	12-175	1.0% HNO3 (BRL)	1229020	<2	Cooler

Lab ID: 1231002-07		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Upper		Sample Type: Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
B	Bottle HDPE ICP-W	250 mL	12-166	0.1% HNO3 (BRL)	1229024	<2	Cooler

Lab ID: 1231002-08		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Upper		Sample Type: Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
B	Bottle HDPE ICP-W	250 mL	12-166	0.1% HNO3 (BRL)	1229024	<2	Cooler

Lab ID: 1231002-09		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Upper		Sample Type: Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
B	Bottle HDPE ICP-W	250 mL	12-166	0.1% HNO3 (BRL)	1229024	<2	Cooler

Lab ID: 1231002-10		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Upper		Sample Type: Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
B	Bottle HDPE ICP-W	250 mL	12-166	0.1% HNO3 (BRL)	1229024	<2	Cooler

Lab ID: 1231002-11		Report Matrix: Great Salt Lake				Collected: 07/26/2012	
Sample: Site #10 Upper		Sample Type: Sample				Received: 07/31/2012	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	none	n/a		Cooler
B	Bottle HDPE ICP-W	1 L	11-300A	0.1% HNO3 (BRL)	1229024	<2	Cooler
C	Bottle FLPE Hg-SP	250 mL	71659890 20	1 mL 6N HCl	1226003	<2	Cooler
D	Bottle HDPE ICP-ChelC	125 mL	12-175	1.0% HNO3 (BRL)	1229020	<2	Cooler



**Project ID:** UDE-SL1201  
**PM:** Tiffany Stilwater



BRL Report 1231002  
**Client PM:** Jodi Gardberg  
**Client PO:** SS12208

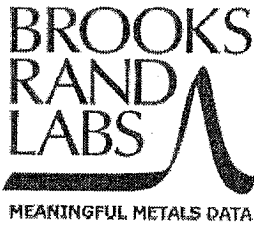
## Shipping Containers

### Cooler

**Received:** July 31, 2012 8:30  
**Tracking No:** 898764582601 via FedEx  
**Coolant Type:** Ice  
**Temperature:** 3.2 °C

**Description:** Cooler  
**Damaged in transit?** No  
**Returned to client?** No

**Custody seals present?** Yes  
**Custody seals intact?** Yes  
**COC present?** Yes



3958 6<sup>th</sup> Avenue NW  
 Seattle, WA 98107  
 Phone: 206-632-6206  
 Fax: 206-632-6017

samples@brooksrand.com  
 www.brooksrand.com

### Chain of Custody Record

White: LAB COPY  
 Yellow: CUSTOMER COPY

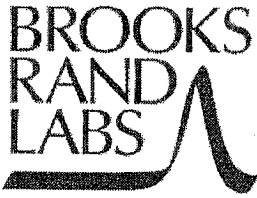
Client: <u>DAVIS COUNTY HEALTH DEPARTMENT</u>	Address: <u>22 SOUTH STATE STREET CLEARFIELD, UTAH 84015</u>	COC receipt confirmation? <input checked="" type="radio"/> / N If so, by: <u>email</u> / fax (circle one)
Contact: <u>RACHELLE BLACKHAM</u>		Email: <u>rblackham@co.davis.ut.us</u>
Client project ID: <u>WSU-061101</u>	Phone #: <u>801-525-5107</u>	Fax #:
PO #:		

Sample ID	Collection		Miscellaneous				Field Preservation			Analyses required							Comments
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / ice only	HCl / HNO <sub>3</sub> (circle one)	Other (specify) <u>Sulfuric acid</u>	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify) <u>TM 250ml (TRACE METALS)</u>	
1	Site #9 upper	7/26 10:15	KB	H <sub>2</sub> O	1	N			X		X						
2	Site #9 upper	7/26 10:15	KB	H <sub>2</sub> O	1	N	X			X							
3	Site #9 upper	7/26 10:15	KB	H <sub>2</sub> O	2	N	X								X		
4	Site #9 upper	7/26 10:45	KB	H <sub>2</sub> O	2	N	X								X		
5	Site #9 lower	7/26 10:45	KB	H <sub>2</sub> O	1	N			X		X						
6	Site #9 lower	7/26 10:45	KB	H <sub>2</sub> O	1	N	X			X							
7	Site #9 lower	7/26 10:45	KB	H <sub>2</sub> O	1	N	X									X	
8	Site #10 lower	7/26 12:00	KB	H <sub>2</sub> O	1	N			X		X						
9	Site #10 lower	7/26 12:00	KB	H <sub>2</sub> O	1	N	X			X							
10	Site #10 lower	7/26 12:00	KB	H <sub>2</sub> O	1	N	X									X	

WRONG BOTTLES SENT - 4 250ML\*  
 BOTTLES REPLACE A 1 LITER BOTTLE FOR TRACE METALS.

Relinquished by: <u>A Jones</u>	Date: <u>7-30-12</u>	Time: <u>10:55</u>	Relinquished by:	Date:	Time:
Received by: <u>[Signature]</u>	Date: <u>7/30/12</u>	Time: <u>1055</u>	Received at BRL by: <u>[Signature]</u>	Date: <u>7/31/12</u>	Time: <u>0830</u>
Shipping carrier: <u>Fed Ex</u>	# of coolers: <u>1</u>	BRL work order ID: <u>[Signature]</u>	BRL project ID:		

(7/30/12) \*3 250ml bottles were HDPE, 1 250ml bottle was FLPE. The 3 250ml HDPE bottles were composited as 1 sample



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 Fax: 206-632-6017

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### Chain of Custody Record

White: LAB COPY  
 Yellow: CUSTOMER COPY

Client: <u>DAVIS COUNTY HEALTH DEPARTMENT</u>	Address: <u>22 SOUTH STATE STREET CLEARFIELD, UTAH, 84015</u>	COC receipt confirmation? <input checked="" type="radio"/> N If so, by: <u>email</u> / fax (circle one)
Contact: <u>RACHELLE BLACKHAM</u>		Email: <u>Rblackham@co.davis.ut.us</u>
Client project ID: <u>WSA-061101</u>		Fax #:
PO #:	Phone #: <u>801-525-5107</u>	

Requested TAT in business days: <input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> Other _____ <i>Surcharges apply for expedited turn around times.</i>	Collection		Miscellaneous				Field Preservation			Analyses required							Comments
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / ice only	HCl / HNO <sub>3</sub> (circle one)	Other (specify) <u>Sulfuric Acid</u>	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify) <u>TM 250ML TRACE METALS</u>	
Sample ID																	
1	Site # 10 upper	7/26	11:35	RB	H2O	1	N	X		X							
2	Site # 10 upper	7/26	11:35	RB	H2O	1	N		X		X						
3	Site # 10 upper	7/26	11:35	RB	H2O	4	N	X							X		
4																	
5																	
6																	
7																	
8																	
9																	
10																	

bottle says preserved w/ HCL  
 But usually is sulfuric acid??  
 wrong bottles sent  
 so 4 (250 ML) = 1 Liter  
 TRACE METAL.

Relinquished by: <u>Quones</u>	Date: <u>7-30-12</u>	Time: <u>10:55</u>	Relinquished by:	Date:	Time:
Received by: <u>[Signature]</u>	Date: <u>7/30/12</u>	Time: <u>1055</u>	Received at BRL by: <u>[Signature]</u>	Date: <u>7/31/12</u>	Time: <u>0830</u>
Shipping carrier: <u>Fed Ex</u>	# of coolers: <u>1</u>		BRL work order ID: <u>[Signature]</u>	BRL project ID:	

ORIGIN ID: BTFA (801) 536-4446  
DEPT OF ENVIRONMENTAL QUALITY

195 N 1950 W  
SALT LAKE CITY, UT 841163097  
UNITED STATES US

SHIP DATE: 30JUL12  
ACTWGT: 38.3 LB  
CAD: /POS1302  
DIMS: 20x13x16 IN  
BILL SENDER

TO **TIFFANY STILWATER**  
**BROOKS RAND LABS**  
**3958 6TH AVE NW**

**SEATTLE WA 98107**

(206) 632-6017  
INU:  
PO:

REF:

DEPT:



**FedEx**  
Express



J12101112190125

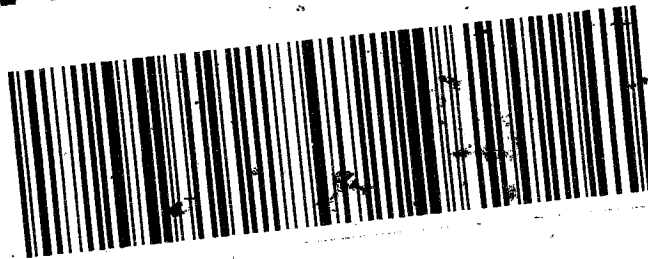
**TUE - 31 JUL A1**  
**FIRST OVERNIGHT**

TRK# 8987 6458 2601  
0200

**W1 BFIA**

AHS  
98107

WA-US SEA



## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200662

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200662-IBL1	1200662	QC	1		-			
1200662-IBL2	1200662	QC	2		-			
1200662-IBL3	1200662	QC	3		-			
1200662-IBL4	1200662	QC	4		-			
1200662-CAL1	1200662	QC	5	1232058	-			
1200662-CAL2	1200662	QC	6	1232059	-			
1200662-CAL3	1200662	QC	7	1232060	-			
1200662-CAL4	1200662	QC	8	1232061	-			
1200662-CAL5	1200662	QC	9	1232062	-			
1200662-ICV1	1200662	QC	10	1232064	-			
B121430-SRM1	B121430	QC	11		-			
1200662-CCV1	1200662	QC	12	1232063	-			
1200662-CCB1	1200662	QC	13		-			
B121434-BLK1	B121434	QC	14		-			
B121434-BLK2	B121434	QC	15		-			
B121434-BLK3	B121434	QC	16		-			
B121434-BLK4	B121434	QC	17		-			
B121434-BS6	B121434	QC	18		-			
B121434-BS2	B121434	QC	19		-			
1200662-IBL5	1200662	QC	20		-			
B121434-BS3	B121434	QC	21		-			
B121434-BS4	B121434	QC	22		-			
B121434-BS5	B121434	QC	23		-			
1200662-CCV2	1200662	QC	24	1232063	-			
B121430-BLK1	B121430	QC	25		-			
B121430-BLK2	B121430	QC	26		-			

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200662

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121430-BLK3	B121430	QC	27		-			
B121430-BLK4	B121430	QC	28		-			
B121434-BS1	B121434	QC	29		-			
1232022-29	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	30			AAL-MN1101	9/4/2012	
1231002-05	B121430	Hg-W-BrCl-CVAFS-TR	31			UDE-SL1201	9/13/2012	
1231002-05	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	32			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	33			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121430	Hg-W-BrCl-CVAFS-TR	34			UDE-SL1201	9/13/2012	
1231002-06	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	35			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	36			UDE-SL1201	1/1/1980	BatchQC
1232022-01	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	37			AAL-MN1101	9/4/2012	
1232022-15	B121430	Hg-W-BrCl-CVAFS-TR	38			AAL-MN1101	1/1/1980	BatchQC
1232022-15	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	39			AAL-MN1101	1/1/1980	BatchQC
1232022-15	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	40			AAL-MN1101	9/4/2012	
1232022-03	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	41			AAL-MN1101	9/4/2012	
1232022-05	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	42			AAL-MN1101	9/4/2012	
1232022-07	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	43			AAL-MN1101	9/4/2012	
1232022-09	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	44			AAL-MN1101	9/4/2012	
1232022-11	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	45			AAL-MN1101	9/4/2012	
B121430-MS1	B121430	QC	46		1231002-05			
B121430-MSD1	B121430	QC	47		1231002-05			
B121430-MS2	B121430	QC	48		1231002-06			
B121430-MSD2	B121430	QC	49		1231002-06			
B121430-MS3	B121430	QC	50		1232022-15			
B121430-MSD3	B121430	QC	51		1232022-15			
1232022-03RE1	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	52			AAL-MN1101	9/4/2012	Added 8/24/2012 by M_H

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200662

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200662-CCV3	1200662	QC	53	1232063	-			
1232022-13	B121430	Hg-W-BrCl-CVAFS-NoMB-TR	54			AAL-MN1101	9/4/2012	
1232022-04	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	55			AAL-MN1101	9/4/2012	
1232022-10	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	56			AAL-MN1101	9/4/2012	
1232022-02	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	57			AAL-MN1101	9/4/2012	
1232022-06	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	58			AAL-MN1101	9/4/2012	
1232022-08	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	59			AAL-MN1101	9/4/2012	
1231002-04	B121430	Hg-W-BrCl-CVAFS-TR	60			UDE-SL1201	9/13/2012	
1231002-11	B121430	Hg-W-BrCl-CVAFS-TR	61			UDE-SL1201	9/13/2012	
1232022-12	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	62			AAL-MN1101	9/4/2012	
1232022-14	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	63			AAL-MN1101	9/4/2012	
1200662-CCV4	1200662	QC	64	1229079	-			
1232022-16	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	65			AAL-MN1101	9/4/2012	
1232022-30	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	66			AAL-MN1101	9/4/2012	
1232022-04RE1	B121430	Hg-W-BrCl-CVAFS-NoMB-Diss	67			AAL-MN1101	9/4/2012	Added 8/24/2012 by M_H
1200662-CCV5	1200662	QC	68	1229079	-			

SOP(s) / Rev#(s): 0006-004e

**Hg Analysis Sheet : T-Hg / Other:** \_\_\_\_\_

Sequence: 1200662 Batch(es): B121430 & B121434

Analyst: MCH Date: 8.24.12 Instrument ID: THg 05

10ng/mL std ID: 1232056 1ng/mL std ID: 1232055 ICV std ID: 1233012

NH<sub>2</sub>OH·HCl #: 1232004 SnCl<sub>2</sub> #: 1233054

Initial offset: 10,003 Initial PMT: 495.0 Trap Serial #: 12145

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
1	1	7	1	SEQ-IBL1	---		
2	2	8	2	SEQ-IBL2	---		
3	3	11	3	SEQ-IBL3	---		
4	4	12	4	SEQ-IBL4	---		HIGH IBC: WILL RETURN
5	1	10	1	SEQ-CAL1	0.025		1ng/mL
6	2	1	2	SEQ-CAL2	0.100		1ng/mL
7	3	2	3	SEQ-CAL3	0.050		10ng/mL
8	4	4	4	SEQ-CAL4	0.250		10ng/mL
9	1	6	1	SEQ-CAL5	1.00		10ng/mL
10	2	7	2	SEQ-ICV1	1.00		NIST 1641d
11	3	8	3	SEQ-CCV	0.050		10ng/mL
12	4	BN	4	TRAP CHECK	0.050		10ng/mL (NEW BOTTLE WASH - AIRTES (P2))
14	1	10	1	SEQ-CCB1	---		
15	2	11	2	B121434-BL1	100.05		
16	3	12	3	-BL2	99.24		
17	4	1	4	-BL3	99.71		
19	1	2	1	-BL4	100.40		
20	2	4	2	B121434-BS16	99.43		LOD
21	3	6	3	-BS2	99.41		LOD
22	4	7	4	SEQ-IBL5	---		PREPND OF IBC4
23	1	8	1	B121434-BS3	100.89		
24	2	10	2	-BS4	100.91		
25	3	11	3	-BS5	99.16		
26	4	12	4	SEQ-CCV	0.050		10ng/mL

Comments: RUN 13 IS AIR TESTING FOR PREP LAB

RUN 14 IS AIR TESTING FOR JOSEPH'S ROOM.

Balance ID: BL-02



SOP(s) / Rev#(s): 0006-007e

Hg Analysis Sheet: T-Hg / Other: \_\_\_\_\_

Page 2 of 3

Sequence: 1200662

Analyst: MLH

Date: 8.24.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
28	1	WBW	1	TRAP CHECK	0.050		10ng/ml - (New Bottle Wash)
29	2	1	2	B121430-BK1	100.44		
30	3	2	3	-BK2	100.03		
31	4	4	4	-BK3	99.70		
32	1	6	1	-BK4	100.65		
33	2	7	2	B121434-BK4	99.19		LOD REMOVED
34	3	8	3	1232022-24	99.95		
35	4	10	4	1231002-05	75.40		
37	1	11	1	-06	75.00		
38	2	12	2	1232022-01	74.83		
39	3	1	3	-05	74.99		
40	4	2	4	-03	74.24		MER-GAL: W/CC REMOVED
41	1	4	1	-05	99.05		
42	2	6	2	-07	75.70		
43	3	7	3	-09	75.66	100.02	
44	4	9	4	-11	75.57	100.01	
45	1	10	1	B121430-MS1	74.44		NATIVE: 1231002-05 + 2300 (230ul of 10ng/ml)
46	2	11	2	-MSD1	75.81		↓
47	3	12	3	-MS2	74.91		NATIVE: 1231002-06 + 1600 (1600ul of 10ng/ml)
48	4	1	4	-MSD2	74.16		↓
50	1	2	1	-MS3	74.27		NATIVE: 1232022-15 + 1600 (1600ul of 10ng/ml)
51	2	4	2	-MSD3	74.23		↓
52	3	6	3	1232022-03Re	5.00		
53	4	7	4	SED-CCV	0.050		10ng/ml
54	1	8	1	1232022-13	100.20		
55	2	10	2	-04	25.70		
56	3	11	3	-10	99.99		
57	4	12	4	-02	100.99		
58	1	1	1	1232022-06	99.98		
59	2	2	2	-08	99.56		
60	3	4	3	1231002-07	100.11		
61	4	6	4	-11	99.53		

Comments: Run 27: MR TESTING S&R Run 30: MR TESTING NEW BOTTLE WASH.  
Run 49: MR TESTING Hg LAB.

SOP(s) / Rev#(s): 0006-004e

Hg Analysis Sheet : T-Hg / Other: \_\_\_\_\_

Page 3 of 3

Sequence: 1200602

Analyst: MLH

Date: 8.24.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
63	1	7	1	1232022-12	100.99		
64	2	9	2	+ -14	100.00		
65	3	10	3	SEQ-CCV	0.050		10ng/ml
66	4	11	4	1232022-16	99.19		
67	1	12	1	+ -30	99.14		
68	2	1	2	+ -04	100.50		
69	3	2	3	SEQ-CCV	0.050		10ng/ml
<p><i>MLH</i> <i>8.24.12</i></p>							

Comments: 62 RUN: AIR TESTING TM LAB. RUN 70: AIR TESTING RETURN TM LAB. FRANK SAID RETURN OF TM LAB WAS OK DUE TO BAD TRAP.

Brooks Rand Labs

THg Water Prep Benchsheet  
SOP / Rev #: BR-0006 Rev 004E

BRL Report 1231002

Prepped By: AAP

Batch: B121430

1<sup>st</sup> - 24 hr Check Date/Time: 9:30 8.24.12

BrCl ID: 1230052

2<sup>nd</sup> - 24 hr Check Date/Time: —

Preparation Start Date/Time\*: 8-10-12/1532

Preparation End Date/Time\*\*:

8-10-12/1547

\* Time is when the first reagents are added.

\*\* Time is when the last sample is brought upto volume

Sample ID	Sample Aliquot (mL)	BrCl added (mL)	%BrCl	24 hr Check (initials)	only fill out if additional BrCl is added		
					Additional BrCl Added (mL)	2nd - 24 hr Check (initials)	Adjusted %BrCl
1231002-04	250	5	2%	mtt			
1231002-05							
1231002-06							
1231002-11							
1232022-01							
1232022-02		2.5	1%				
1232022-03		5	2%				
1232022-04		2.5	1%				
1232022-05							
1232022-06							
1232022-07		5	2%				
1232022-08		2.5	1%				
1232022-09		5	2%				
1232022-10		2.5	1%				
1232022-11		5	2%				
1232022-12		2.5	1%				
1232022-13							
1232022-14							
1232022-15		5	2%				
1232022-16		2.5	1%				
1232022-17							
1232022-18							
1232022-19							
1232022-20							
1232022-23	500	5					
1232022-26							
1232022-27	250	2.5					
1232022-28							
1232022-29							
1232022-30							
B121430-BLK1							
B121430-BLK2							
B121430-BLK3							
B121430-BLK4							
mtt 8.24.12							

Time in: 1035/8.13.12  
Time out: 1435/8.13.12

Oven Temp (measured / corrected): 65 / 65  
Oven Temp (measured / corrected): 64 / 64  
Thermometer ID: PL-12

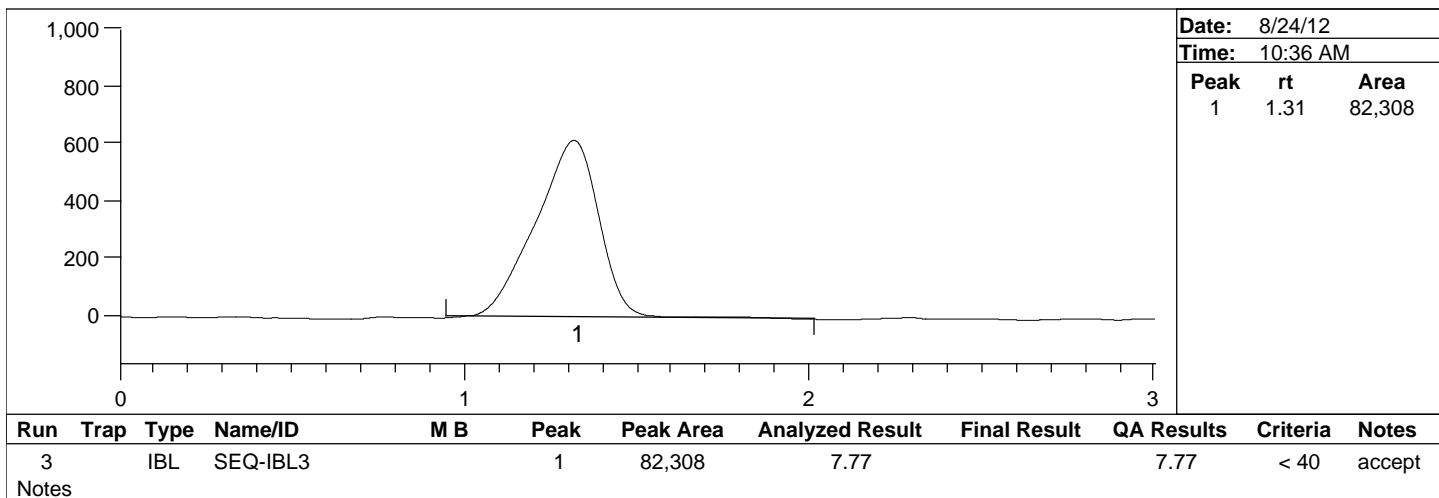
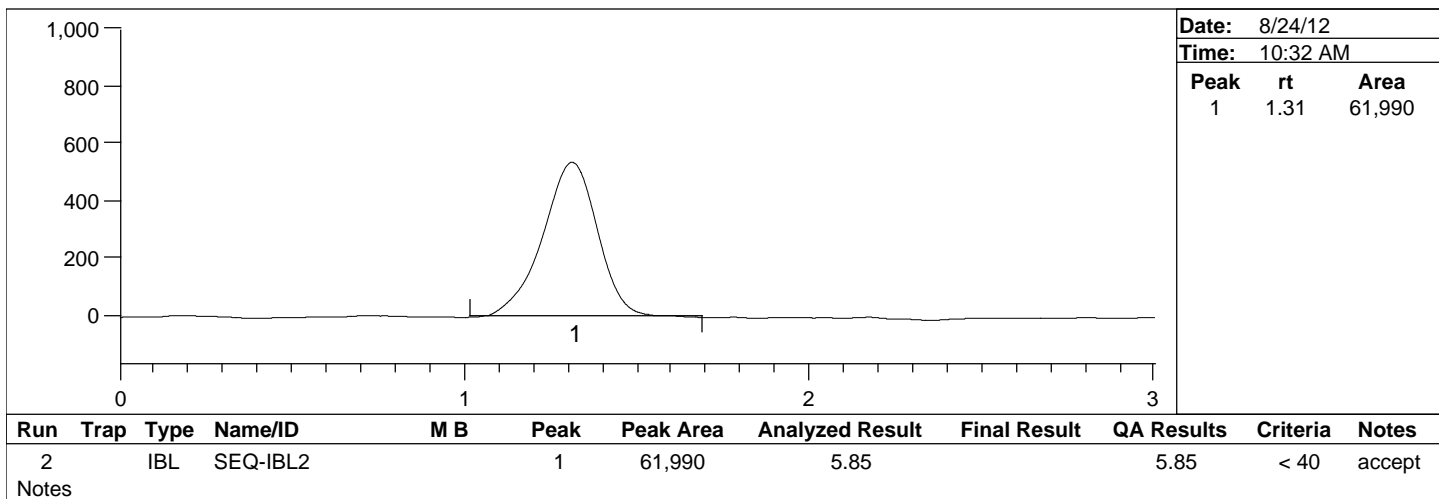
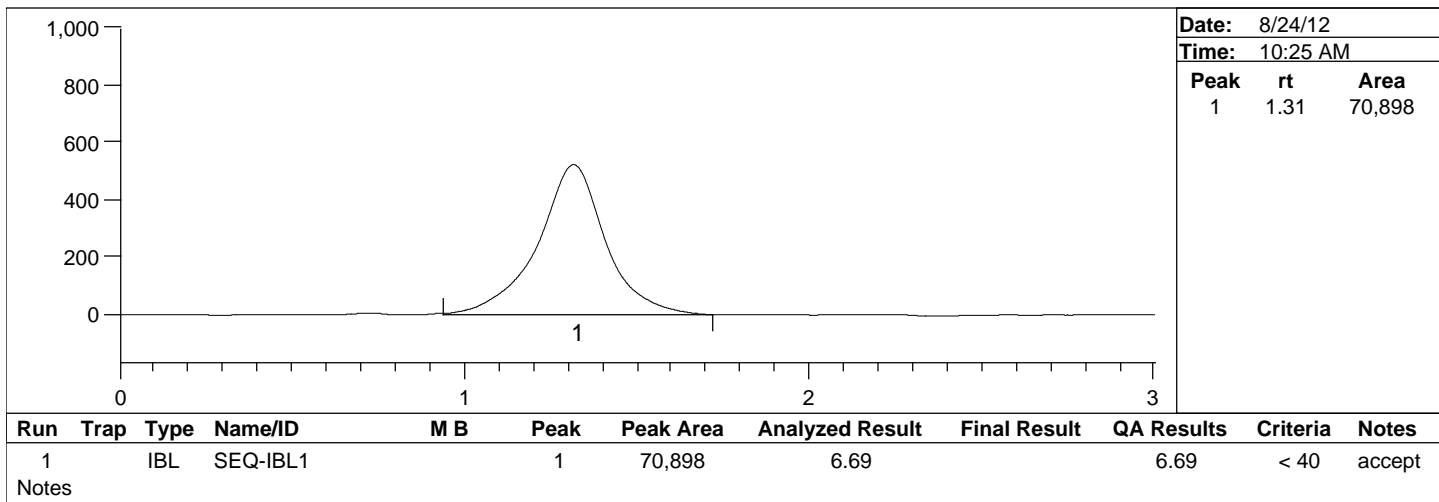
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# Peak Report

Batch Number: B121430  
 Method Number: CVAFS BR-0006

Project Number(s): 1200662  
 Instrument ID: THG-05

Date Analyzed: 8/24/12  
 Analyst Name: MLH

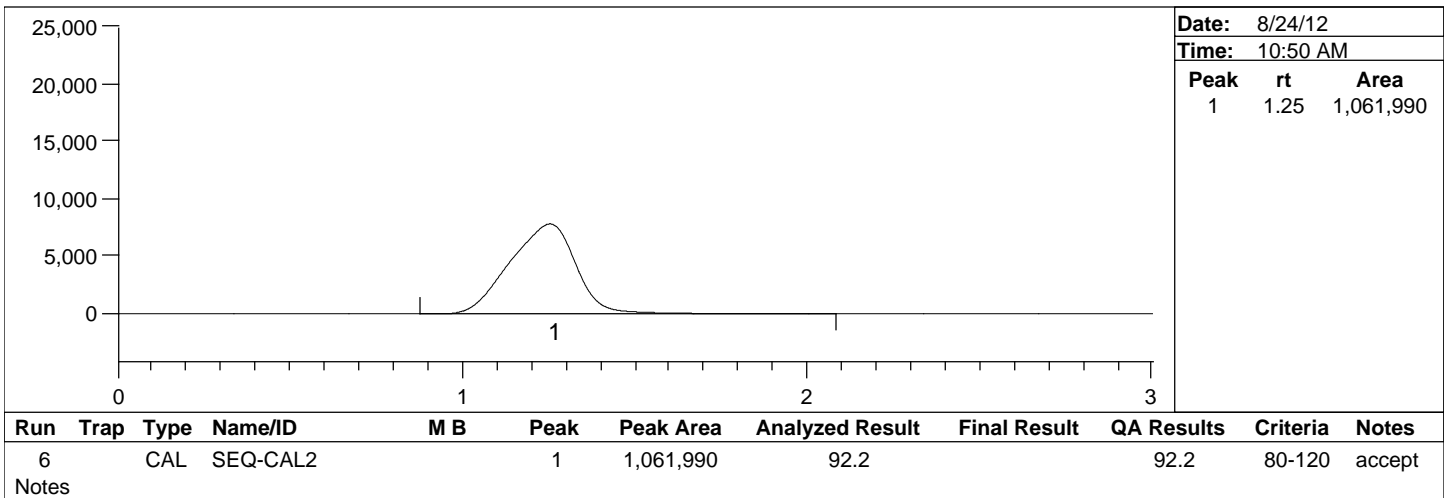
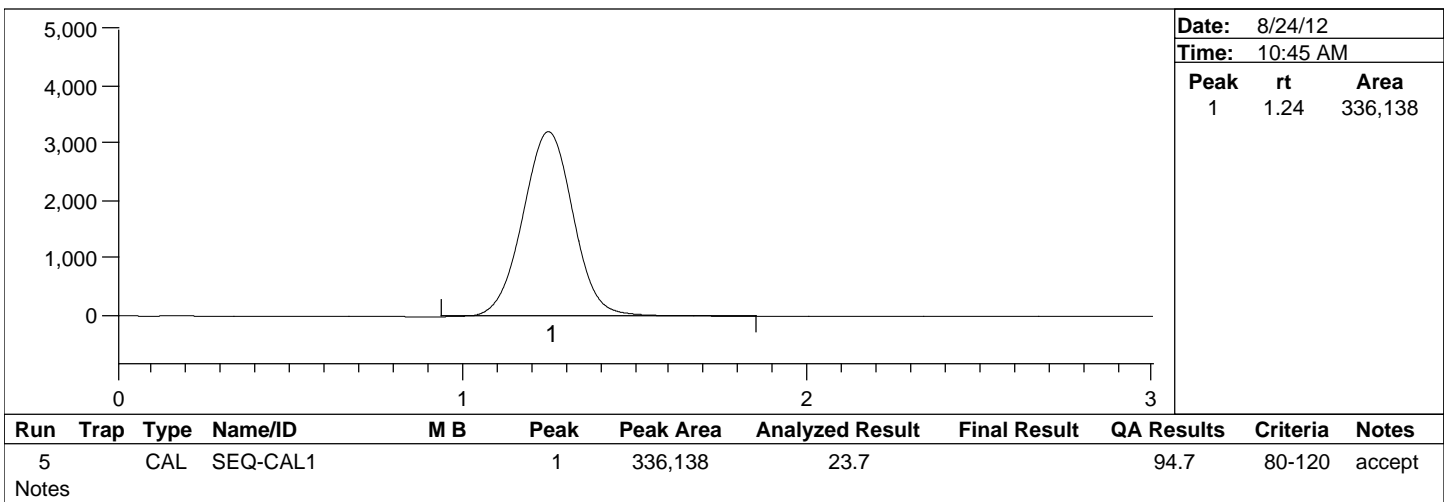
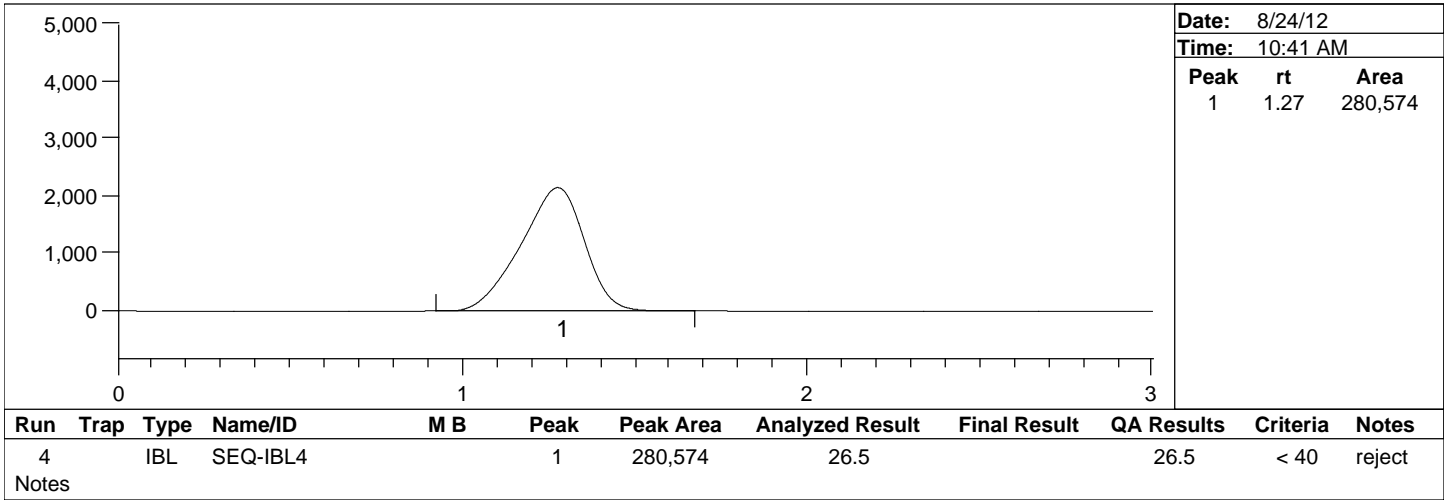


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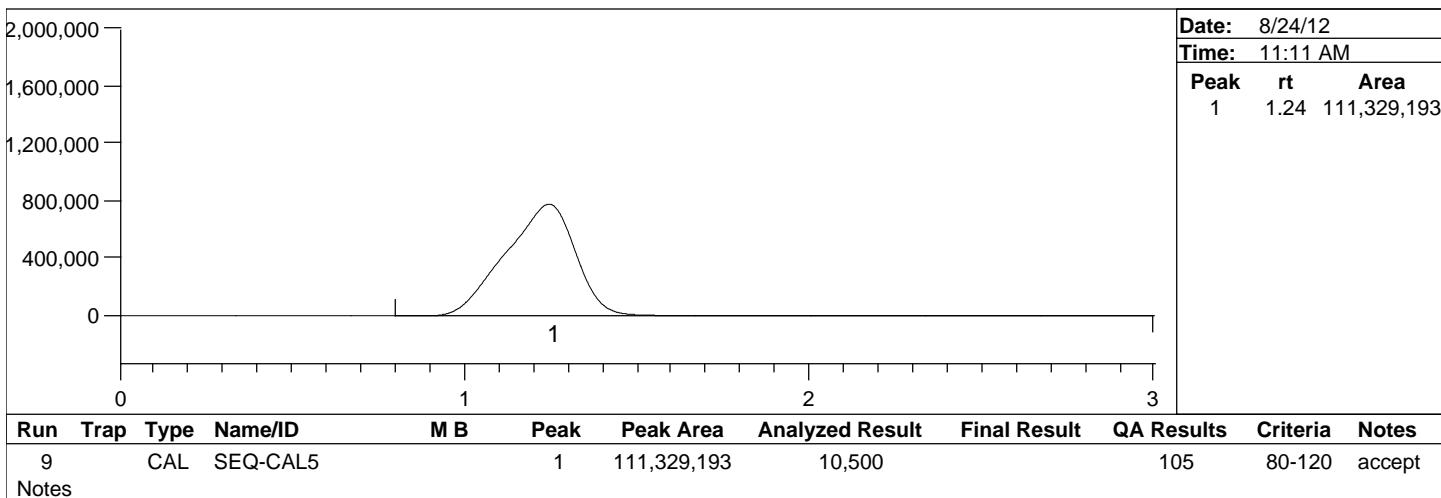
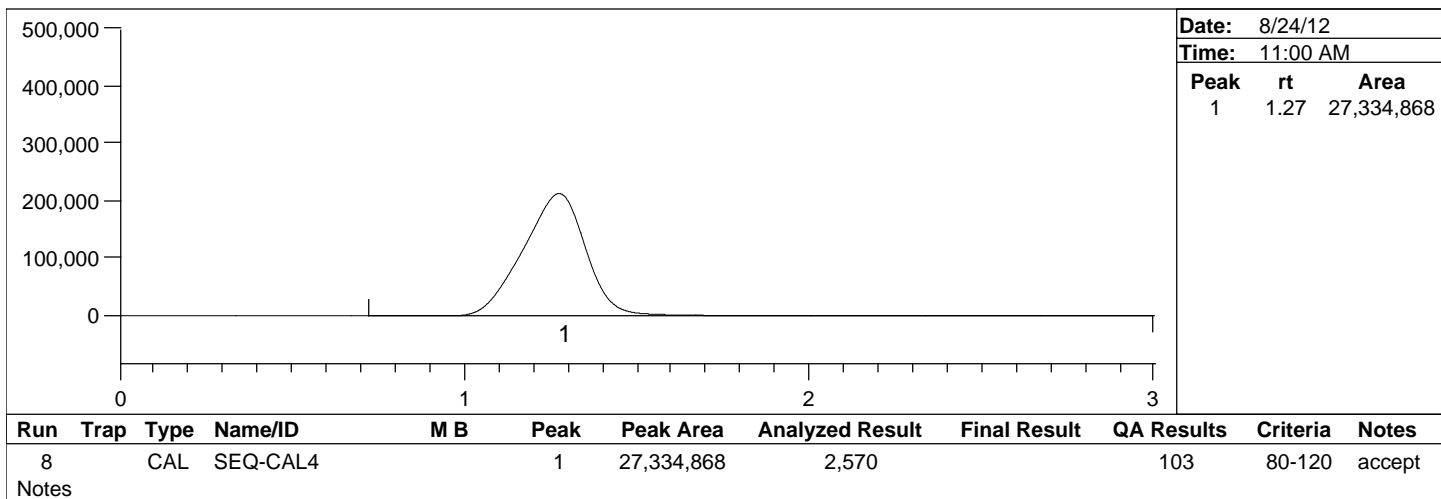
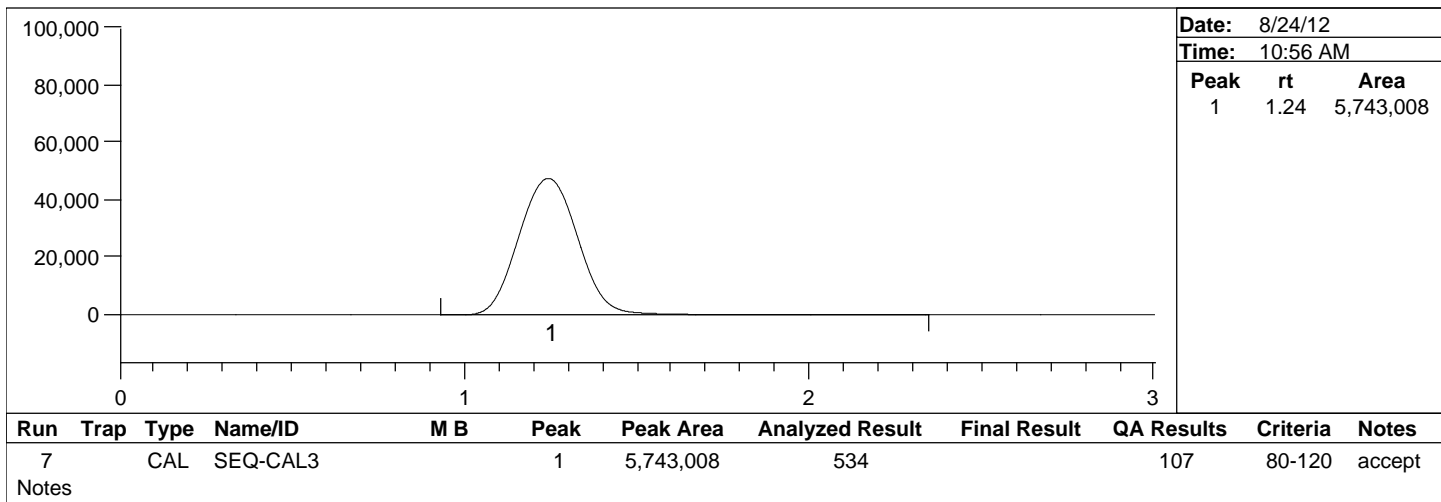


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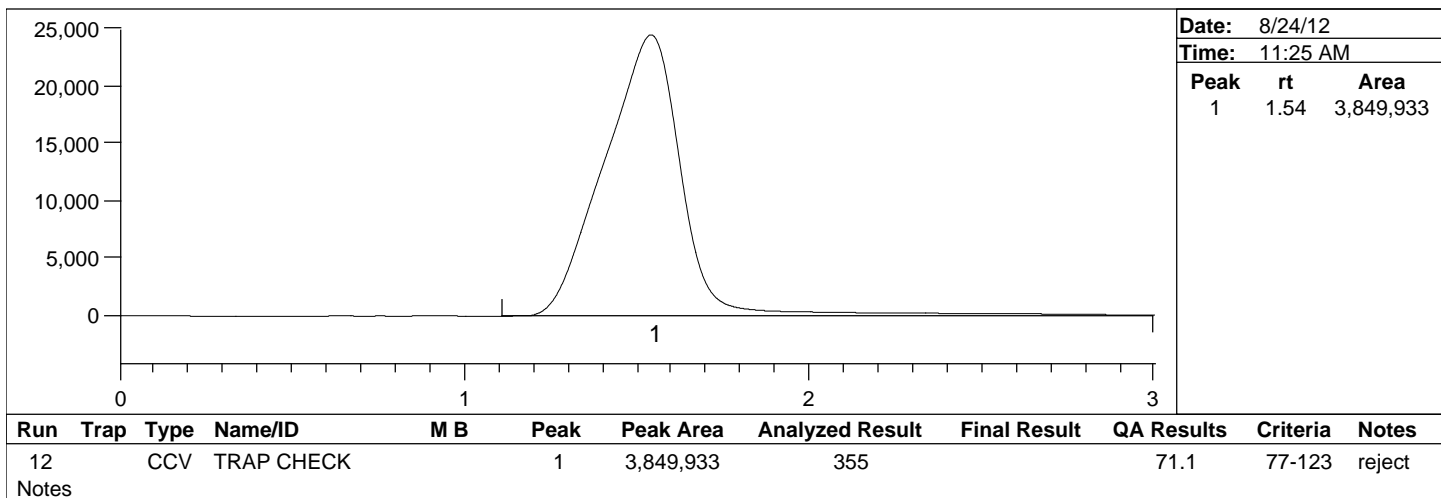
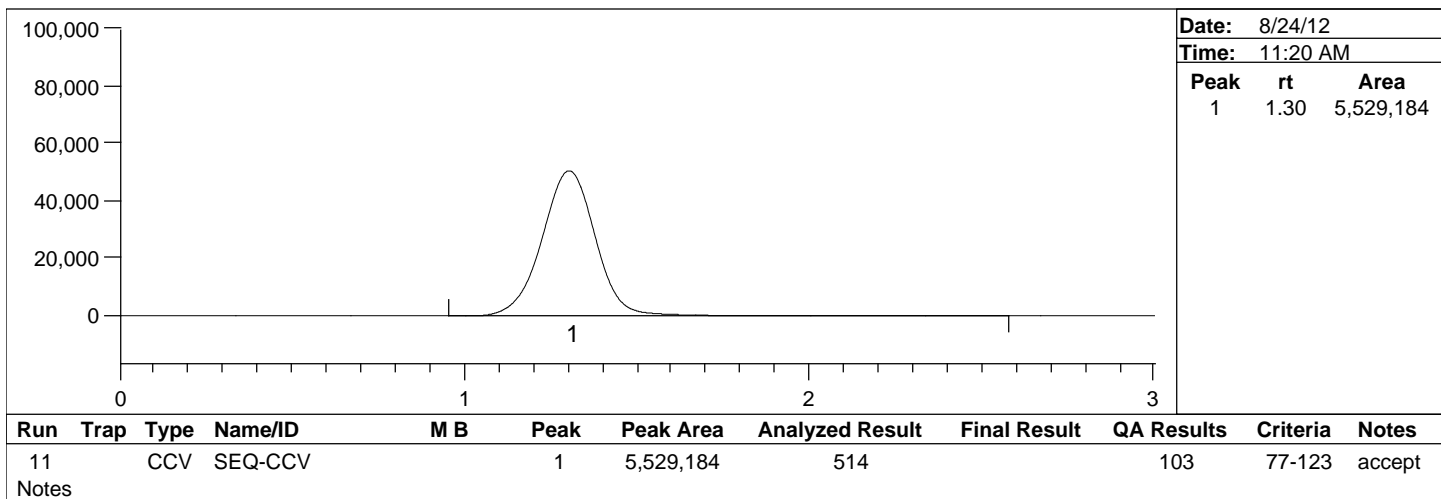
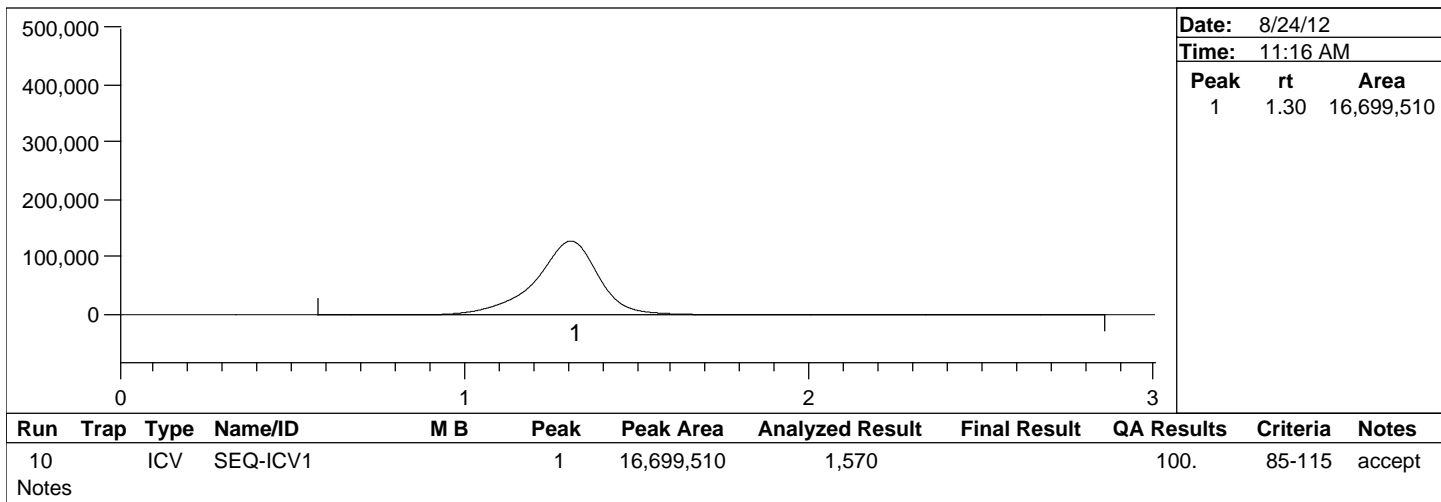


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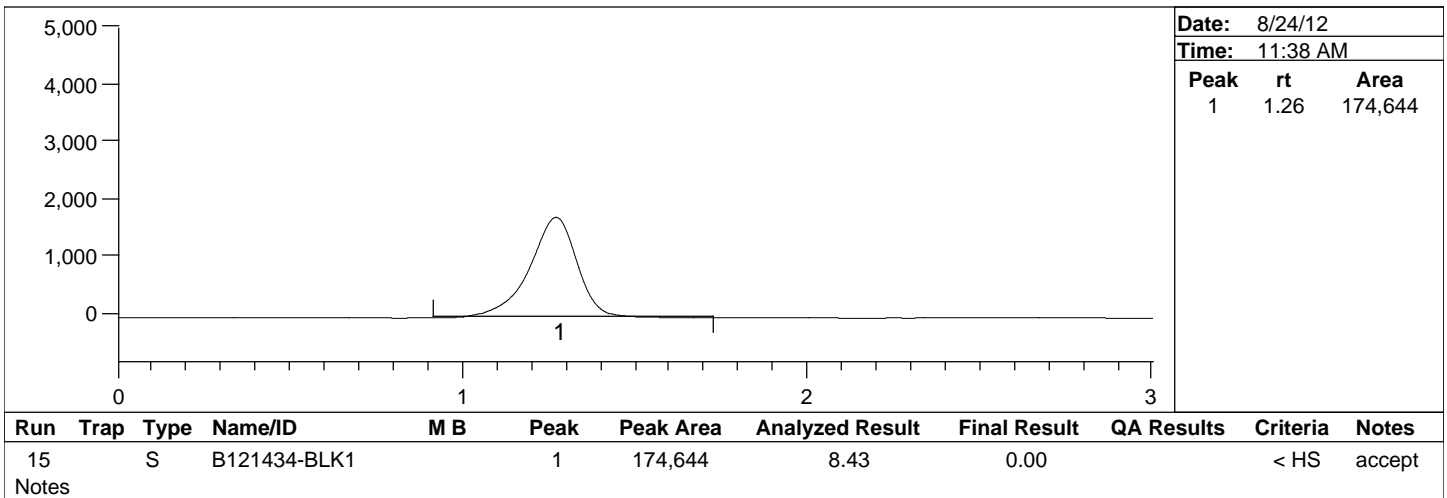
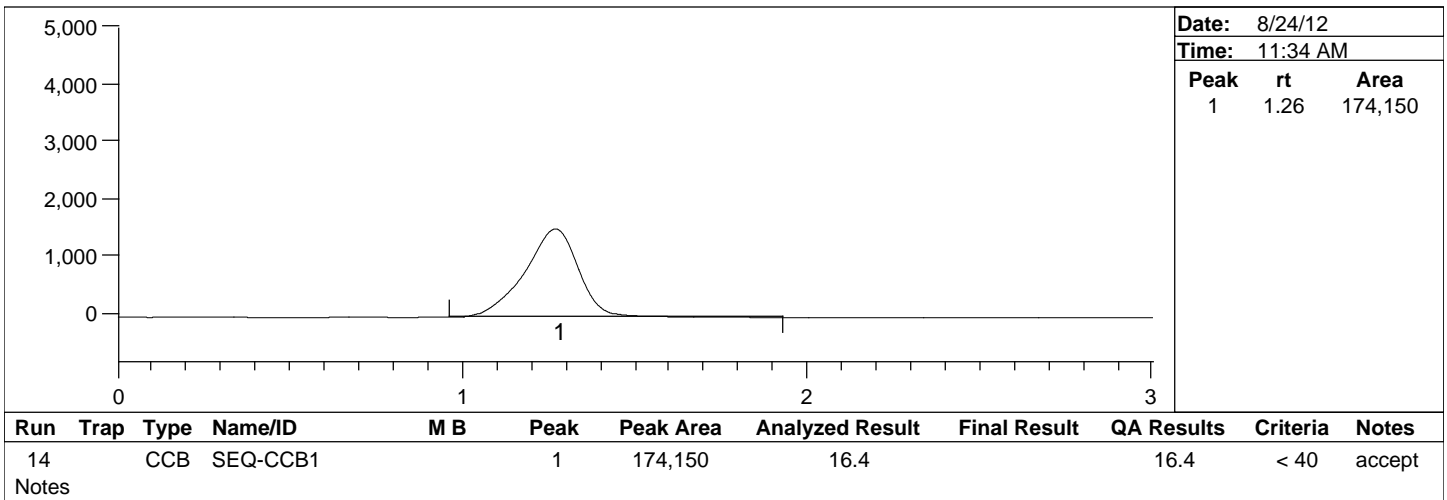
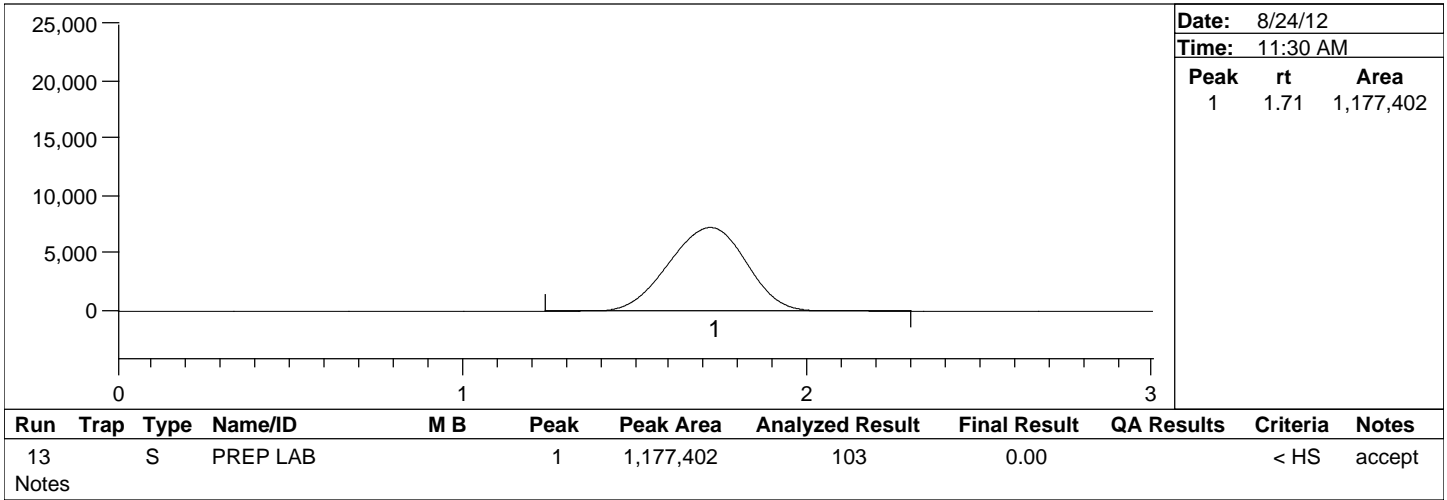


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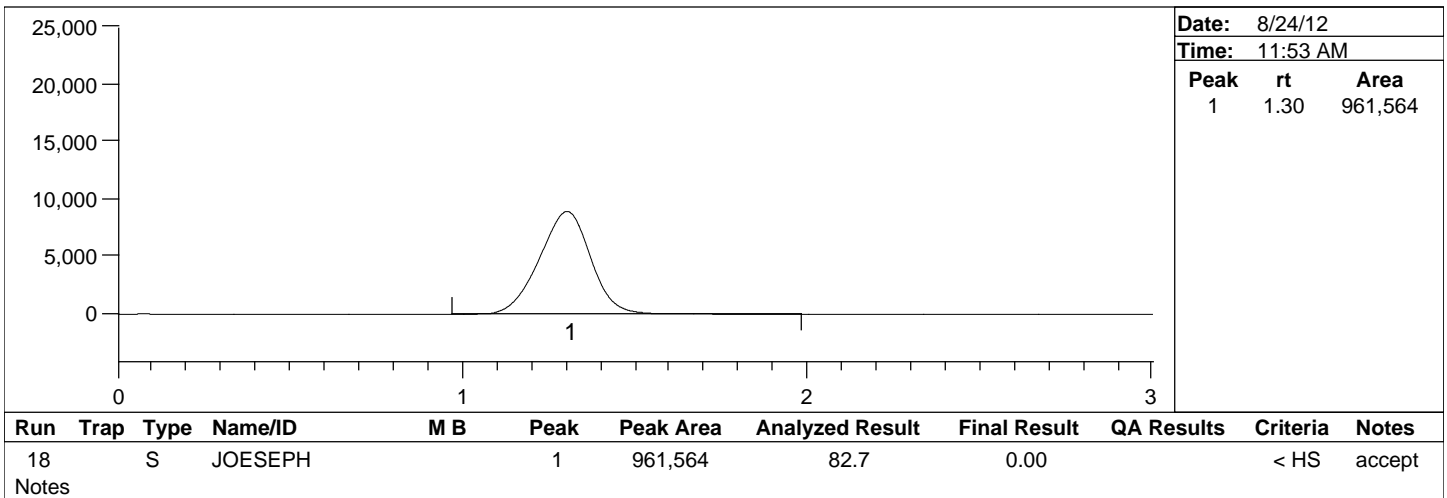
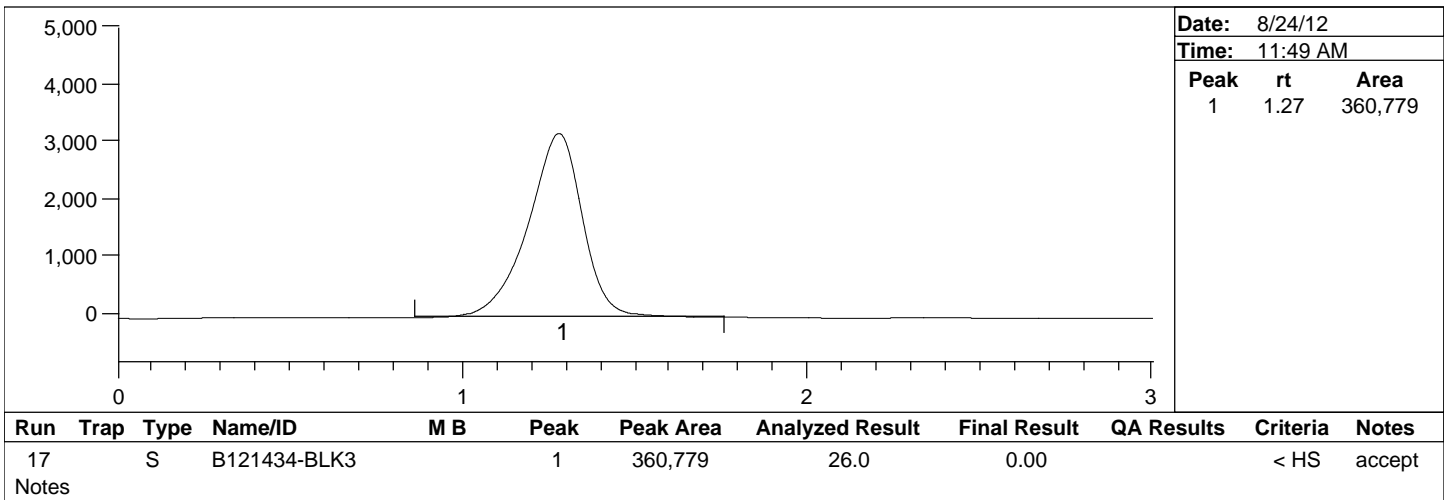
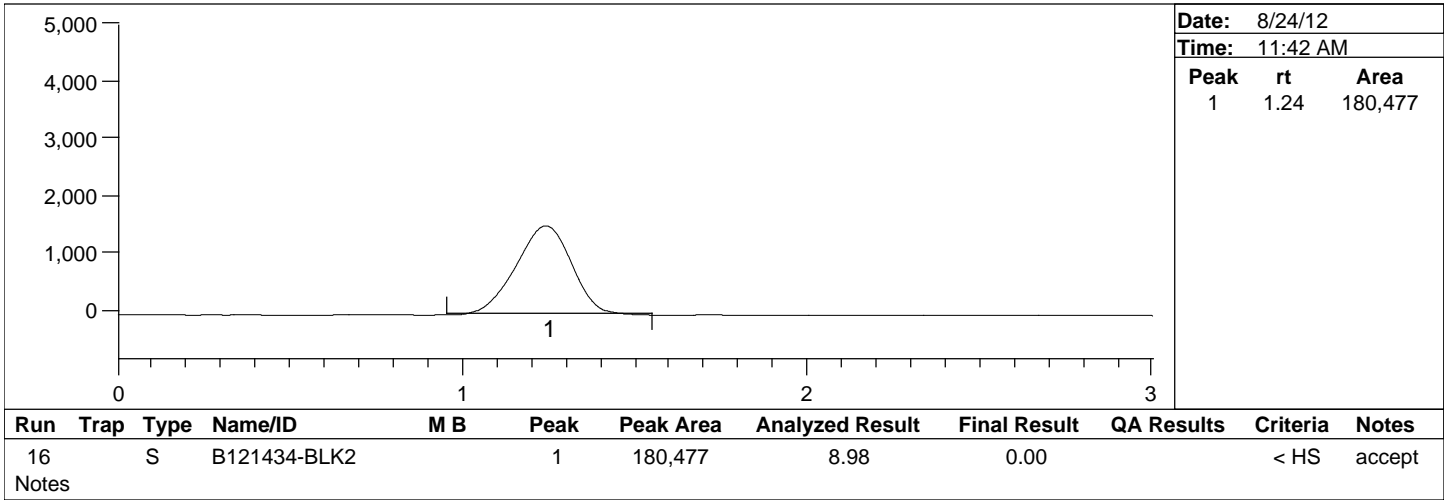


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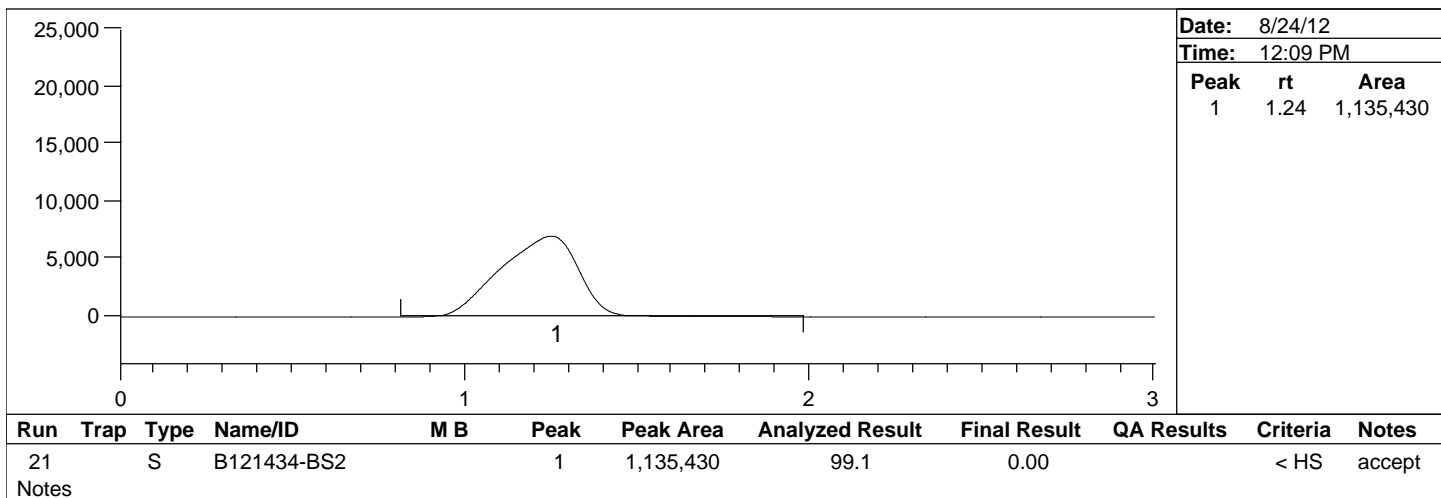
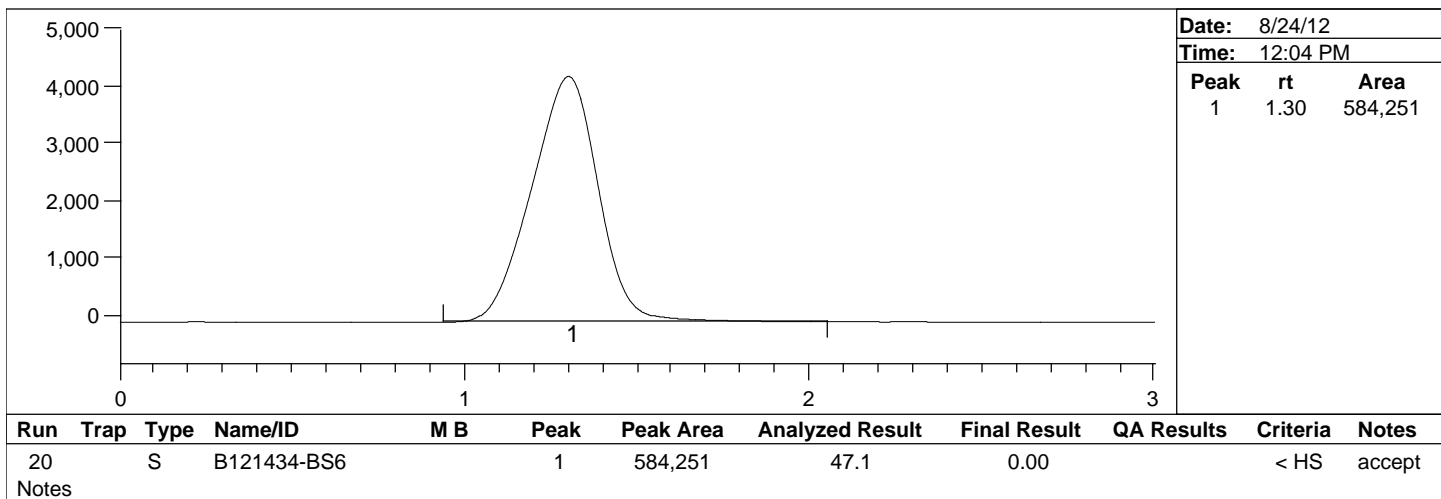
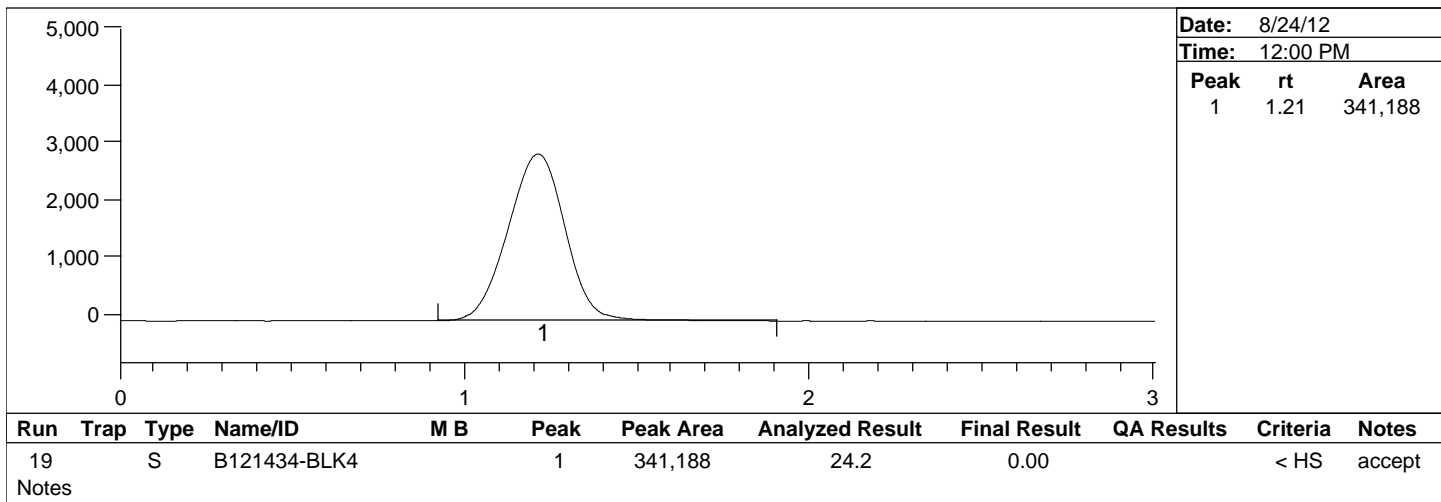


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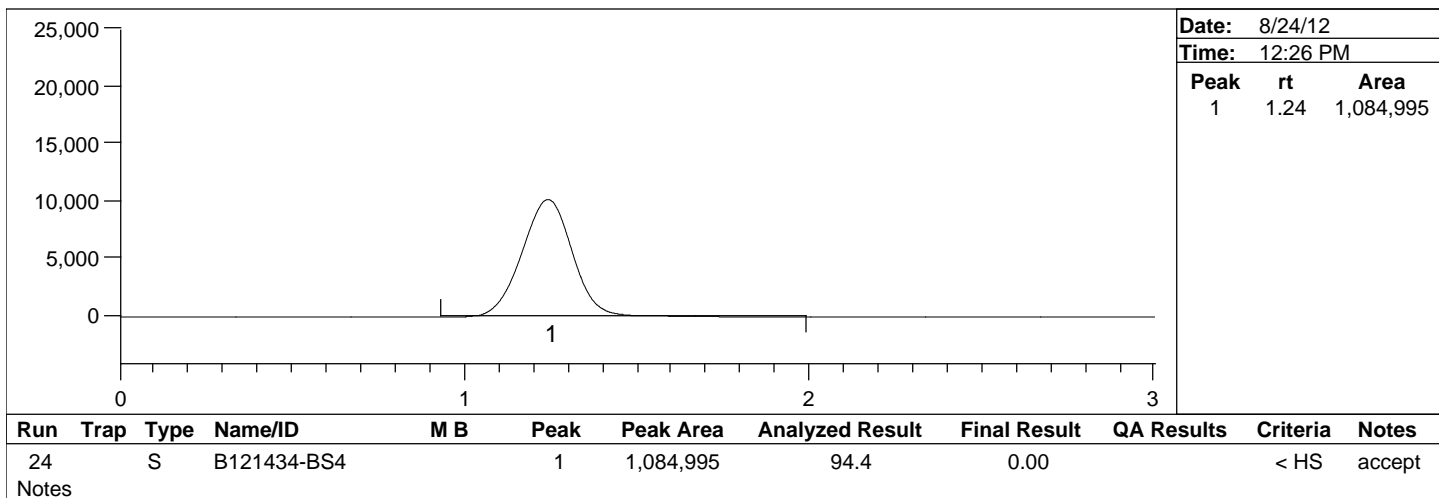
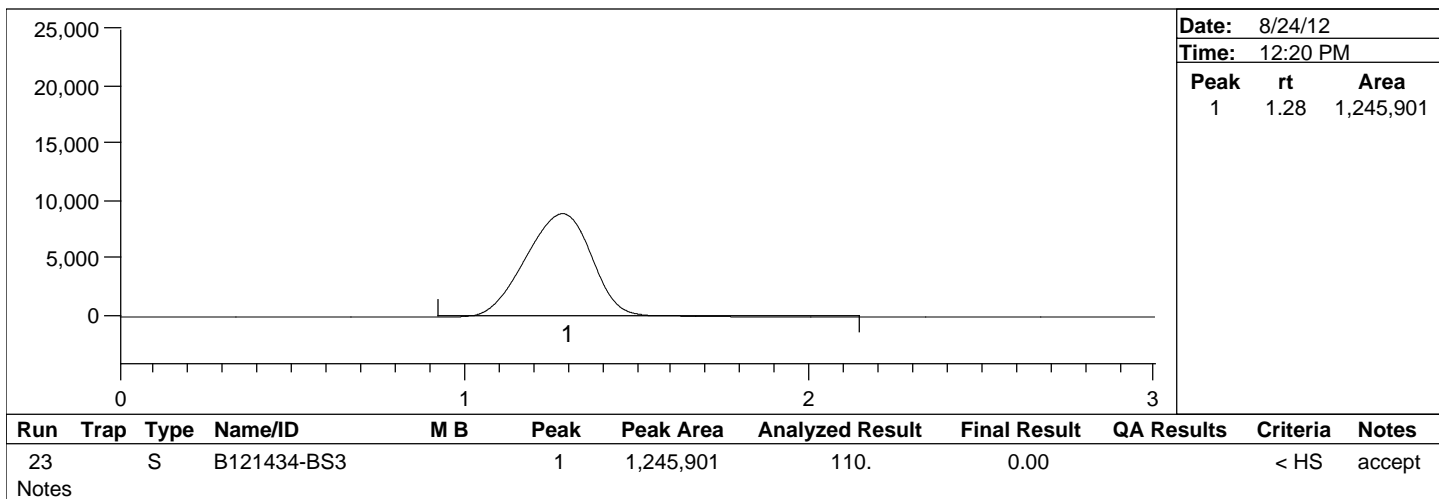
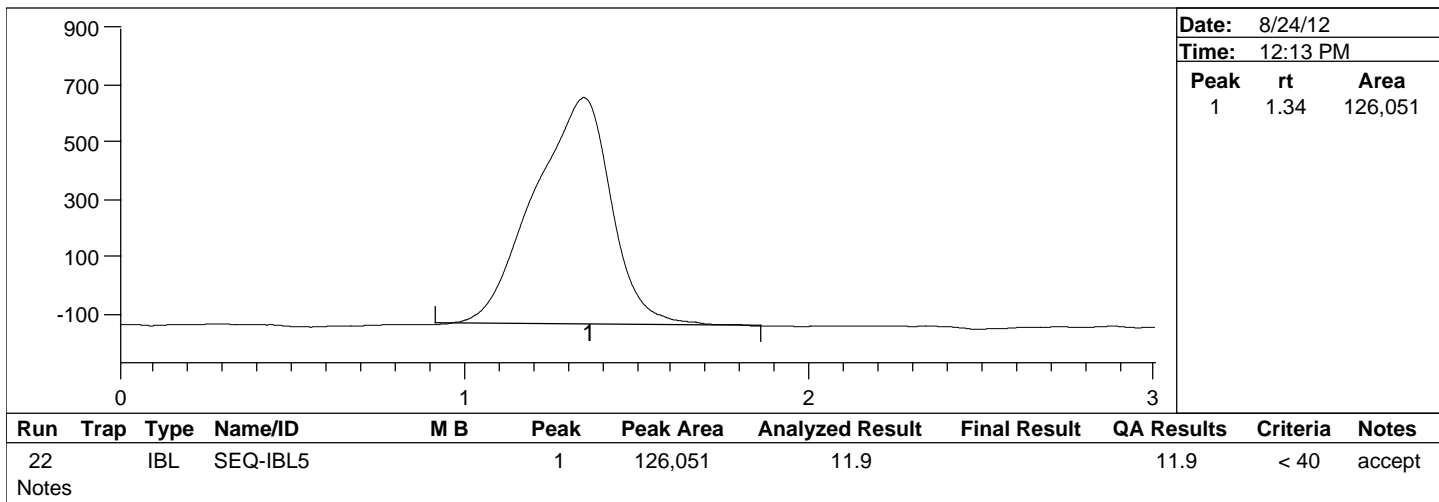


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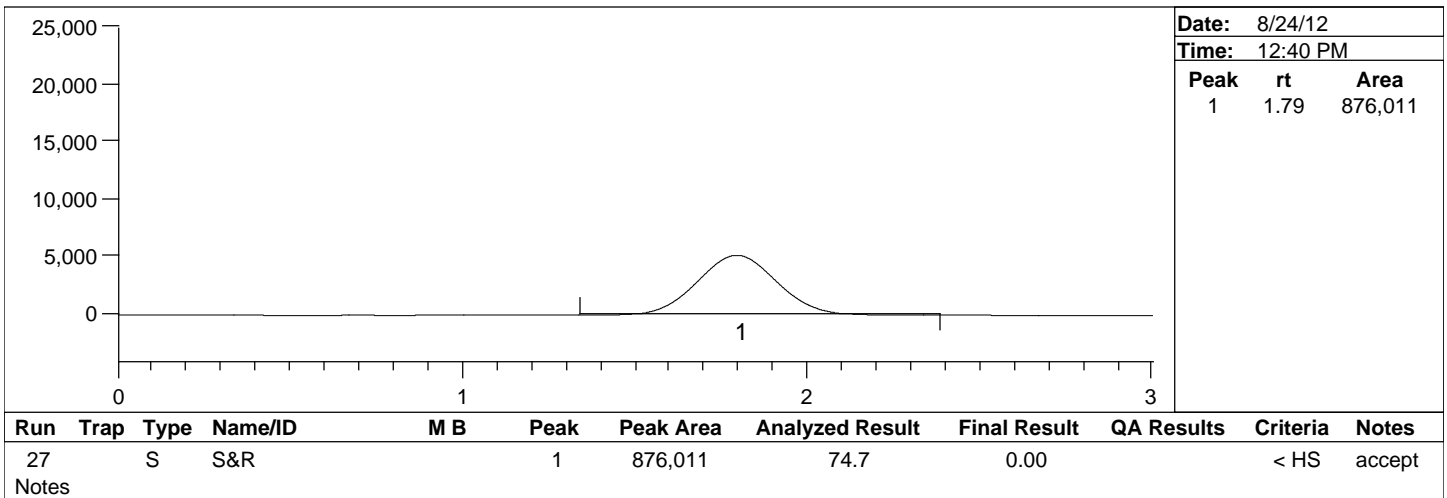
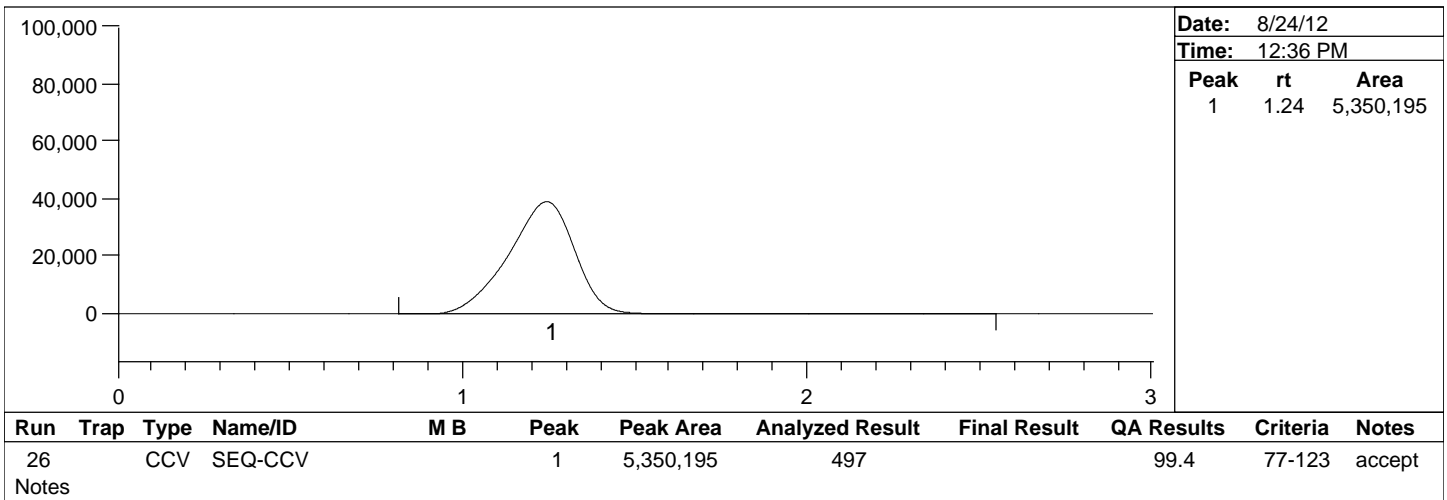
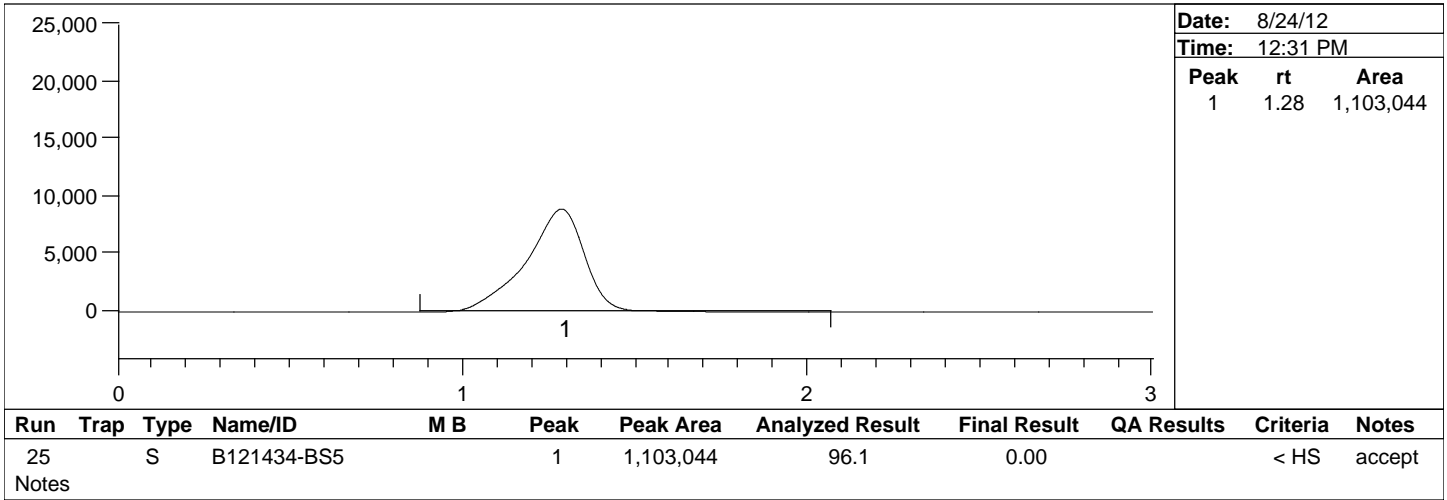


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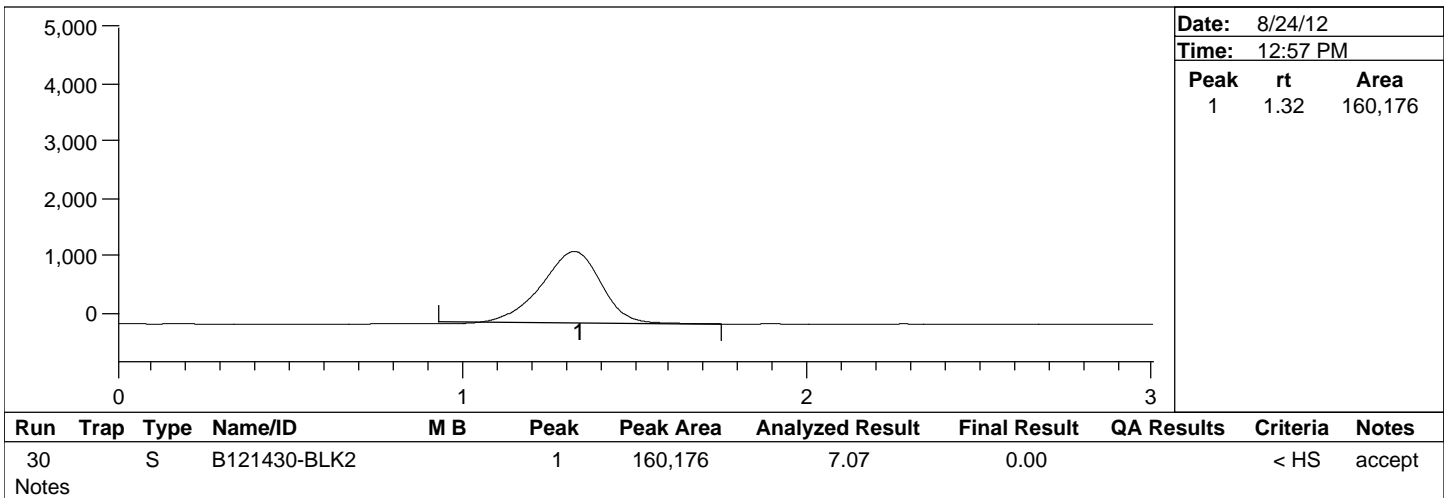
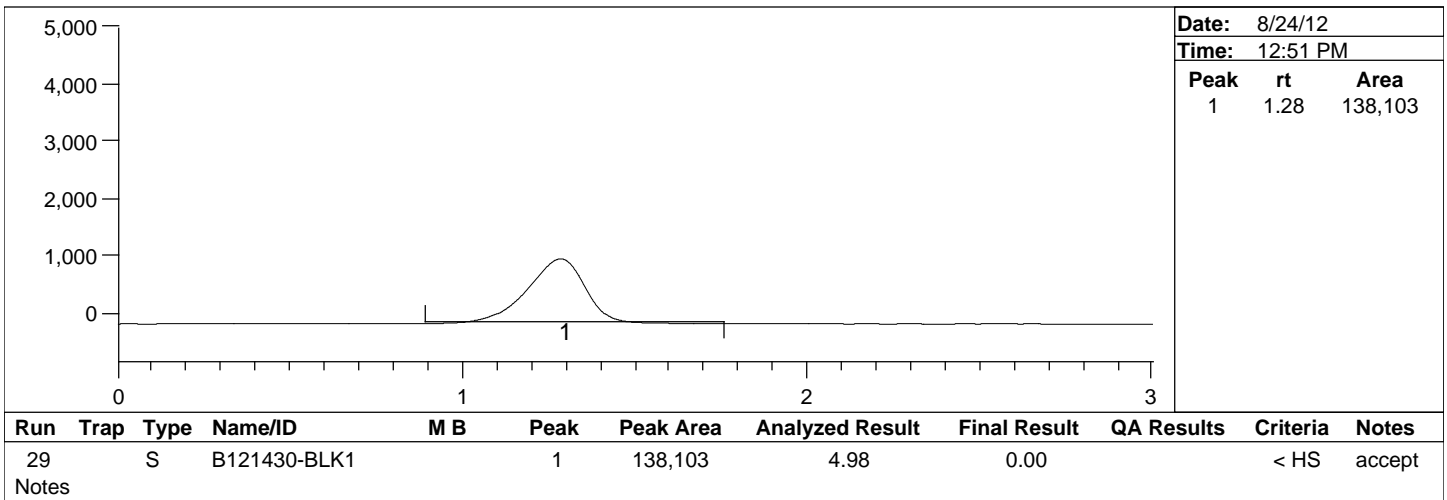
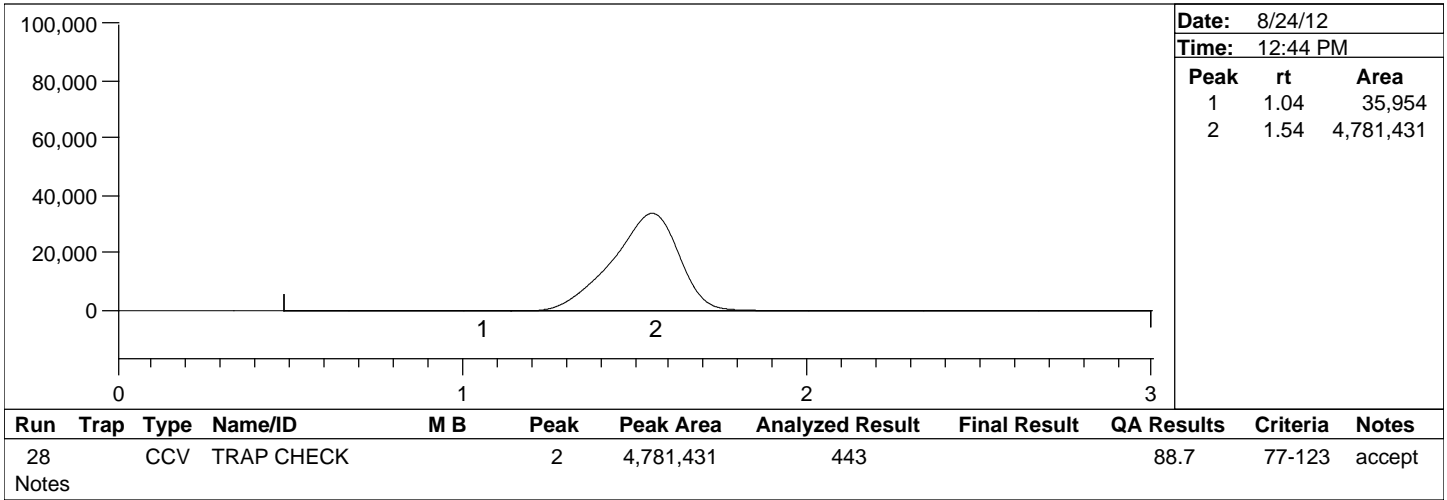


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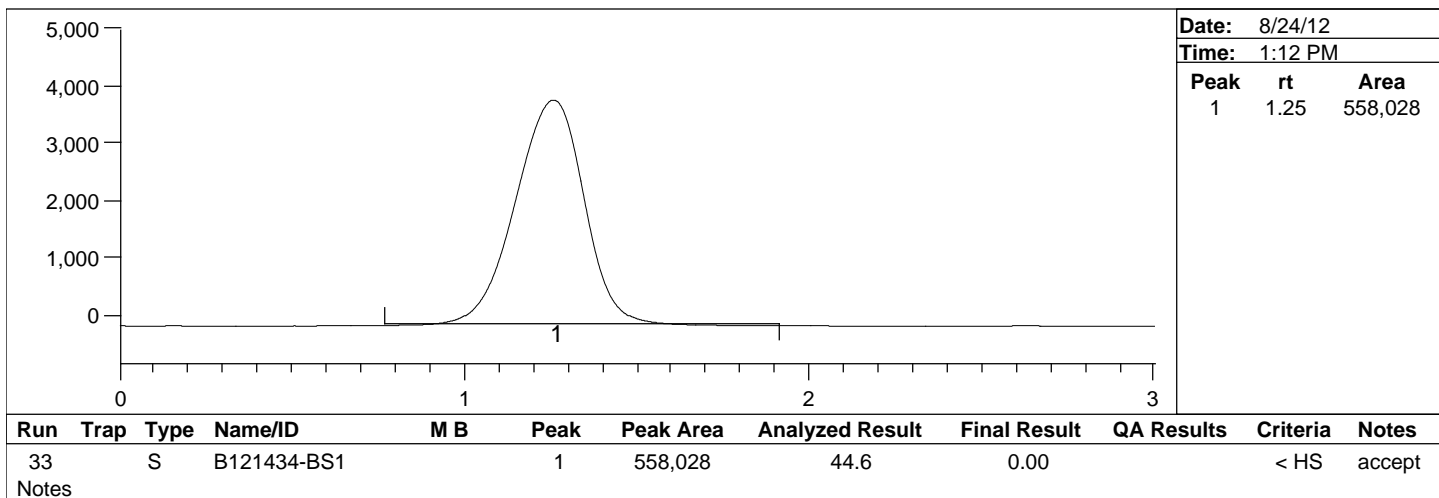
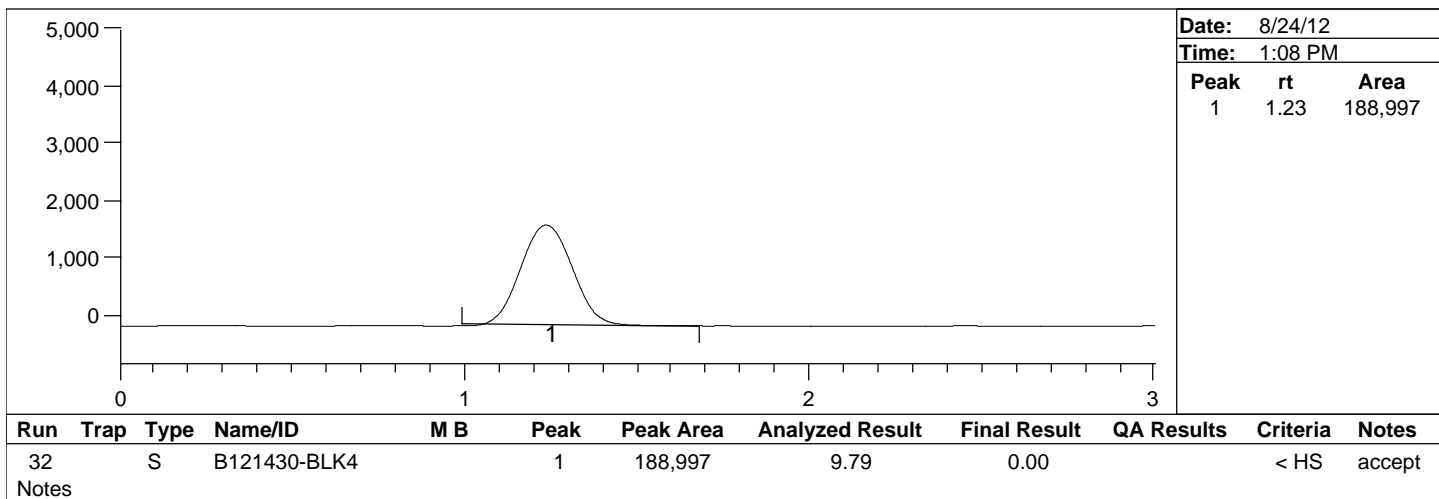
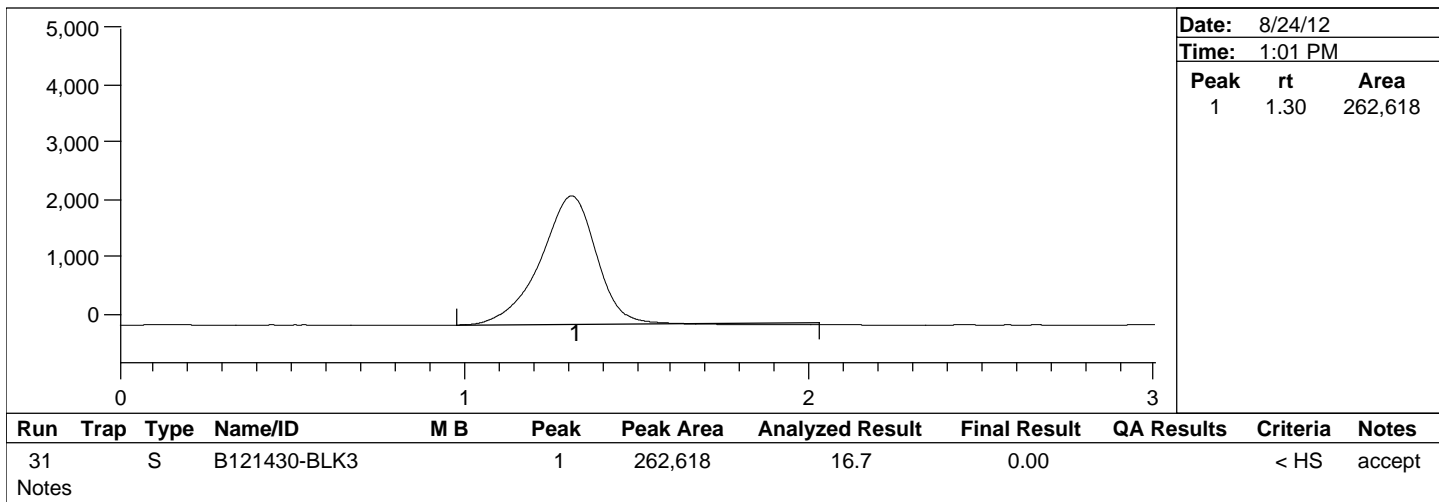


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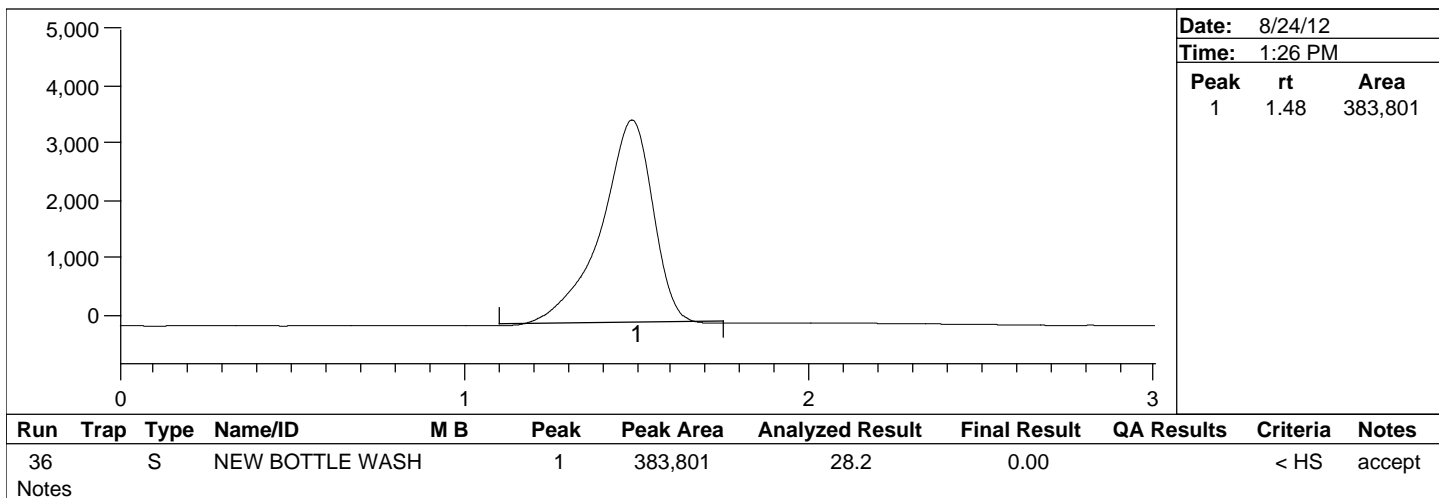
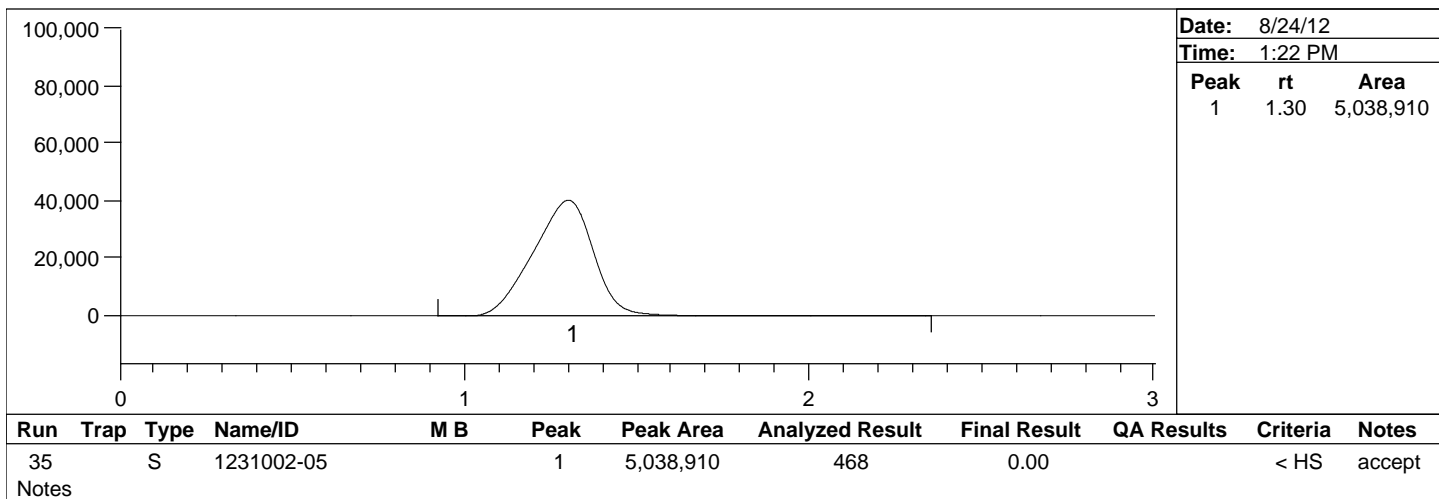
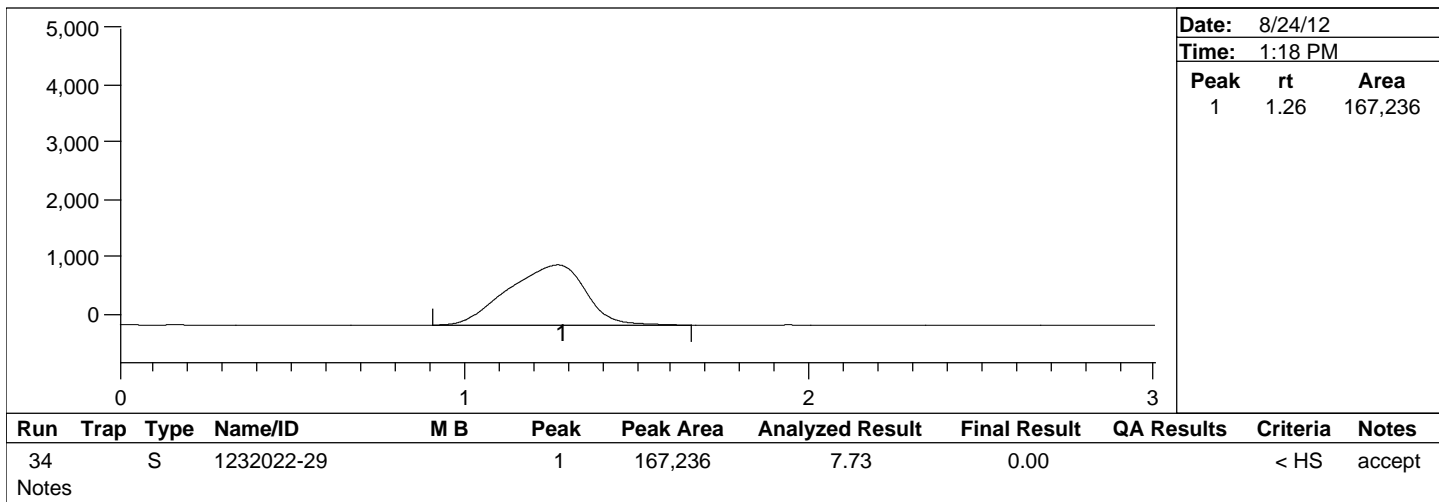


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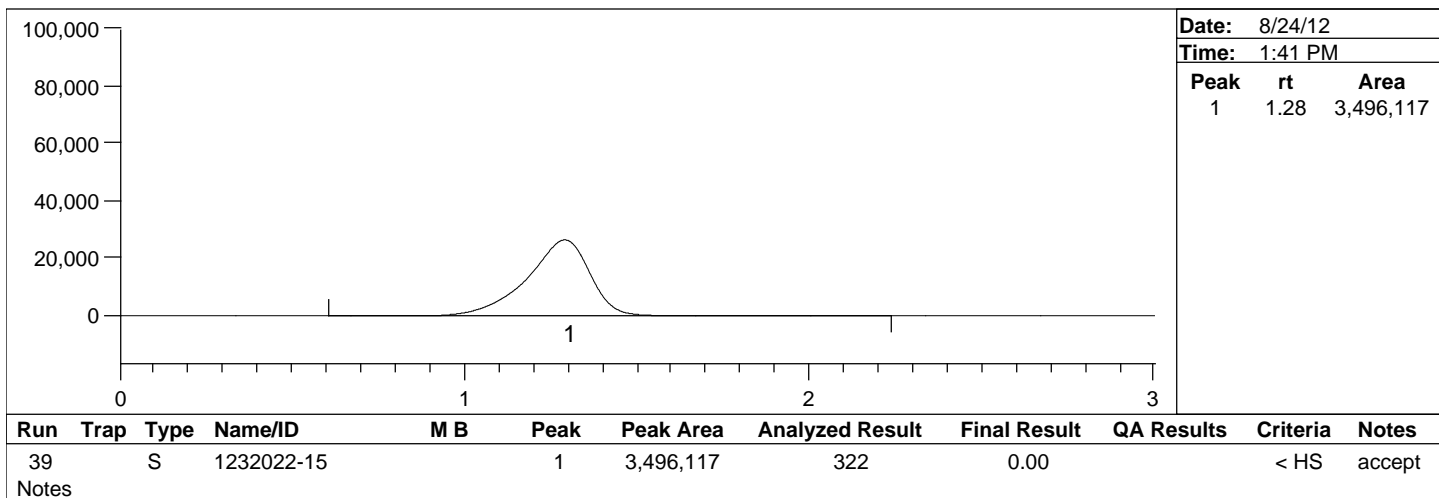
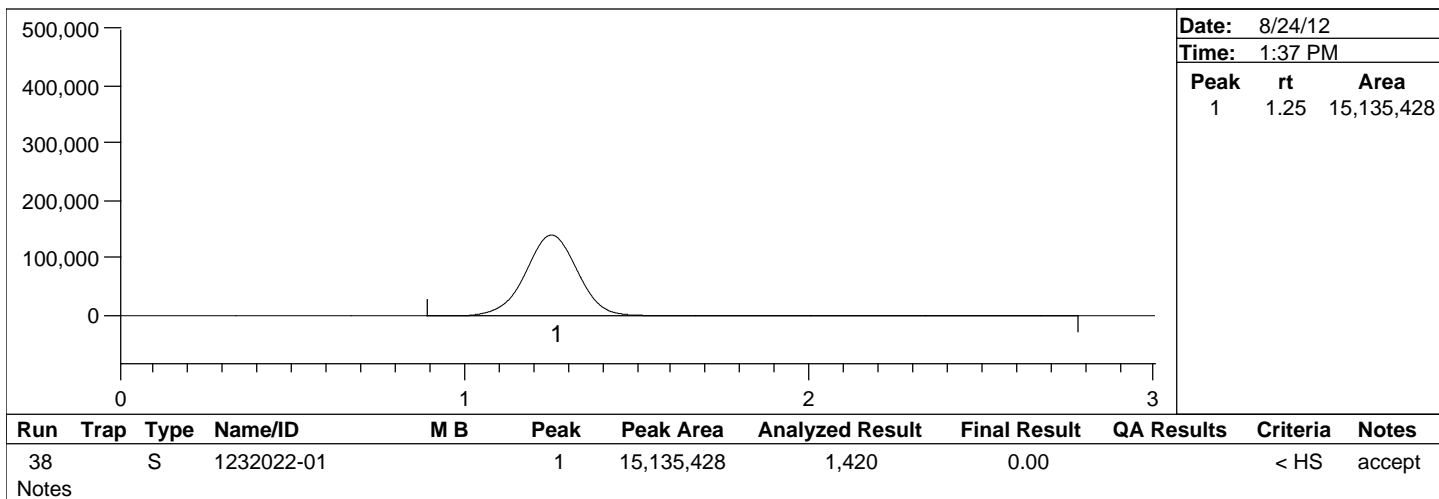
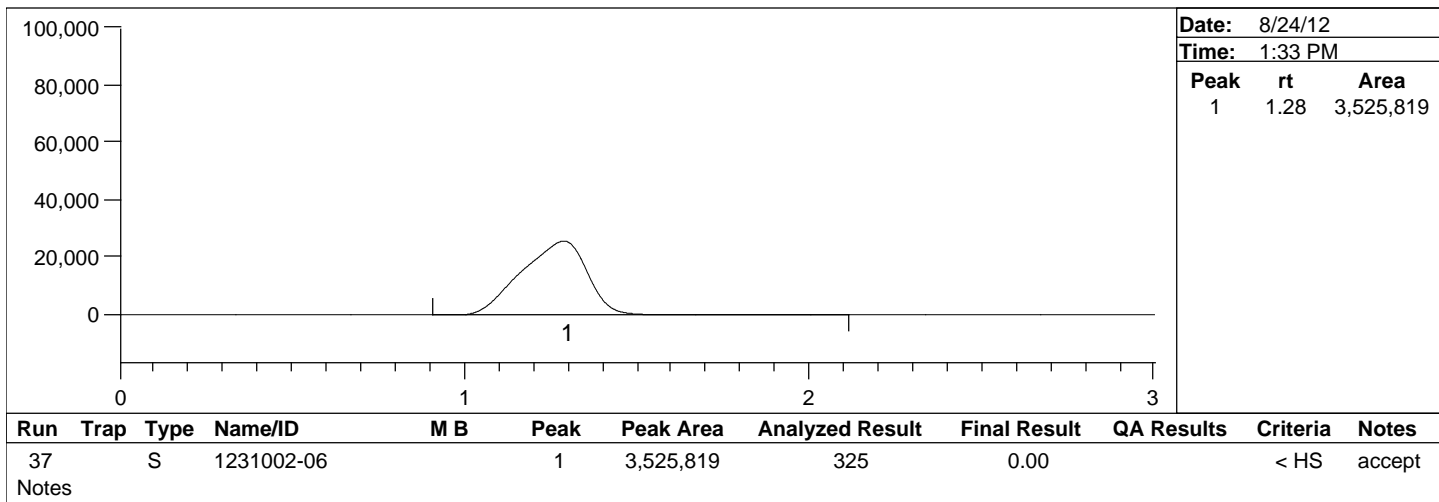


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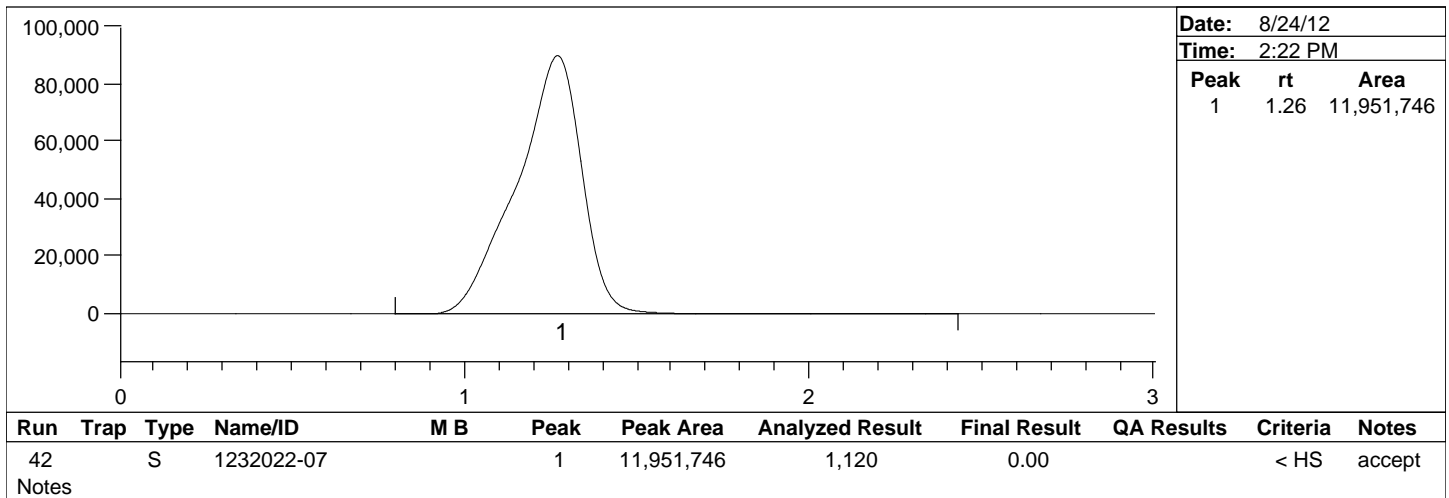
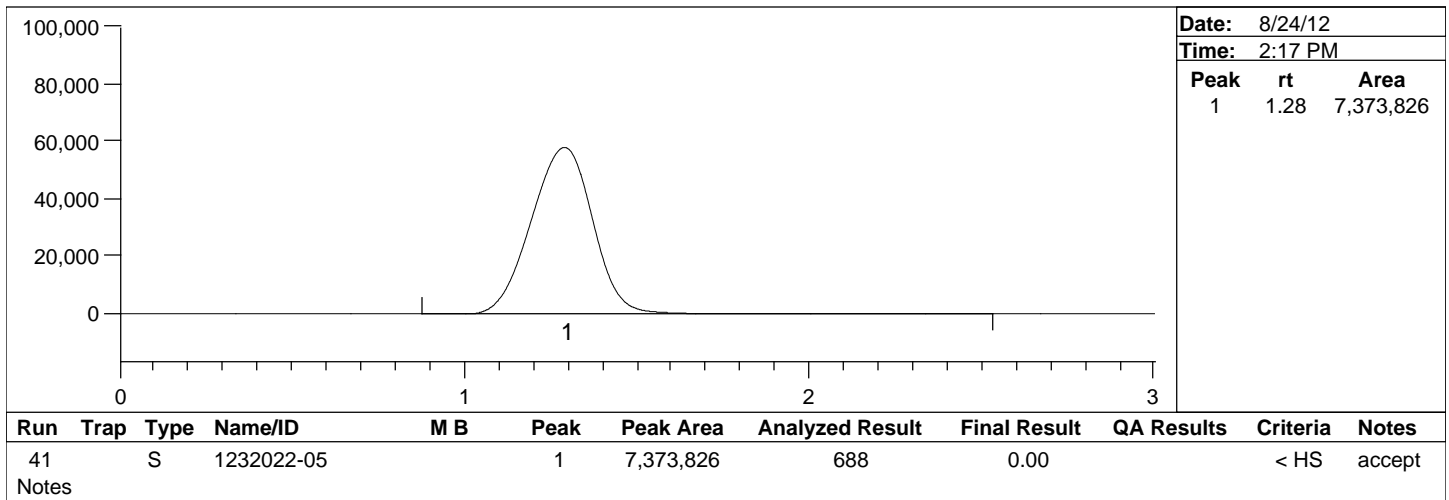
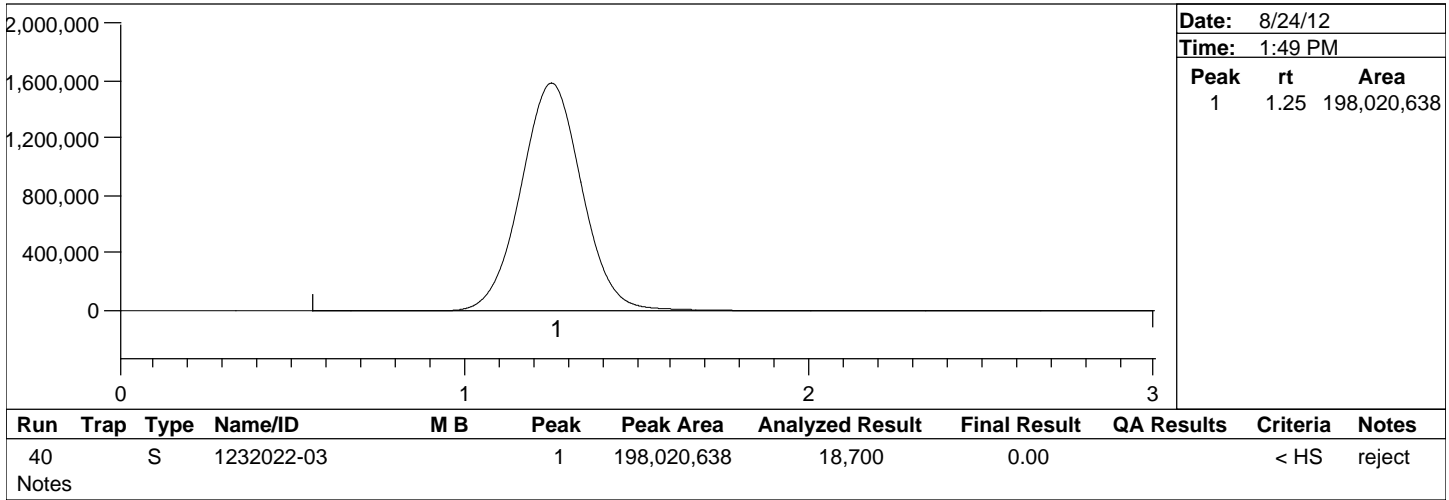


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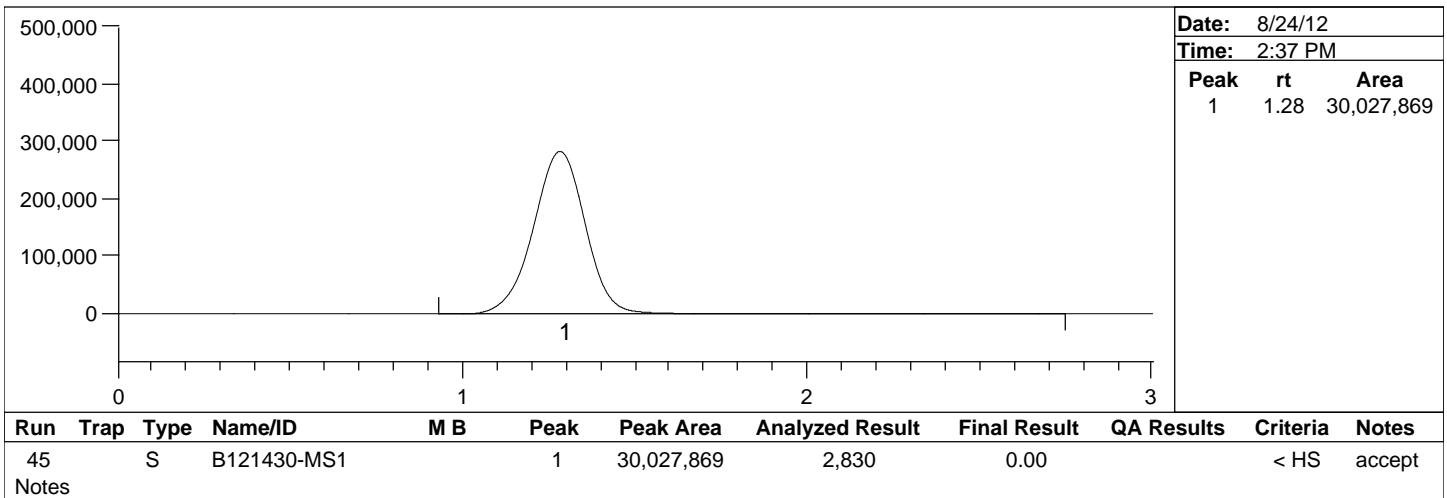
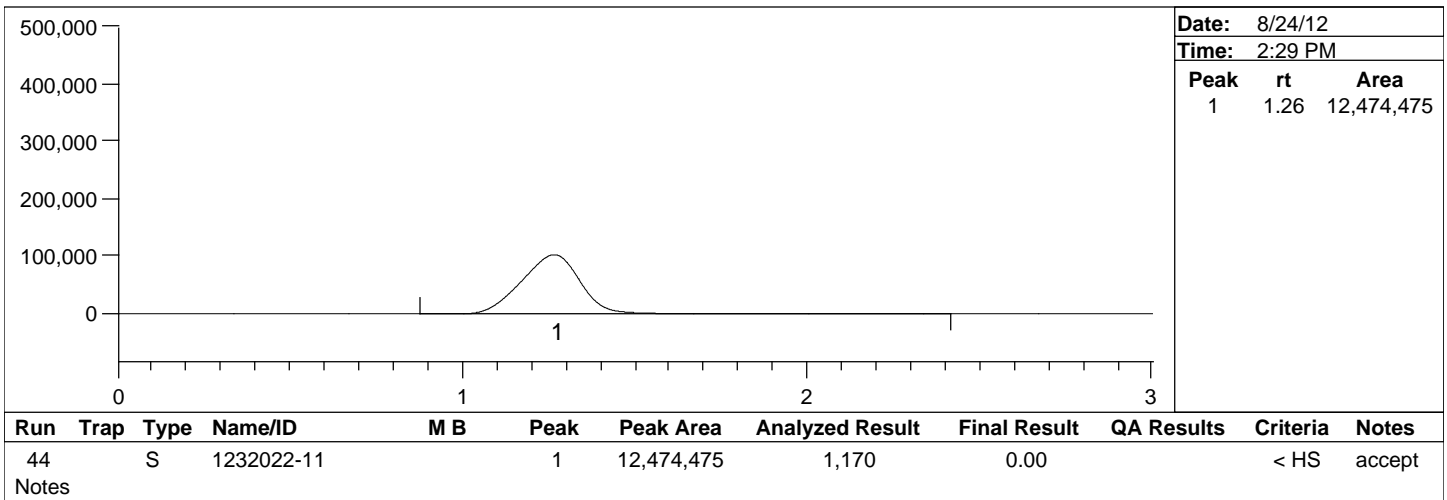
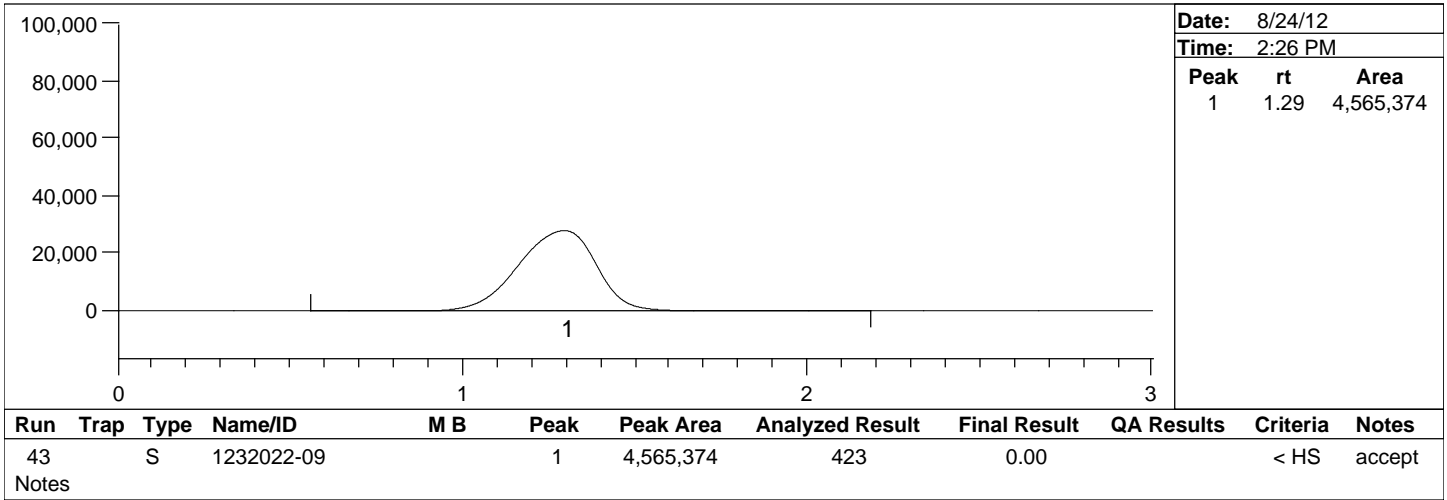


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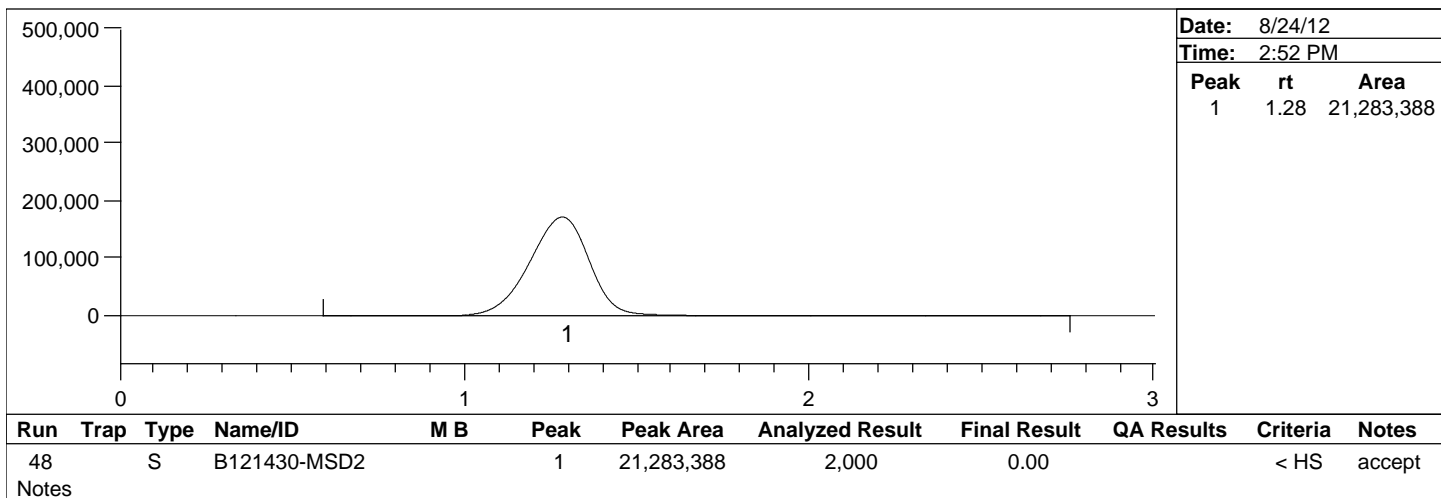
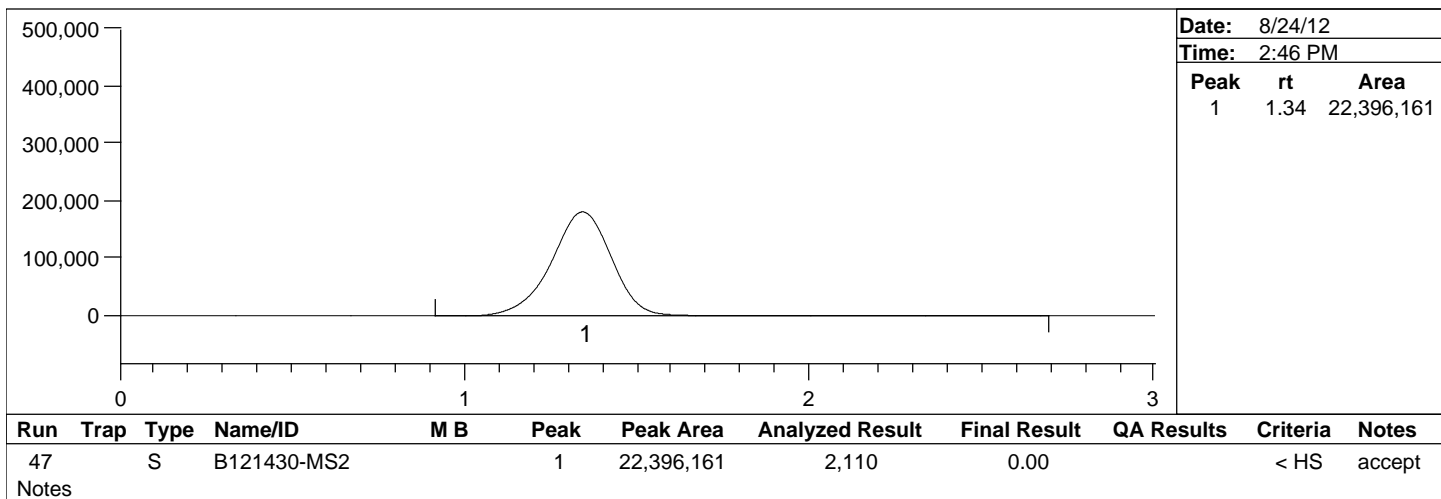
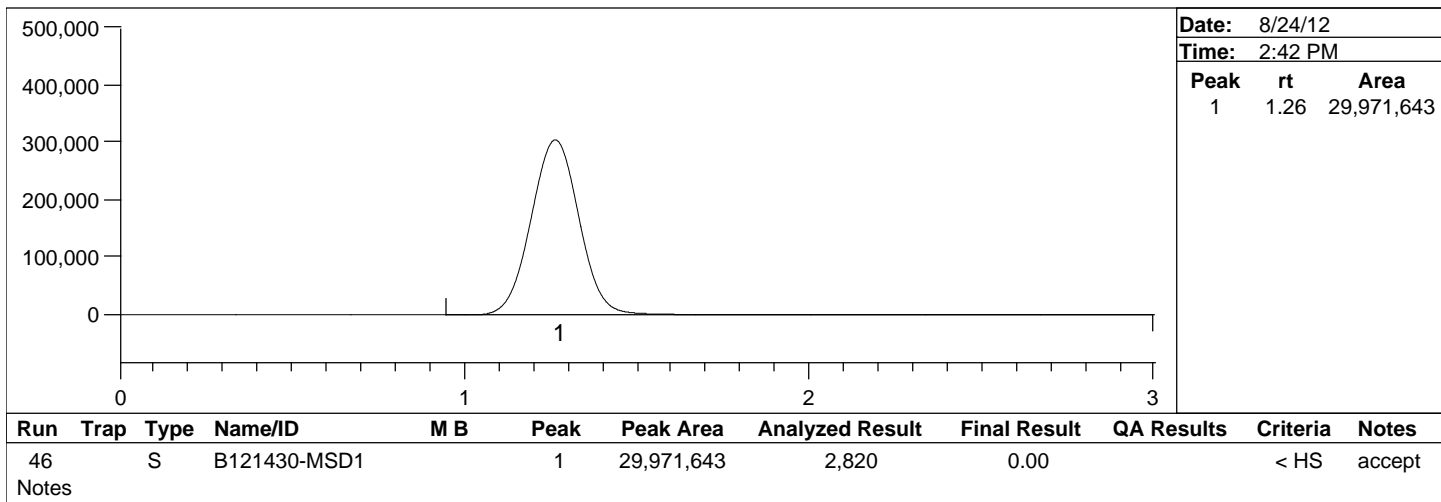


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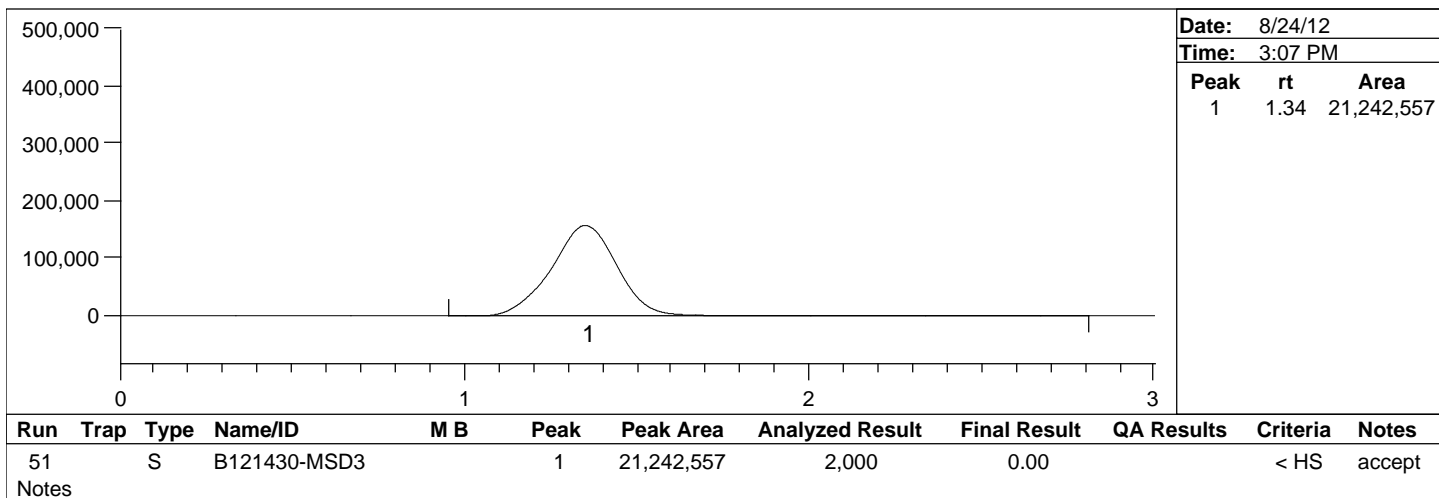
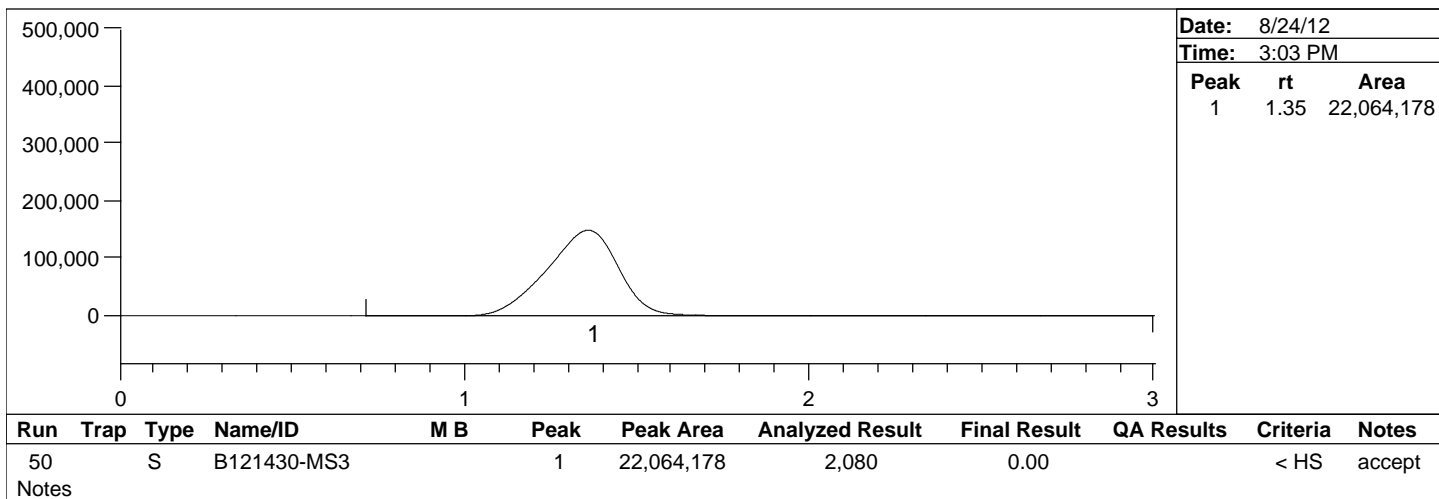
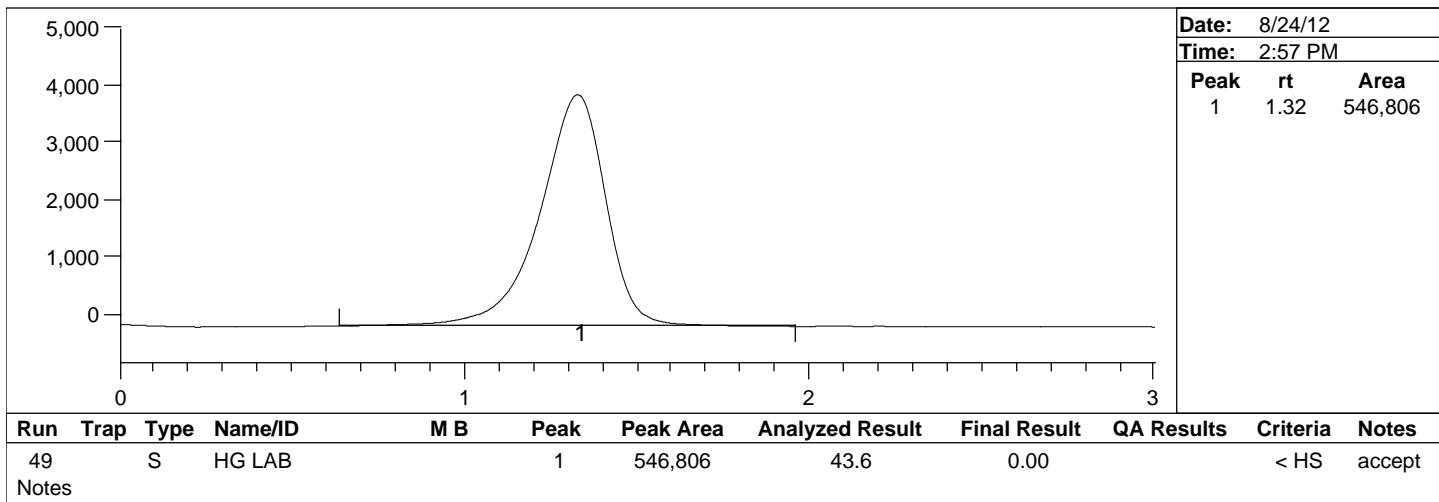


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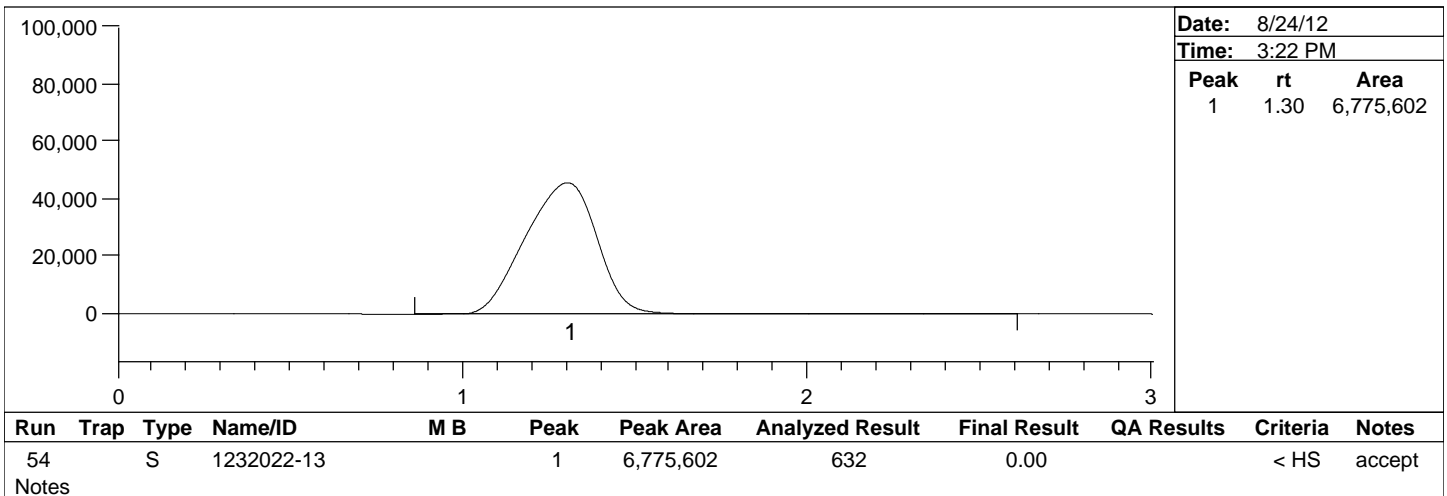
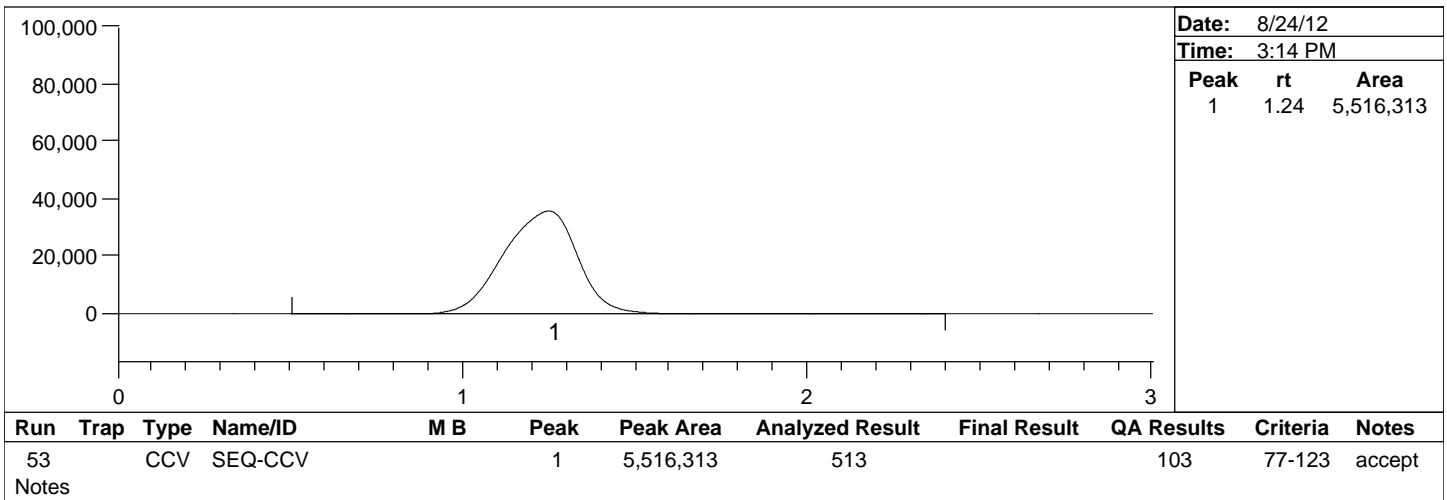
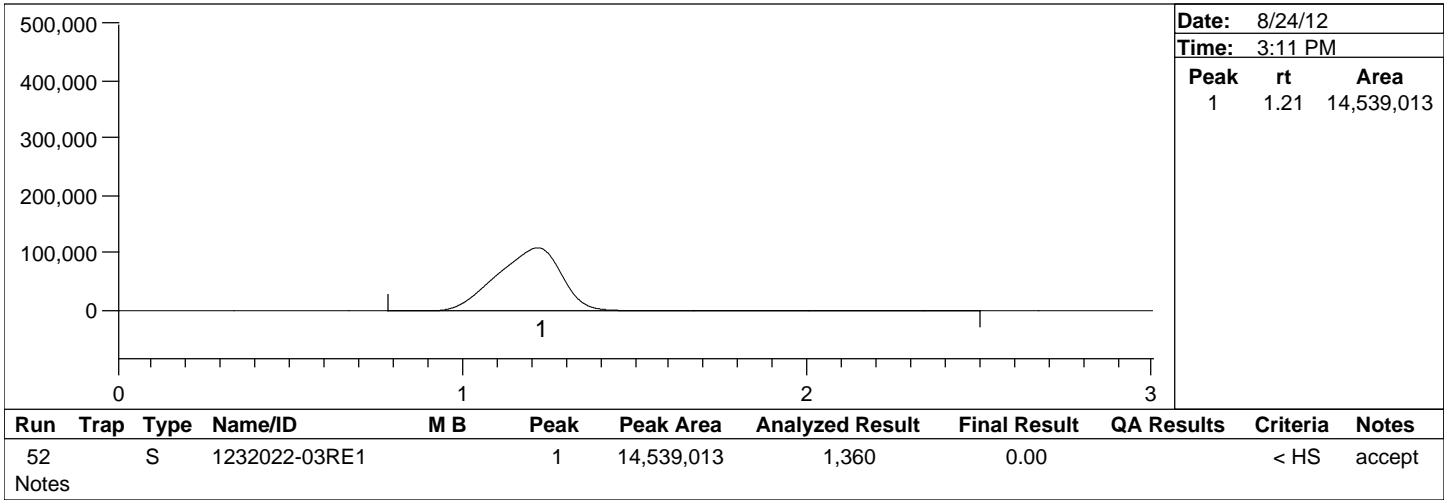


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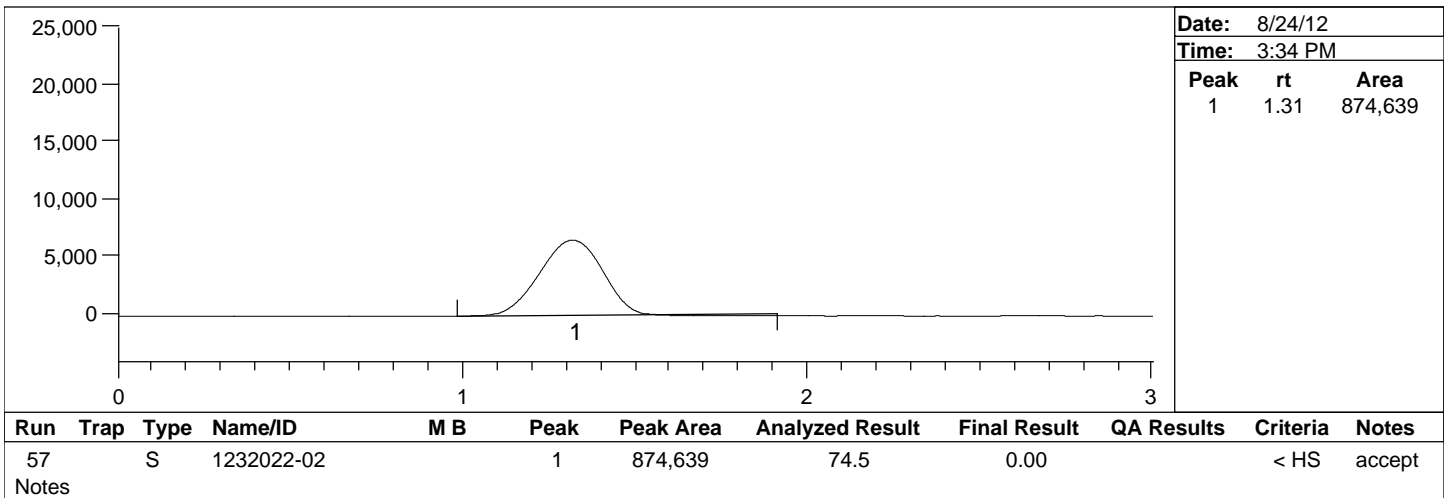
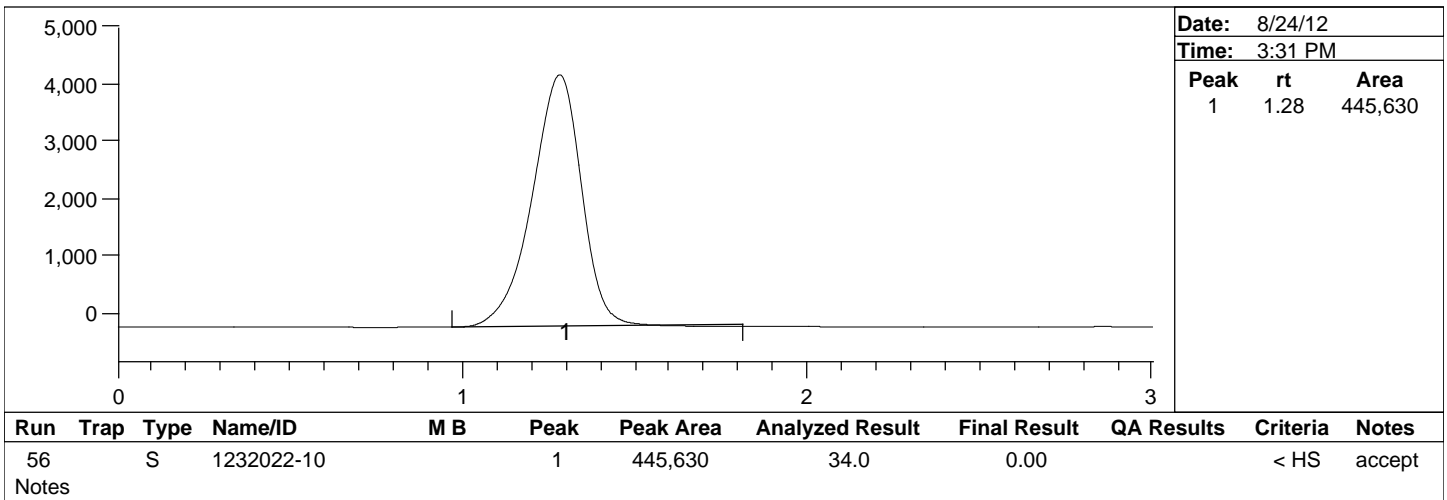
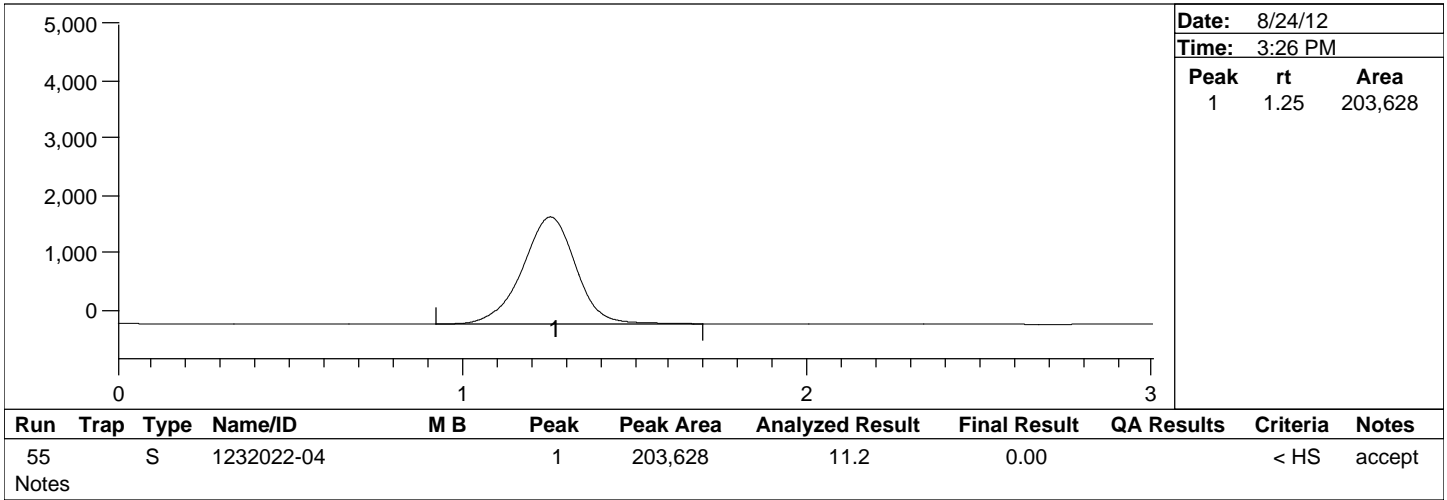


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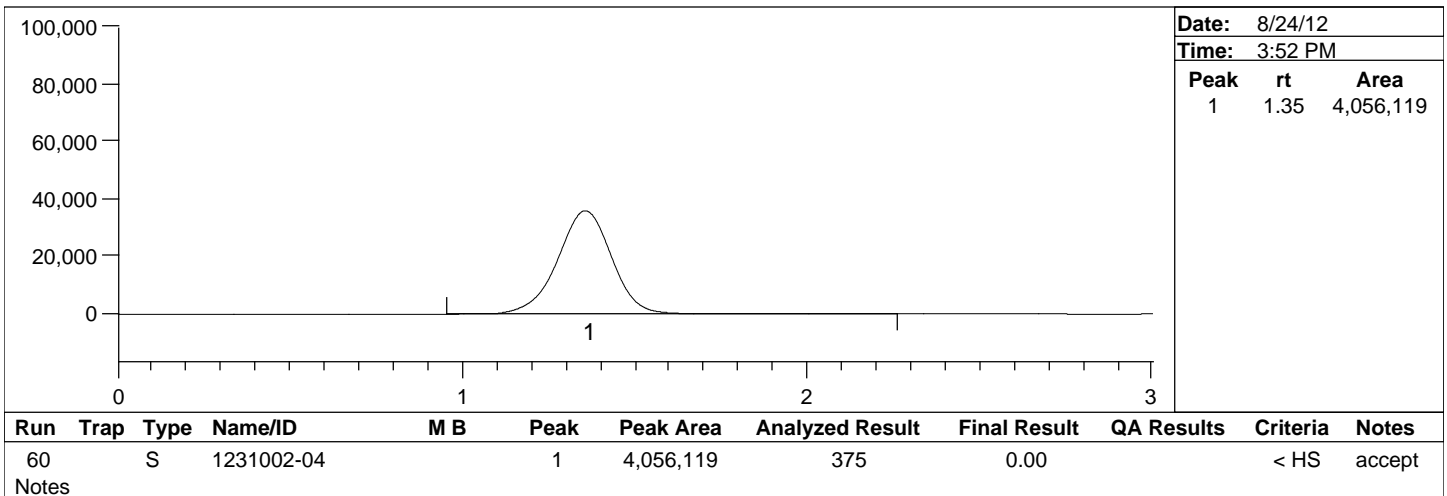
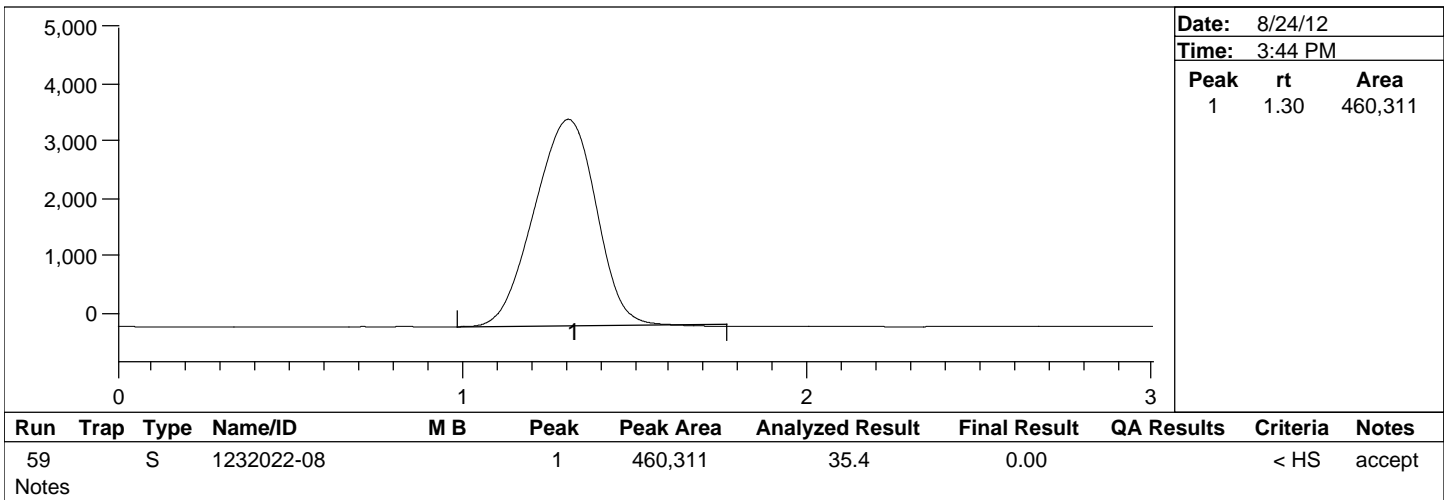
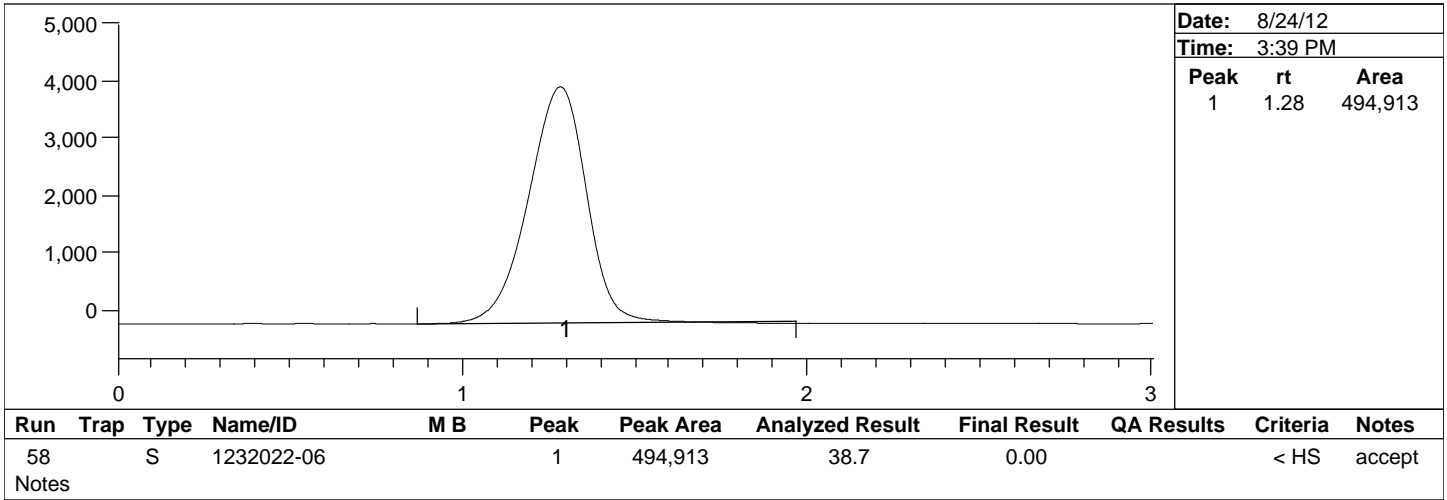


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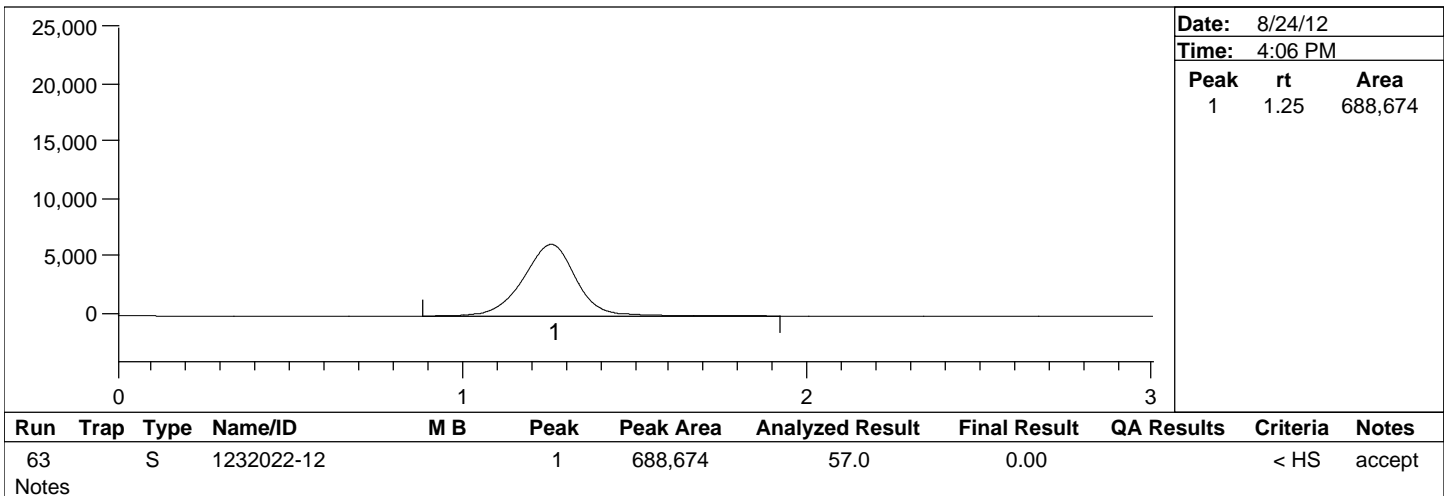
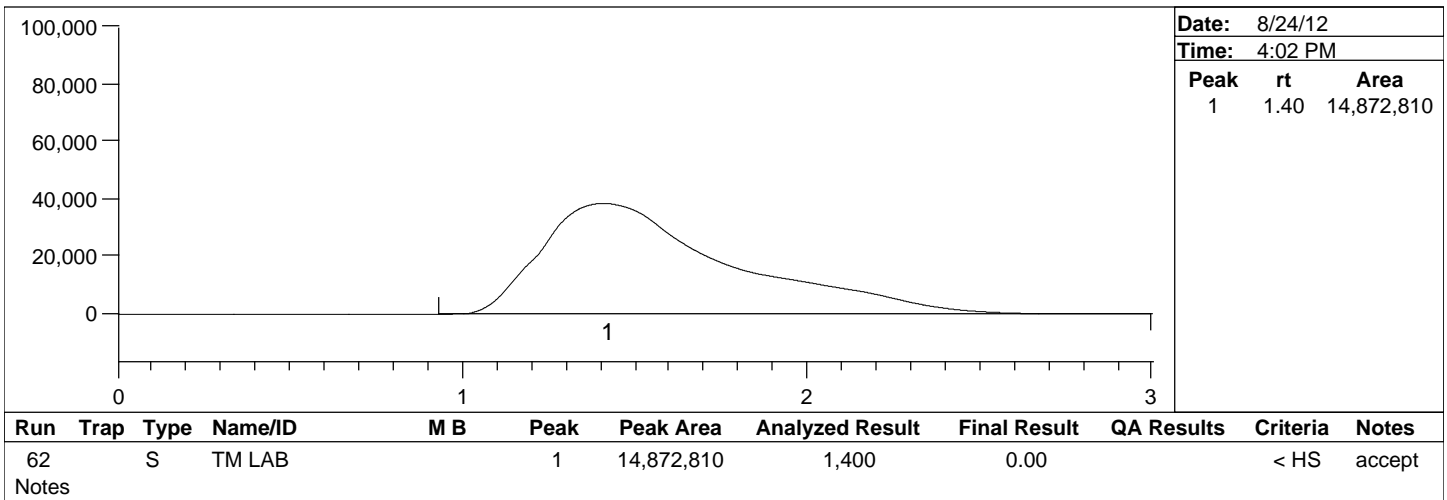
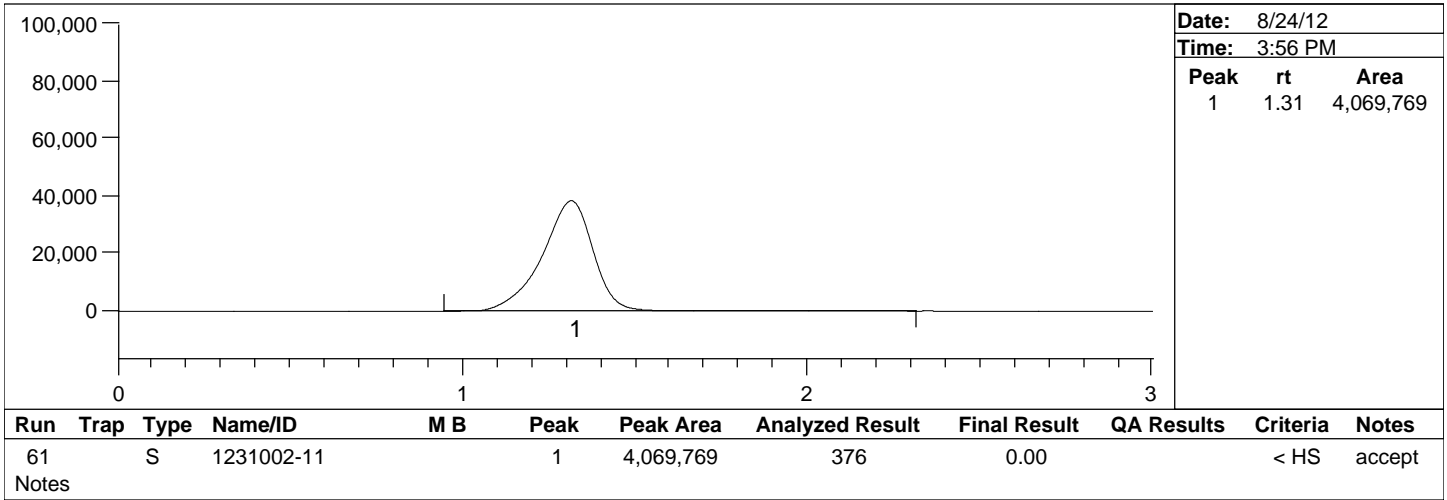


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Date Analyzed: 8/24/12  
 Analyst Name: MLH



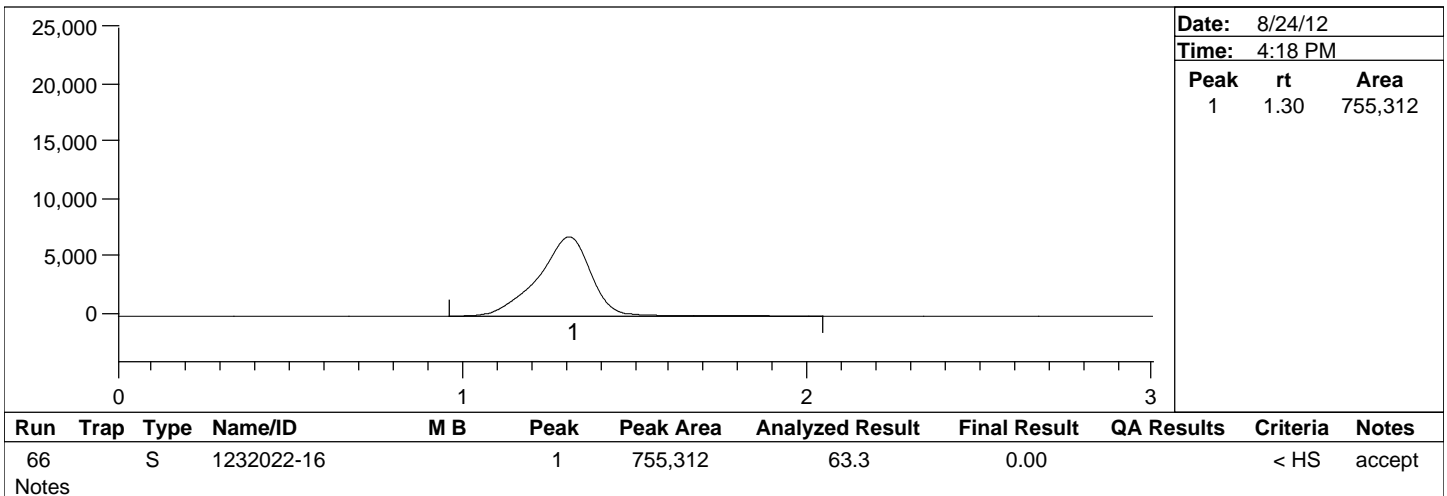
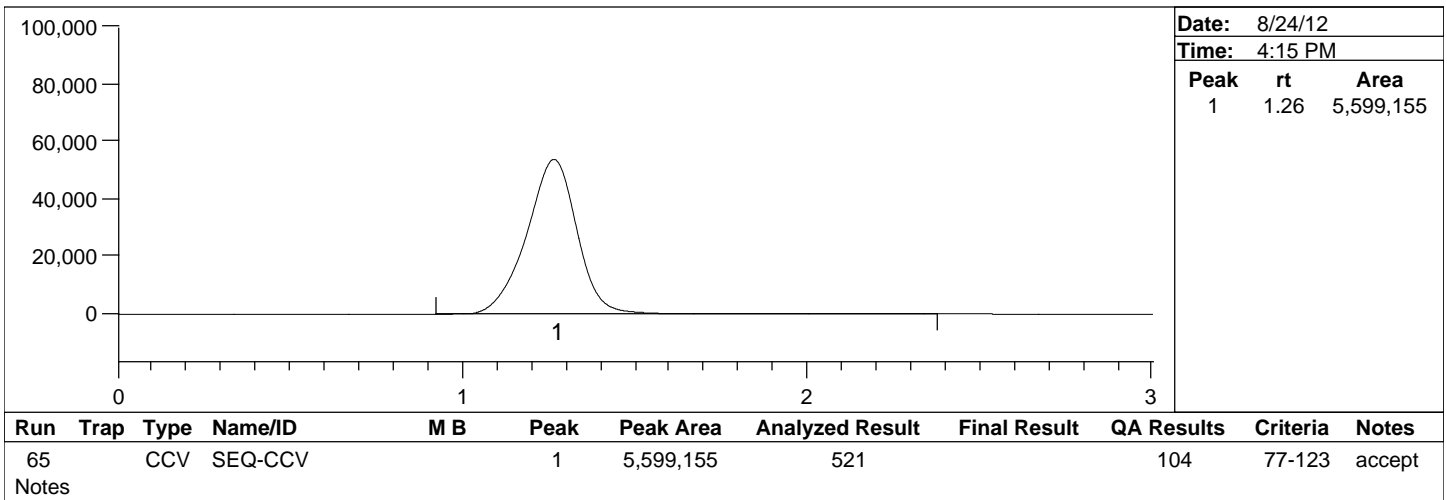
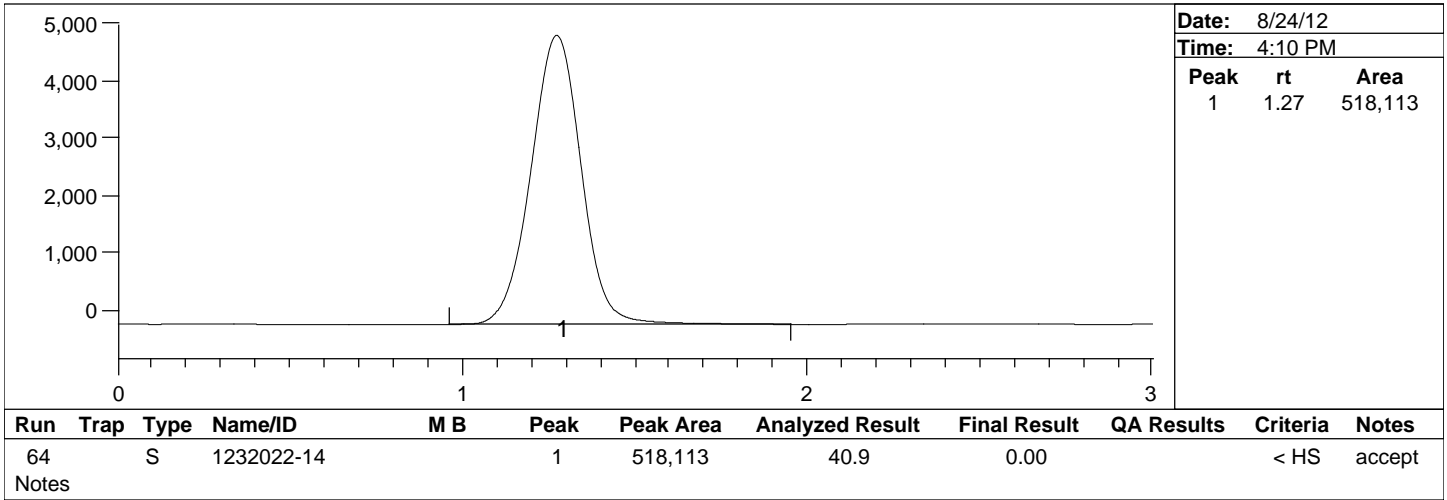


# Peak Report

Batch Number: B121430  
 Method Number: CVAFS BR-0006

Project Number(s): 1200662  
 Instrument ID: THG-05

Date Analyzed: 8/24/12  
 Analyst Name: MLH

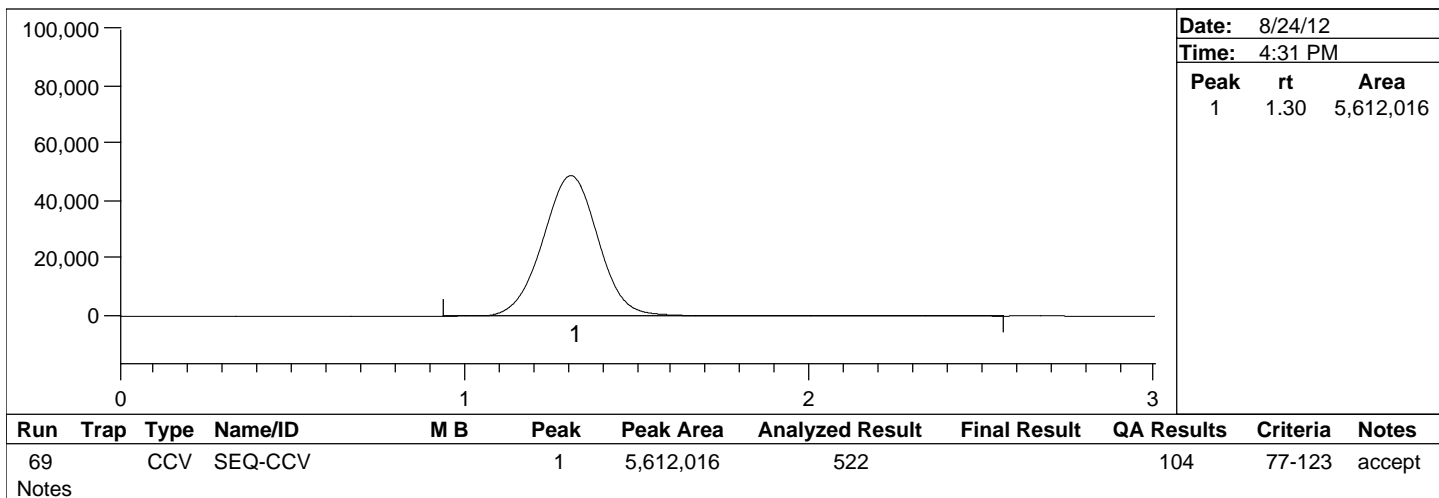
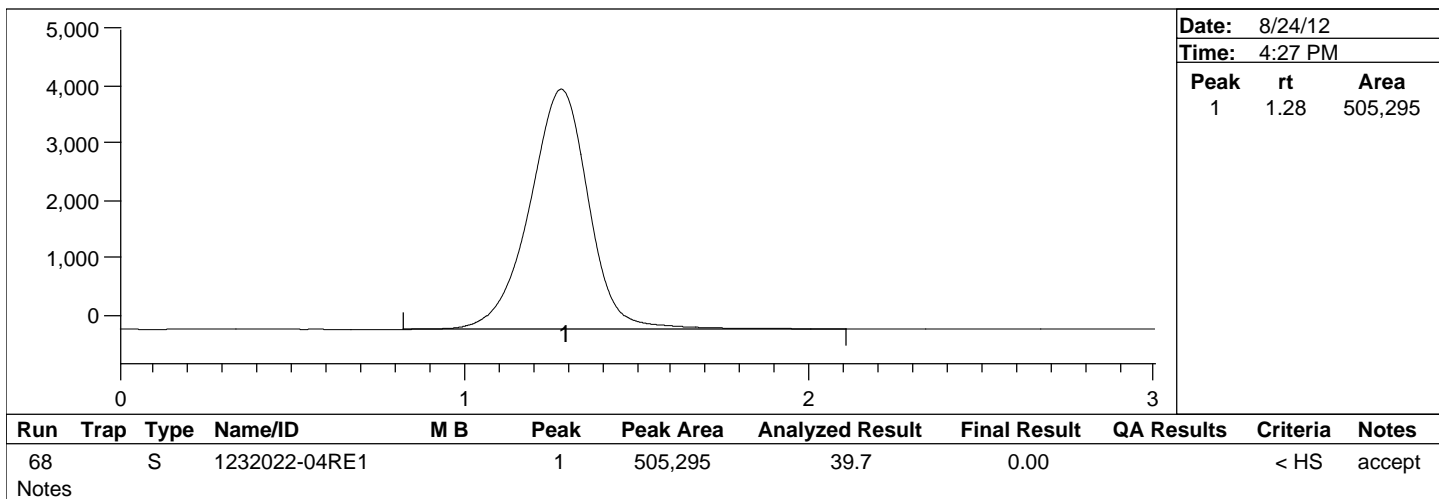
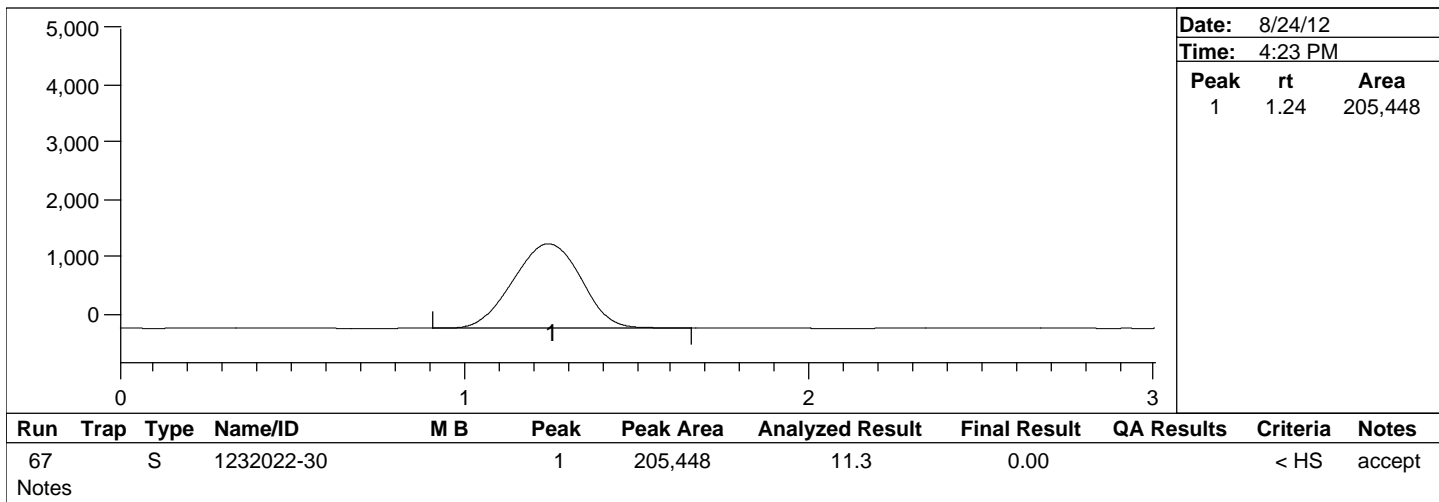


# Peak Report

Batch Number: B121430  
 Method Number: CVAFS BR-0006

Project Number(s): 1200662  
 Instrument ID: THG-05

Date Analyzed: 8/24/12  
 Analyst Name: MLH

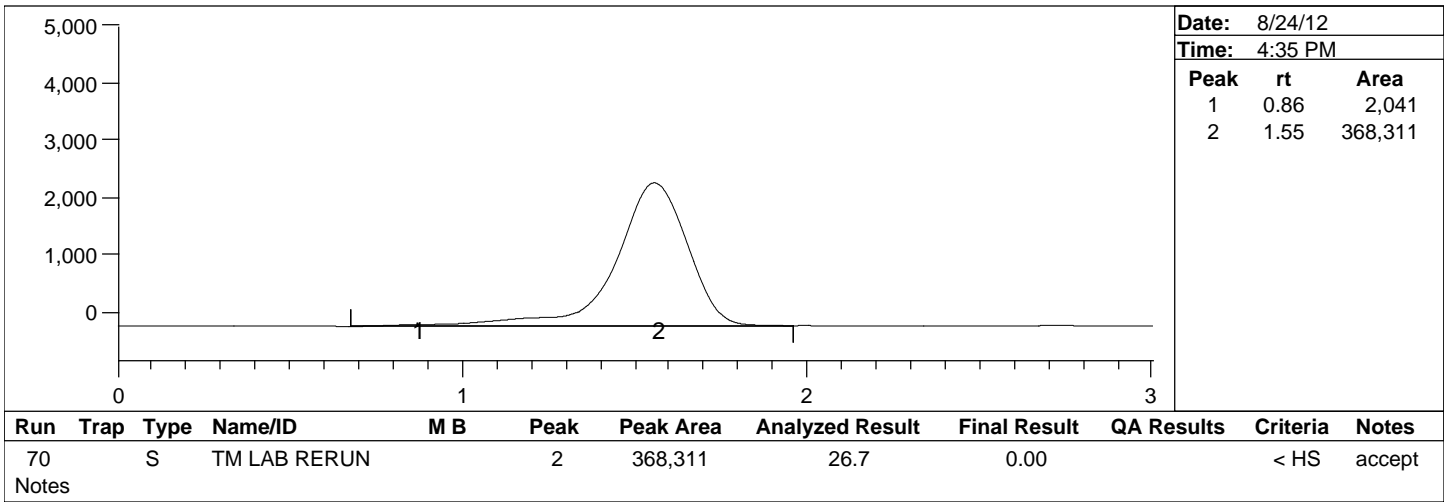


# Peak Report

**Batch Number: B121430**  
**Method Number: CVAFS BR-0006**

**Project Number(s): 1200662**  
**Instrument ID: THG-05**

**Date Analyzed: 8/24/12**  
**Analyst Name: MLH**



## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200672-IBL1	1200672	QC	1		-			
1200672-IBL2	1200672	QC	2		-			
1200672-IBL3	1200672	QC	3		-			
1200672-CAL1	1200672	QC	4	1234005	-			
1200672-CAL2	1200672	QC	5	1234006	-			
1200672-CAL3	1200672	QC	6	1234007	-			
1200672-CAL4	1200672	QC	7	1234008	-			
1200672-CAL5	1200672	QC	8	1234009	-			
1200672-CAL6	1200672	QC	9	1234010	-			
1200672-CAL7	1200672	QC	10	1234011	-			
1200672-CCB1	1200672	QC	11		-			
1200672-ICV1	1200672	QC	12	1232002	-			
1200672-CCB2	1200672	QC	13		-			
1200672-CCV1	1200672	QC	14	1234012	-			
1200672-CCB3	1200672	QC	15		-			
1200672-CCB4	1200672	QC	16		-			
1200672-CCB5	1200672	QC	17		-			
B121520-BLK1	B121520	QC	18		-			
B121520-BLK2	B121520	QC	19		-			
B121520-BLK3	B121520	QC	20		-			
B121520-BLK4	B121520	QC	21		-			
B121520-BS1	B121520	QC	22		-			
B121520-BS2	B121520	QC	23		-			
1231002-04RE1	B121520	MeHg-W-Dist-TR	24			UDE-SL1201	9/13/2012	From B121440 by ATC on 08/22/12
1231002-05RE1	B121520	MeHg-W-Dist-TR	25			UDE-SL1201	9/13/2012	From B121440 by ATC on 08/22/12
1231002-05RE1	B121520	MeHg-W-Dist-Diss	26			UDE-SL1201	1/1/1980	BatchQC

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1231002-05RE1	B121520	MeHg-W-Dist-NoMB-TR	27			UDE-SL1201	1/1/1980	BatchQC
B121520-MS1	B121520	QC	28		1231002-05RE1			
1231002-06RE1	B121520	MeHg-W-Dist-TR	29			UDE-SL1201	9/13/2012	From B121440 by ATC on 08/22/12
1231002-06RE1	B121520	MeHg-W-Dist-Diss	30			UDE-SL1201	1/1/1980	BatchQC
1231002-06RE1	B121520	MeHg-W-Dist-NoMB-TR	31			UDE-SL1201	1/1/1980	BatchQC
1200672-CCV2	1200672	QC	32	1234012	-			
1200672-CCB6	1200672	QC	33		-			
B121520-MS2	B121520	QC	34		1231002-06RE1			
1231002-11RE1	B121520	MeHg-W-Dist-TR	35			UDE-SL1201	9/13/2012	From B121440 by ATC on 08/22/12
1232011-01RE1	B121520	MeHg-W-Dist-TR	36			ORS-CN1201	8/29/2012	From B121440 by ATC on 08/22/12
1232011-02RE1	B121520	MeHg-W-Dist-Diss	37			ORS-CN1201	8/29/2012	From B121440 by ATC on 08/22/12
1232011-03RE1	B121520	MeHg-W-Dist-TR	38			ORS-CN1201	8/29/2012	From B121440 by ATC on 08/22/12
1232011-04RE1	B121520	MeHg-W-Dist-Diss	39			ORS-CN1201	8/29/2012	From B121440 by ATC on 08/22/12
1232022-01RE1	B121520	MeHg-W-Dist-NoMB-TR	40			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-03RE1	B121520	MeHg-W-Dist-NoMB-TR	41			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-05RE1	B121520	MeHg-W-Dist-NoMB-TR	42			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-07RE1	B121520	MeHg-W-Dist-TR	43			AAL-MN1101	1/1/1980	Added 8/30/2012 by AAP
1232022-07RE1	B121520	MeHg-W-Dist-Diss	44			AAL-MN1101	1/1/1980	Added 8/31/2012 by ATC
1232022-07RE1	B121520	MeHg-W-Dist-NoMB-TR	45			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1200672-CCV3	1200672	QC	46	1234012	-			
1200672-CCB7	1200672	QC	47		-			
B121520-MS3	B121520	QC	48		1232022-07RE1			
B121520-MSD3	B121520	QC	49		1232022-07RE1			
1232022-09RE1	B121520	MeHg-W-Dist-NoMB-TR	50			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-11RE1	B121520	MeHg-W-Dist-NoMB-TR	51			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-13RE1	B121520	MeHg-W-Dist-NoMB-TR	52			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232022-15RE1	B121440	MeHg-W-Dist-TR	53			AAL-MN1101	1/1/1980	Added 8/30/2012 by AAP
1232022-15RE1	B121440	MeHg-W-Dist-Diss	54			AAL-MN1101	1/1/1980	Added 8/31/2012 by ATC
1232022-15RE1	B121520	MeHg-W-Dist-NoMB-TR	55			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-29RE1	B121520	MeHg-W-Dist-NoMB-TR	56			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-31RE1	B121520	MeHg-W-Dist-NoMB-TR	57			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-33RE1	B121520	MeHg-W-Dist-NoMB-TR	58			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-35RE1	B121520	MeHg-W-Dist-NoMB-TR	59			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1200672-CCV4	1200672	QC	60	1234012	-			
1200672-CCB8	1200672	QC	61		-			
1232022-37RE1	B121440	MeHg-W-Dist-TR	62			AAL-MN1101	1/1/1980	Added 8/30/2012 by AAP
1232022-37RE1	B121440	MeHg-W-Dist-Diss	63			AAL-MN1101	1/1/1980	Added 8/31/2012 by ATC
1232022-37RE1	B121520	MeHg-W-Dist-NoMB-TR	64			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-39RE1	B121520	MeHg-W-Dist-NoMB-TR	65			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
1232022-41RE1	B121520	MeHg-W-Dist-TR	66			AAL-MN1101	1/1/1980	Added 8/30/2012 by AAP
1232022-41RE1	B121520	MeHg-W-Dist-Diss	67			AAL-MN1101	1/1/1980	Added 8/31/2012 by ATC
1232022-41RE1	B121520	MeHg-W-Dist-NoMB-TR	68			AAL-MN1101	9/4/2012	From B121440 by ATC on 08/22/12
B121520-MS4	B121520	QC	69		1232022-41RE1			
B121520-MSD4	B121520	QC	70		1232022-41RE1			
1232026-01RE1	B121520	MeHg-W-Dist-TR	71			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
1232026-02RE1	B121520	MeHg-W-Dist-Diss	72			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
1232026-03RE1	B121520	MeHg-W-Dist-TR	73			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
1232026-04RE1	B121520	MeHg-W-Dist-TR	74			ORS-CN1201	1/1/1980	Added 8/30/2012 by AAP
1232026-04RE1	B121520	MeHg-W-Dist-Diss	75			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
1232026-04RE1	B121520	MeHg-W-Dist-NoMB-TR	76			ORS-CN1201	1/1/1980	Added 8/31/2012 by ATC
B121520-MS5	B121520	QC	77		1232026-04RE1			
1200672-CCV5	1200672	QC	78	1234012	-			

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200672-CCB9	1200672	QC	79		-			
B121520-MSD5	B121520	QC	80		1232026-04RE1			
1232026-05RE1	B121520	MeHg-W-Dist-TR	81			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
1232026-06RE1	B121520	MeHg-W-Dist-Diss	82			ORS-CN1201	8/31/2012	From B121440 by ATC on 08/22/12
B121488-BLK1	B121488	QC	83		-			
B121488-BLK2	B121488	QC	84		-			
B121488-BLK3	B121488	QC	85		-			
B121488-BLK4	B121488	QC	86		-			
B121498-BS1	B121498	QC	87		-			
B121498-BS2	B121498	QC	88		-			
B121498-BS3	B121498	QC	89		-			
1200672-CCV6	1200672	QC	90	1234012	-			
1200672-CCBA	1200672	QC	91		-			
B121498-BS4	B121498	QC	92		-			
B121498-BS5	B121498	QC	93		-			
B121488-SRM1	B121488	QC	94		-			
B121488-SRM2	B121488	QC	95		-			
1232027-05	B121488	MeHg-S-MeCl	96			IAG-HW1001	8/31/2012	Regulated Soils
1233013-01	B121488	MeHg-S-MeCl	97			TTE-OA1201	9/7/2012	
B121488-DUP1	B121488	QC	98		1233013-01			
B121488-MS1	B121488	QC	99		1233013-01			
B121488-MSD1	B121488	QC	100		1233013-01			
1233013-02	B121488	MeHg-S-MeCl	101			TTE-OA1201	9/7/2012	
1200672-CCV7	1200672	QC	102	1234012	-			
1200672-CCBB	1200672	QC	103		-			
1233013-03	B121488	MeHg-S-MeCl	104			TTE-OA1201	9/7/2012	

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1233013-04	B121488	MeHg-S-MeCl	105			TTE-OA1201	9/7/2012	
1233013-05	B121488	MeHg-S-MeCl	106			TTE-OA1201	9/7/2012	
1233013-06	B121488	MeHg-S-MeCl	107			TTE-OA1201	9/7/2012	
1233013-07	B121488	MeHg-S-MeCl	108			TTE-OA1201	9/7/2012	
B121488-DUP2	B121488	QC	109		1233013-07			
B121488-MS2	B121488	QC	110		1233013-07			
B121488-MSD2	B121488	QC	111		1233013-07			
1233013-08	B121488	MeHg-S-MeCl	112			TTE-OA1201	9/7/2012	
1233013-09	B121488	MeHg-S-MeCl	113			TTE-OA1201	9/7/2012	
1200672-CCV8	1200672	QC	114	1234012	-			
1200672-CCBC	1200672	QC	115		-			
1233013-10	B121488	MeHg-S-MeCl	116			TTE-OA1201	9/7/2012	
1233039-01	B121488	MeHg-S-MeCl	117			TTE-OA1201	9/11/2012	
1233039-02	B121488	MeHg-S-MeCl	118			TTE-OA1201	9/11/2012	
1233039-03	B121488	MeHg-S-MeCl	119			TTE-OA1201	9/11/2012	
1233039-04	B121488	MeHg-S-MeCl	120			TTE-OA1201	9/11/2012	
1235007-01	B121488	MeHg-S-MeCl	121			ACC-SJ1202	8/30/2012	
1235007-02	B121488	MeHg-S-MeCl	122			ACC-SJ1202	8/30/2012	
B121488-DUP3	B121488	QC	123		1235007-02			
B121488-MS3	B121488	QC	124		1235007-02			
B121488-MSD3	B121488	QC	125		1235007-02			
1200672-CCV9	1200672	QC	126	1234012	-			
1200672-CCBD	1200672	QC	127		-			
1235007-03	B121488	MeHg-S-MeCl	128			ACC-SJ1202	8/30/2012	
1235007-04	B121488	MeHg-S-MeCl	129			ACC-SJ1202	8/30/2012	
1235007-05	B121488	MeHg-S-MeCl	130			ACC-SJ1202	8/30/2012	



ANALYSIS SEQUENCE

Brooks Rand Labs

1200672

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200672-CCVA	1200672	QC	131	1234012	-			
1200672-CCBE	1200672	QC	132		-			
1200672-CCBF	1200672	QC	133		-			
1200672-CCBG	1200672	QC	134		-			

## MeHg-Autoanalyzer Analysis Sheet

Page 1 of 6

Sequence: 1200672Batch: B121520, 1498Analyst: AMPInstrument ID # MMHg-09Standards: 1 ng/mL: 12330740.01 ng/mL: 1234004Date: 8-29-12Buffer: 1232053NaBEt<sub>4</sub>: 1233072ICV: 1232001

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments
1	EB-1	---		NaBEt <sub>4</sub> ID and time out: 06,903
2	EB-2	---		
3	EB-3	---		
4	IBL1	---		
5	IBL2	---		M
6	IBL3	---		
7	0.5 pg	0.050		0.01 ng/mL
8	1 pg	0.100		0.01 ng/mL
9	2 pg	0.200		0.01 ng/mL
10	10 pg	1.00		0.01 ng/mL
11	50 pg	0.050		1.0 ng/mL
12	250 pg	0.250		1.0 ng/mL
13	1000 pg	1.00		1.0 ng/mL
14	CCB <sub>1</sub>	---		
15	ICV <sub>1</sub>	0.100		1.0 ng/mL MeHgOH
16	CCB <sub>2</sub>	---		
17	CCV <sub>1</sub>	0.025		1.0 ng/mL
18	CCB <sub>3</sub>	---		
19	CCB <sub>4</sub>	---		
20	CCB <sub>5</sub>	---		
21	B121520-BLK1	30.01		
22	-BLK2	30.43		
23	-BLK3	30.00		
24	-BLK4	30.19		

Comments: IBL2 - peak 2 modifiedBalance ID / Pipette ID used for sample vol (if applicable): BL-01

## MeHg-Autoanalyzer Analysis Sheet

Page 2 of 6

Sequence: 1200672Analyst: AAPDate: 8-29-30

	Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt <sub>4</sub> ID and time out
✓	25	B121520-B61	29.63		
	26	I -B52	29.74		
	27	1231002-04RE1	30.03		
✓	28	I -05RE1	30.42		2x buffer
	29	B121520-M51	29.90		I
	30	1231002-06RE1	30.02		
✓	31	CCV 2	0.025		1ng/mL
	32	CCB 6	—		
	33	<del>B121520-M52</del> B121520-M52	29.56		
	34	1231002-11RE1	30.44		2x buffer
	35	1232011-01RE1	30.87		I
	36	I -02RE1	30.18		
	37	I -03RE1	30.57		
	38	I -04RE1	30.79		
	39	1232022-01RE1	30.12		2x buffer
	40	I -03RE1	30.52		I
	41	I -05RE1	30.39		
	42	I -07RE1	30.25		
	43	CCV 3	0.025		1ng/mL
	44	CCB 6	—		m
	45	B121520-M53	30.44		
	46	I -M5D3	29.87		
	47	1232022-09RE1	29.87		
	48	I -11RE1	30.21		

Comments:

**MeHg-Autoanalyzer Analysis Sheet**

Sequence: 1200672

Analyst: AAP

Date: 8-29-12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt <sub>4</sub> ID and time out
49	1232022-13RE1	30.21		
50	-15RE1	30.36		
51	-29-RE1	30.66		
52	-31RE1	29.67		
53	-33RE1	30.14		
54	-35RE1	30.54		2x buffer
55	CCV 4	0.025		1ng/ml
56	CCB 7	—		
57	1232022-37RE1	30.35		
58	-39RE1	30.49		
59	-41RE1	29.85		
60	B121520-M54	29.59		
61	-M6D4	30.50		
62	1232026-01RE1	30.49		
63	-02RE1	29.62		
64	-03RE1	30.44		
65	-04RE1	30.35		
66	B121520-M55	30.51		
67	CCV 5	0.025		1ng/ml
68	CCB 8	—		peak modified w/ GWS cut it in half
69	B121520-M5D5	30.60		
70	1232026-05RE1	29.47		
71	-06RE1	29.77		
72	B121488-BLK1	5.00		

Comments: \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_  
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**MeHg-Autoanalyzer Analysis Sheet**

Sequence: 1200672

Analyst: AAP

Date: 8-29-12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt <sub>4</sub> ID and time out
73	B121488-BLK2	5.00		16,1345
74	-BLK3			
75	-BLK4			
76	B121488-B51			
77	B52			
78	B53			
79	CCV 6	0.025		1mg/mL
80	CCB 9	—		peak modified by GWD cut it in half
81	B121498-B54	5.00		
82	-B55			
83	B121488-SRM1			
84	-SRM2			
85	1232021-05			
86	1233013-01			
87	B121488-A51			
88	-M51			
89	-M5D1			
90	1233013-02			
91	CCV 7	0.025		1mg/mL
92	CCB A	—		
93	1233013-03	5.00		
94	-04			
95	-05			
96	-06			

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

MeHg-Autoanalyzer Analysis Sheet

Sequence: 1200672

Analyst: AAP

Date: 8.29.12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBE <sub>4</sub> ID and time out
97	1233013-07	5.00		
98	B121488-DUP 8.29.12 -M52 AAP			
99	I -M52			
100	I -MSD2			
101	1233013-08			← over calibration (> 6x high std) *
102	I -09			line carry-over? *
103	CCV 8	0.025		1ng/mL likely carry-over, but passes.
104	CCB b	—		Fails ← carry-over from high result
105	1233013-10	5.00		Possible carry-over *Fix OK
106	1233039-01			
107	I -02			Possible carry-over *Fix
108	I -03			
109	I -04			bad peak definition
110	1235007-01			? possible carryover
111	I -02			
112	B121488-DUP3			
113	I -M53			
114	I -MSD3			
115	CCV 9	0.025		1ng/mL
116	CCB c s s	—		
117	1235007-03	5.00		Trap B clear - 0 pg
118	I -04			> Peak interference from H <sub>2</sub> O peak.
119	I -05			
120	CCV A	0.025		1ng/mL

Comments: \* Require reprep/reanalysis

**MeHg-Autoanalyzer Analysis Sheet**

Sequence: 1200612

Analyst: AMP

Date: 8-29-12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBE <sub>4</sub> ID and time out
121	CCB D	—		
122	CCB E	—		
123	CCB F	—		
124	1232001-01	0.100		OLD ICV
125	-02			
126	-03			
127	1235012-01			NEW ICV
128	-02			
129	-03			
130	CCV B	0.025		1ng/mL
131	CCB G	—		
<del> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;">             8-29-12 AMP           </div> </del>				

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Brooks Rand Labs**  
 MMHg Water Prep Benchsheet  
 SOP/Rev #: BR-0011 / 0130  
 Batch: B121520

Prepped By: AAP  
 Prep Date: 8-27-12

Sample ID	Sample Mass (g)	Slot #	Time On	Time Off	pH	Sample ID	Sample Mass (g)	Slot #	Time On	Time Off	pH
1231002-04RE1	49.940	1	1139	1456	3	1232026-03RE1	50.333	26	1219	1533	3.5
* 1231002-05RE1	49.626	2		1456	2	1232026-04RE1	49.265	27		1439	3
* 1231002-06RE1	49.900	3		1450	3.5	1232026-05RE1	49.648	28			4
1231002-11RE1	50.219	4		1450	2	1232026-06RE1	49.751	29		1428	3
1232011-01RE1	49.420	5		1413	2.5	B121520-BLK1	50.962	30		1439	3.5
1232011-02RE1	49.322	6		1400	3.5	B121520-BLK2	49.914		1331	1611	
1232011-03RE1	49.720	7		1456	4	B121520-BLK3	49.794			1655	
1232011-04RE1	49.658	8		1400	3.5	B121520-BLK4	50.361			1611	
1232022-01RE1	50.308	9		1517	2	B121520-BS1	50.562			1533	3
1232022-03RE1	49.870	10				B121520-BS2	49.996			1544	
1232022-05RE1	49.996	11	1159	1439	3.5	B121520-MS1	49.273			1644	2.5
* 1232022-07RE1	50.733	12				B121520-MS2	49.859			1611	3
1232022-09RE1	50.161	13		1517	3	B121520-MS3	49.205			1544	3.5
1232022-11RE1	49.618	14			4.5	B121520-MS4	49.874			1644	4
1232022-13RE1	49.758	15		1428	3.5	B121520-MSD1					
1232022-15RE1	49.521	16		1456		B121520-MSD2					
1232022-29RE1	49.513	17		1456	4.5	B121520-MSD3	50.171			1555	3
1232022-31RE1	49.679	18		1439		B121520-MSD4	50.509	1339		1544	3.5
1232022-33RE1	50.286	19		1517		-MS5	49.414			1624	3
1232022-35RE1	49.943	20		1428	2	-MSD5	50.554			1544	
1232022-37RE1	50.921	21	1219	1439	3	8-27-12 AAP					
1232022-39RE1	50.227	22		1533	4.5						
1232022-41RE1	49.390	23		1450	3.5						
1232026-01RE1	49.912	24		1439							
1232026-02RE1	49.853	25		1428							

8-27-12  
AAP

Batch QC ID	Source	Spike vol (uL)	Spike conc (ng/mL)	Spike ID	Spike Witness	Reagent	ID
BS1/2	-	50		1233074	8/27/12 AAP	0.5 mL H2SO4	1230035
MS/B1	1231002-05	150				0.2 mL KCL/ L-cysteine	1230036
MS/B2	-06	140				HCl	
MS/D3	1232022-07	20				Hot Block Temp	138°C
MS/D4	-41	60				Final Dilution Vol	58mL
MS/D5	1232026-01	125	0.1	1234003		Balance ID	BL-07

- = preserved w/ H2SO4 ∴ H2SO4 not added as reagent

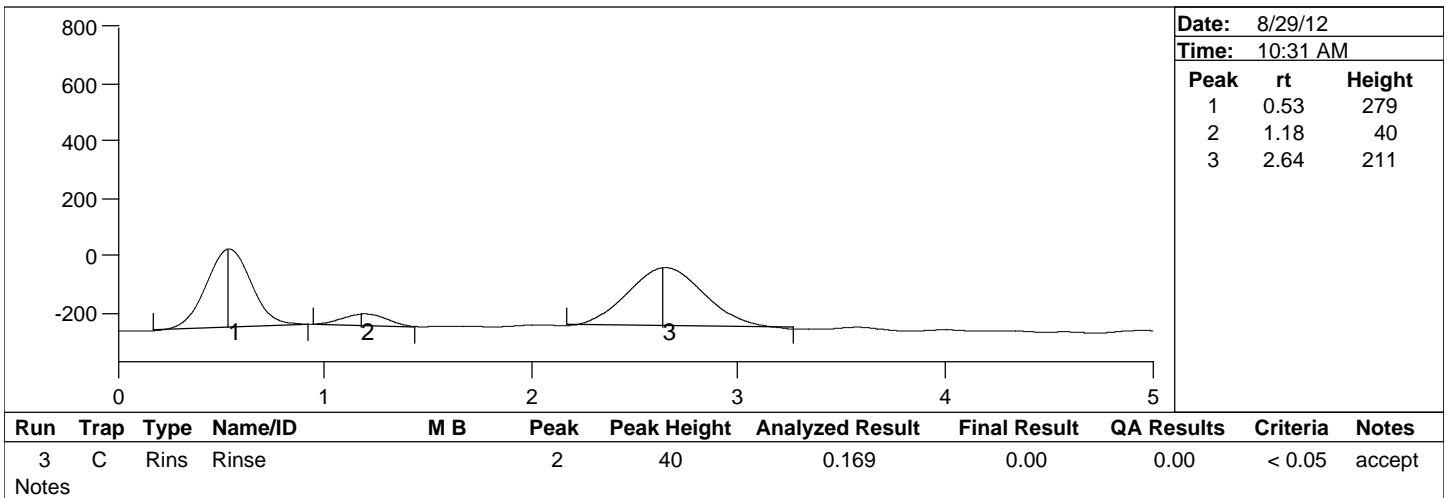
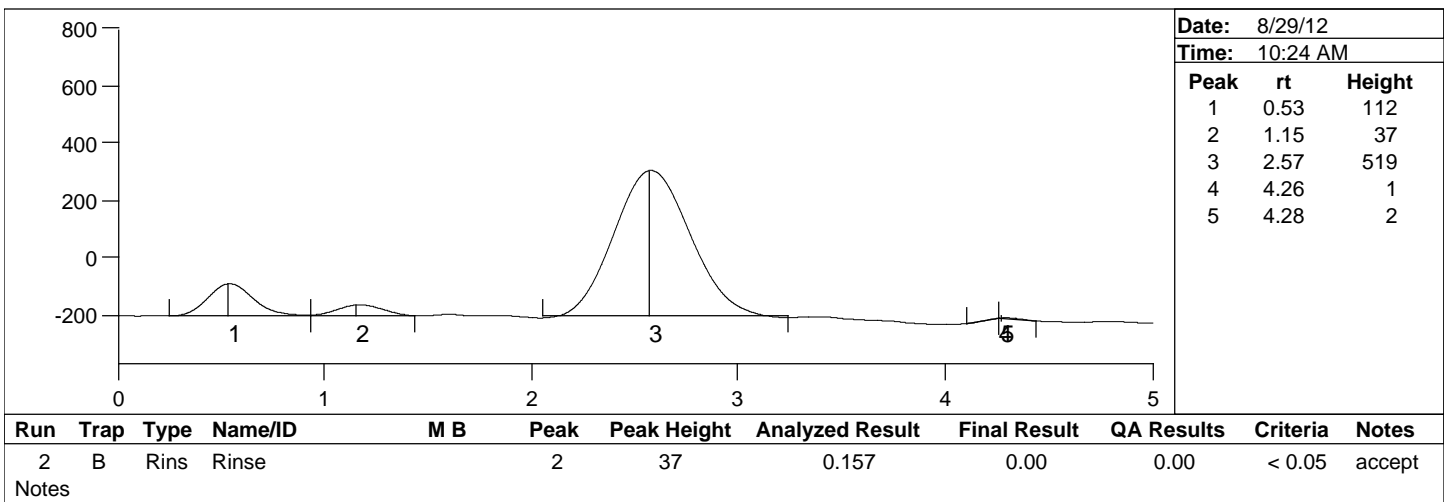
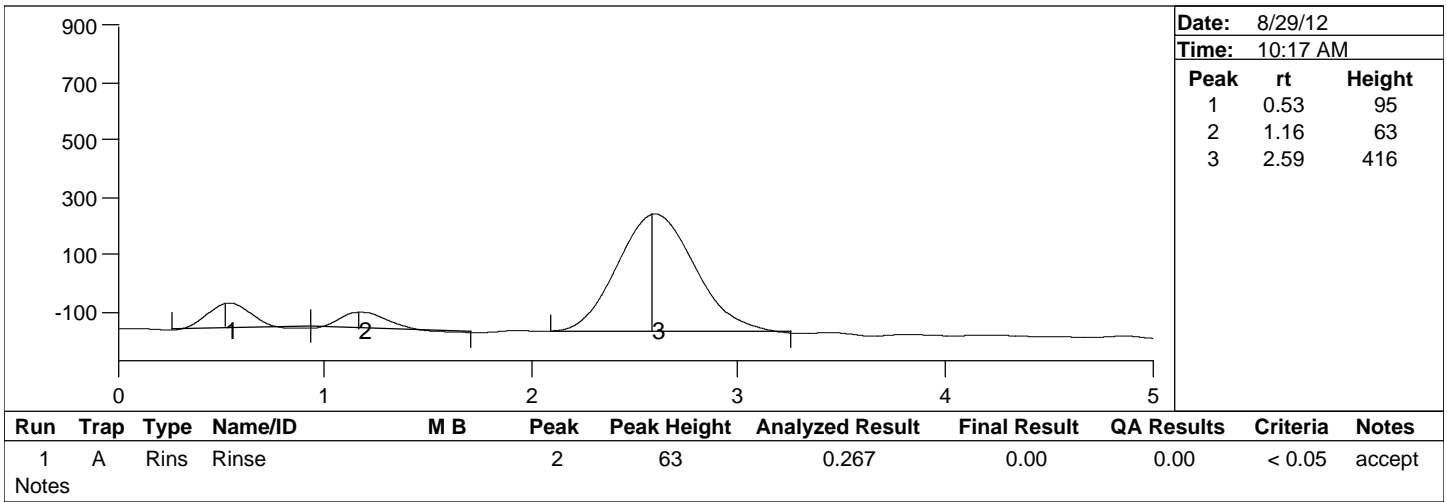


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Project Number(s): 1200672  
 Instrument ID: MMHG-09

Date Analyzed: 8/29/12  
 Analyst Name: AAP

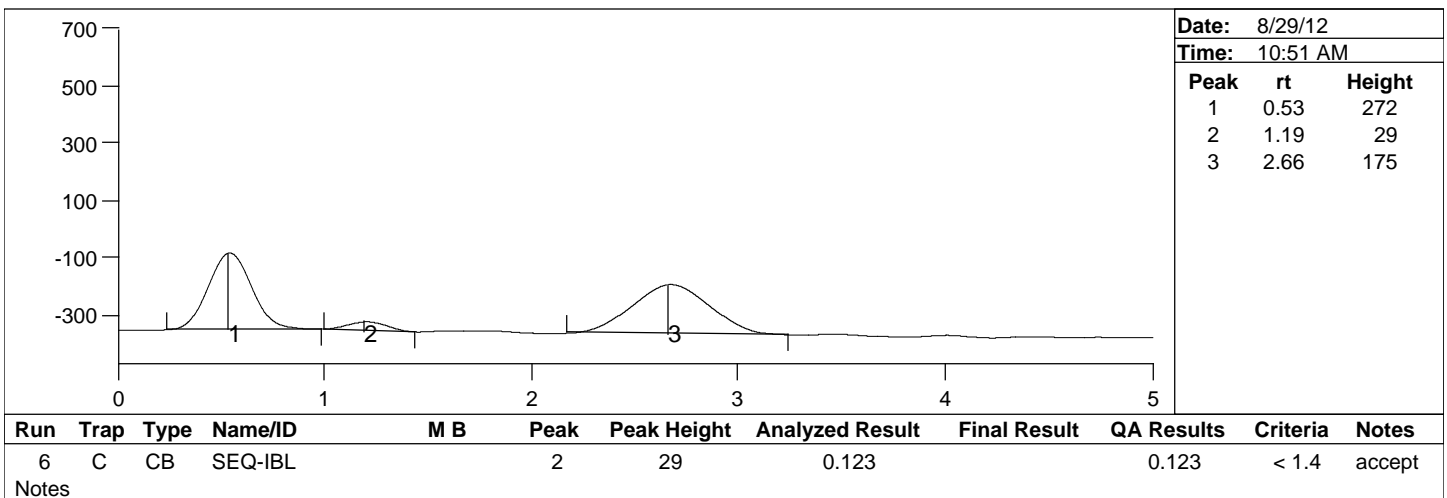
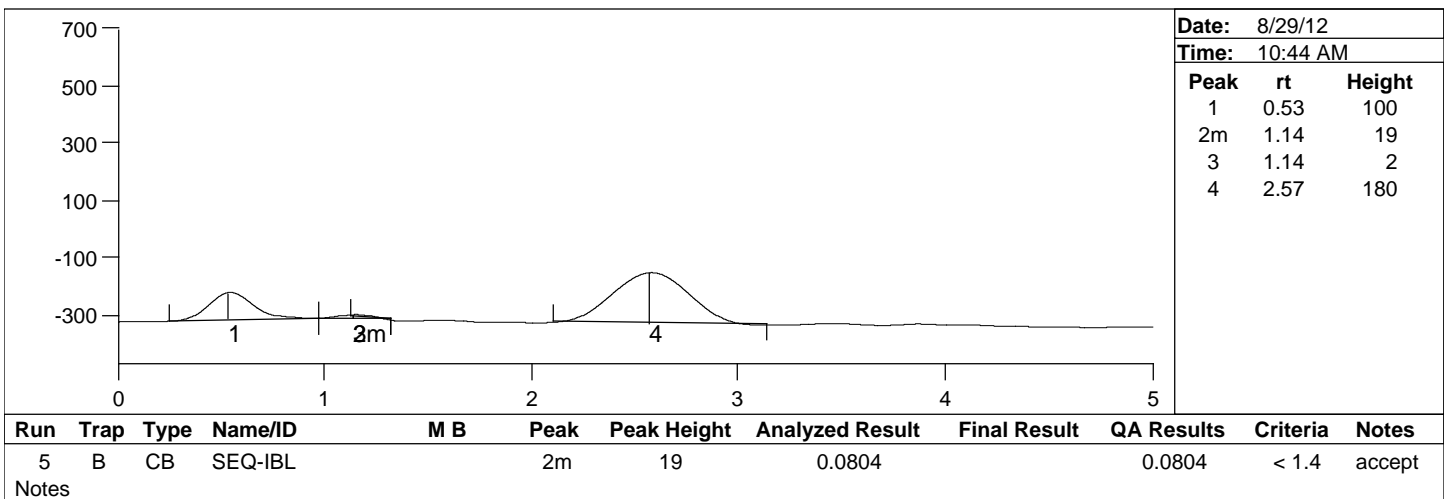
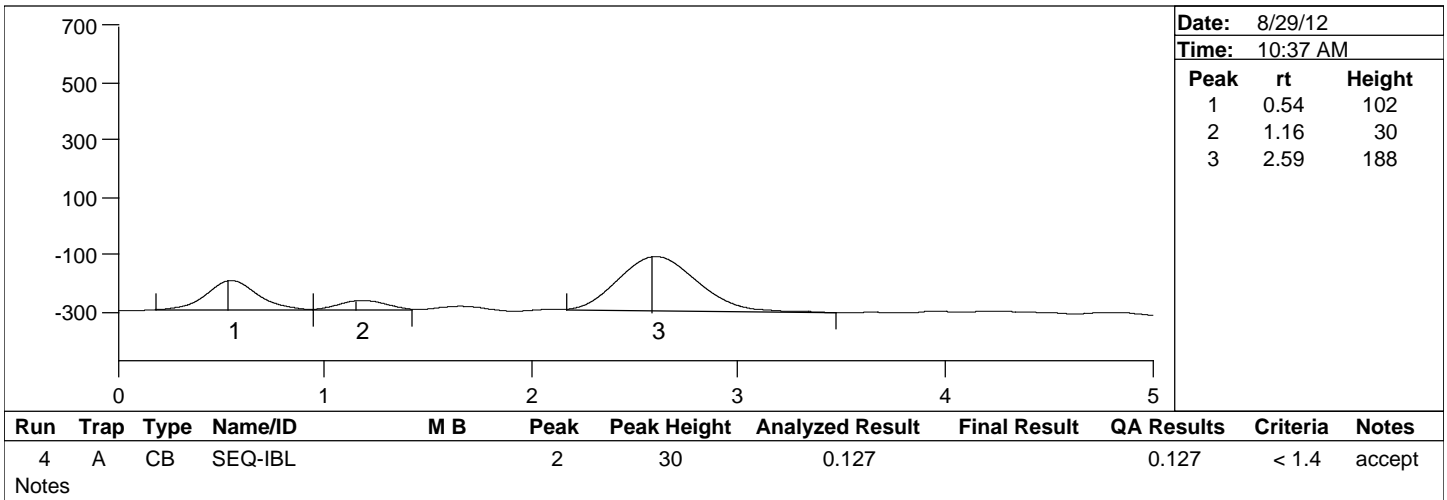


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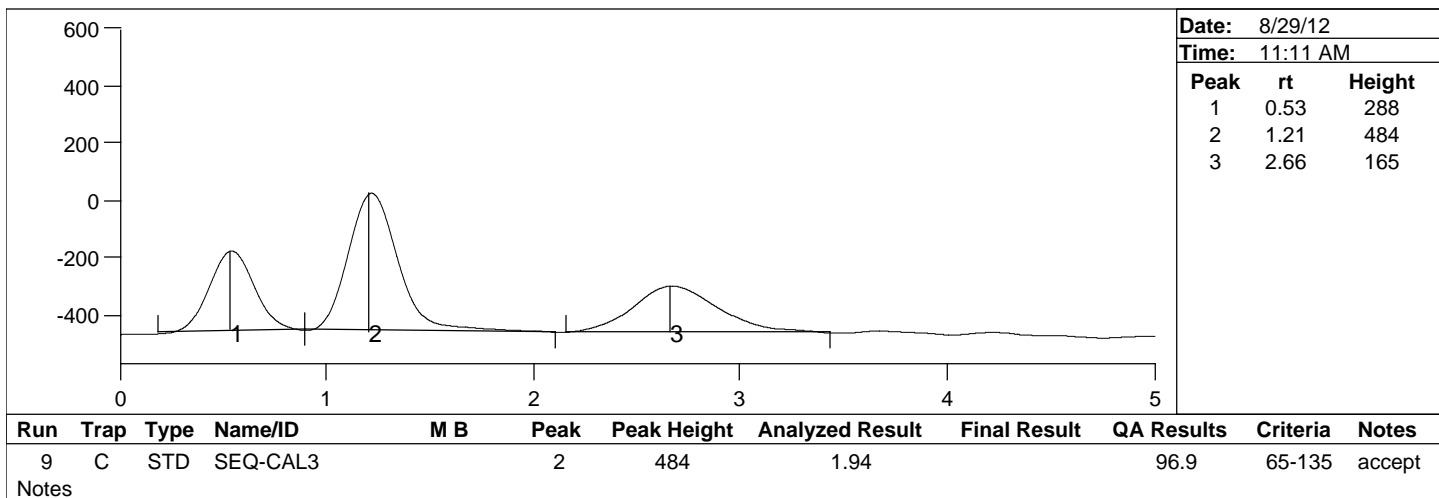
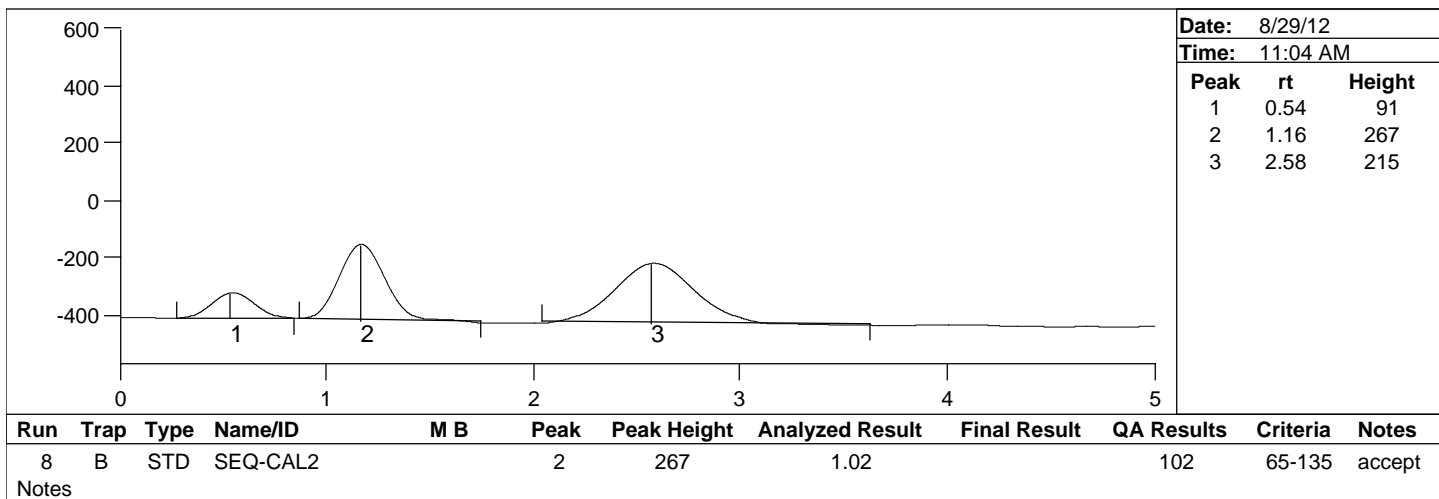
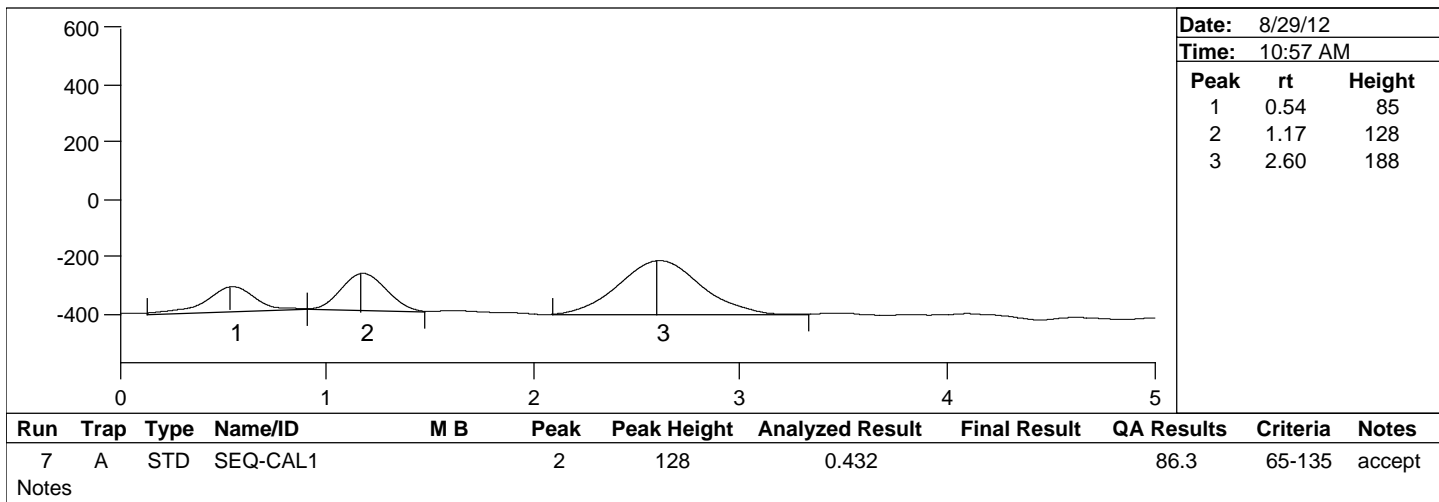


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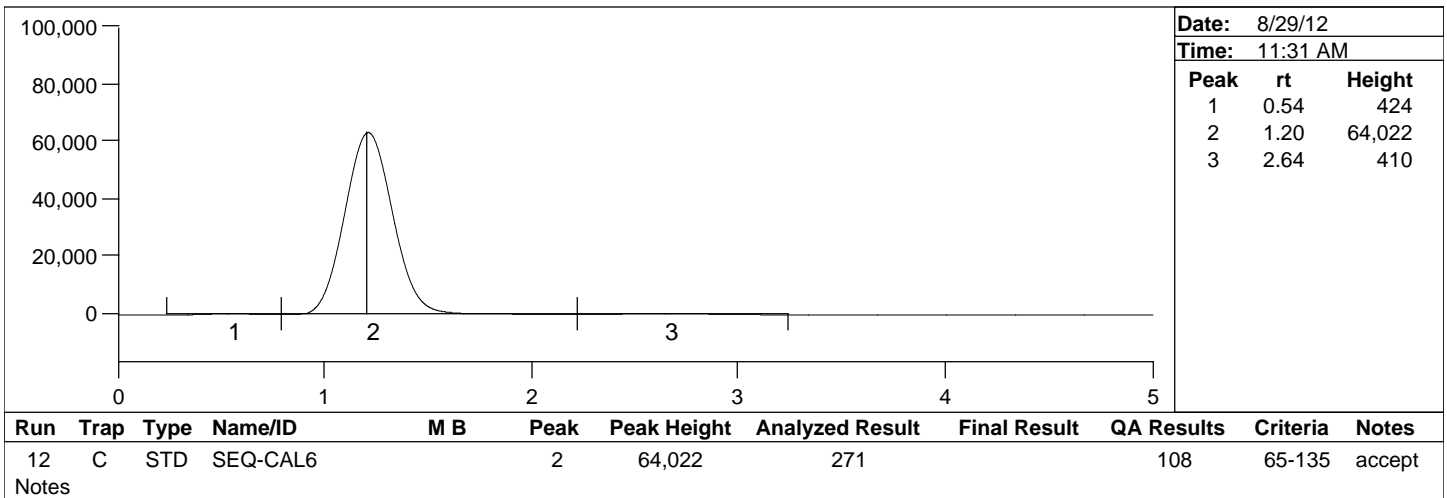
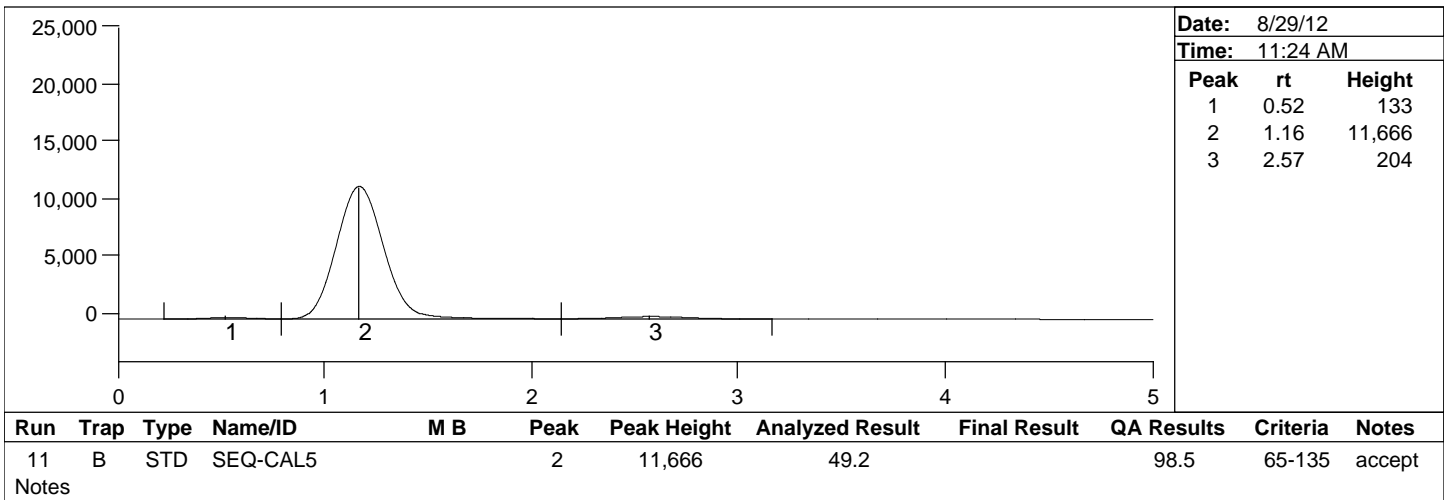
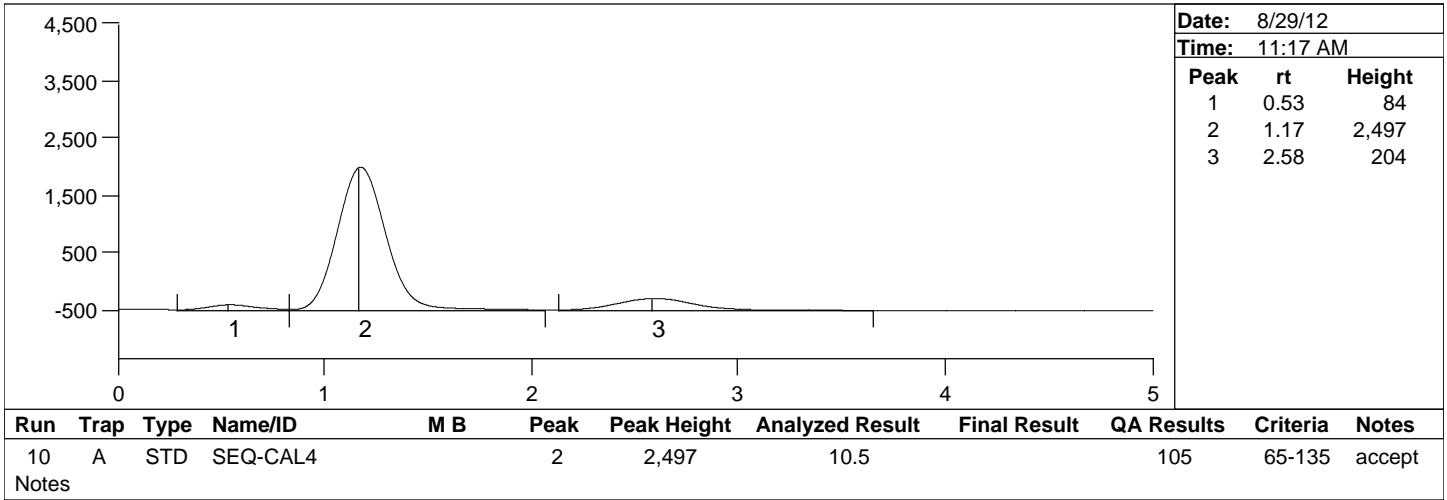


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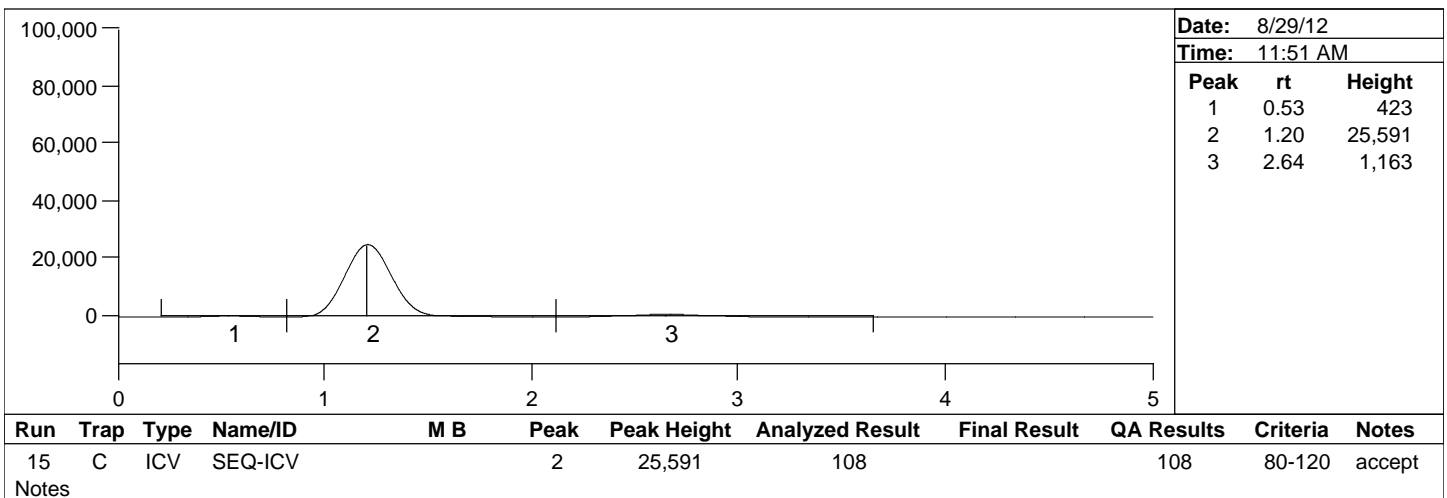
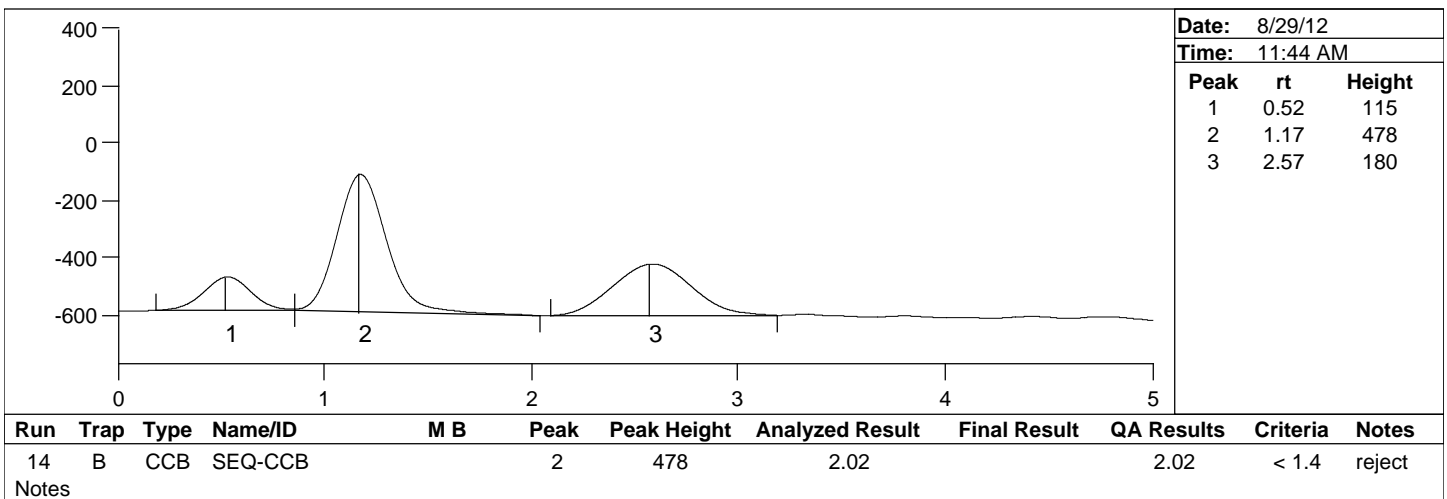
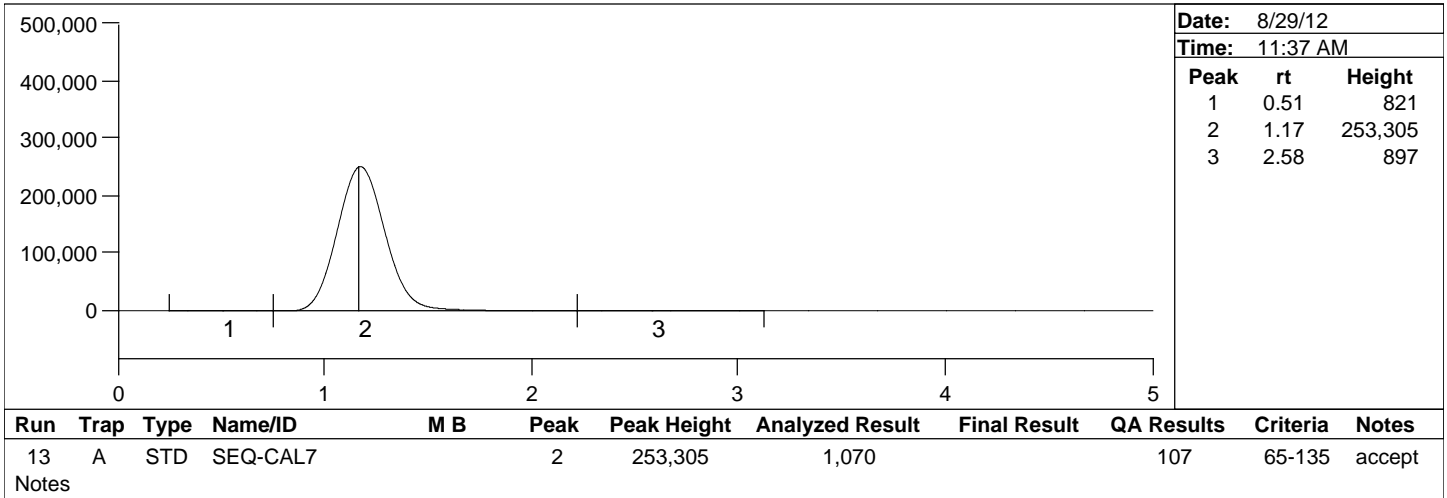


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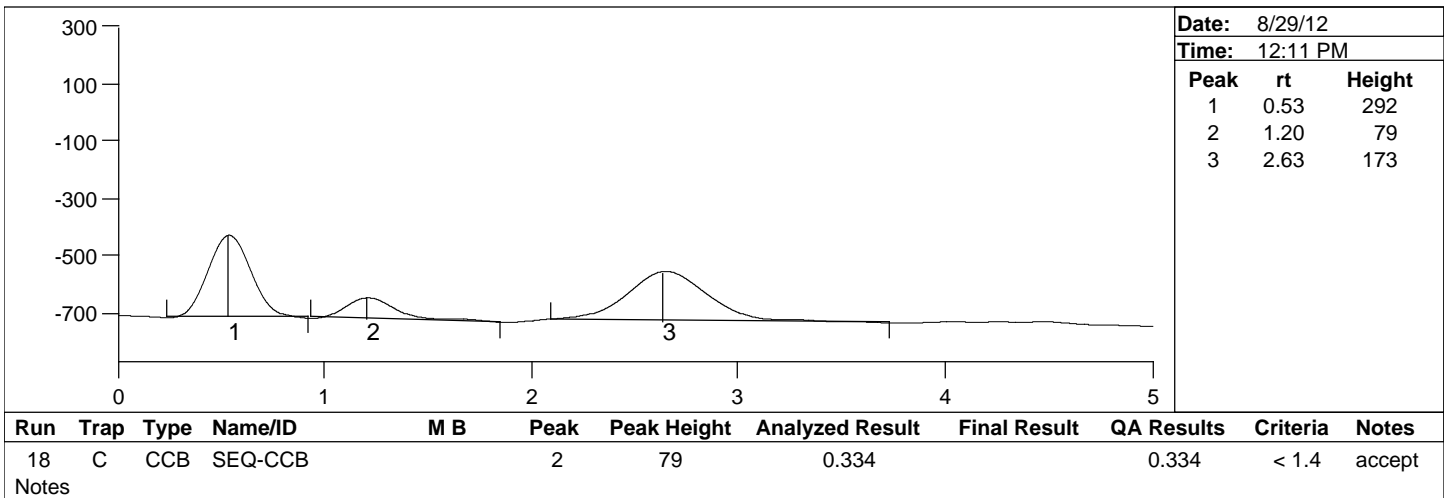
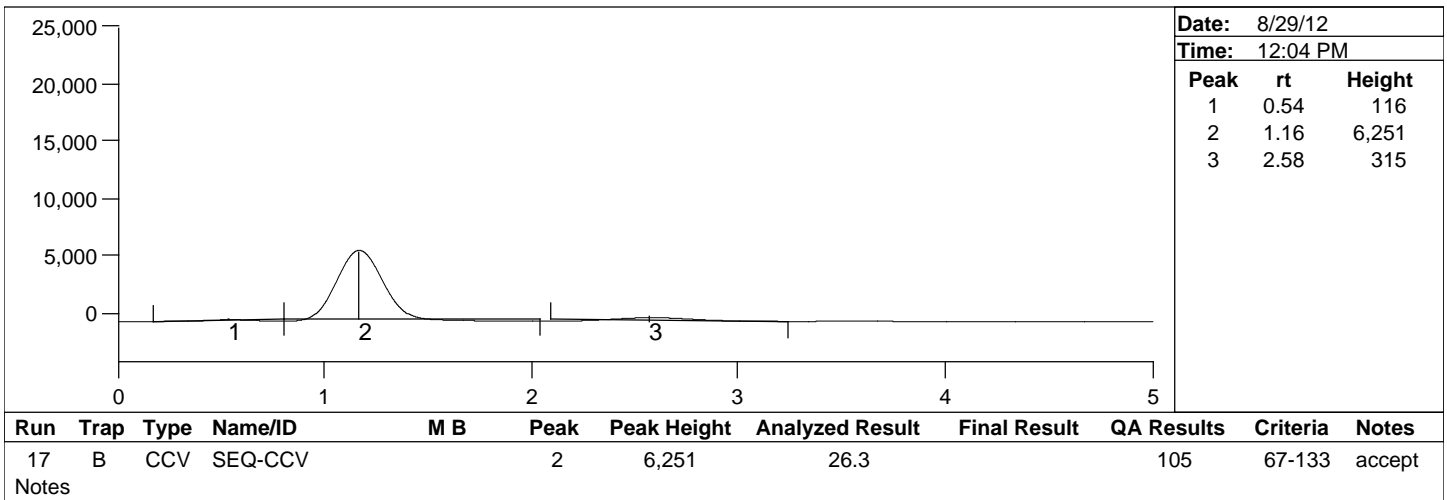
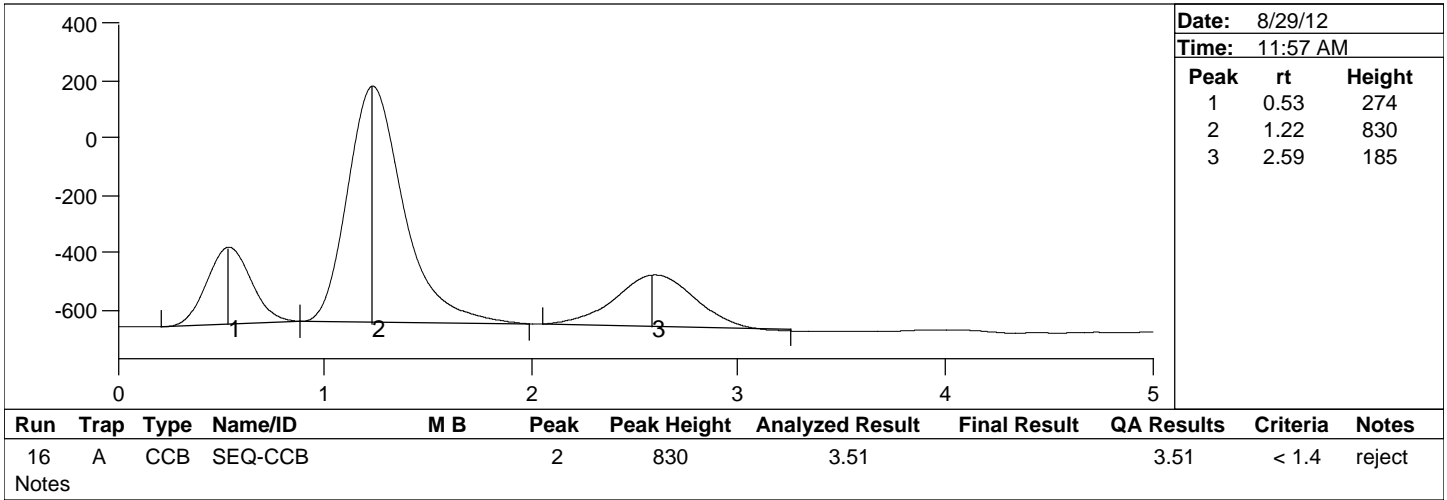


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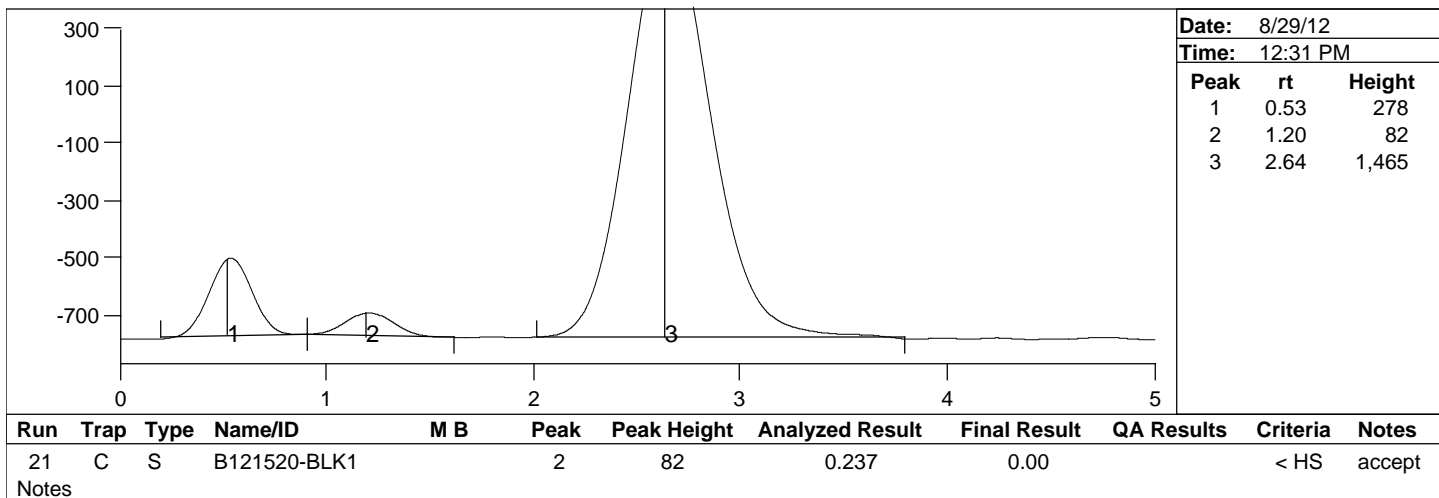
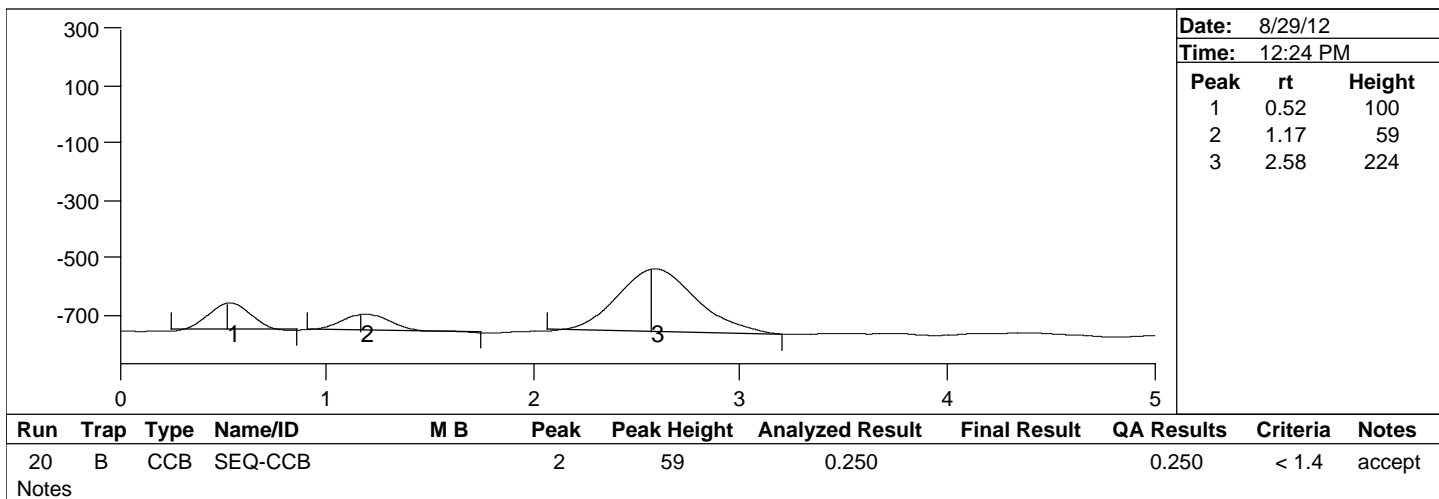
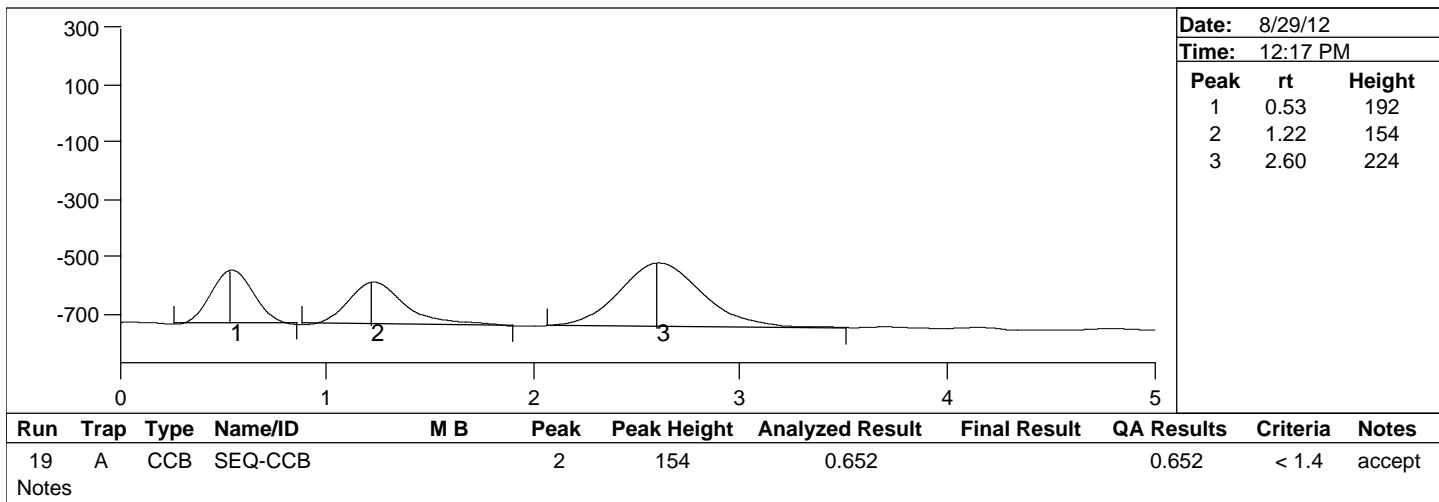


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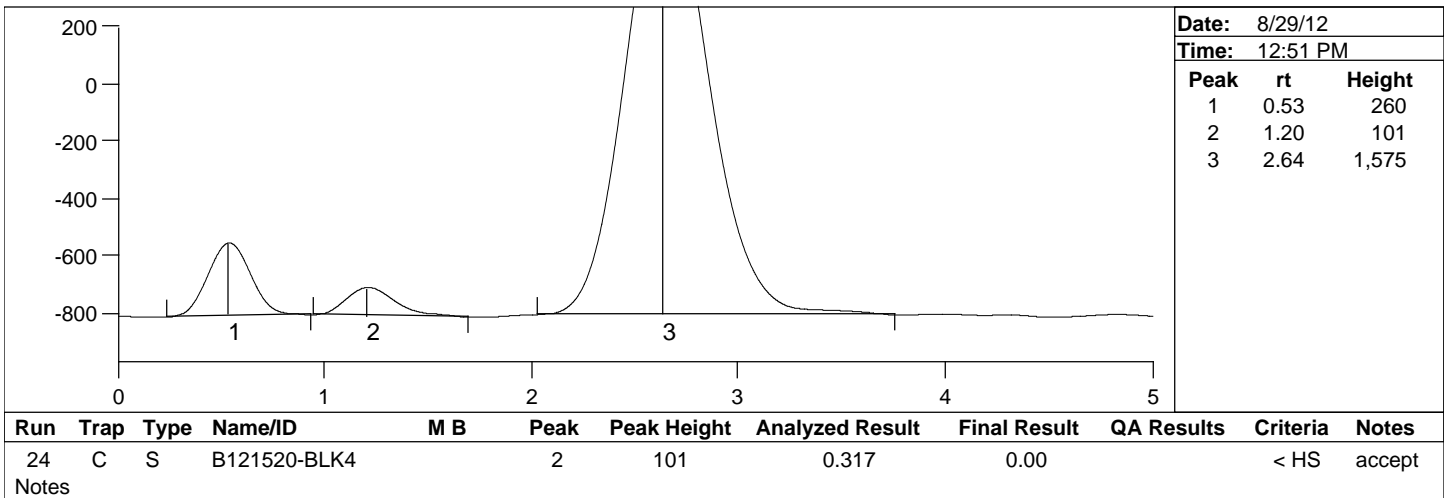
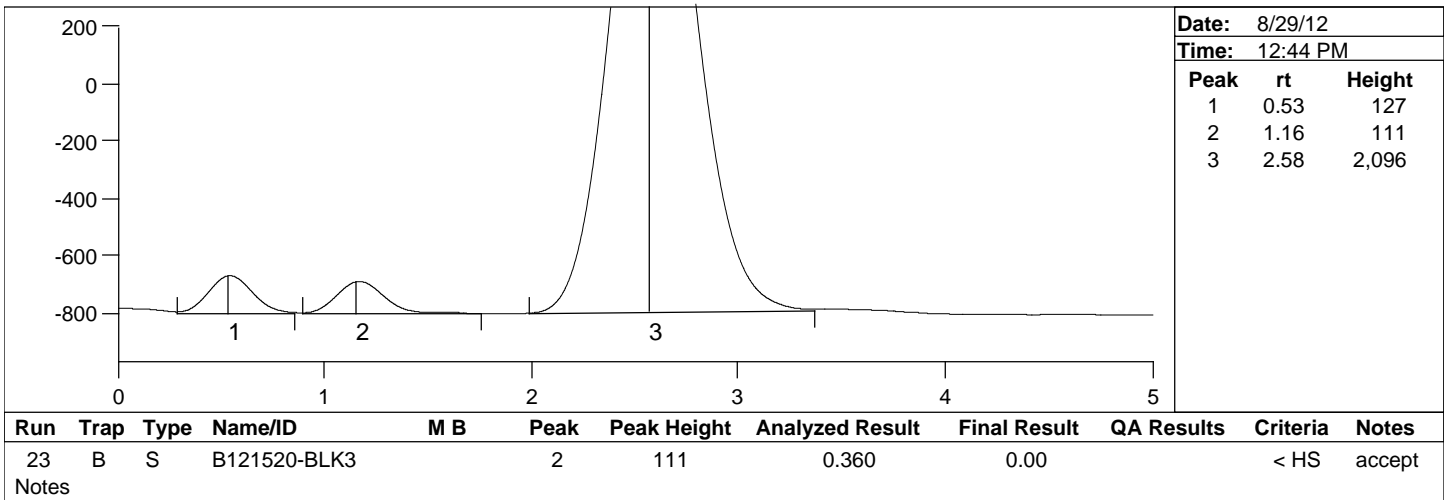
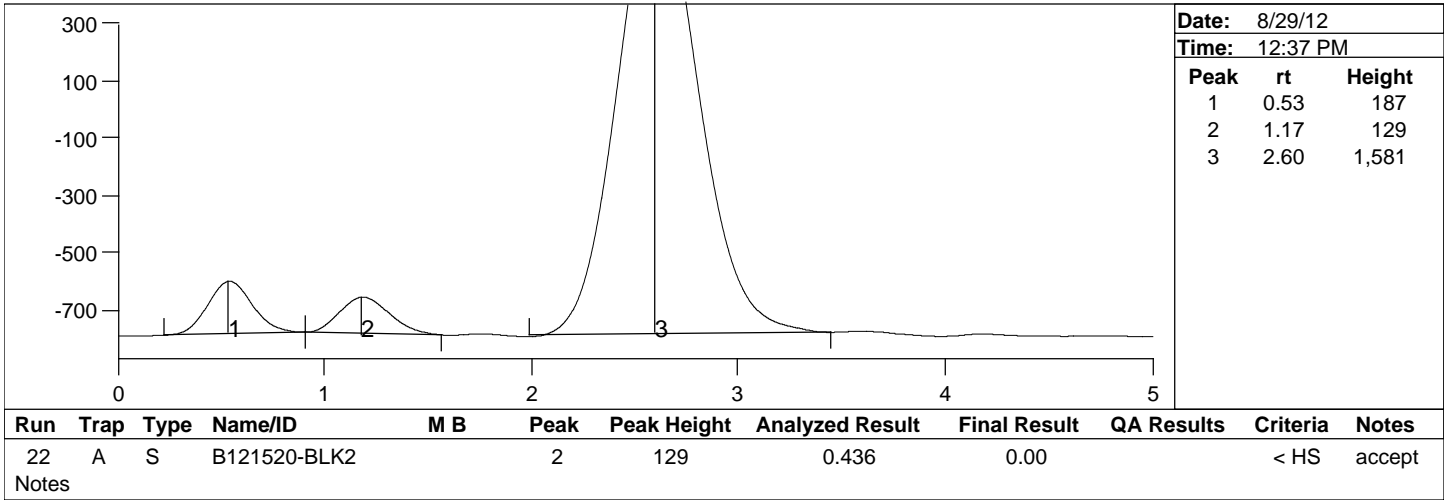


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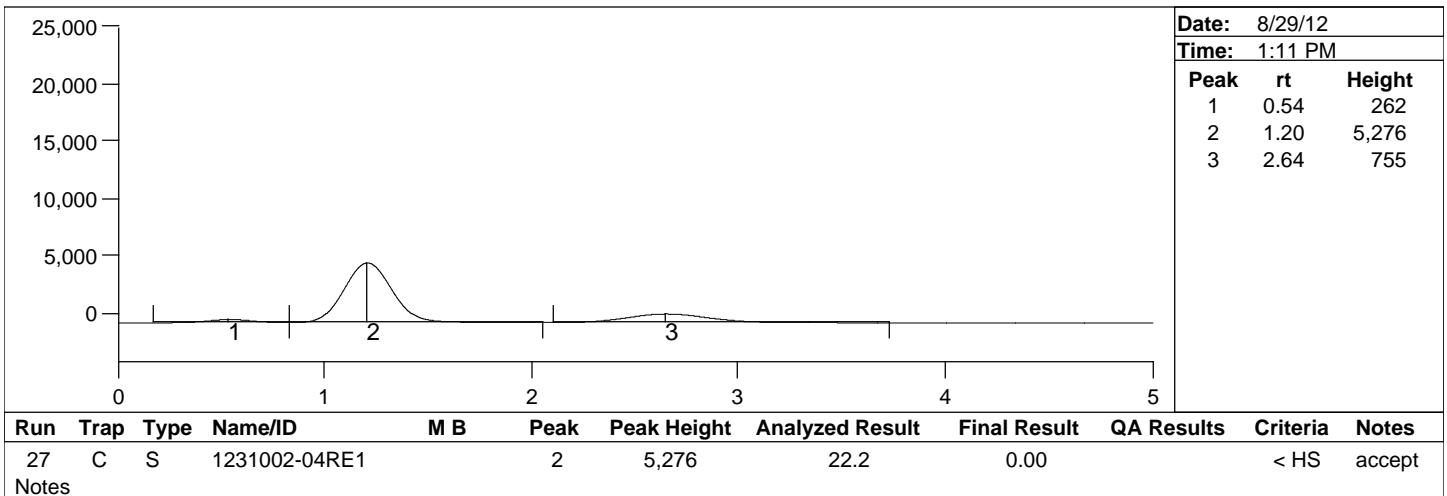
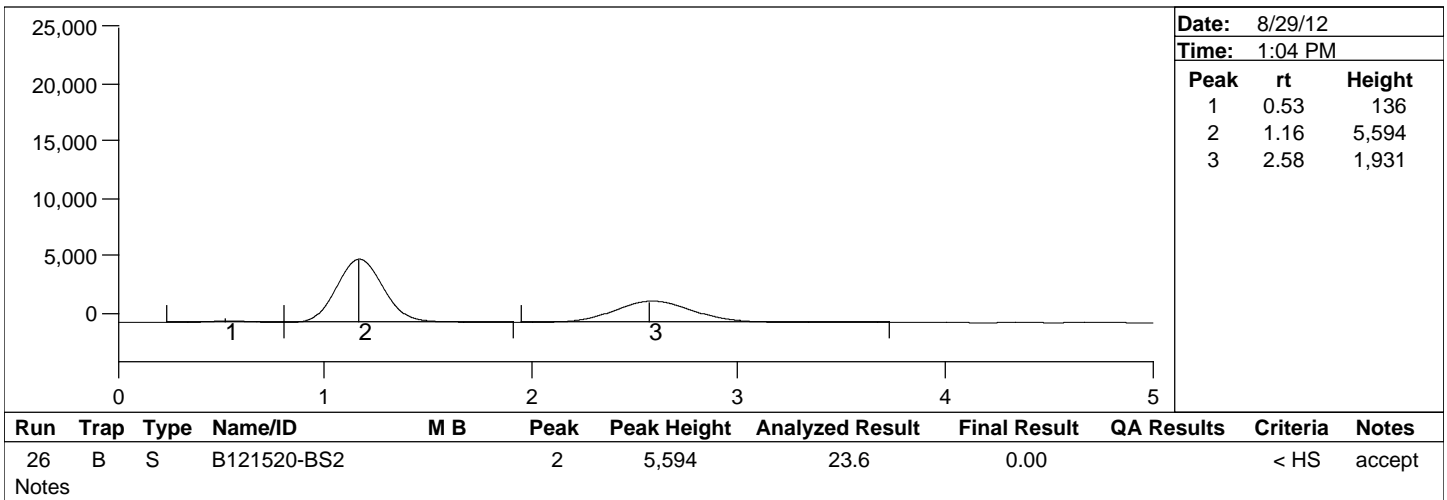
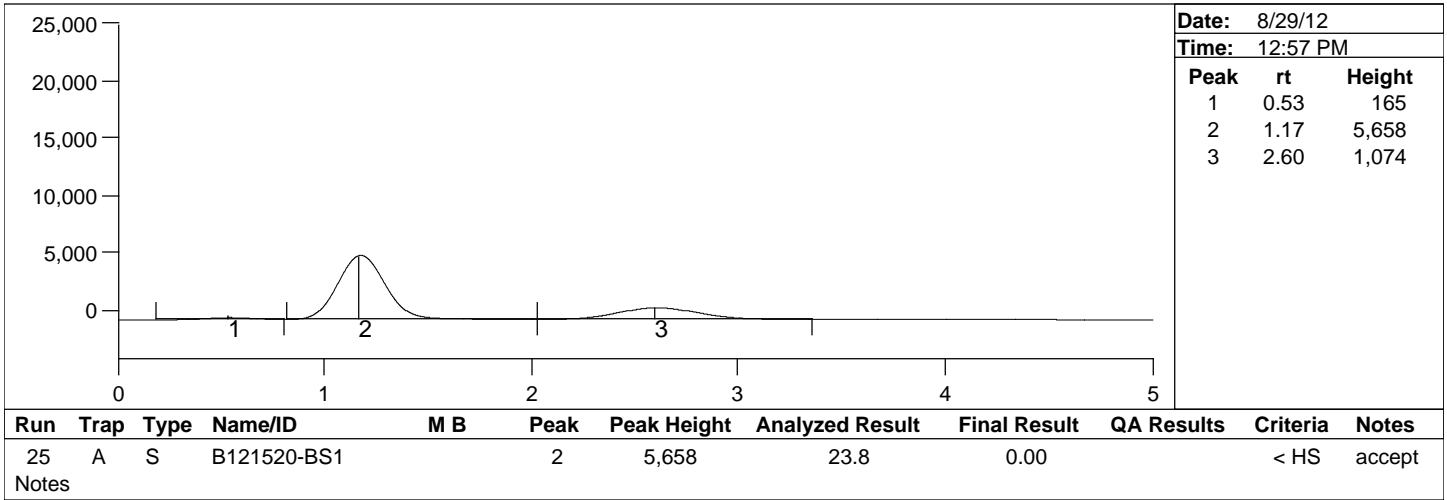


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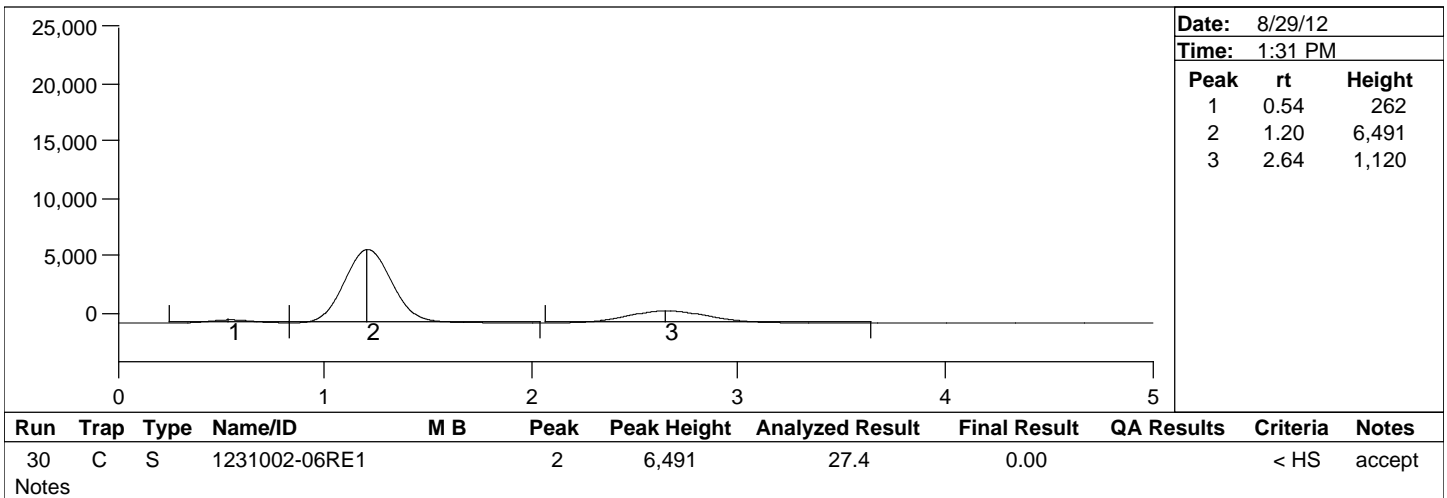
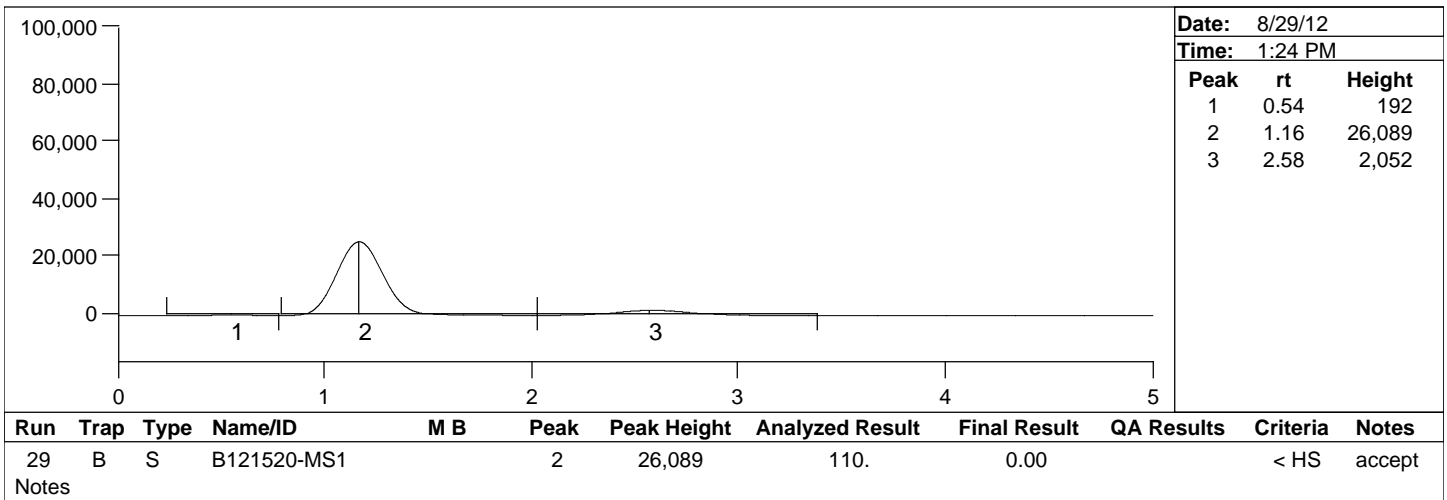
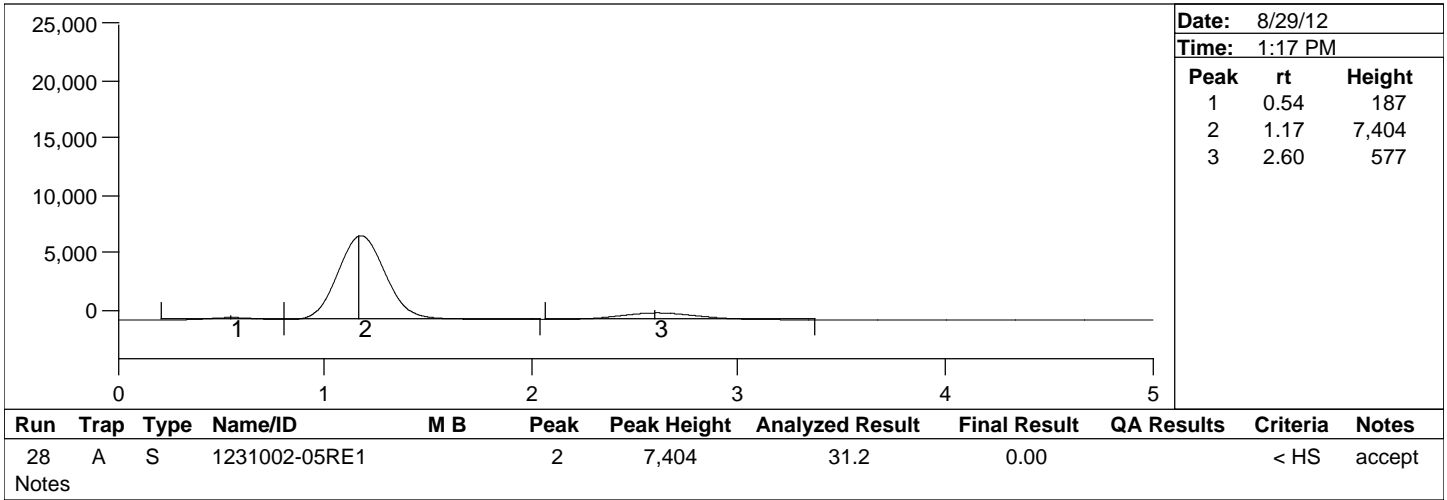


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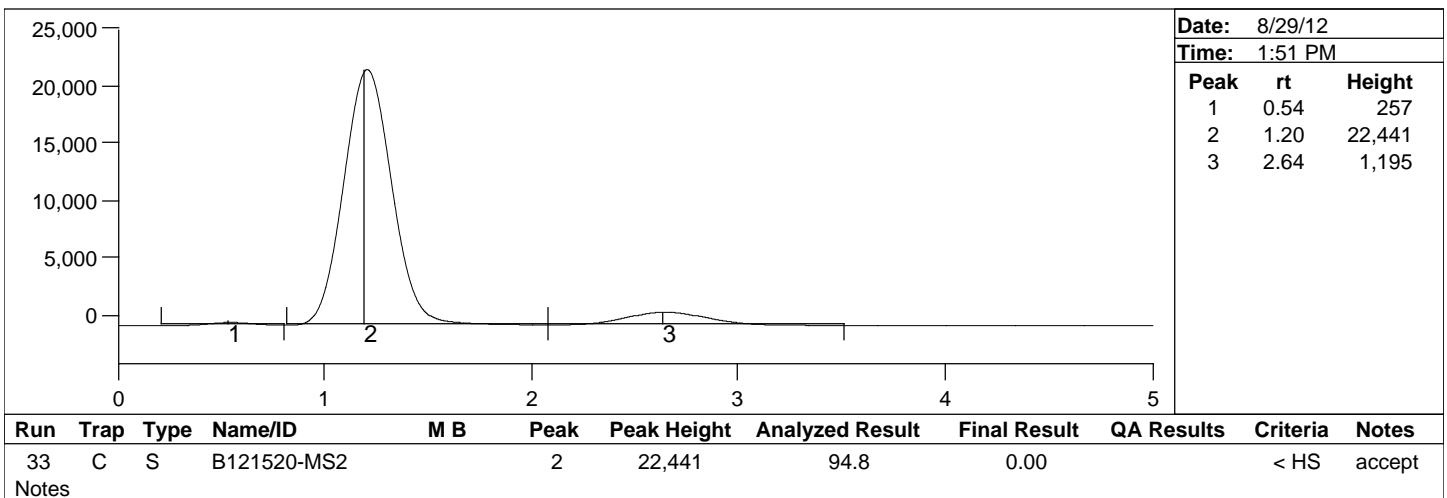
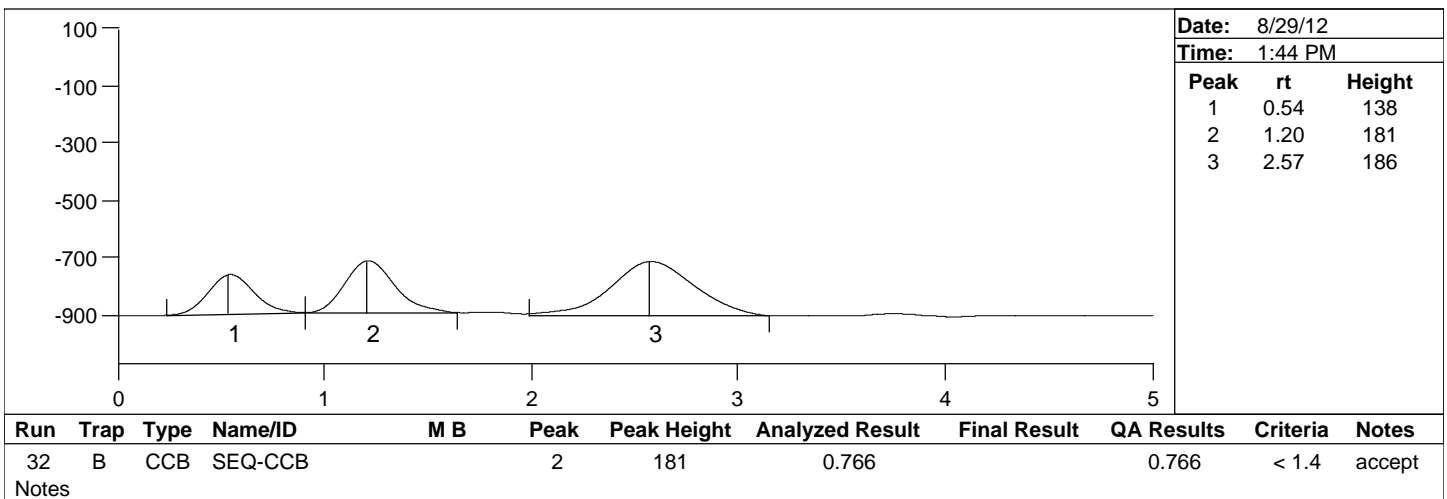
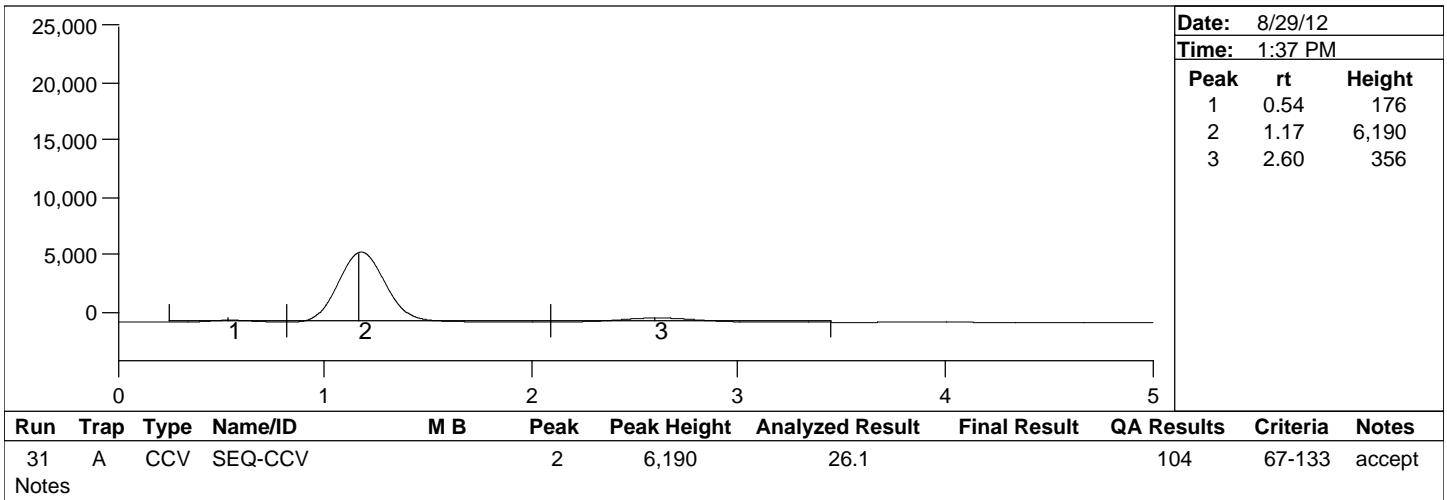


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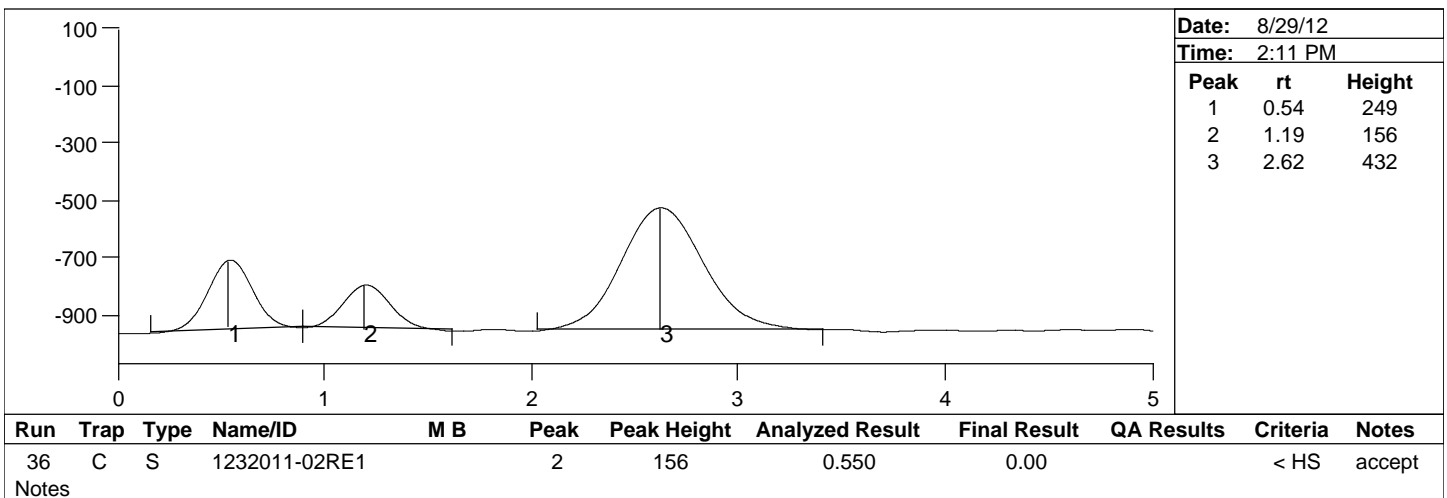
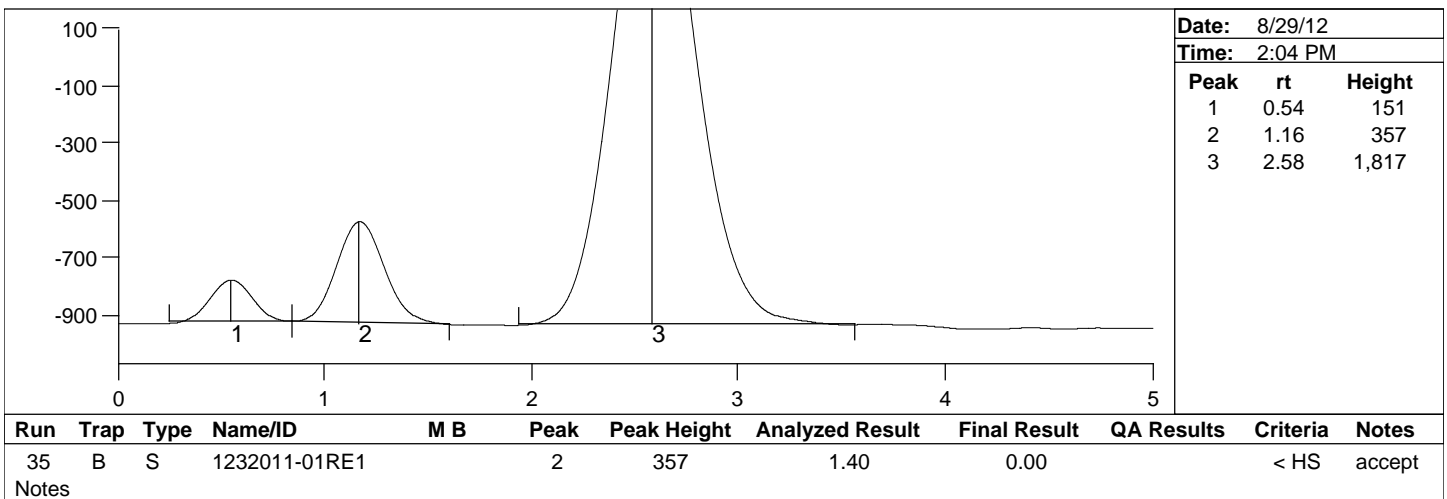
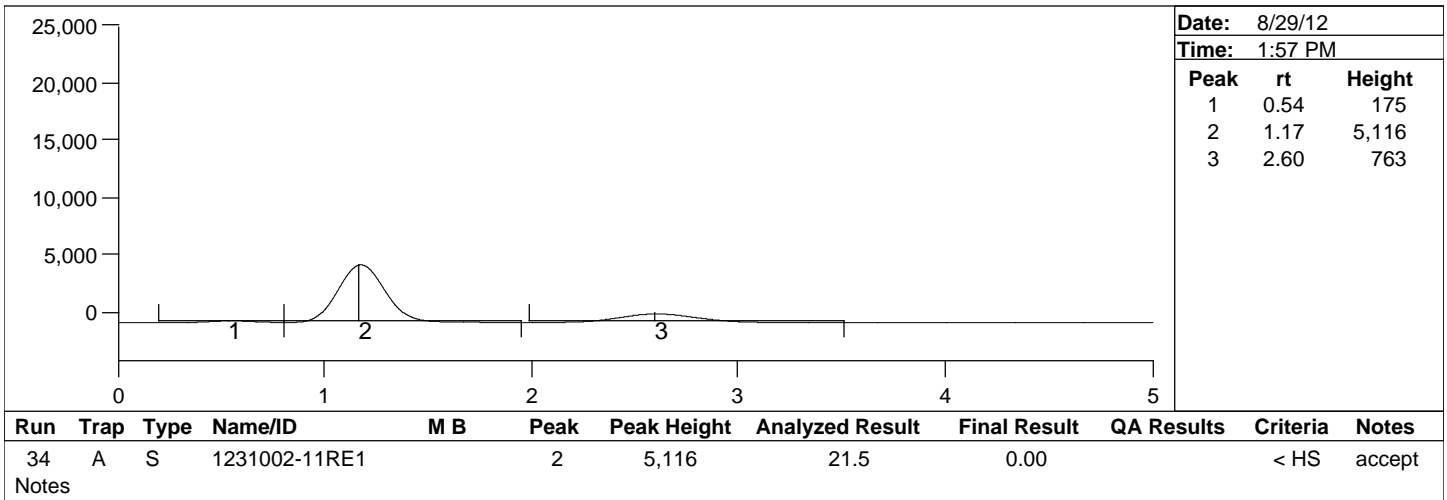


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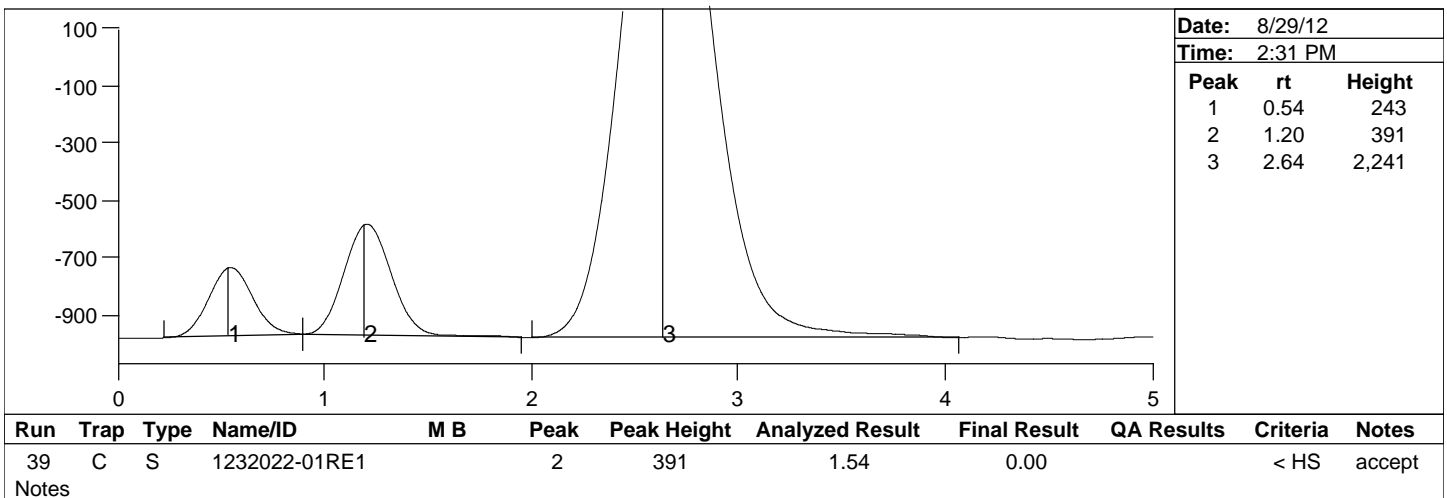
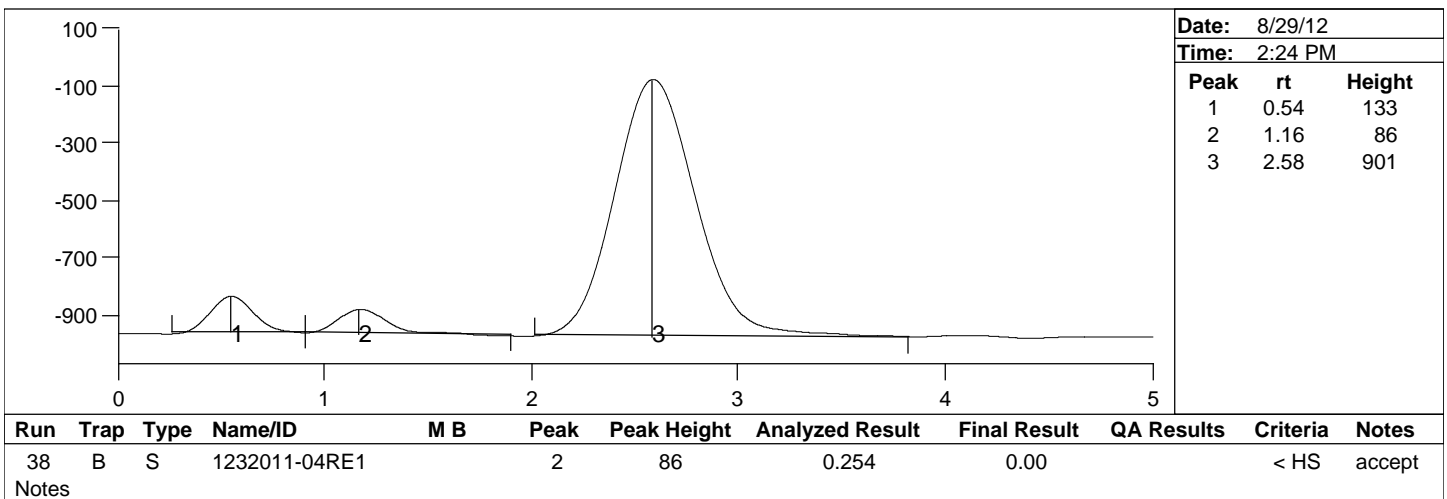
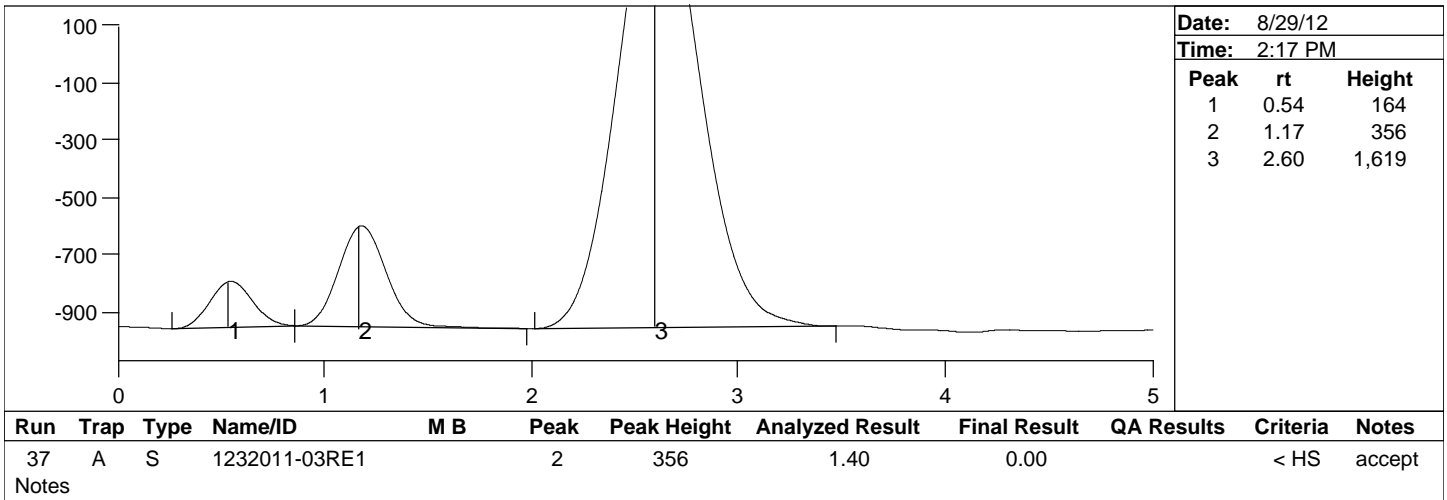


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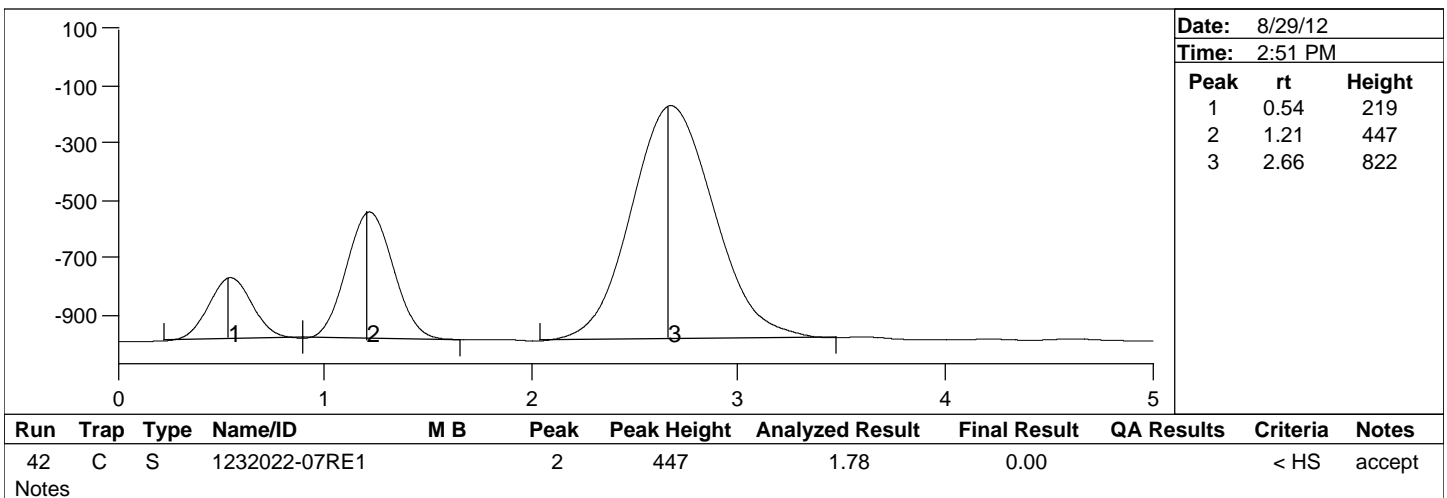
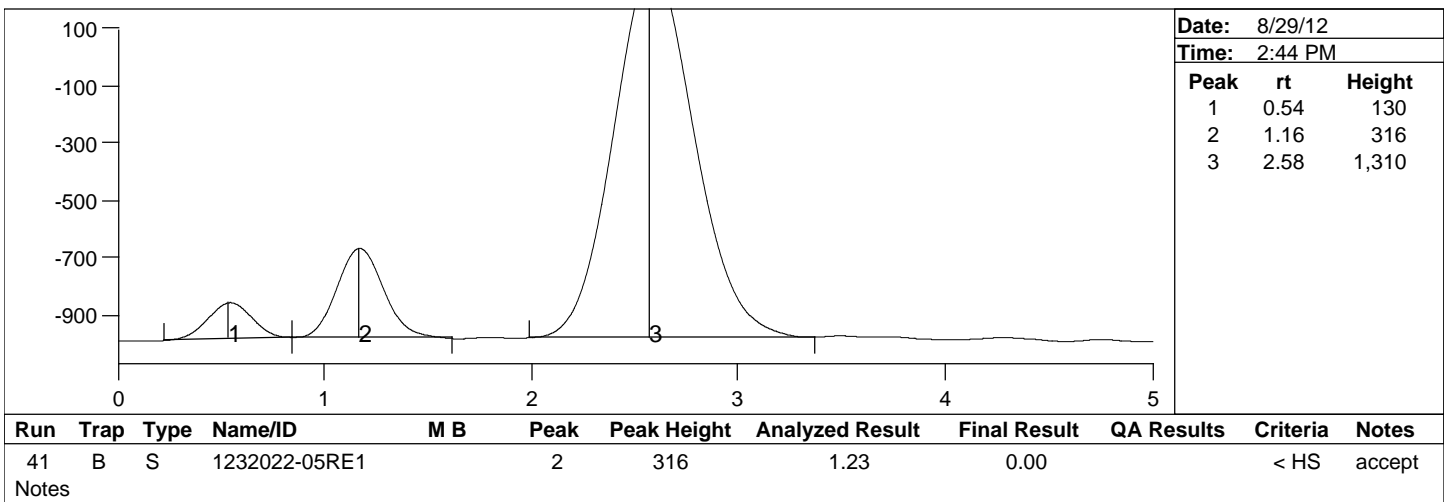
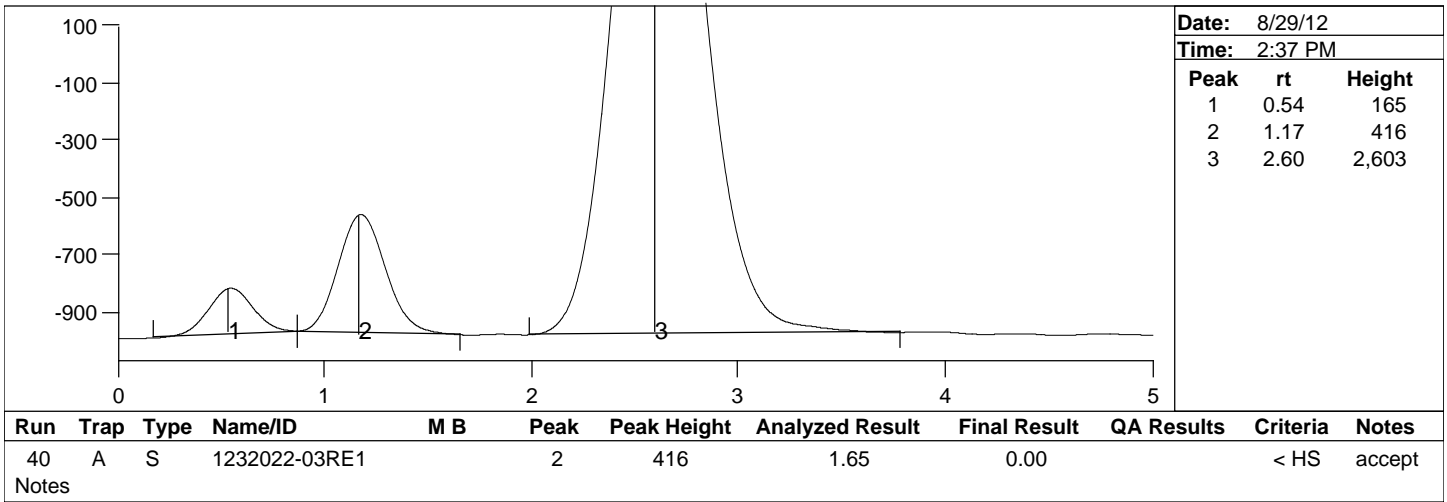


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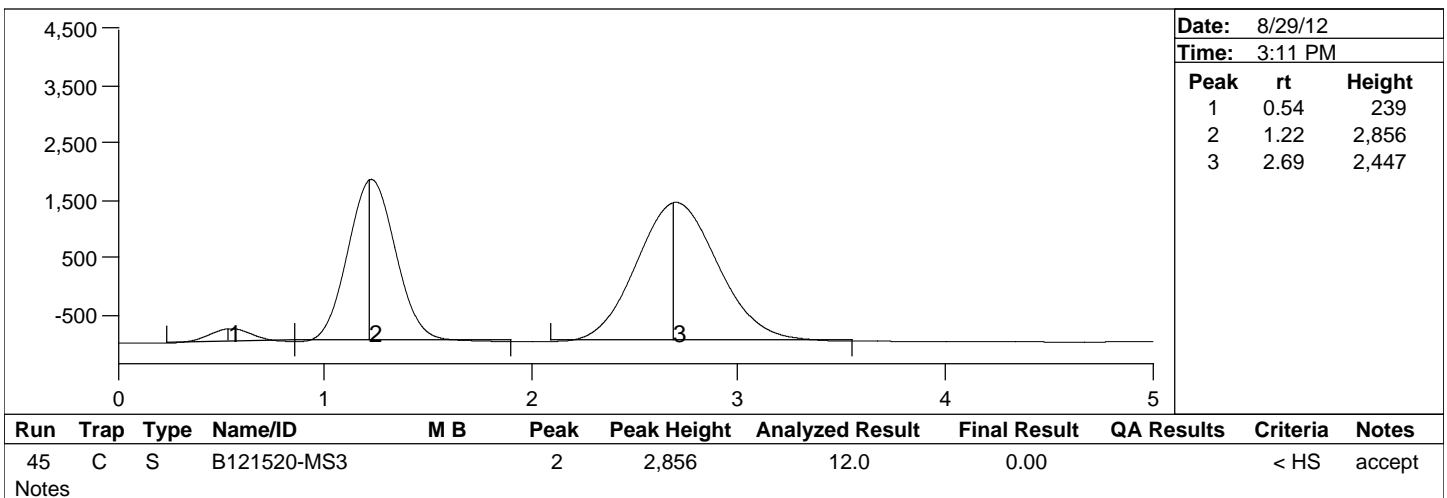
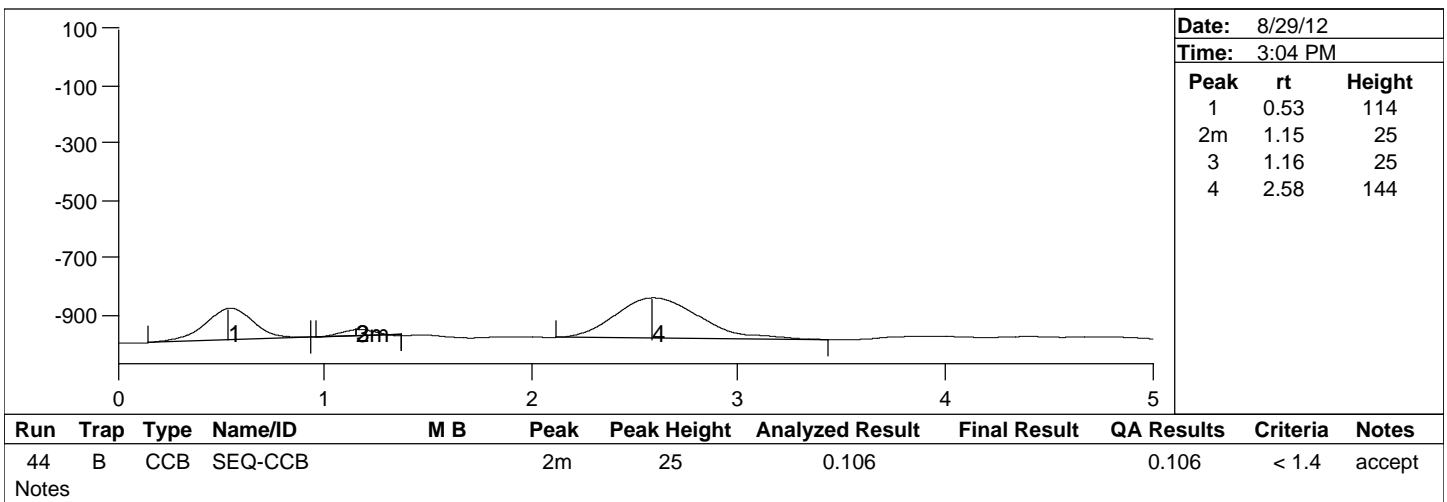
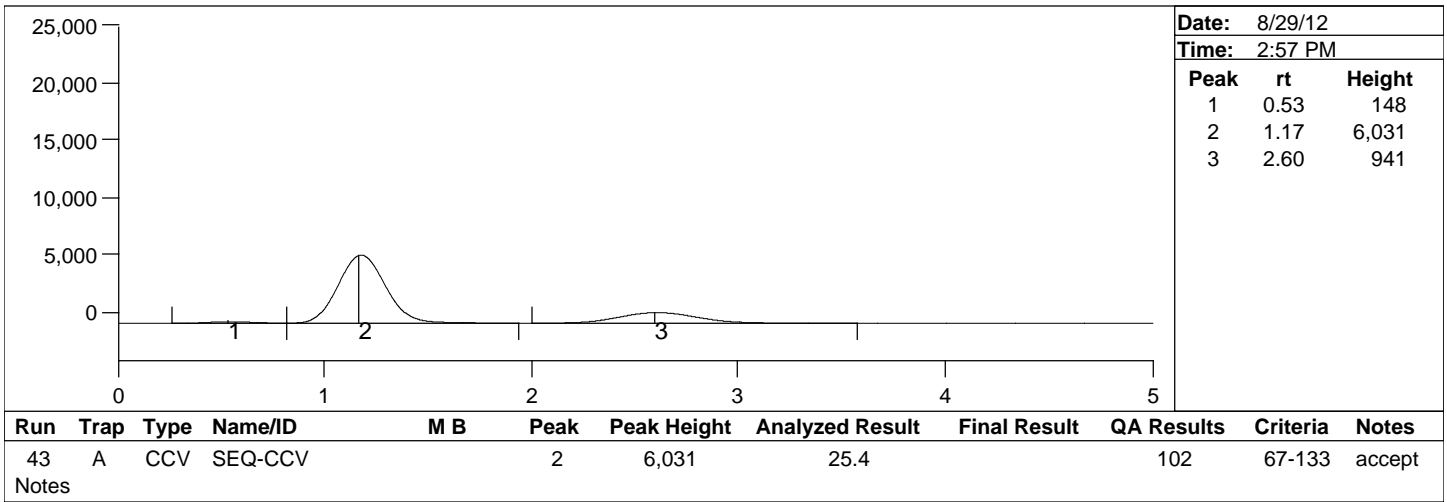


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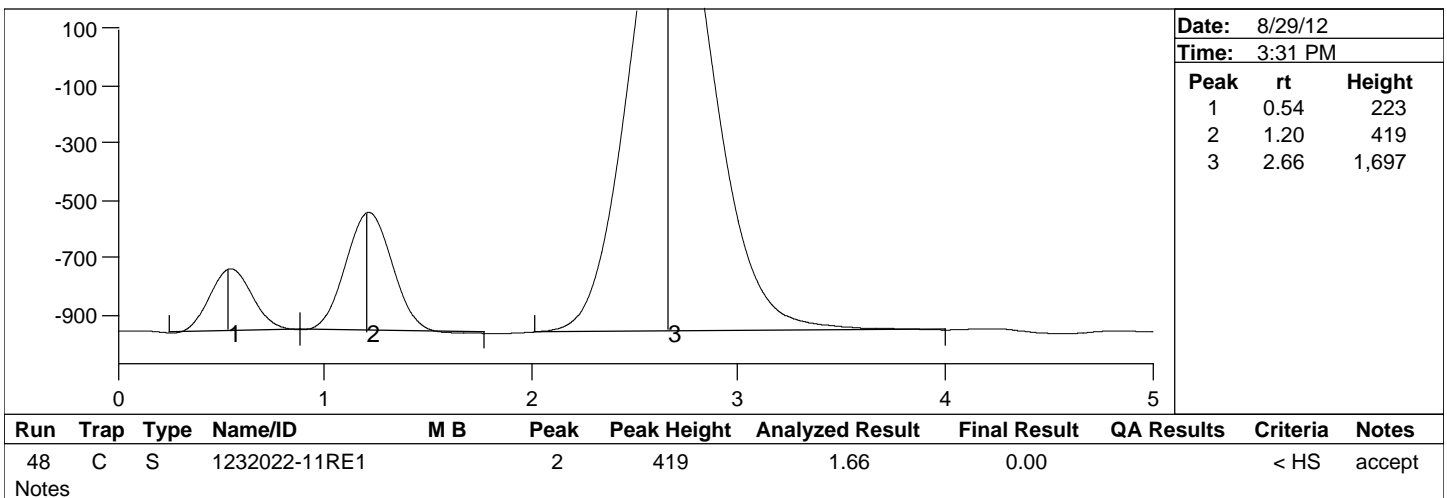
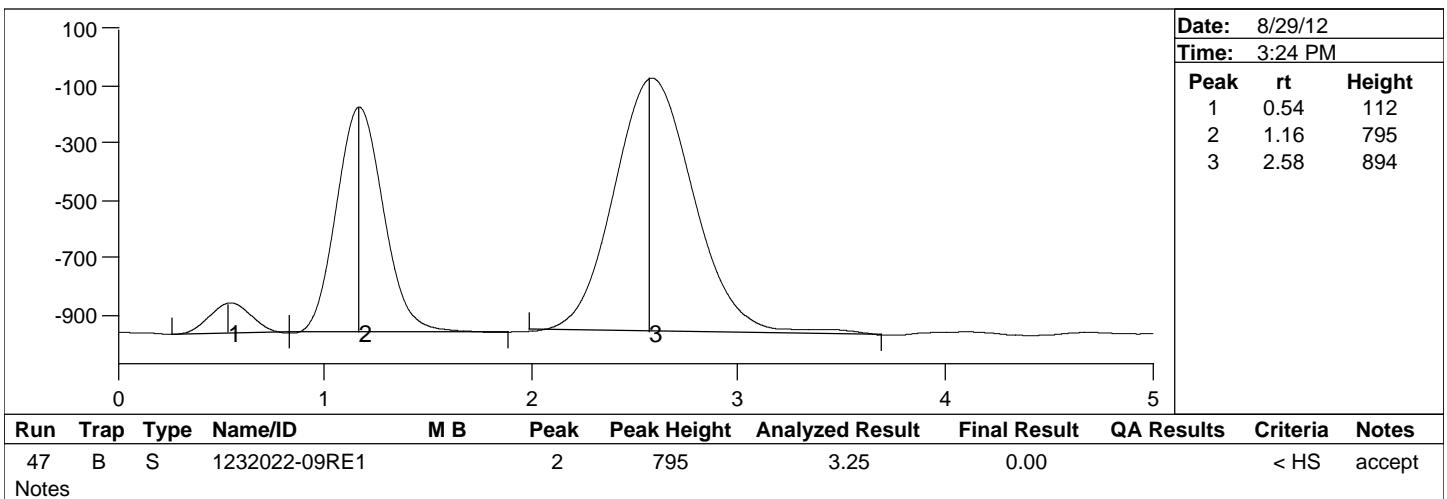
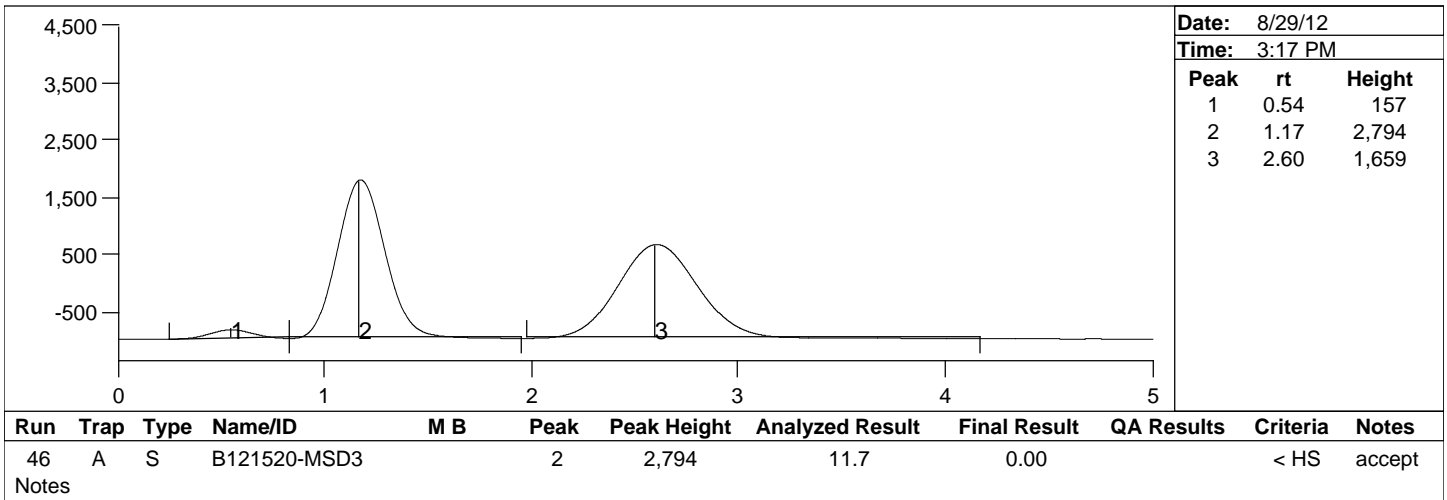


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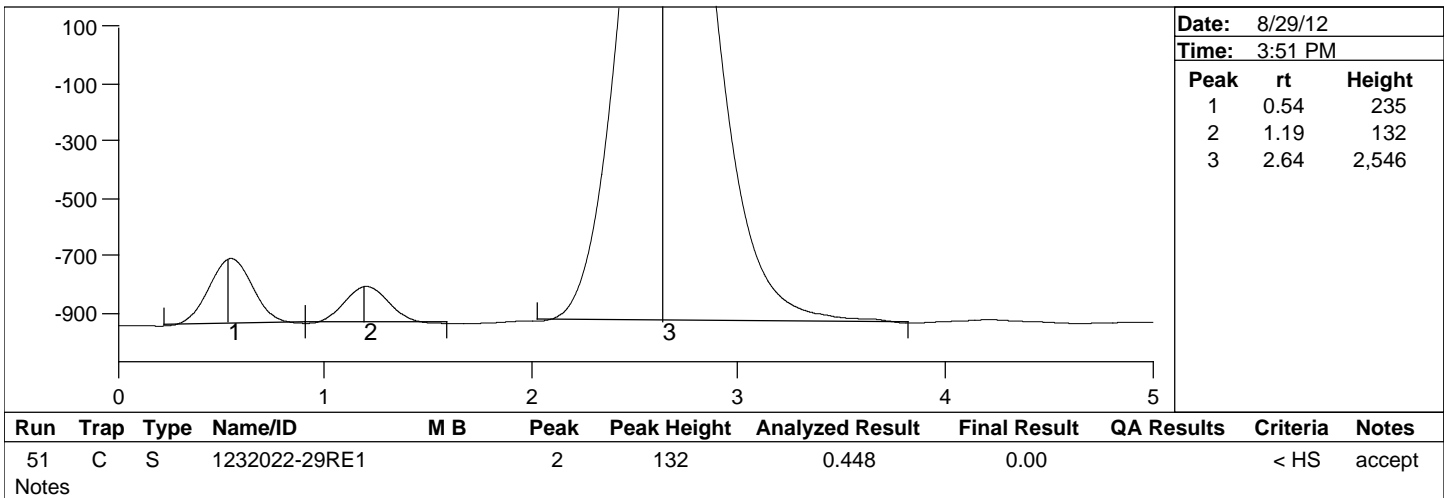
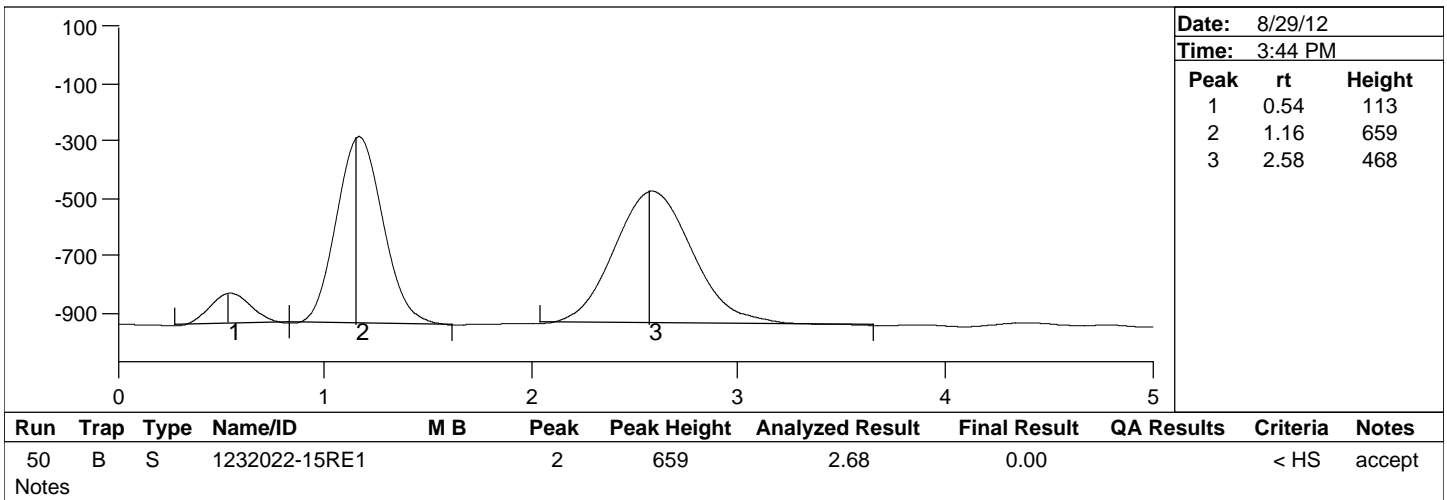
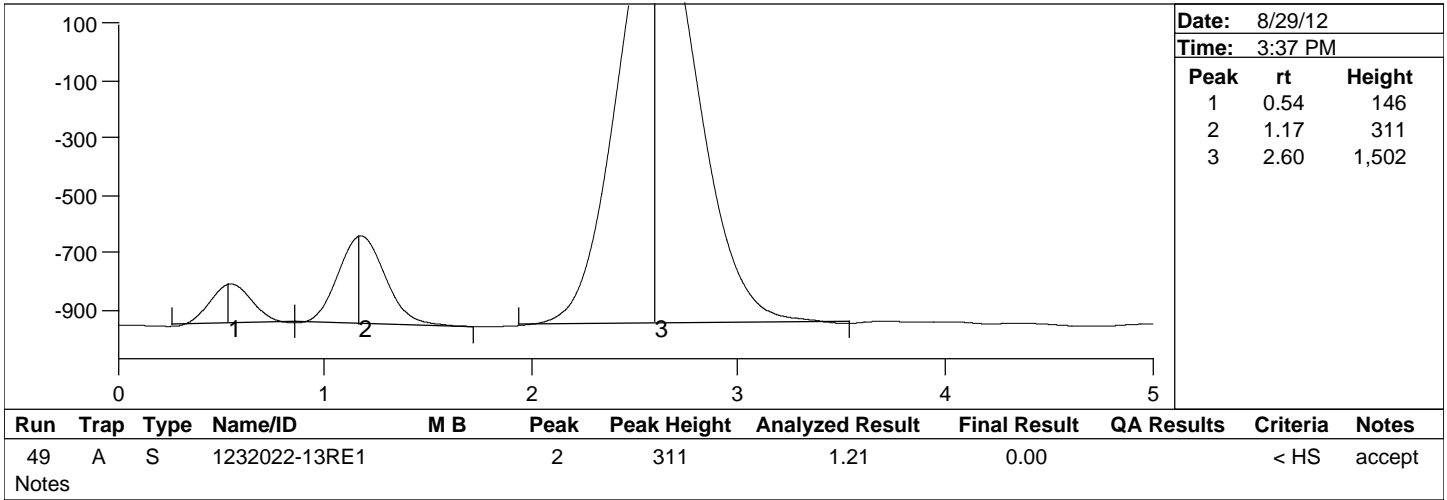


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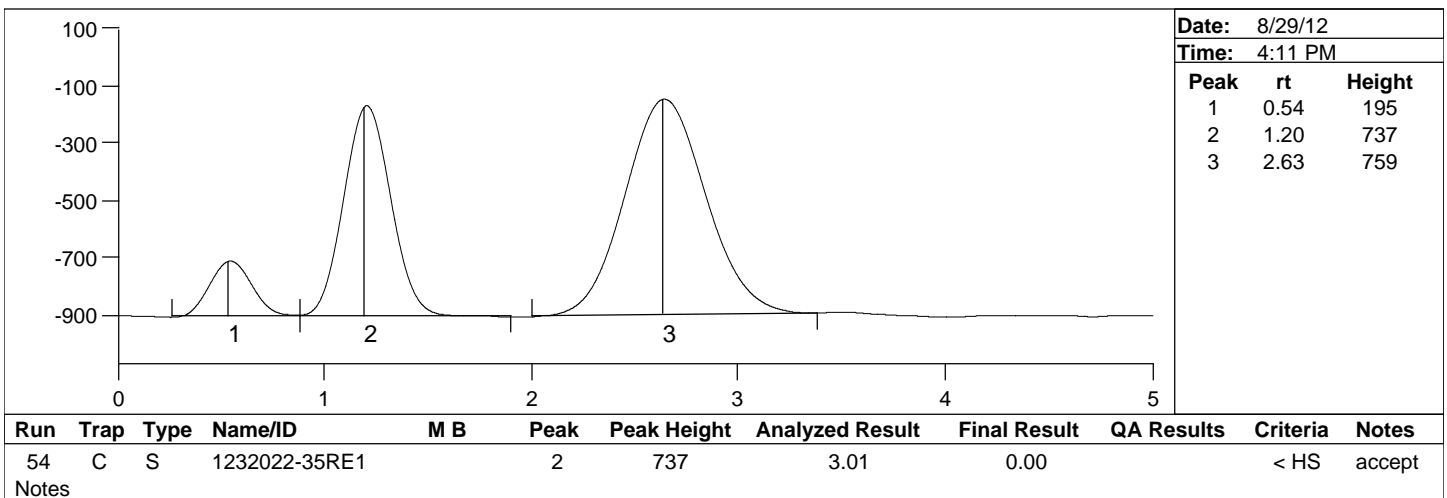
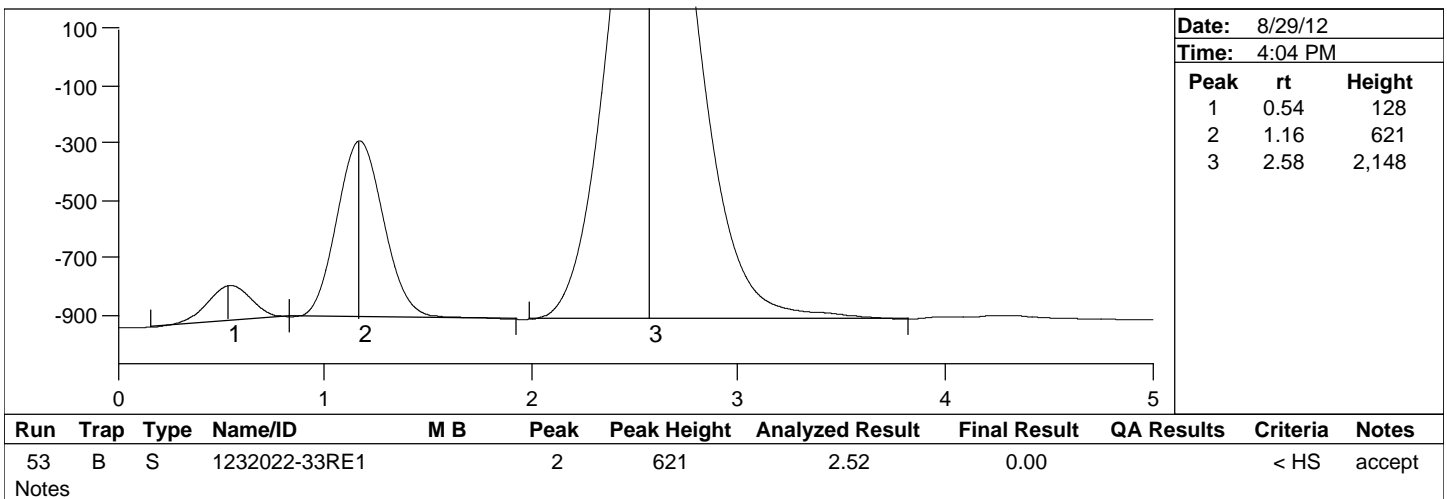
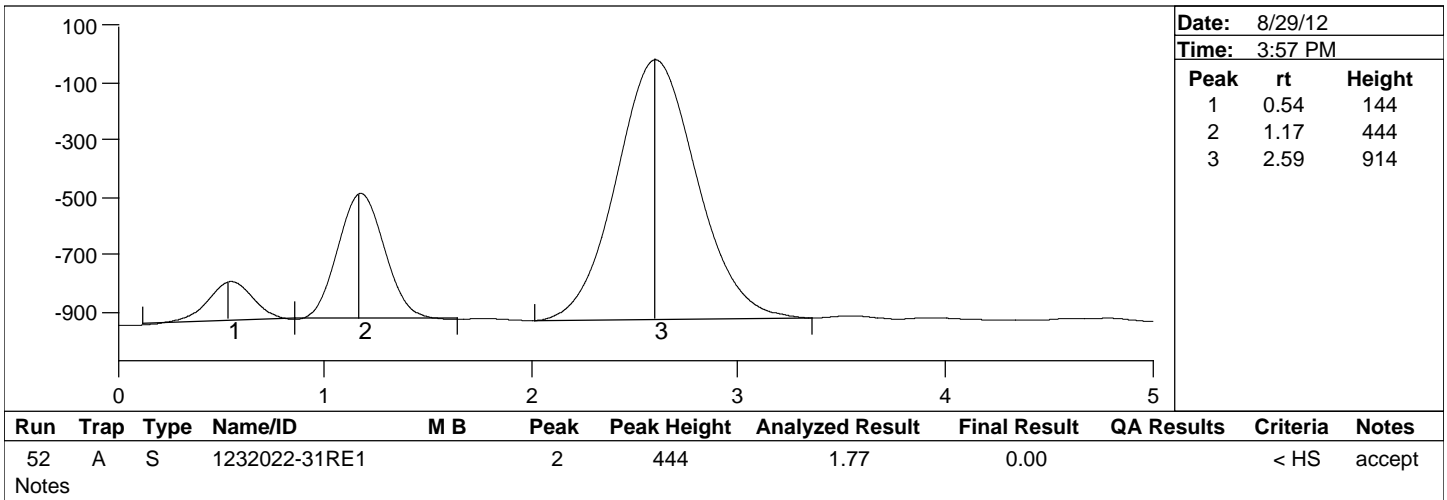


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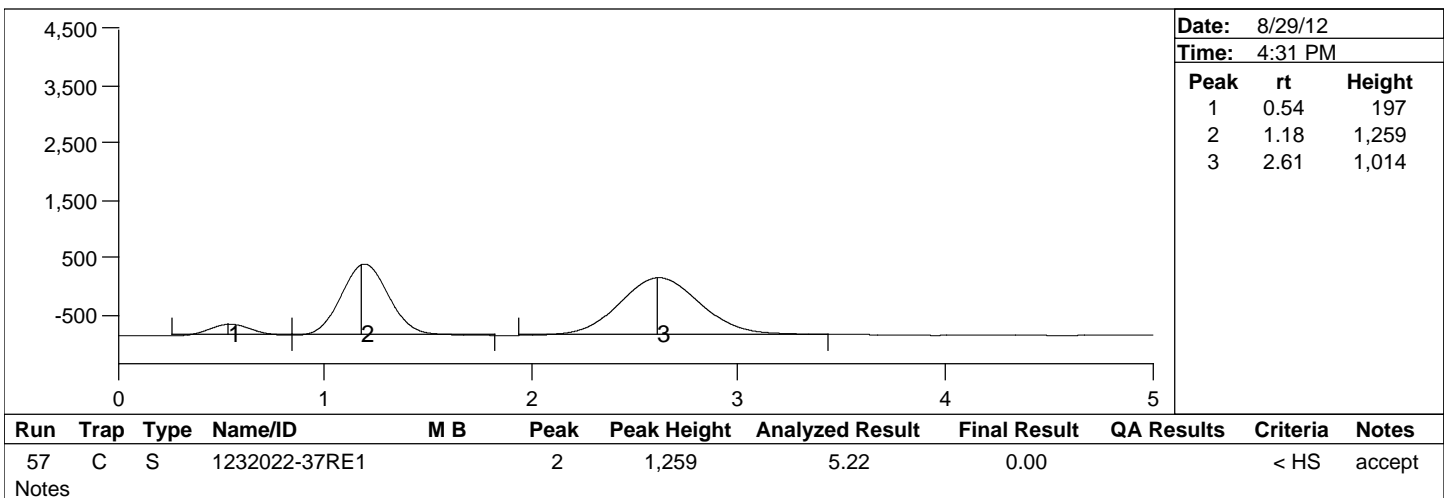
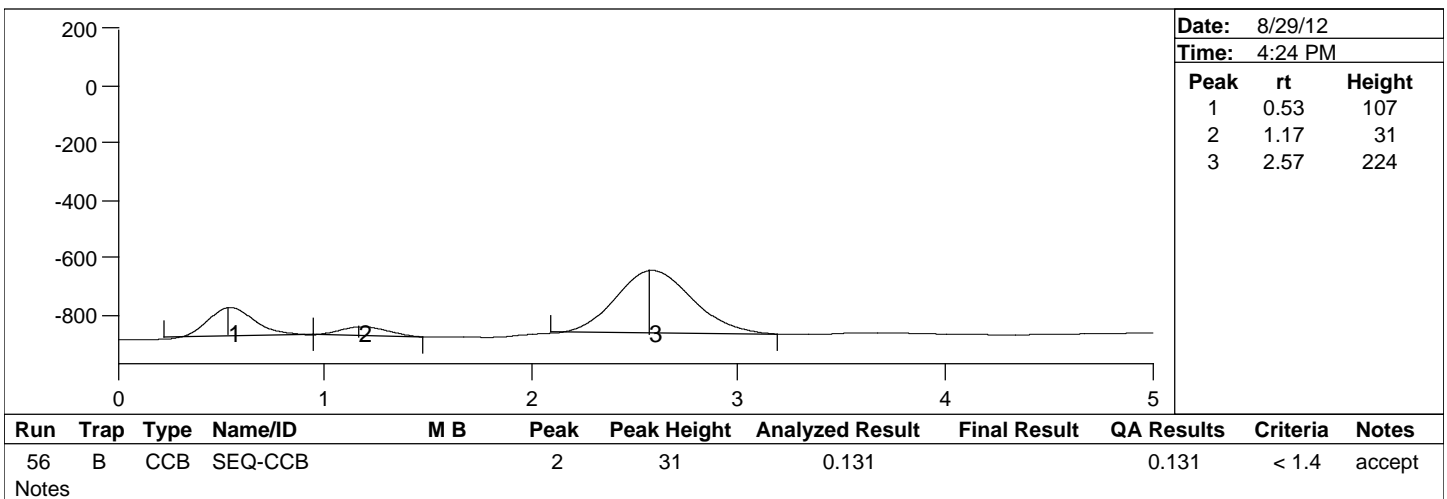
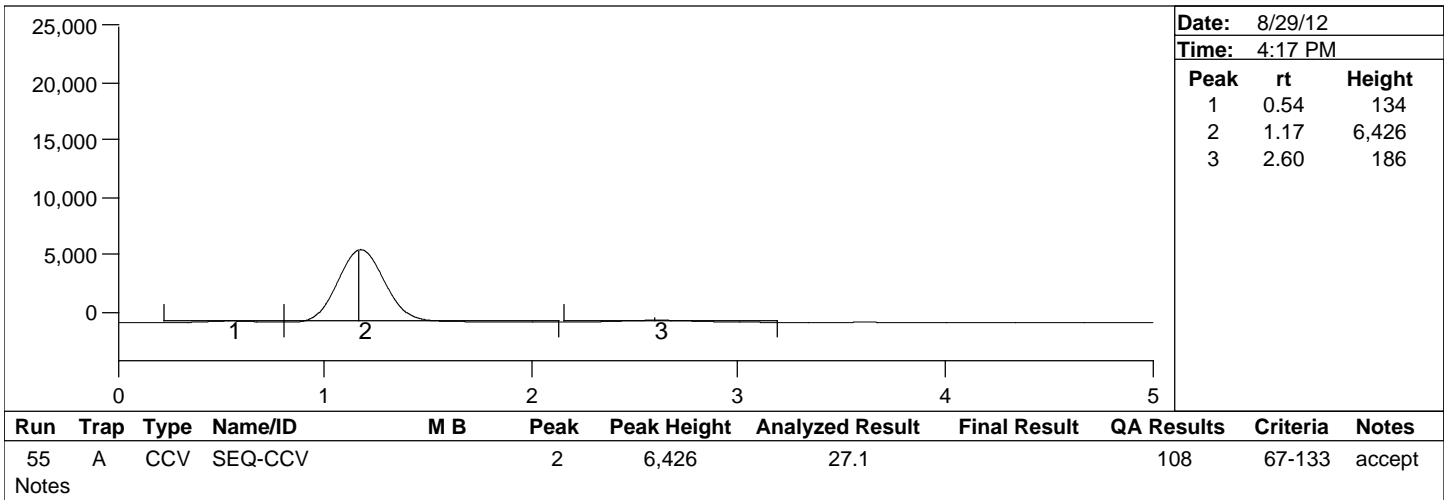


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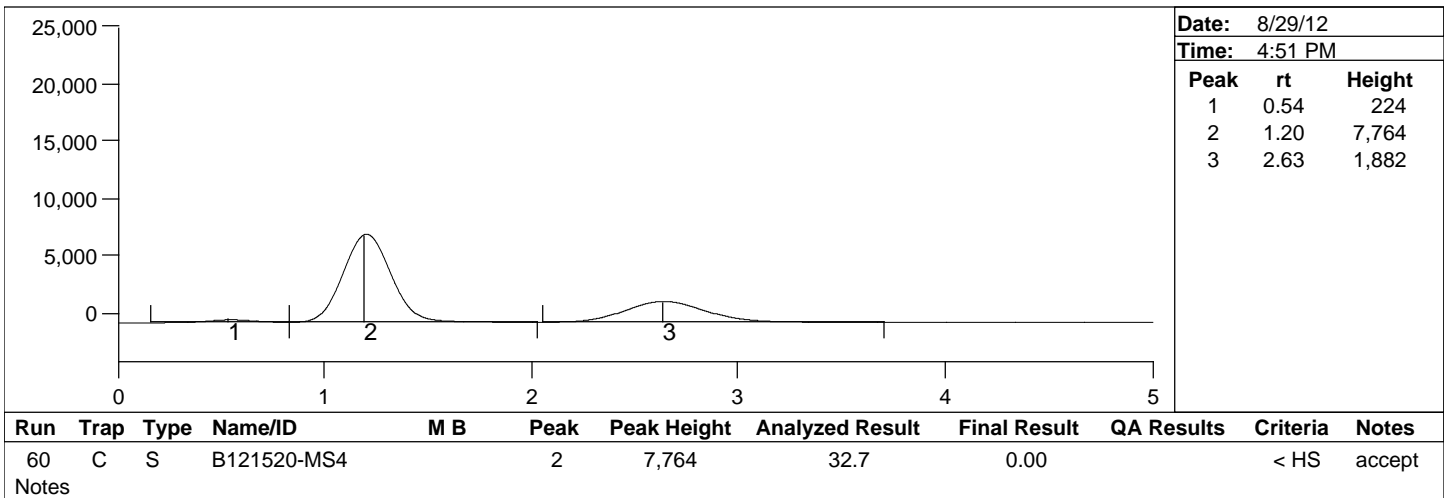
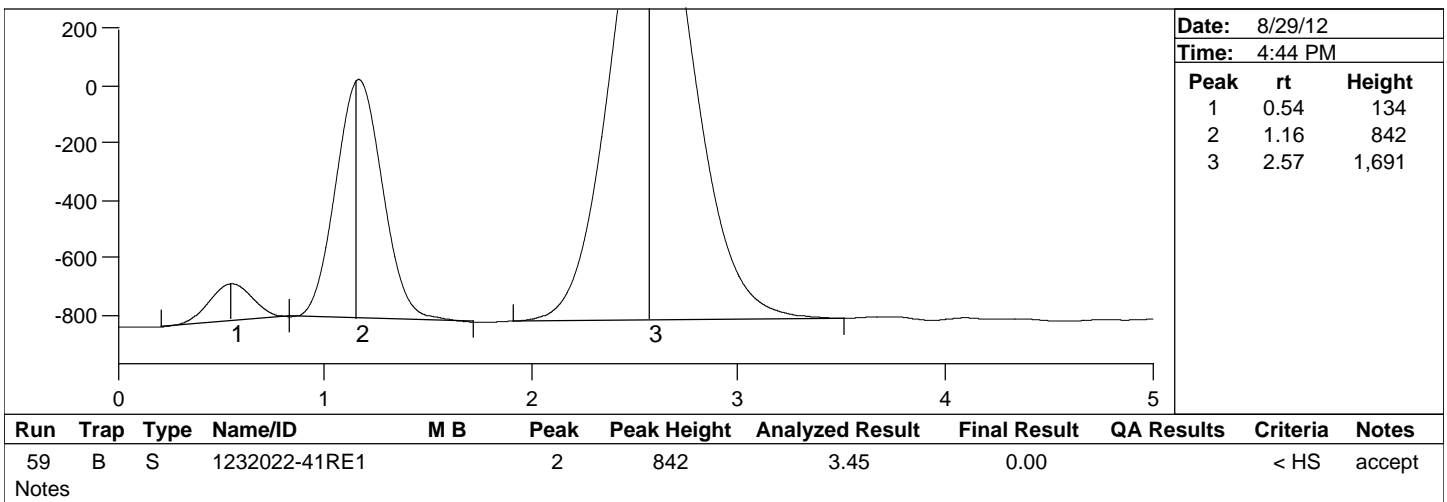
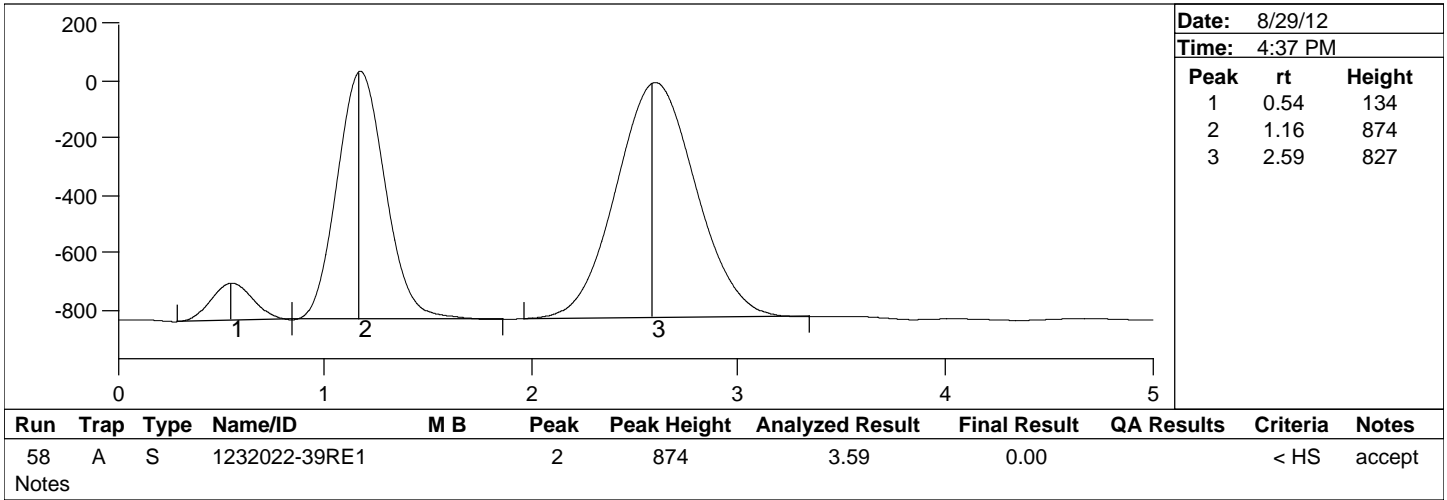


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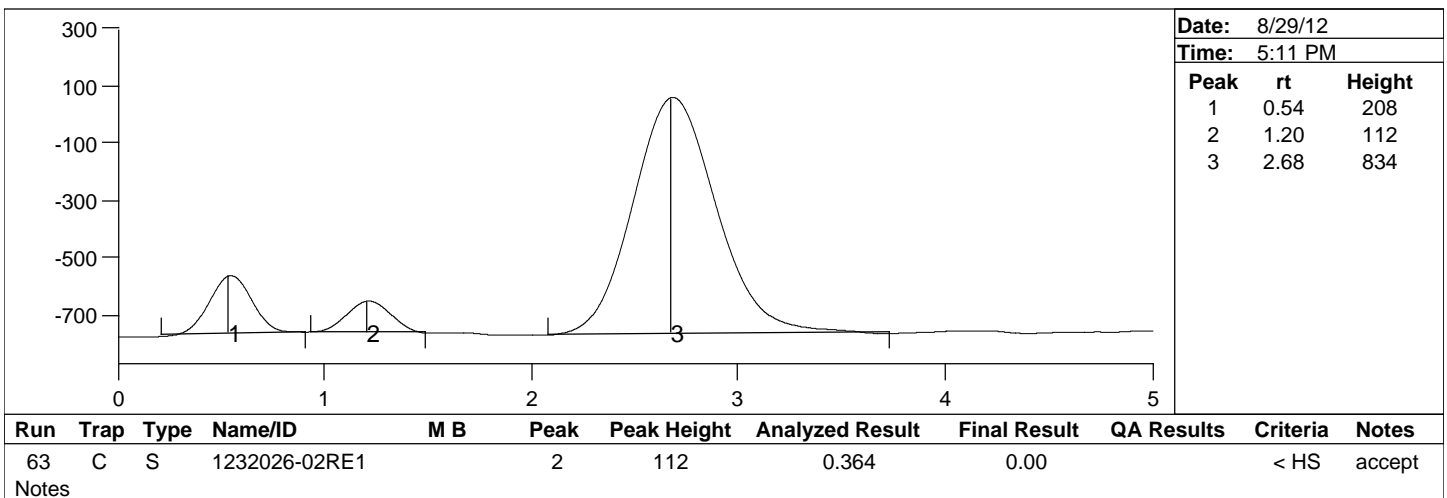
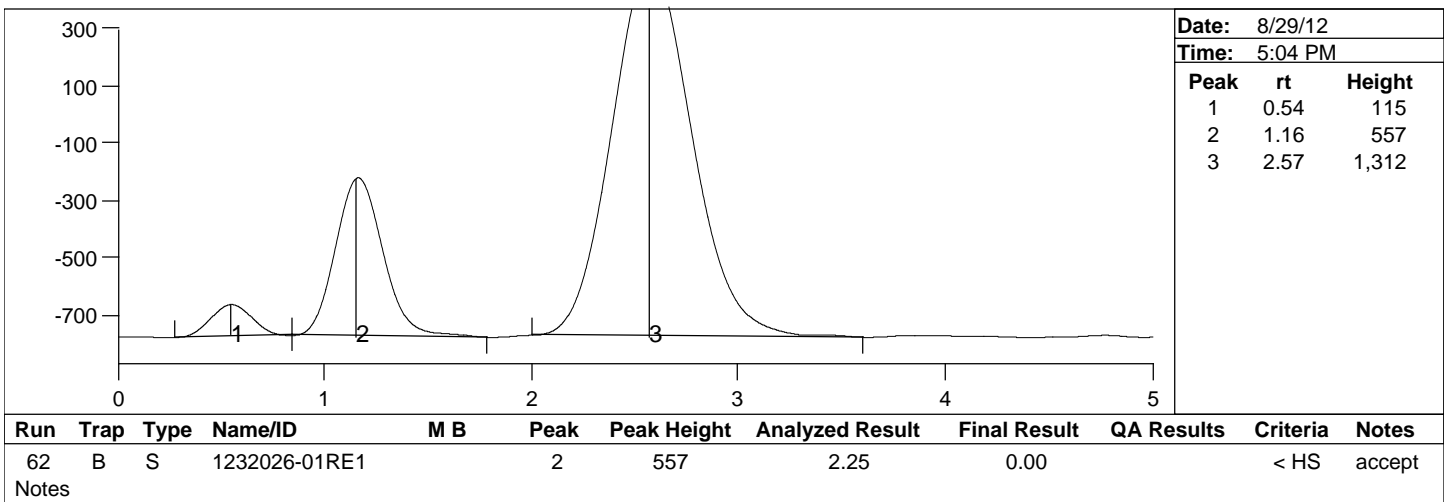
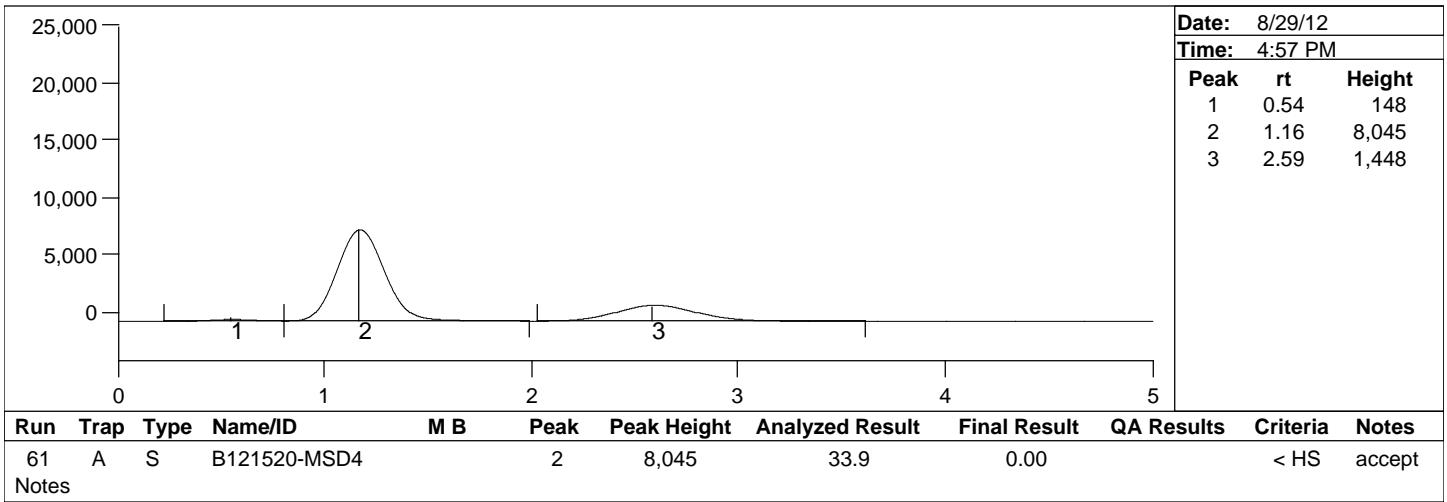


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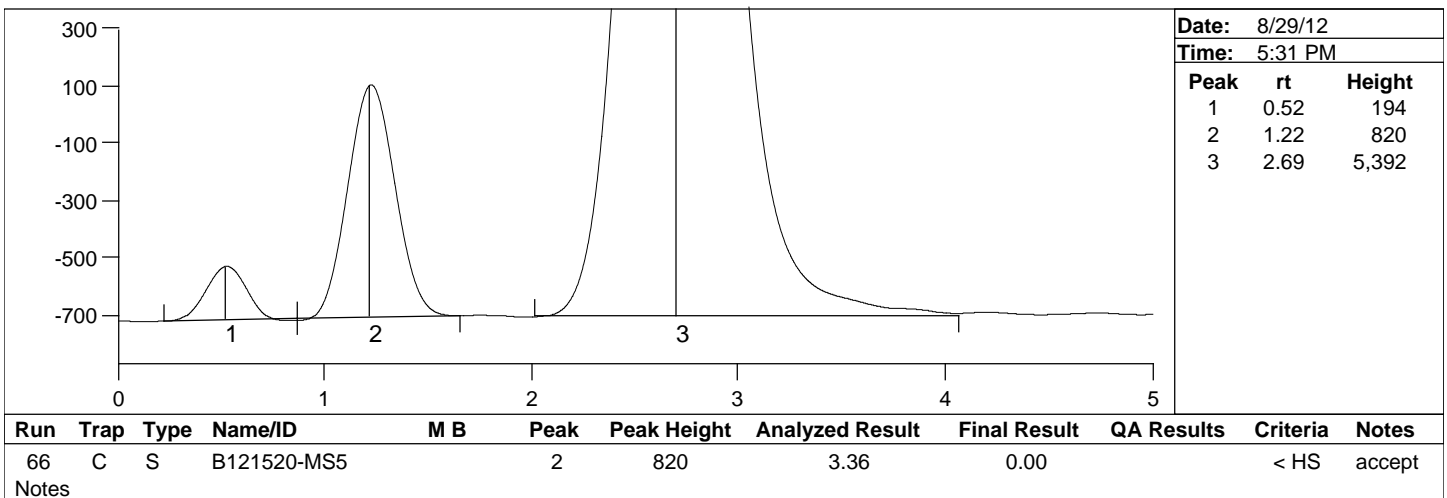
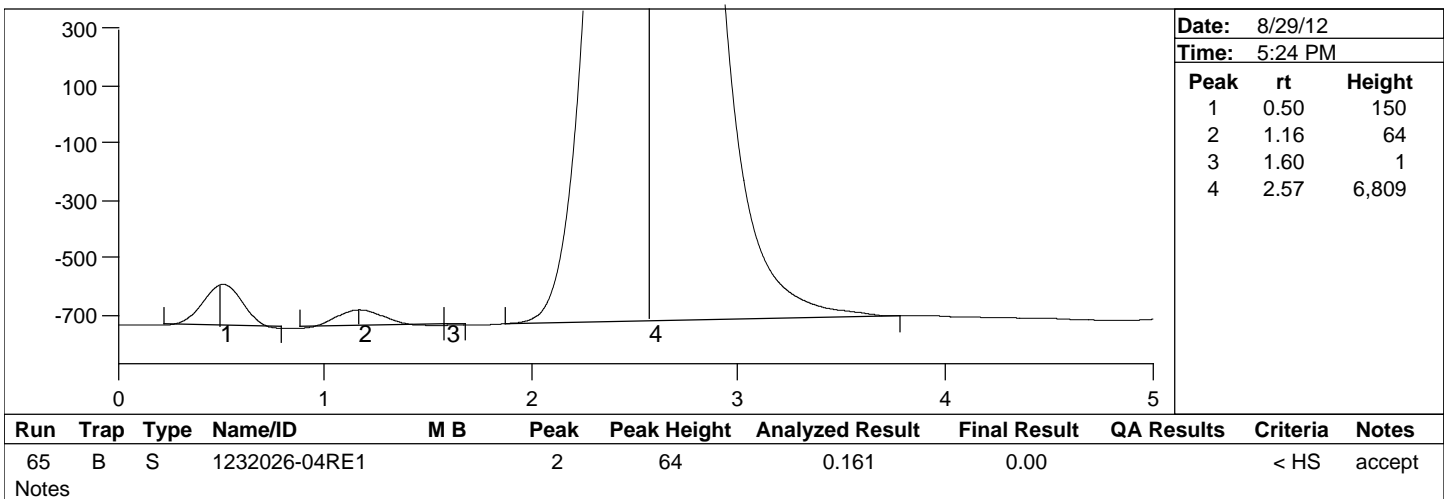
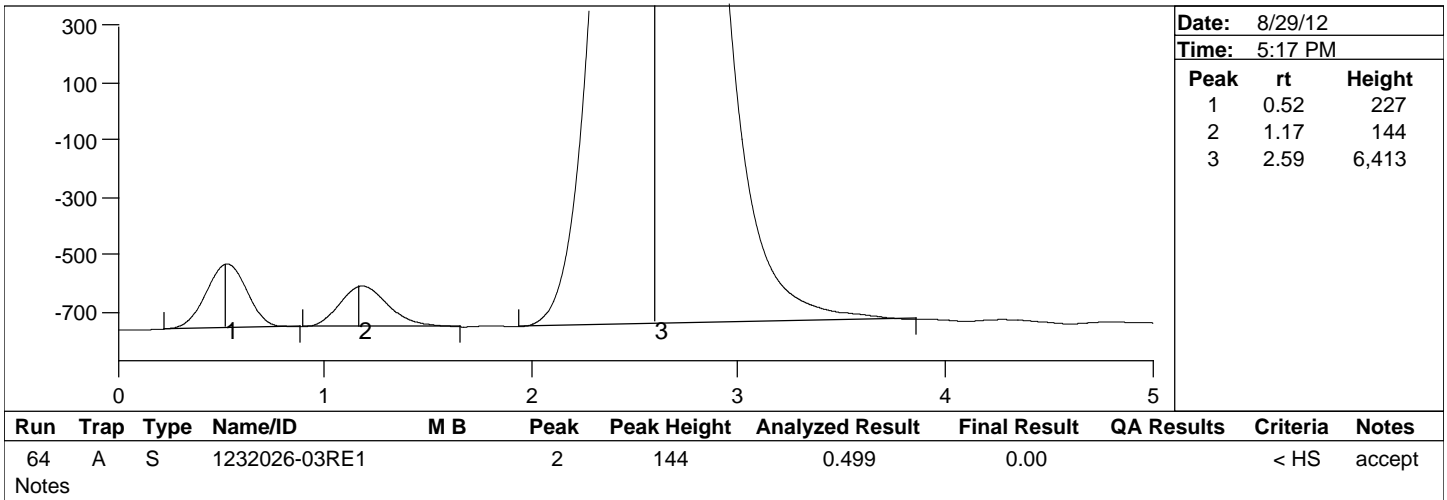


# Peak Report

Batch Number: B121520, 1488  
 Method Number: CVAFS BR-0011

Project Number(s): 1200672  
 Instrument ID: MMHG-09

Date Analyzed: 8/29/12  
 Analyst Name: AAP

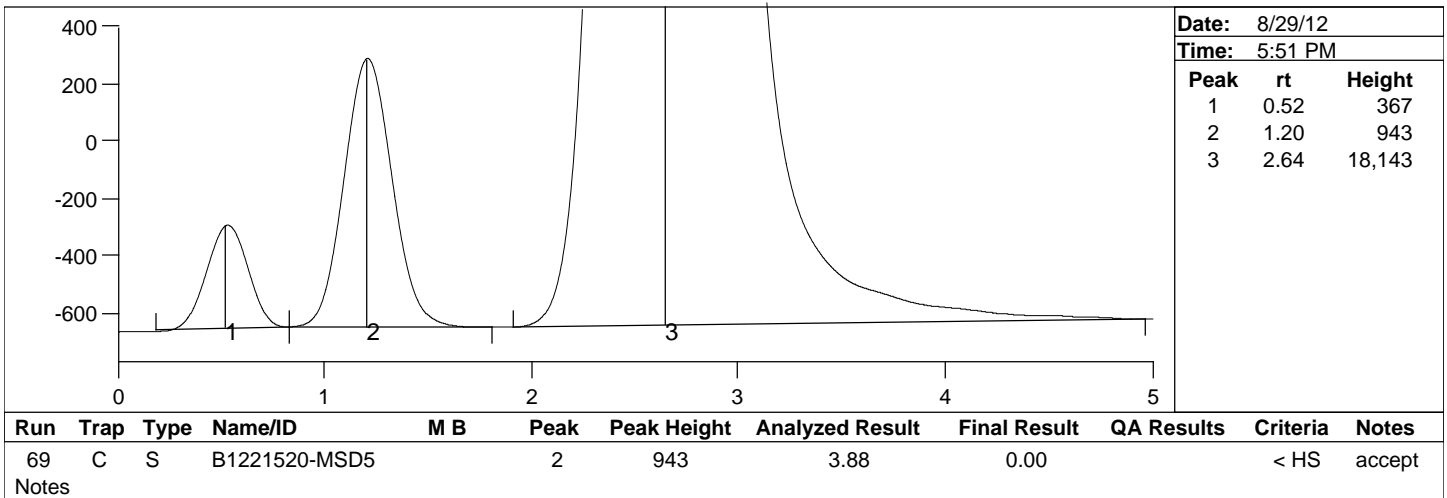
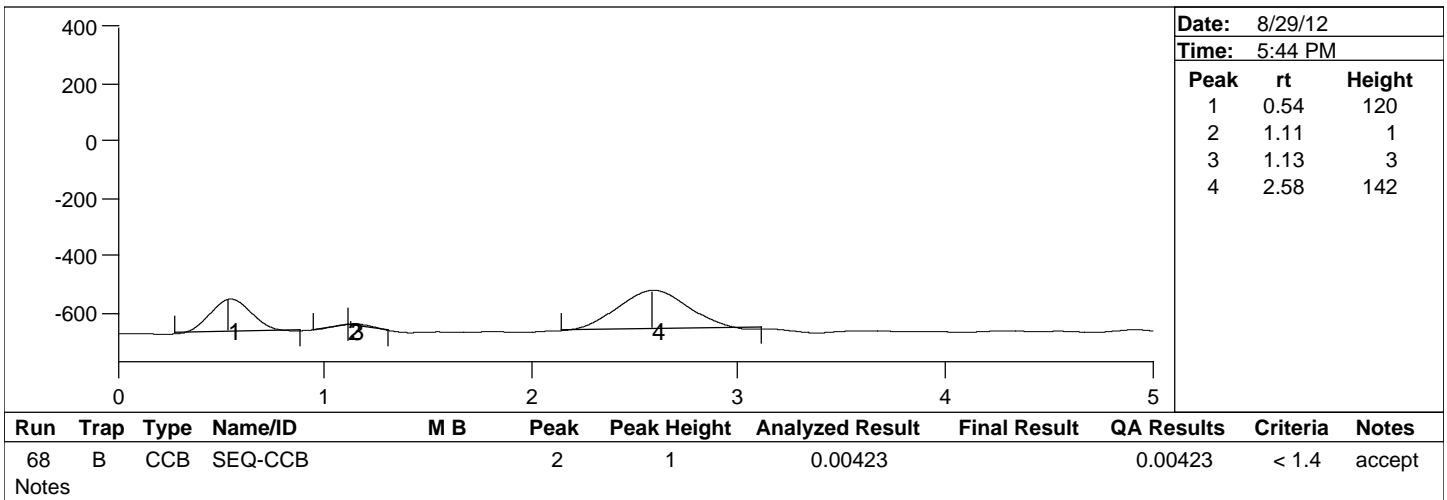
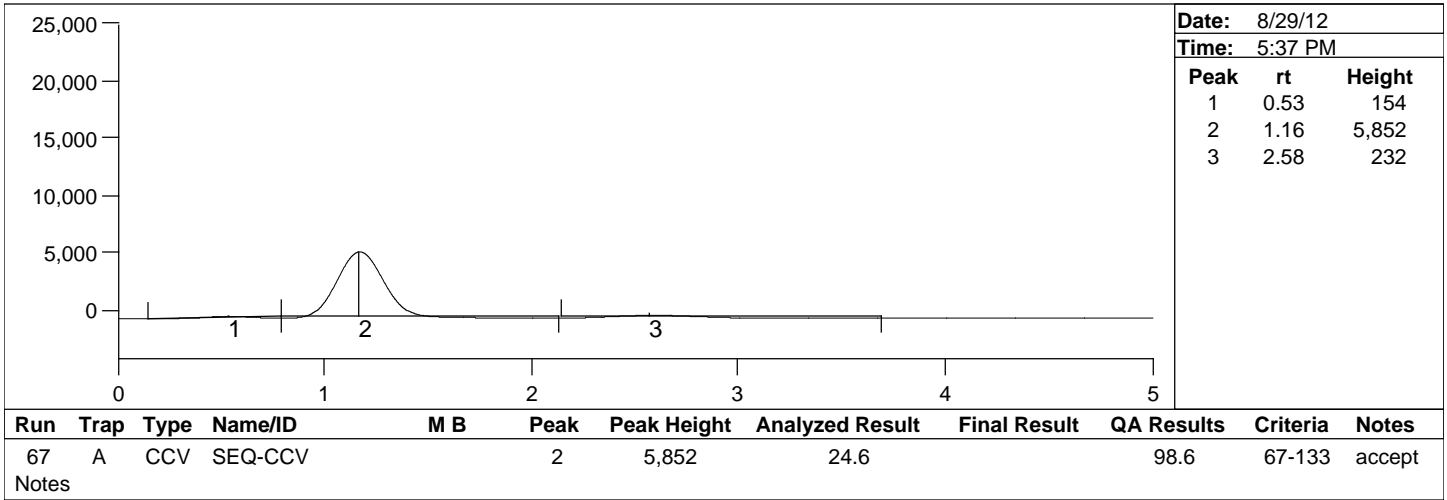


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Batch Number: B121520, 1488  
 Method Number: CVAFS BR-0011

Project Number(s): 1200672  
 Instrument ID: MMHG-09

Date Analyzed: 8/29/12  
 Analyst Name: AAP

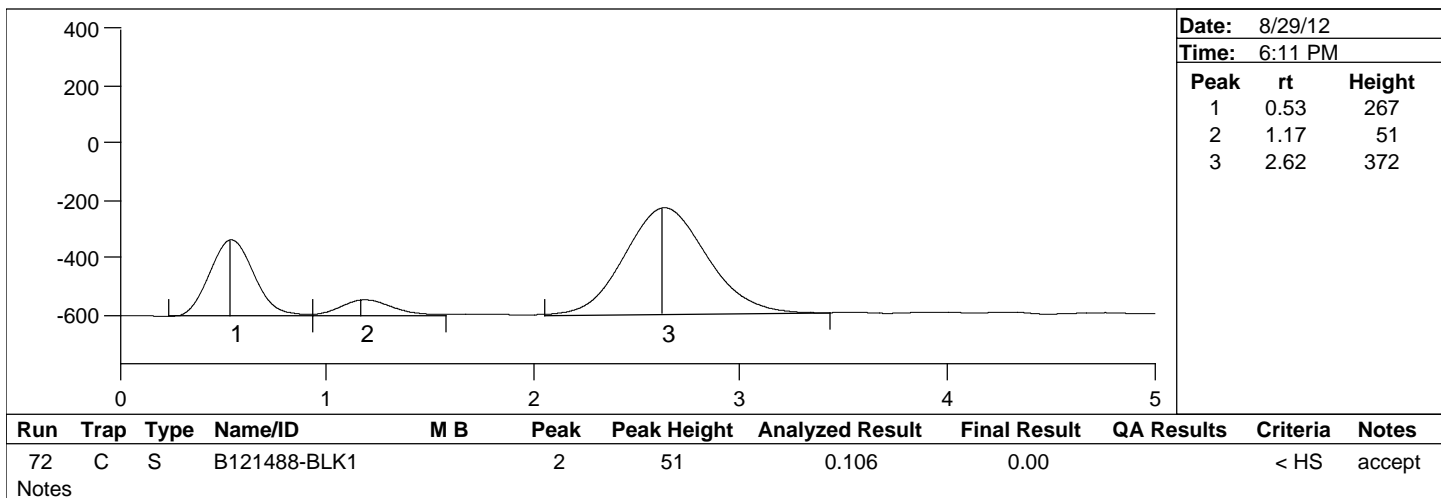
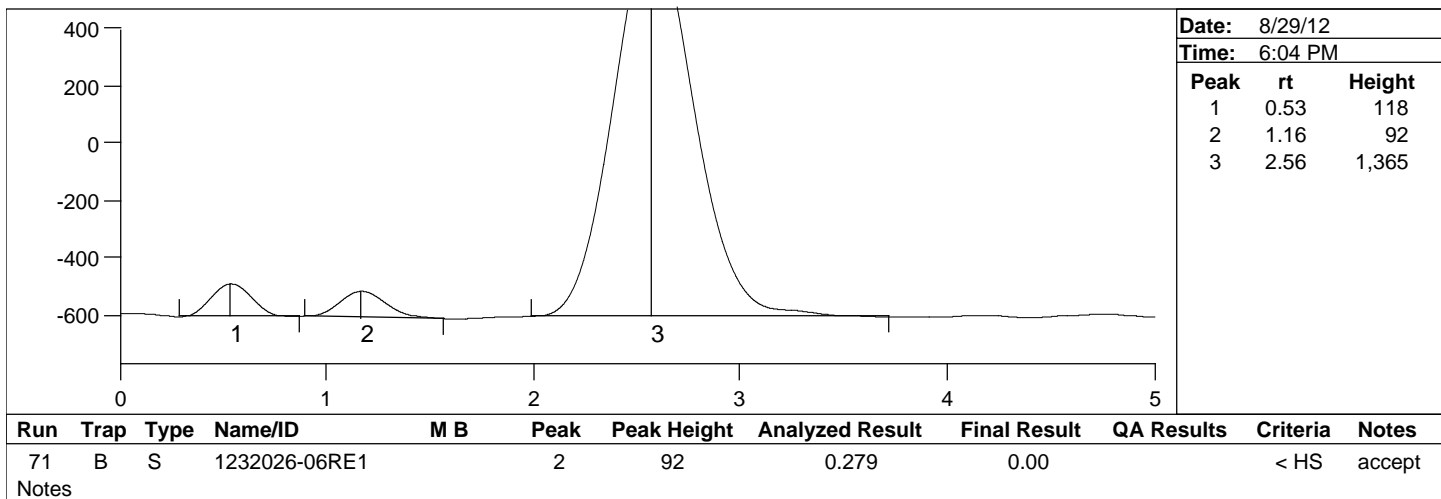
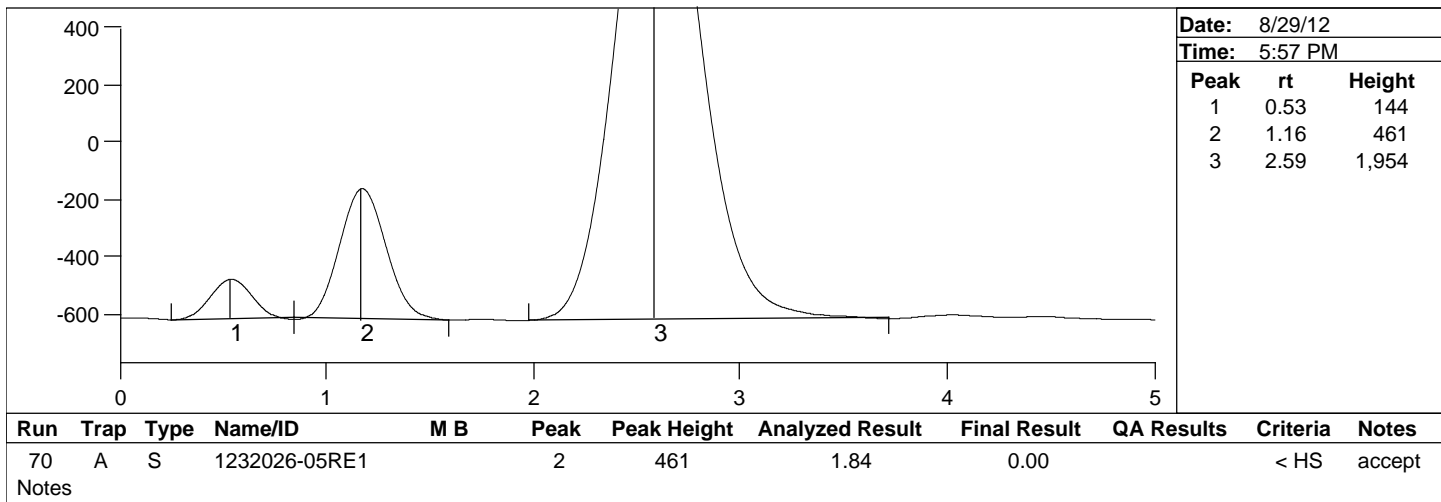


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Batch Number: B121520, 1488  
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Date Analyzed: 8/29/12  
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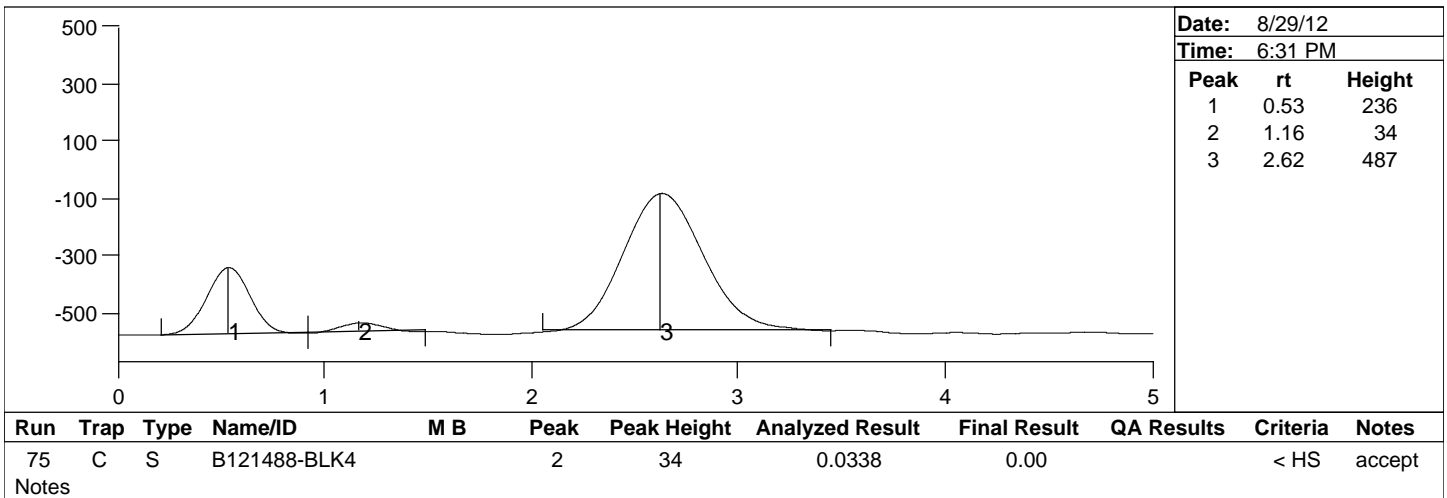
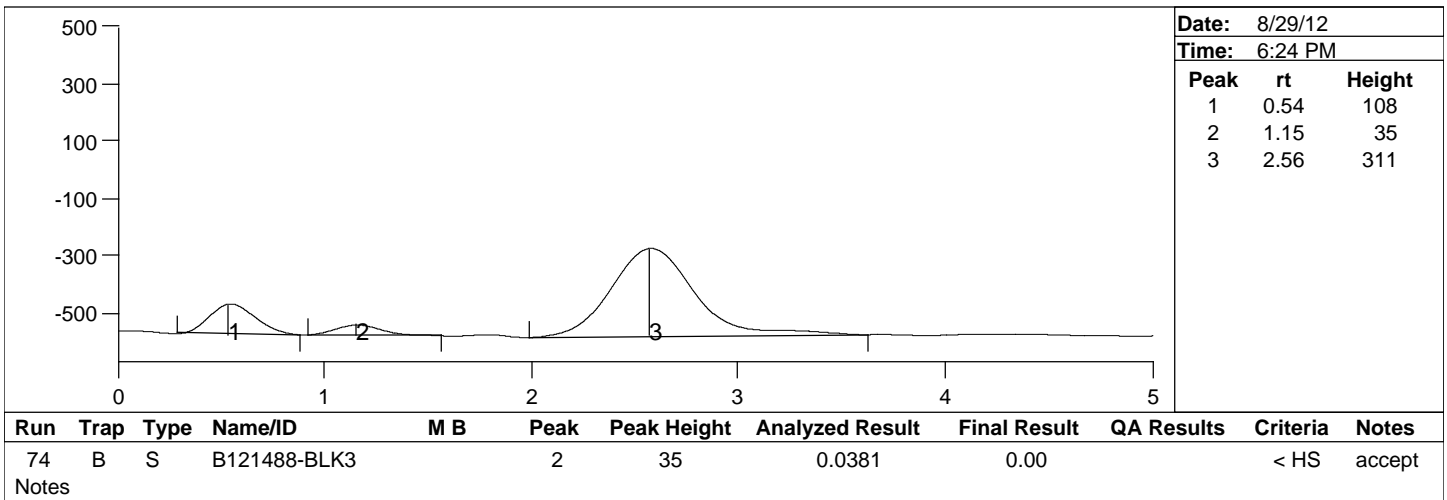
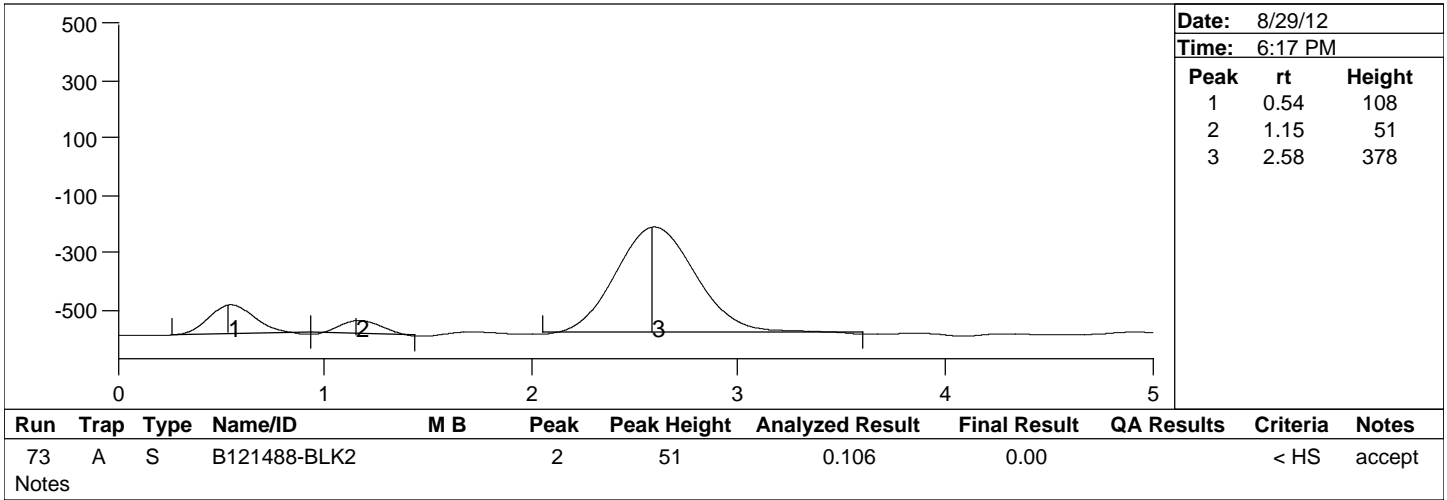


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Batch Number: B121520, 1488  
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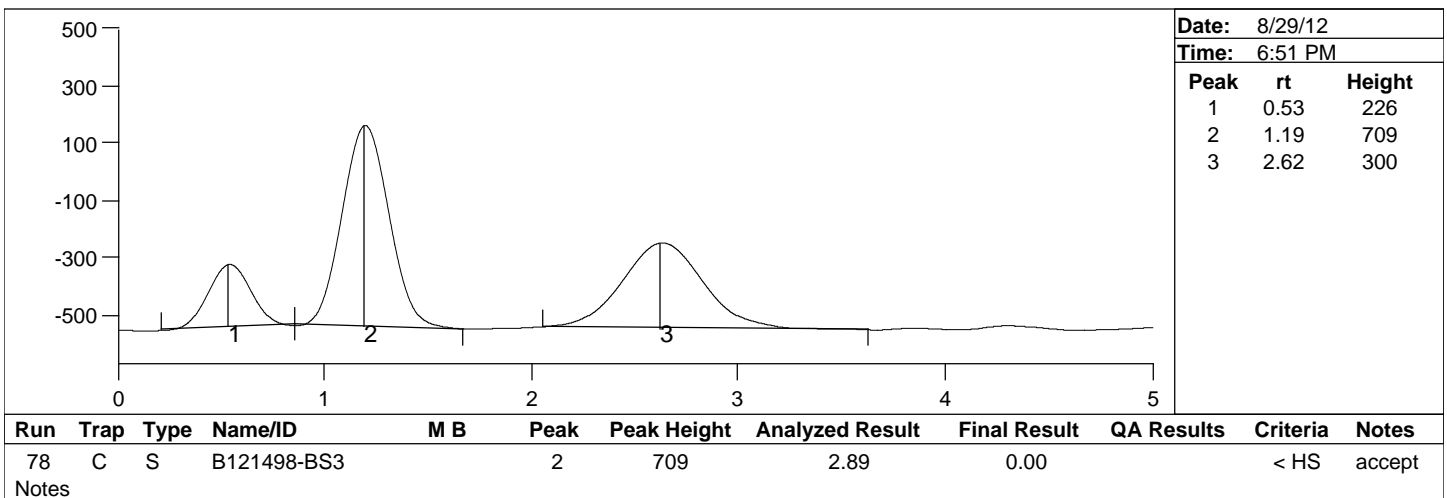
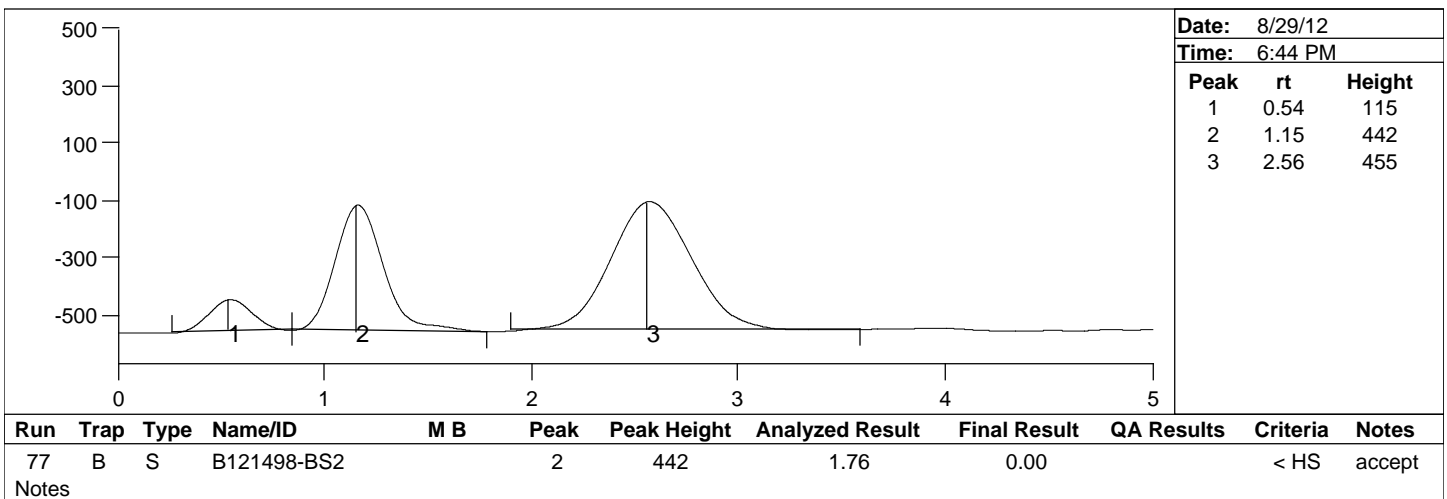
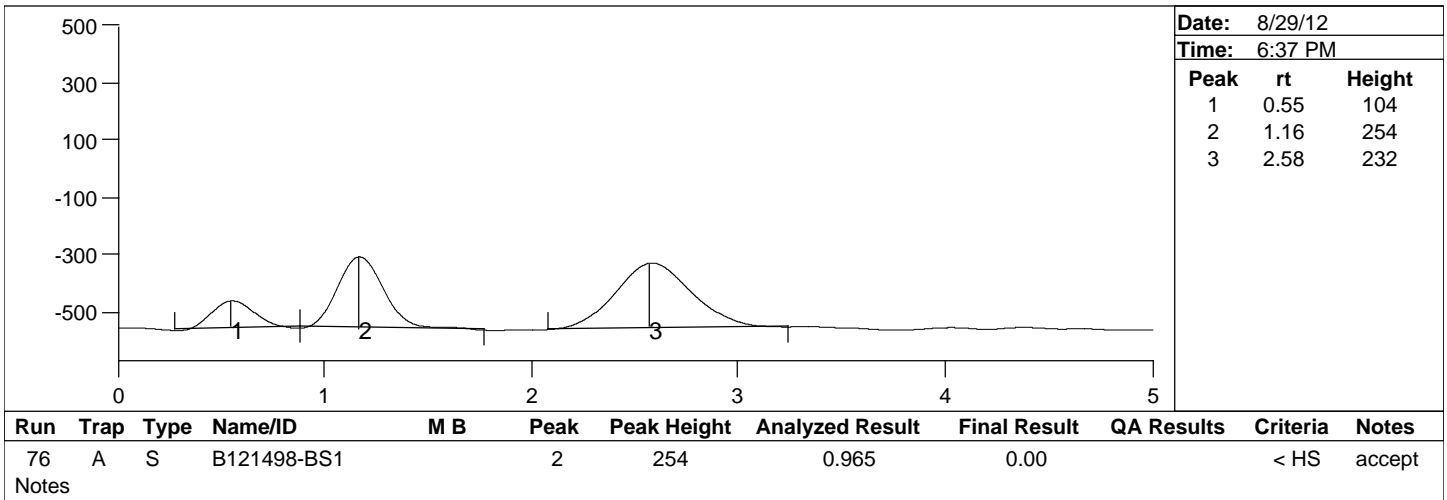


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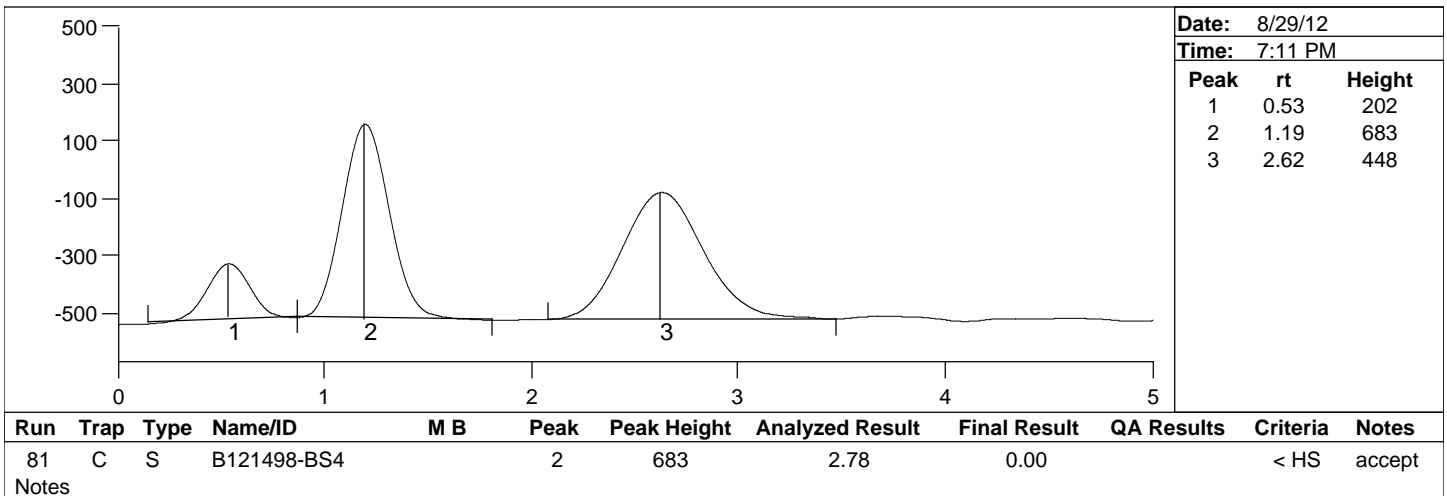
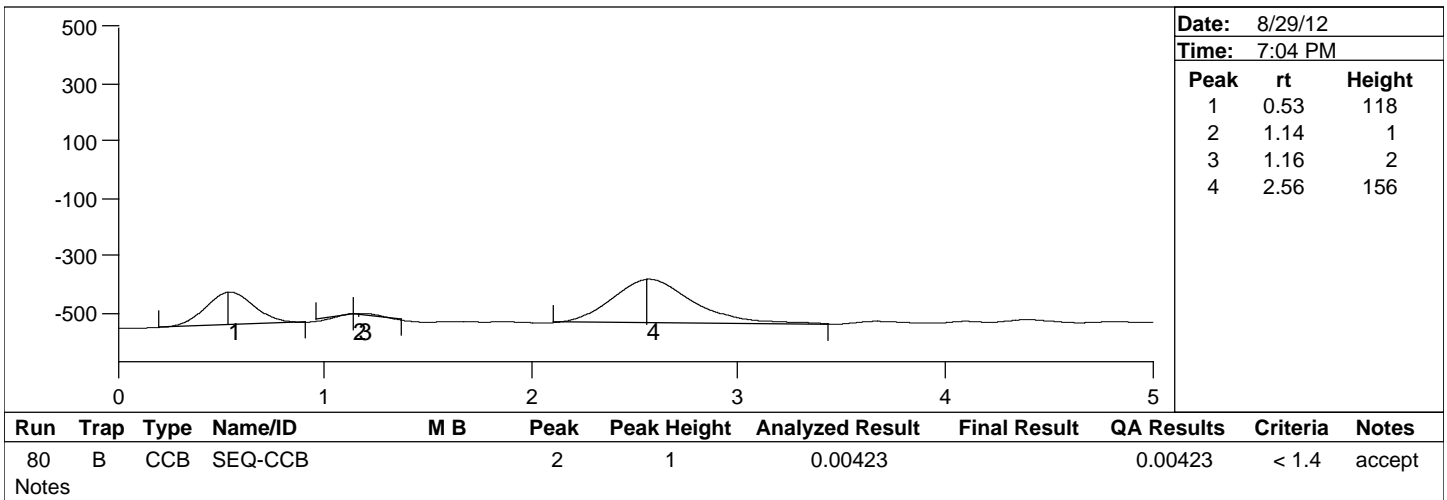
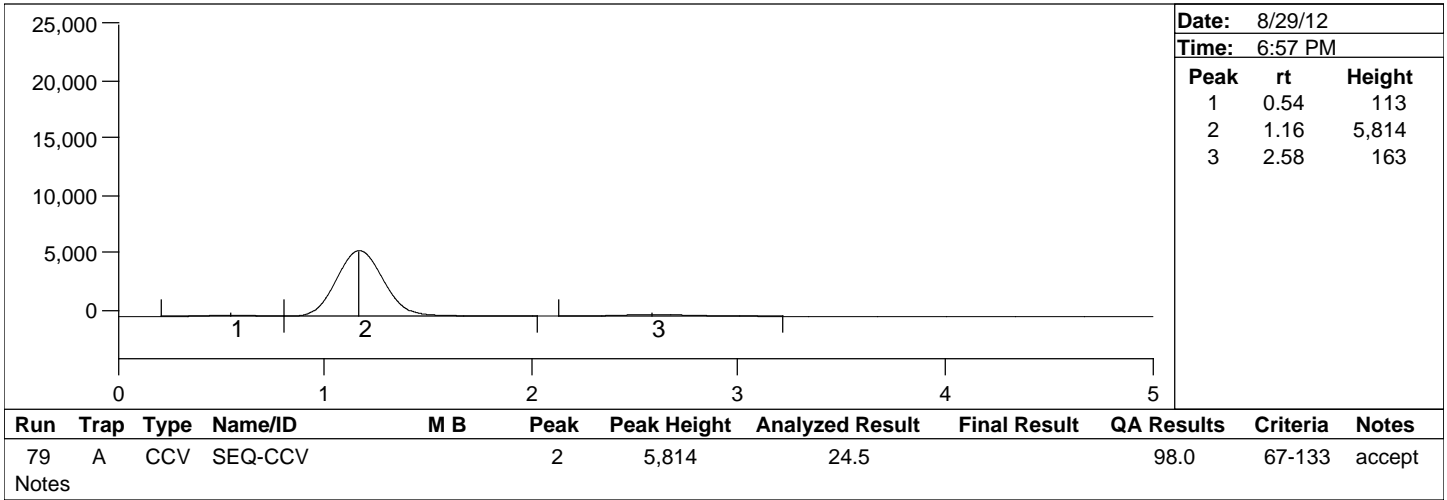


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Batch Number: B121520, 1488  
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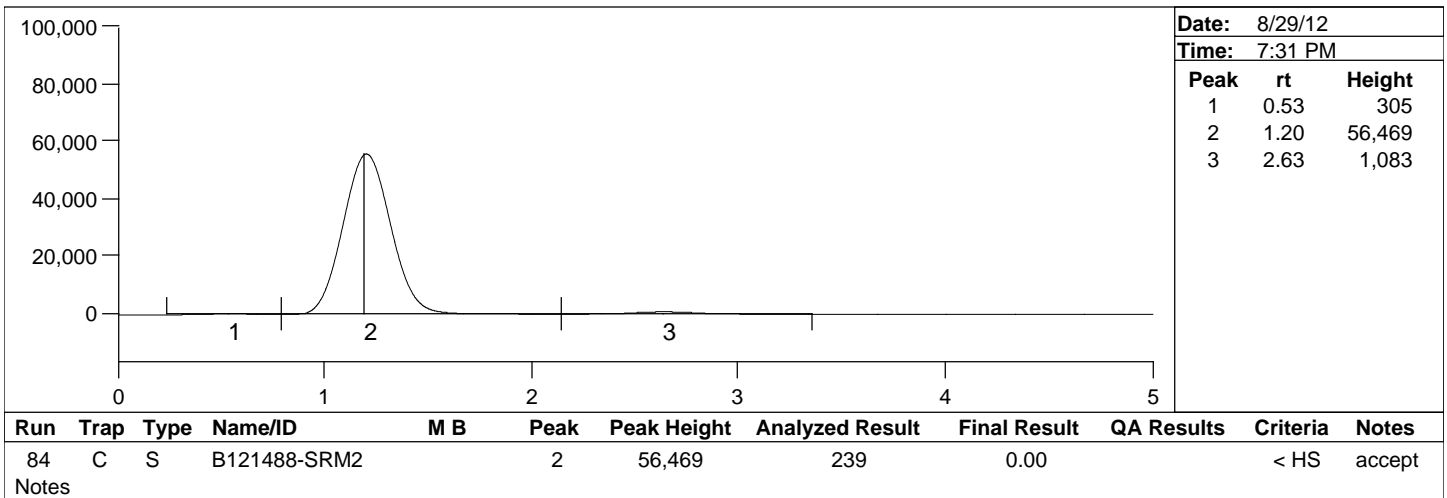
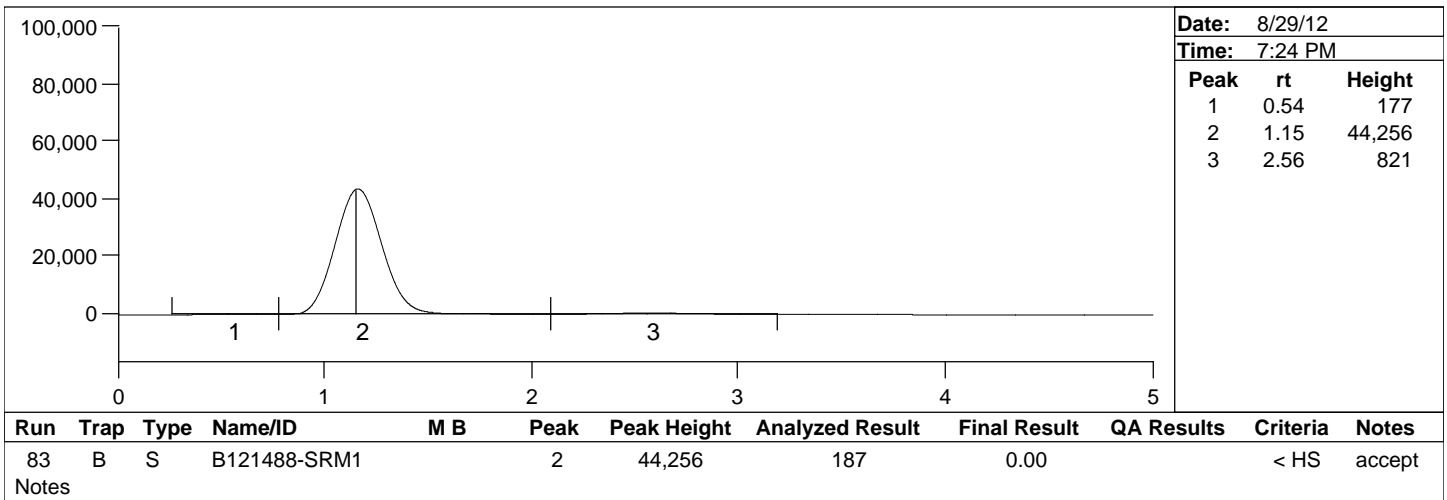
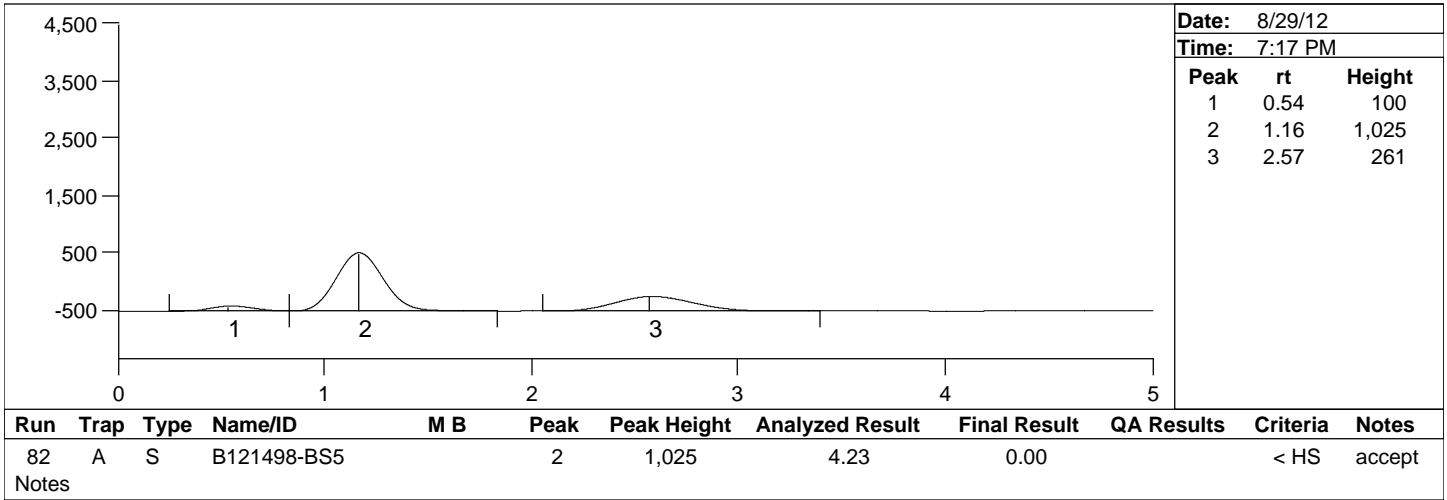


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Project Number(s): 1200672  
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Date Analyzed: 8/29/12  
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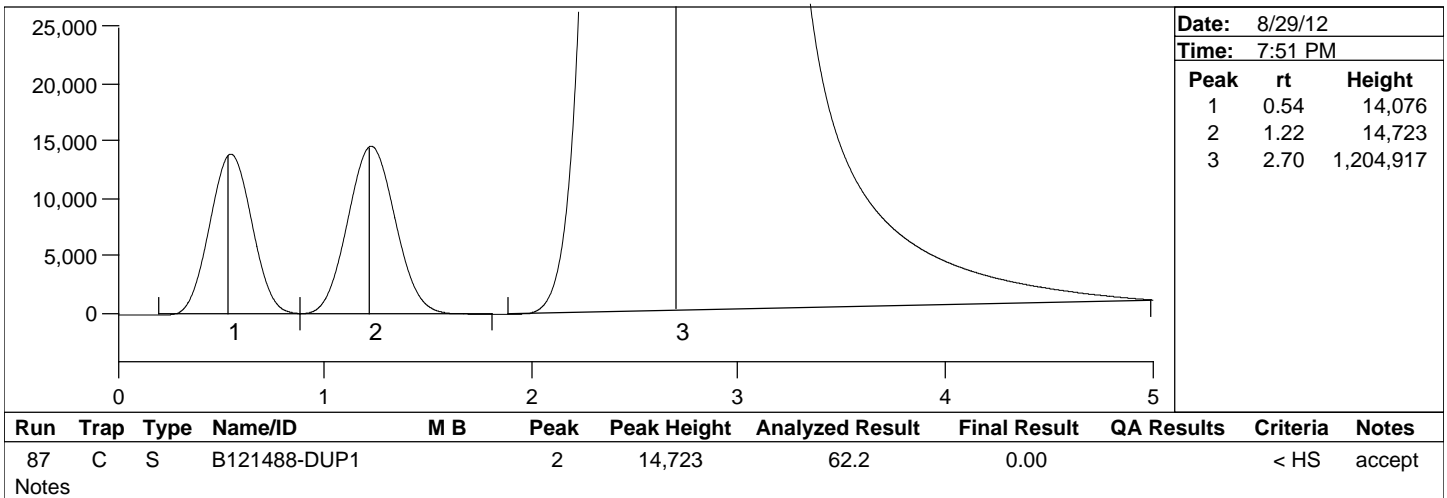
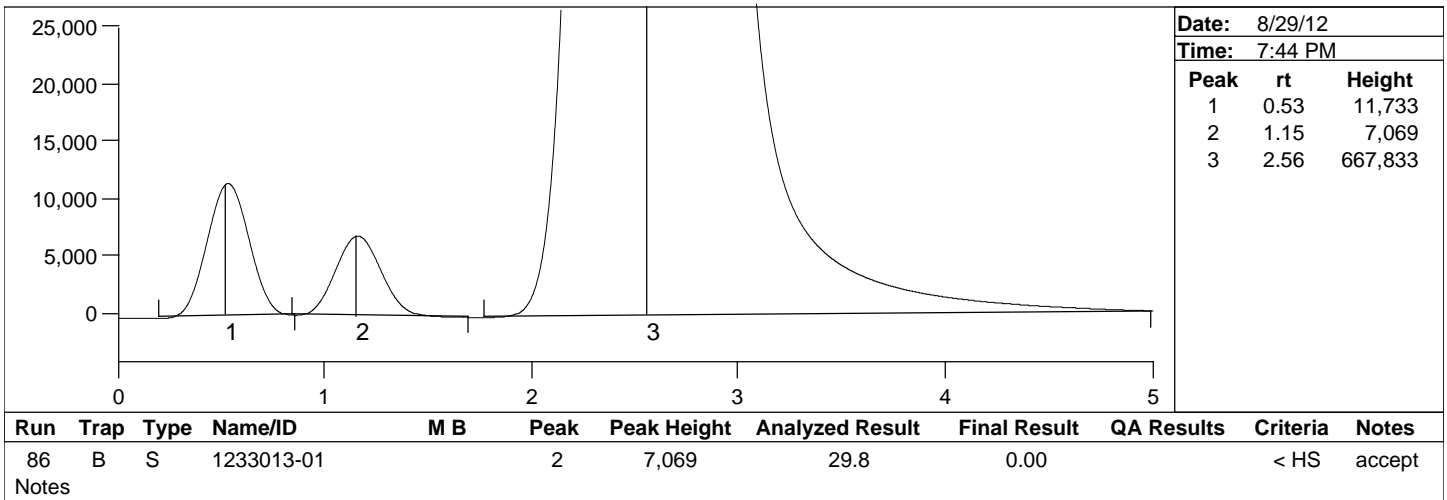
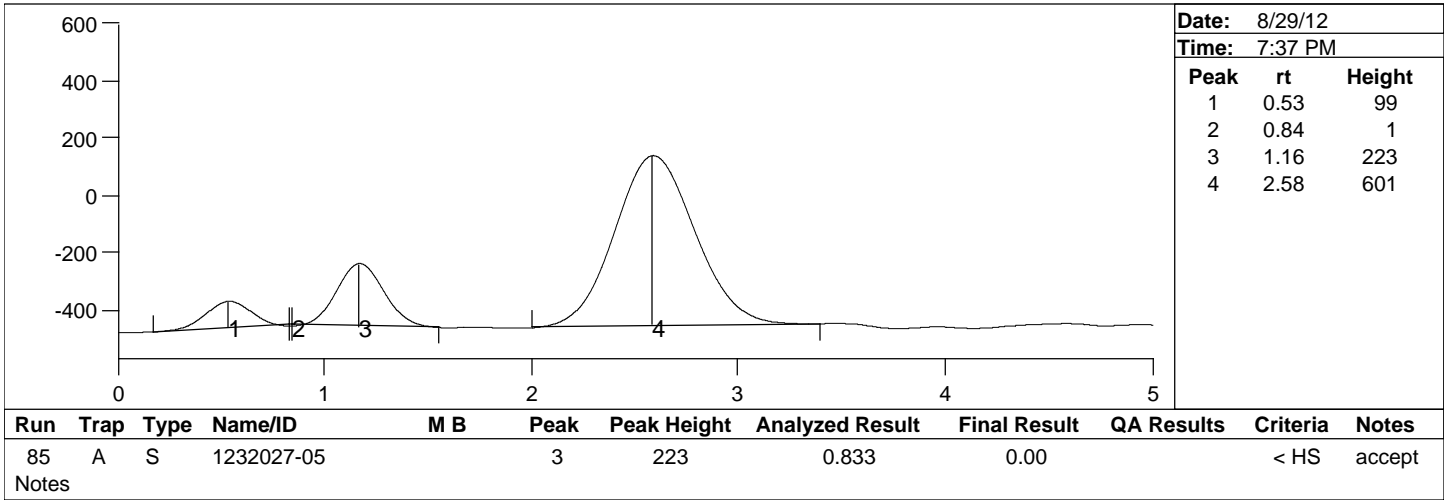


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Batch Number: B121520, 1488  
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Project Number(s): 1200672  
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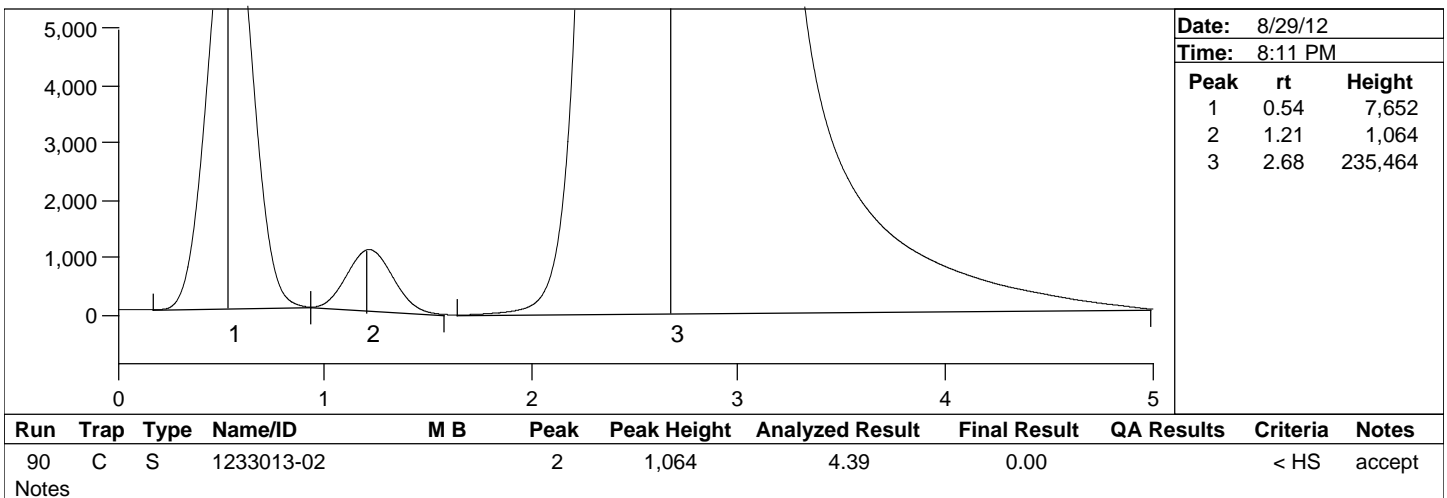
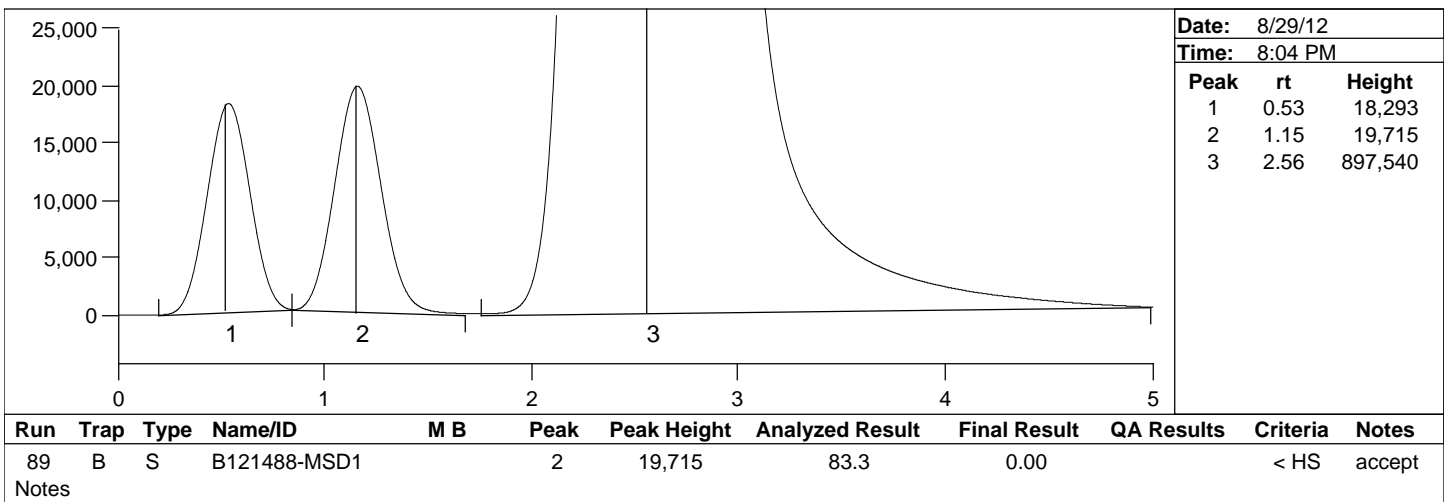
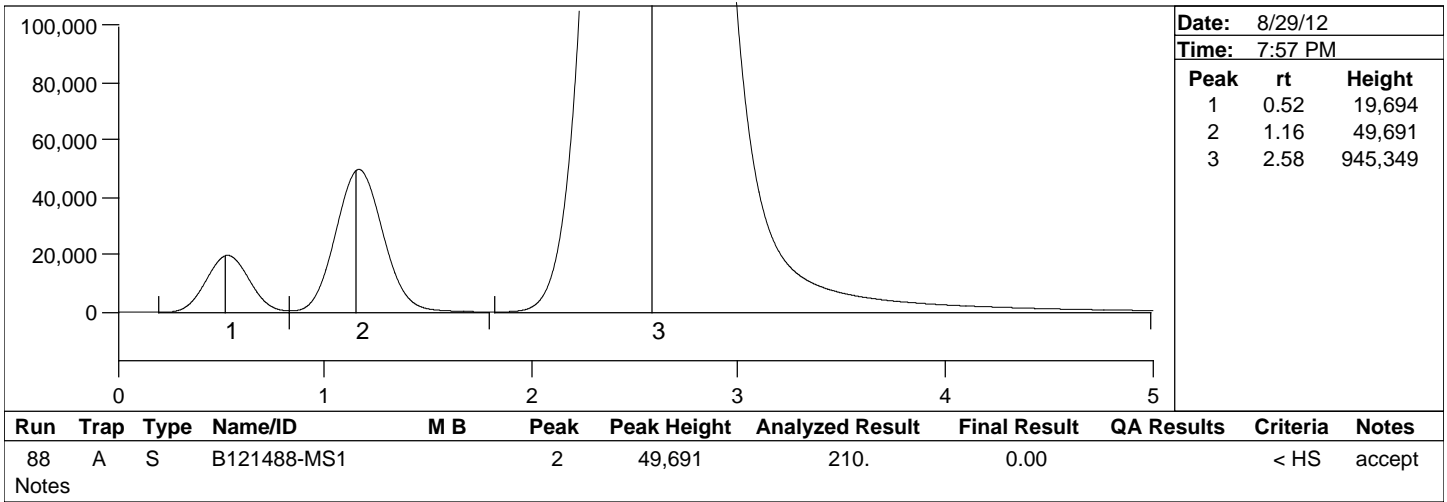


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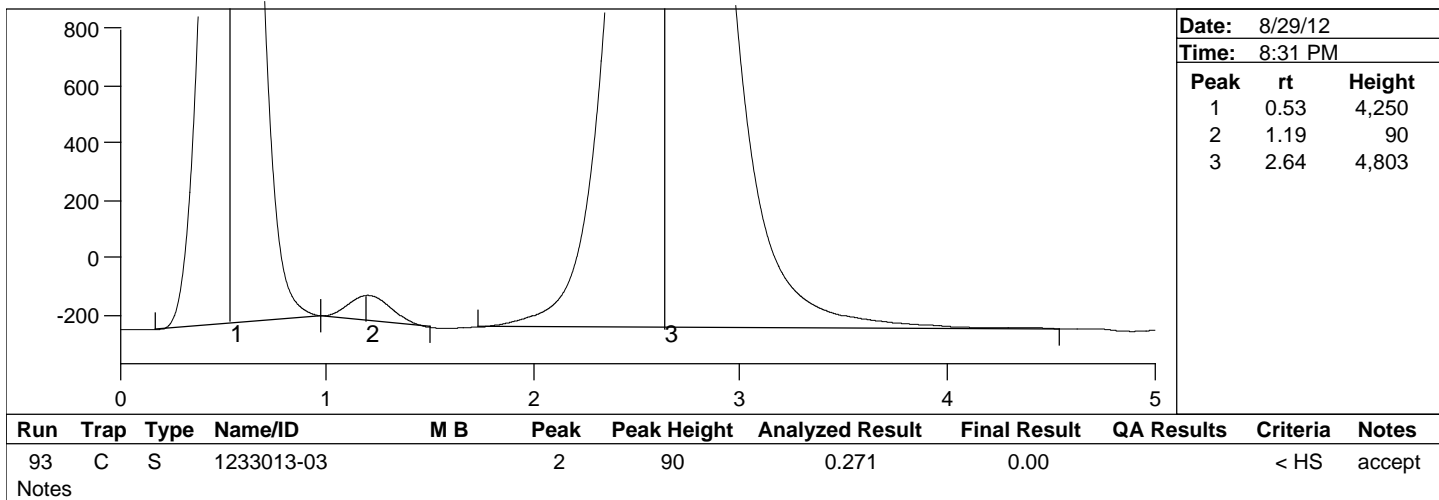
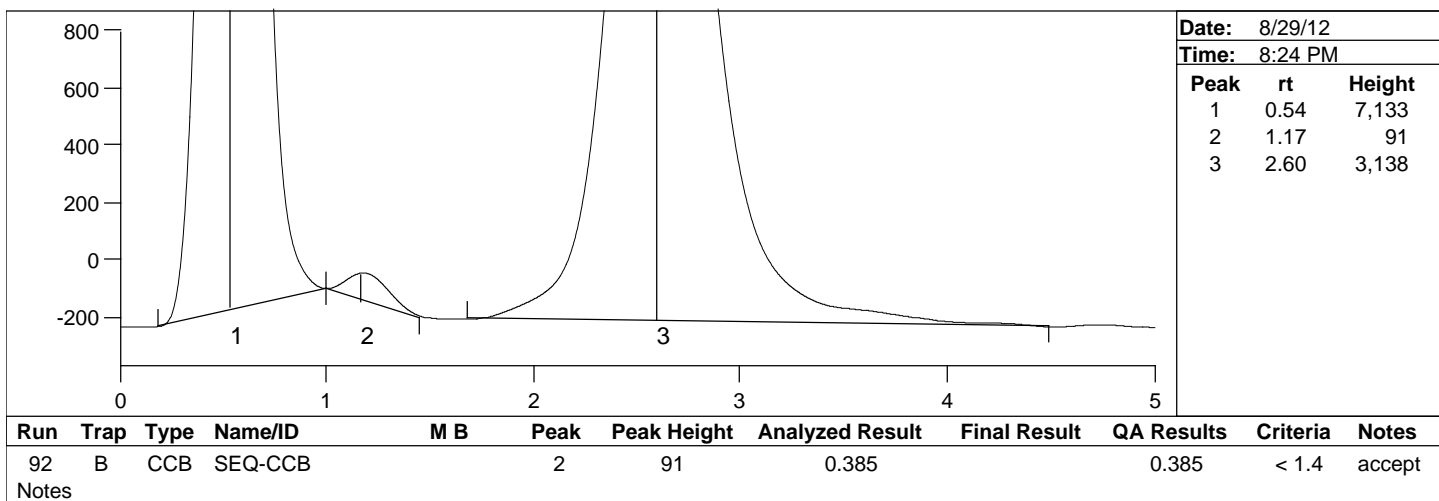
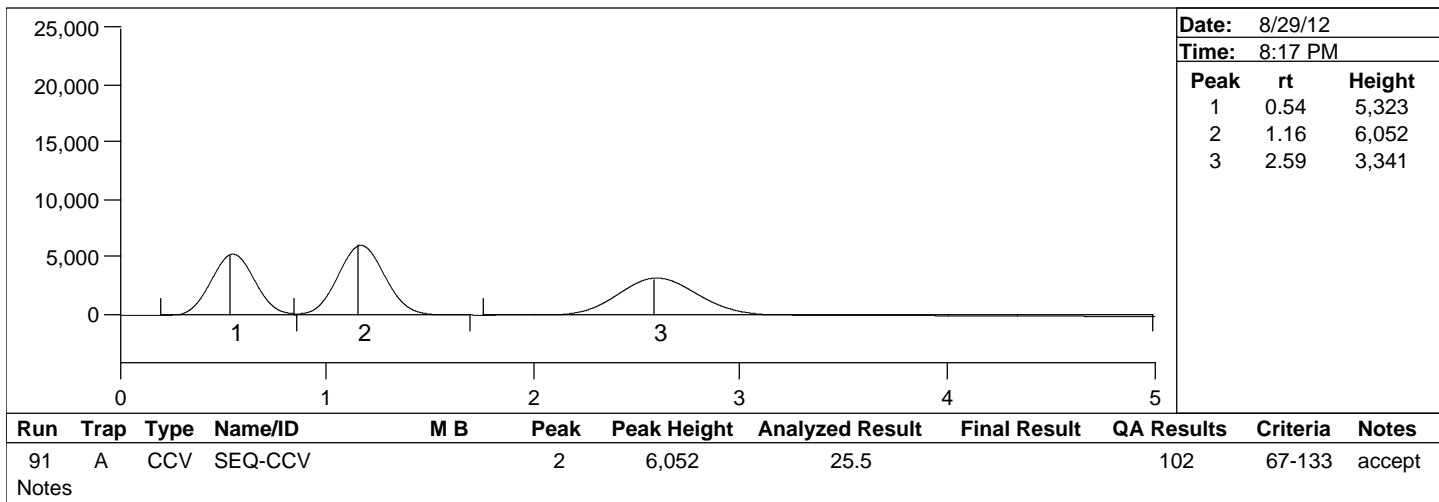


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Project Number(s): 1200672  
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Date Analyzed: 8/29/12  
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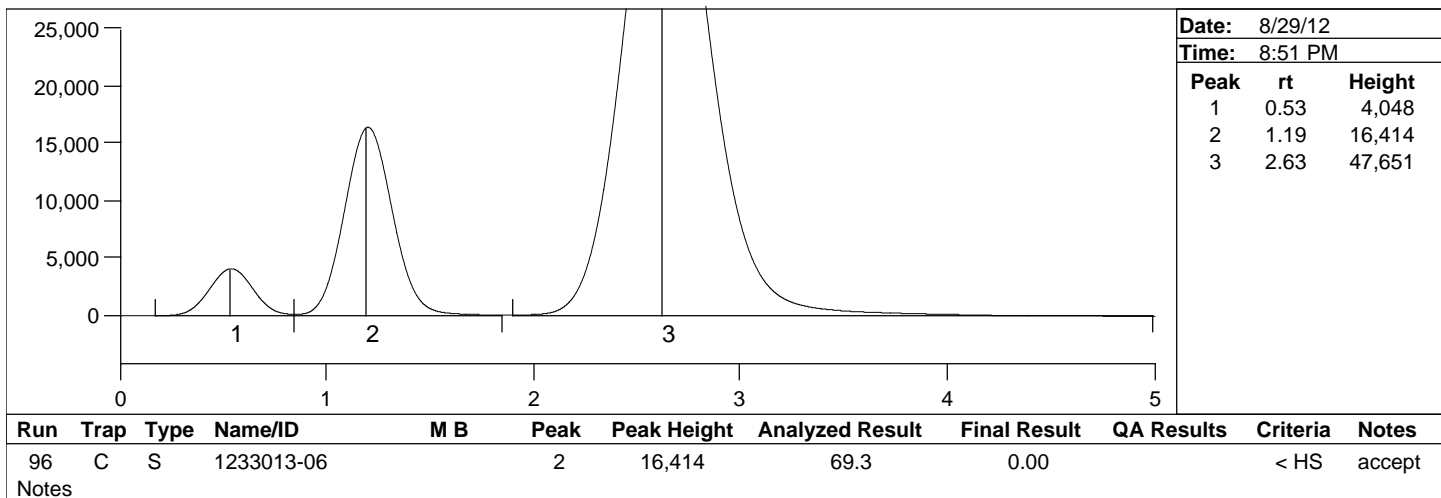
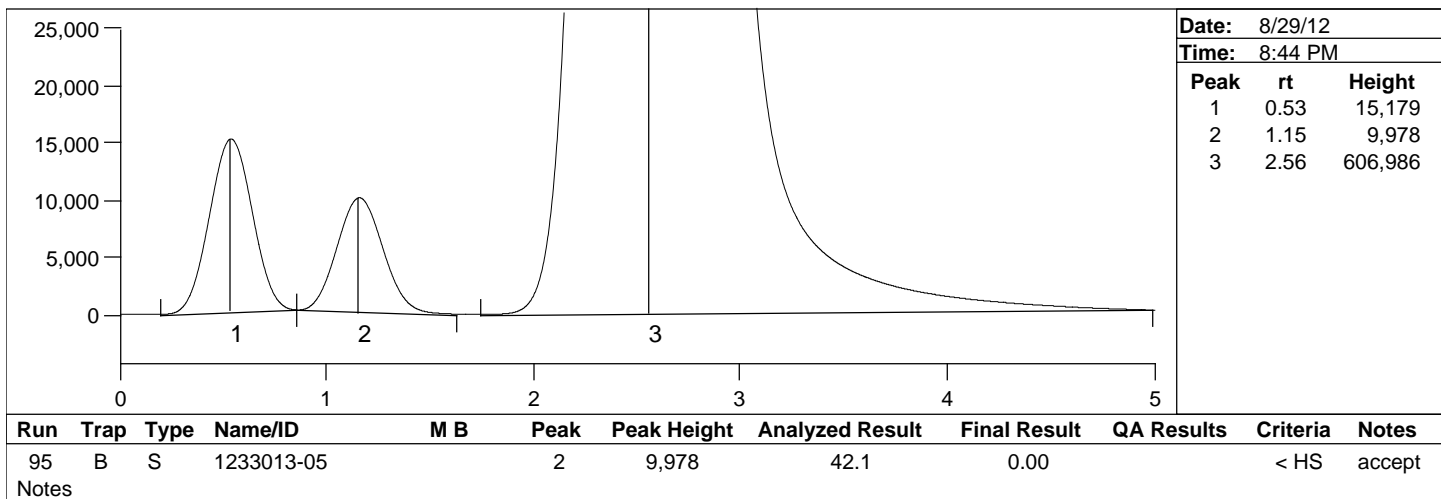
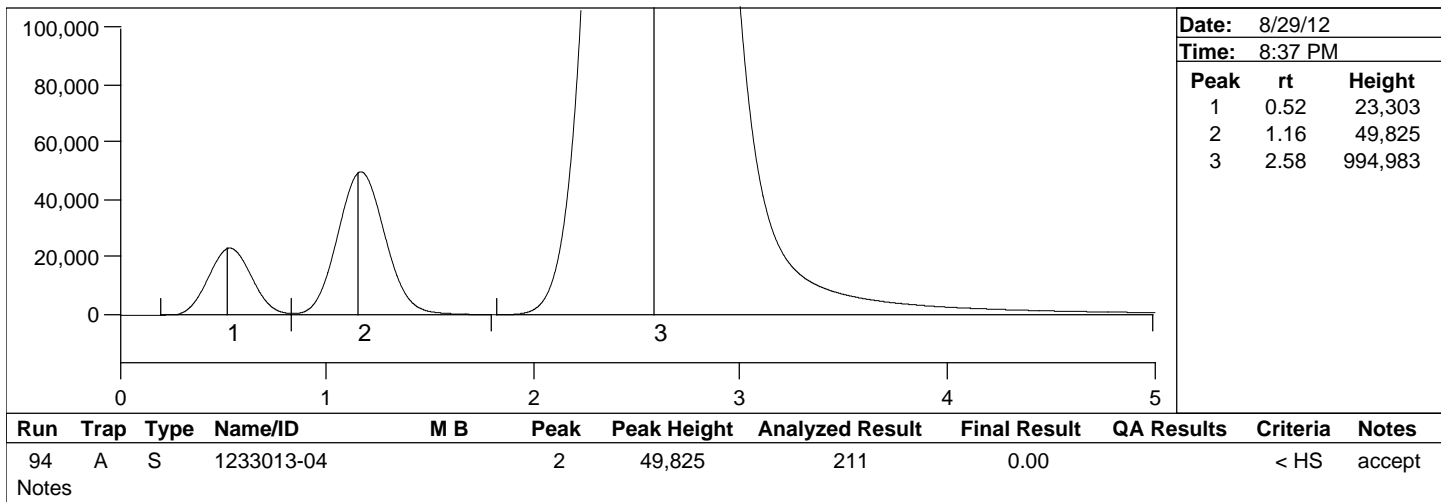


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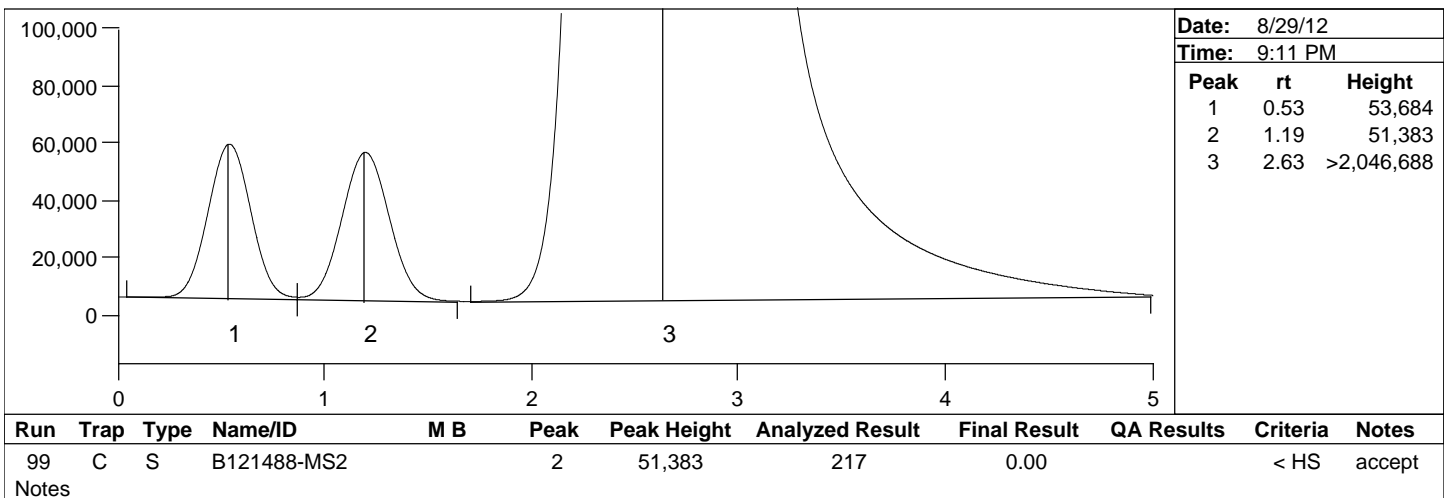
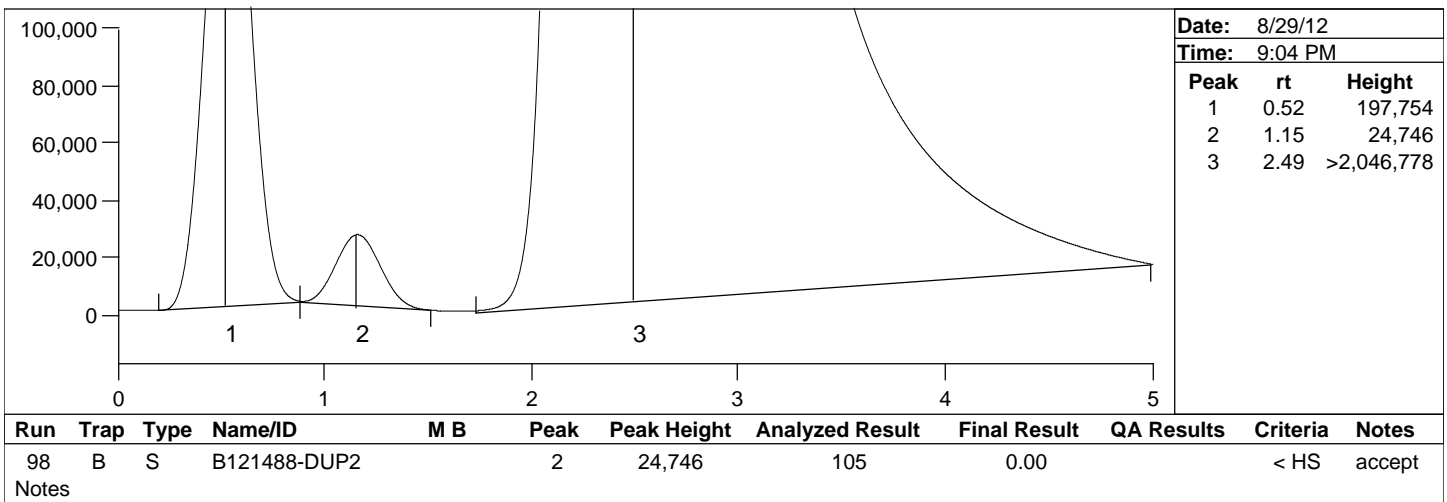
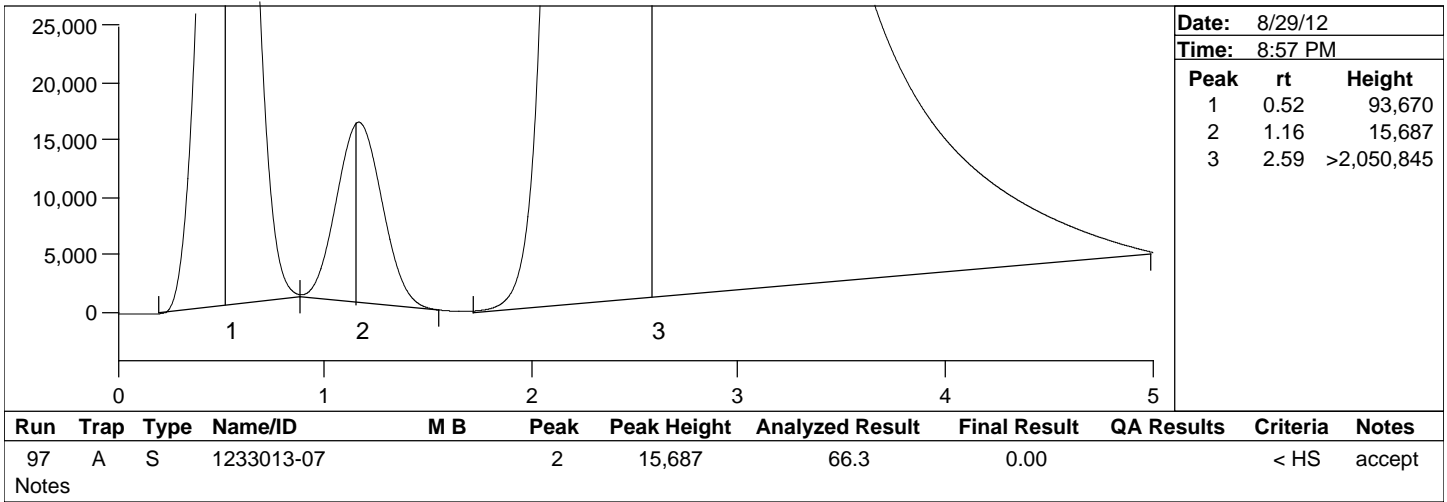


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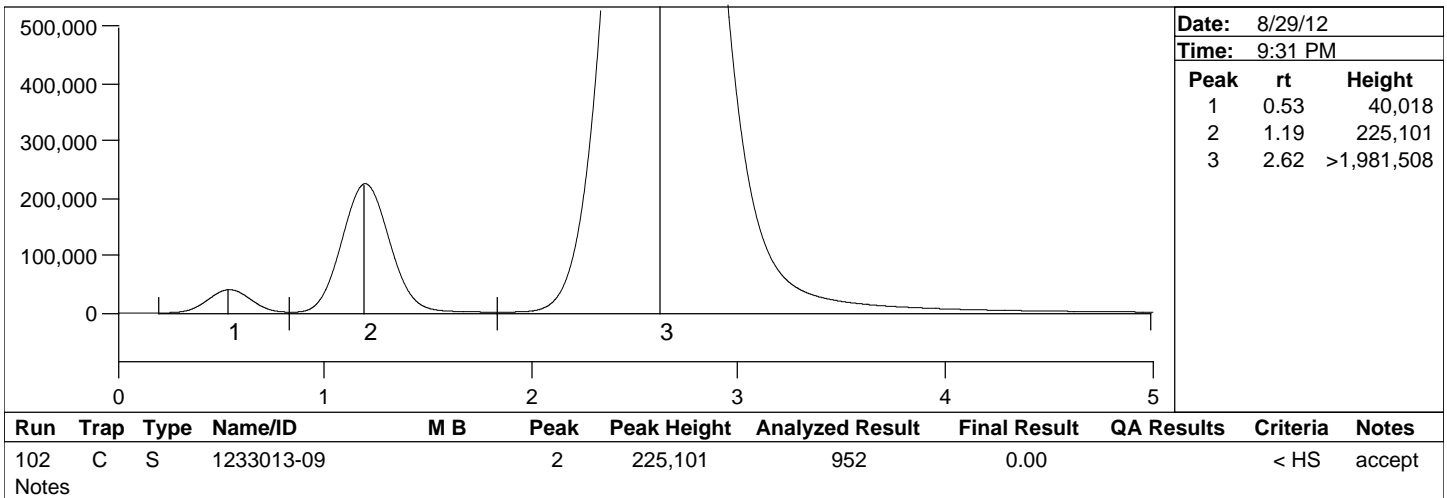
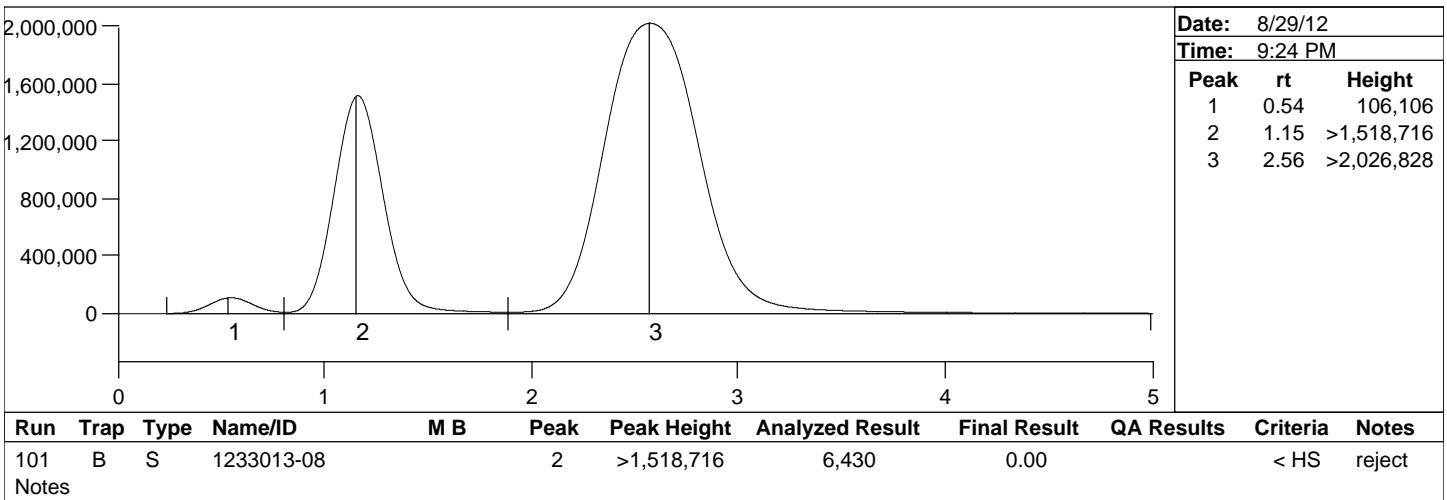
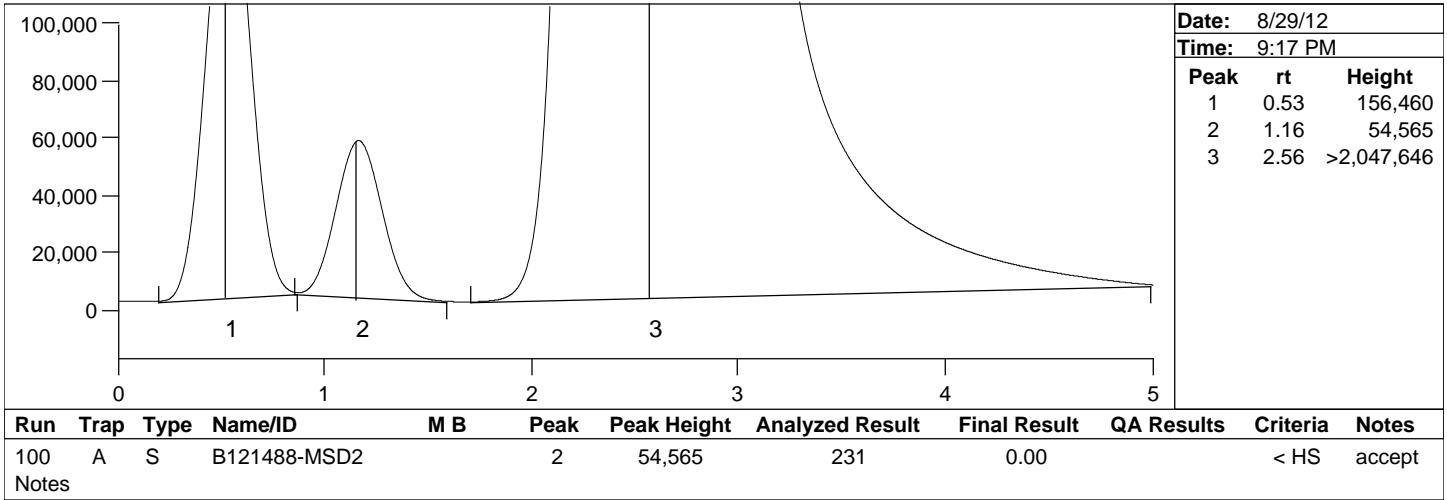


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Project Number(s): 1200672  
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Date Analyzed: 8/29/12  
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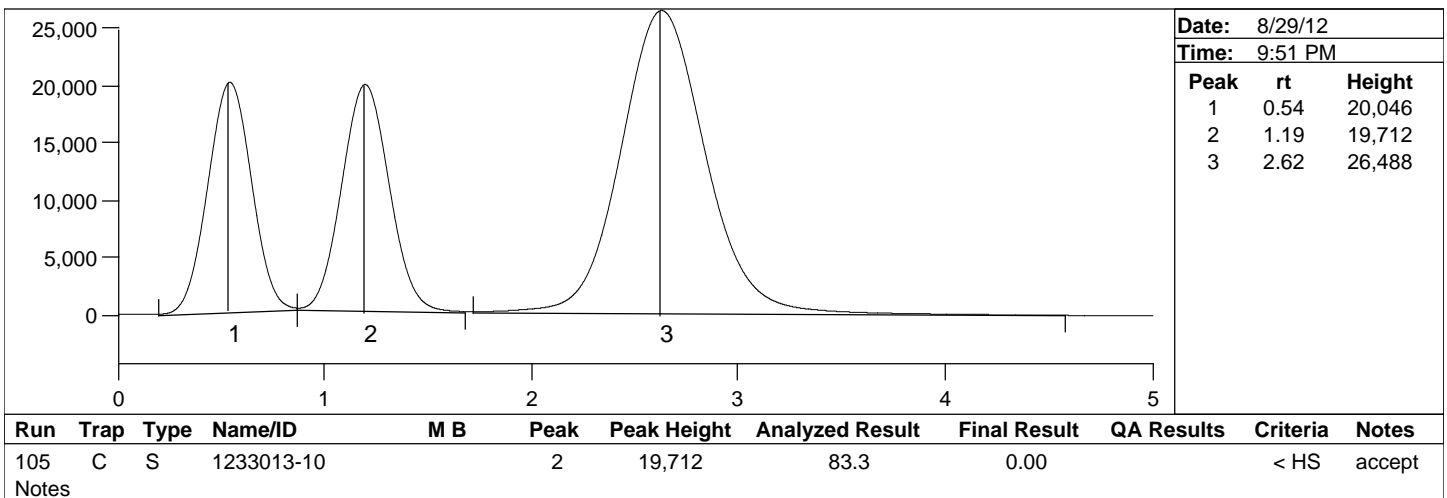
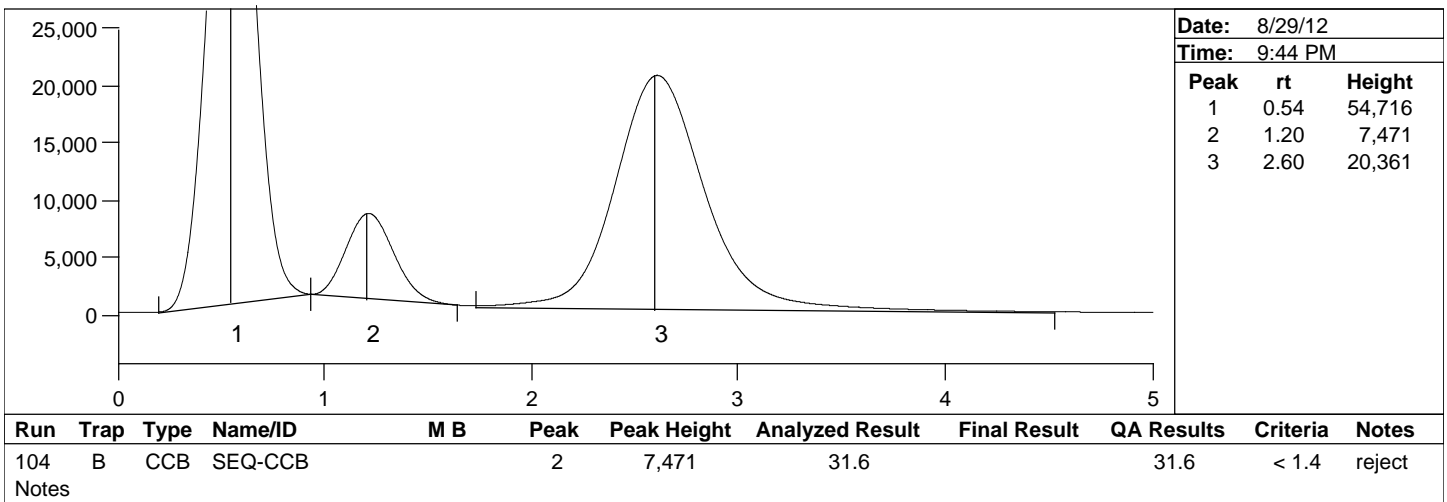
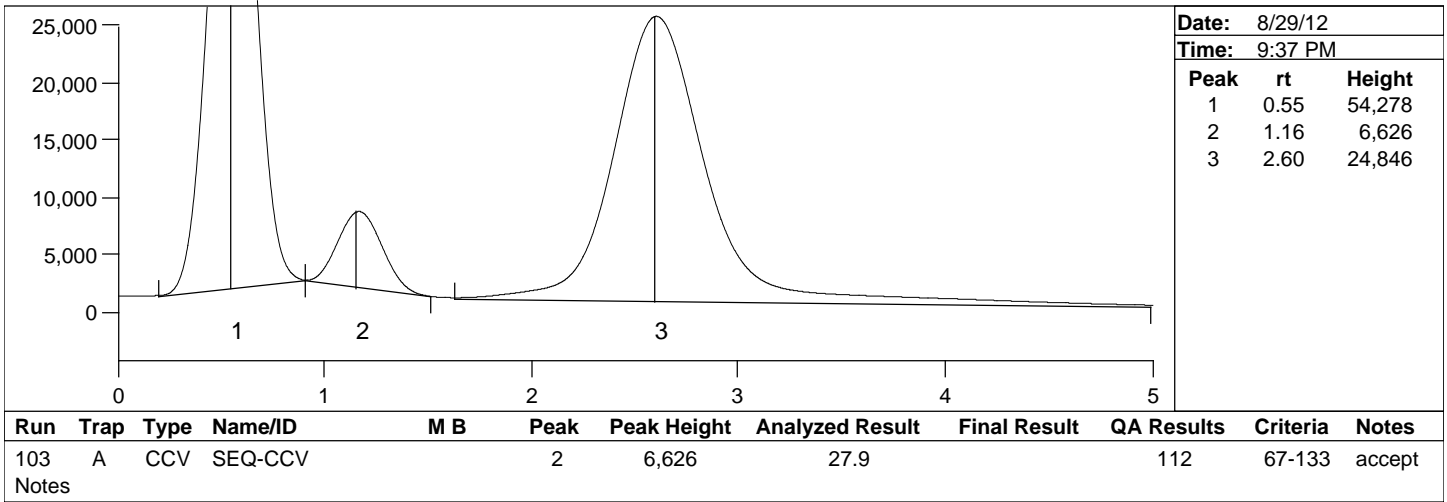


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Project Number(s): 1200672  
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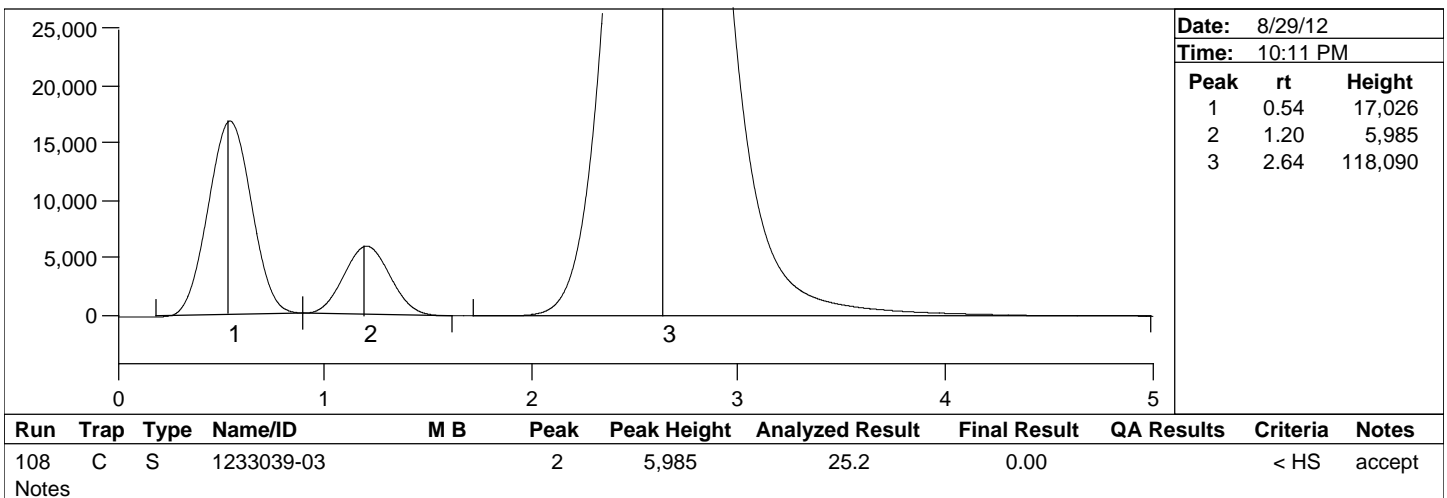
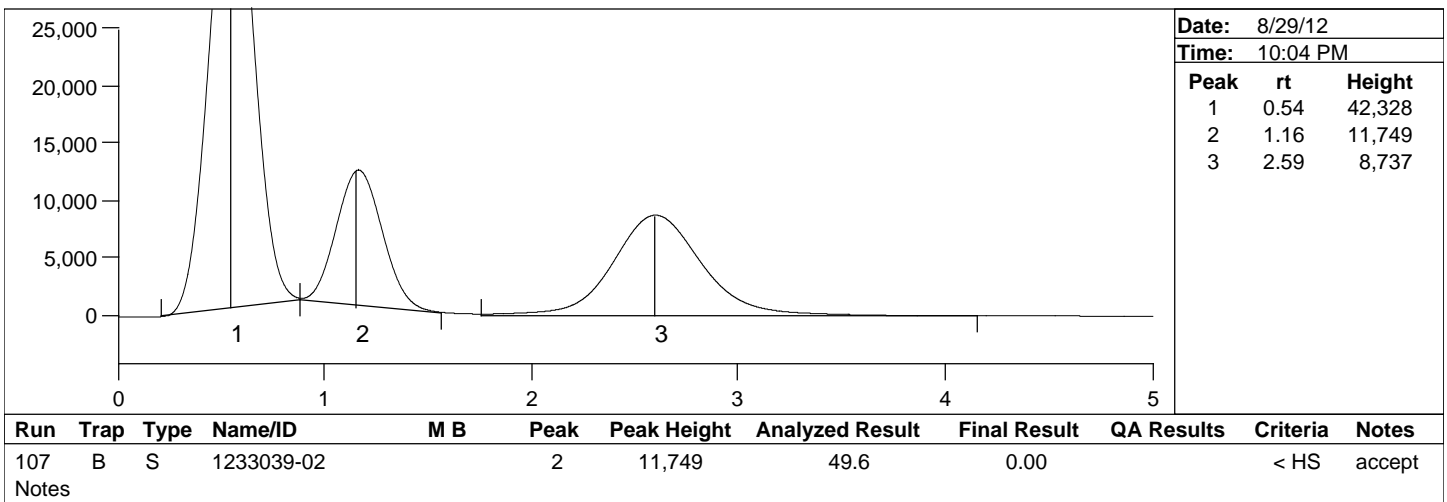
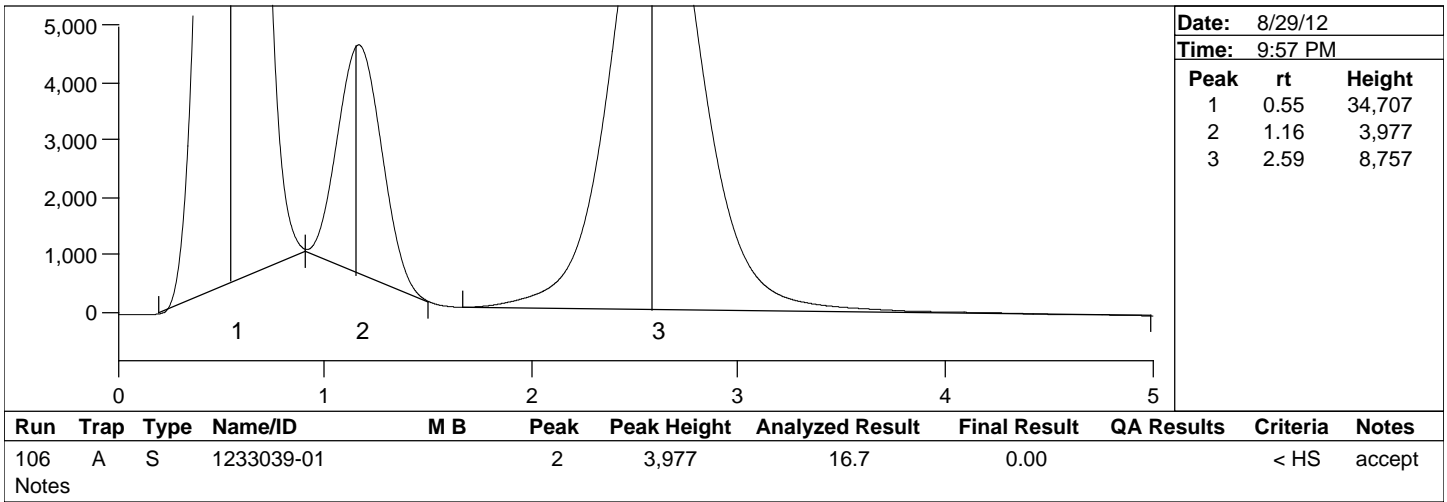


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 Method Number: CVAFS BR-0011

Project Number(s): 1200672  
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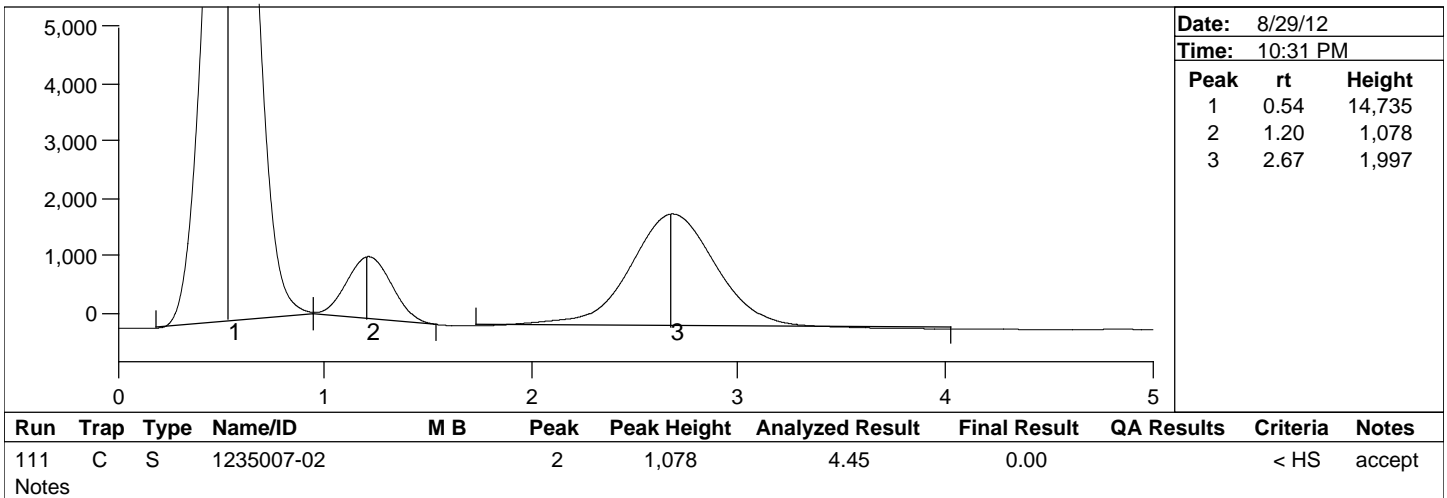
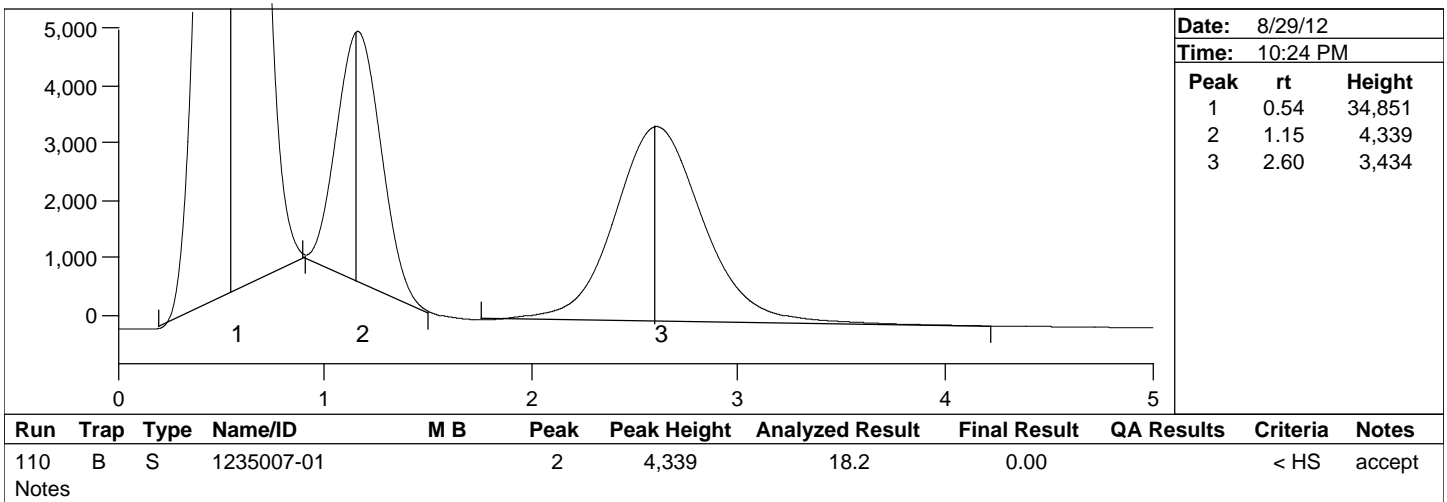
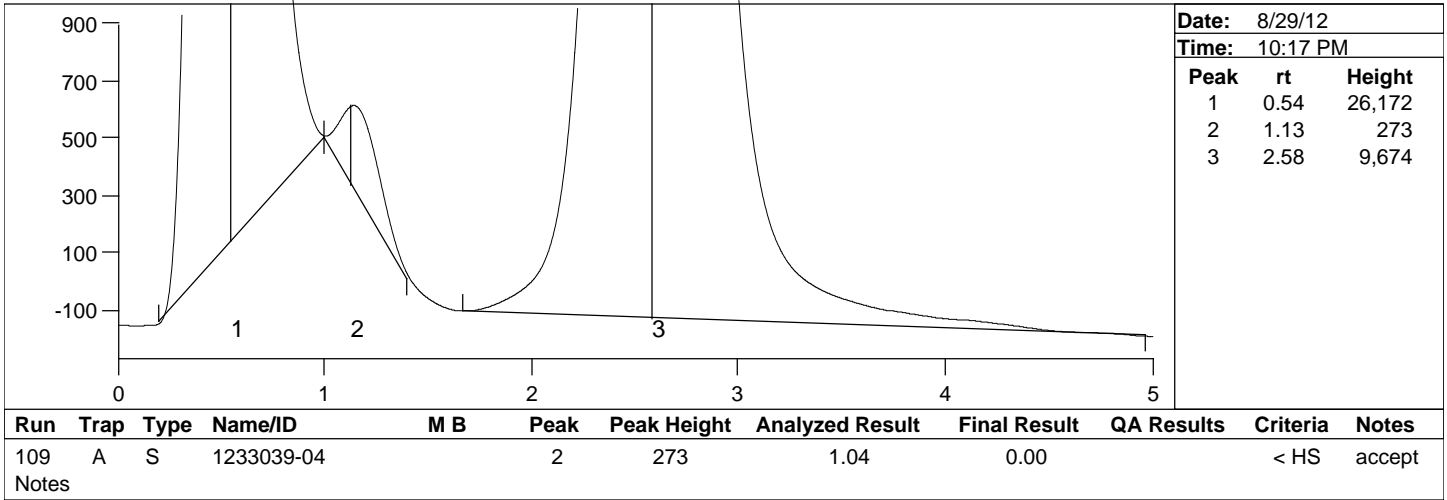


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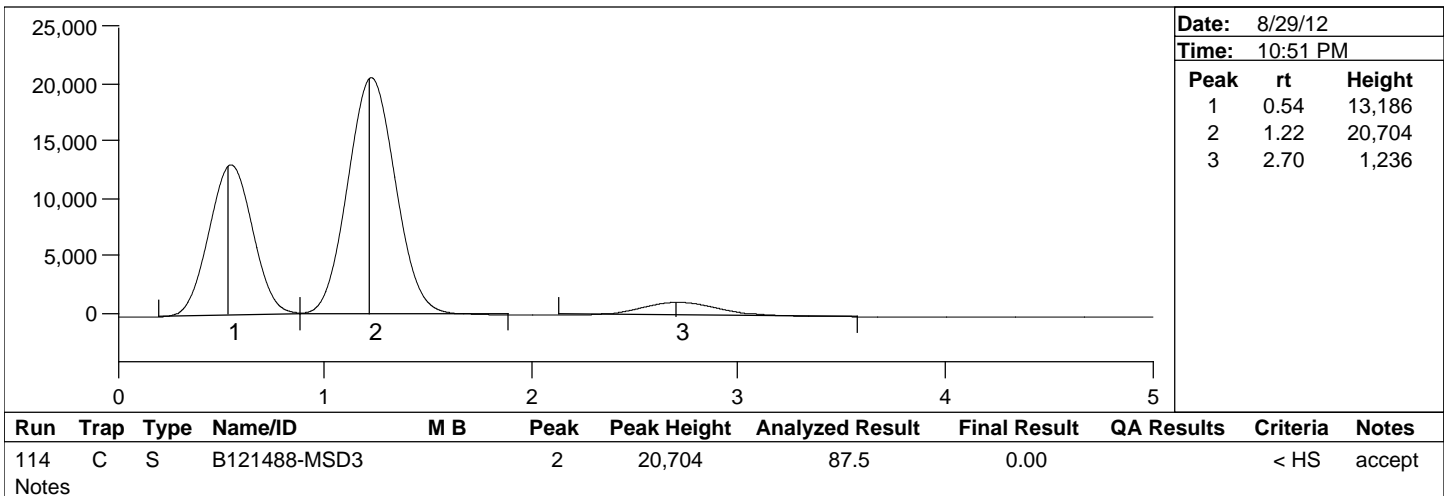
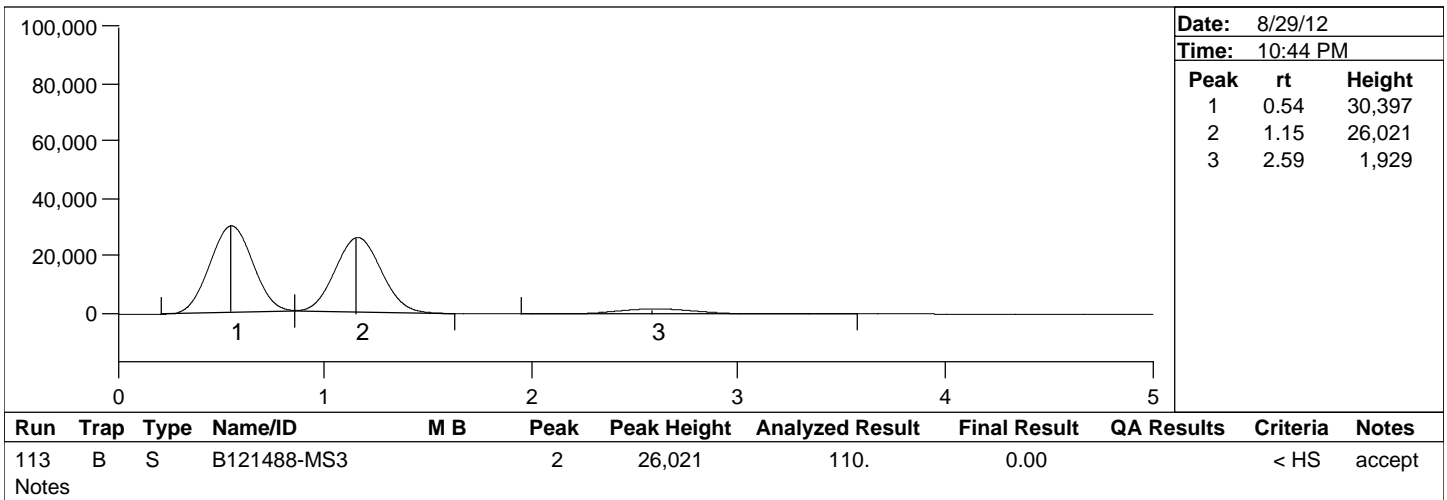
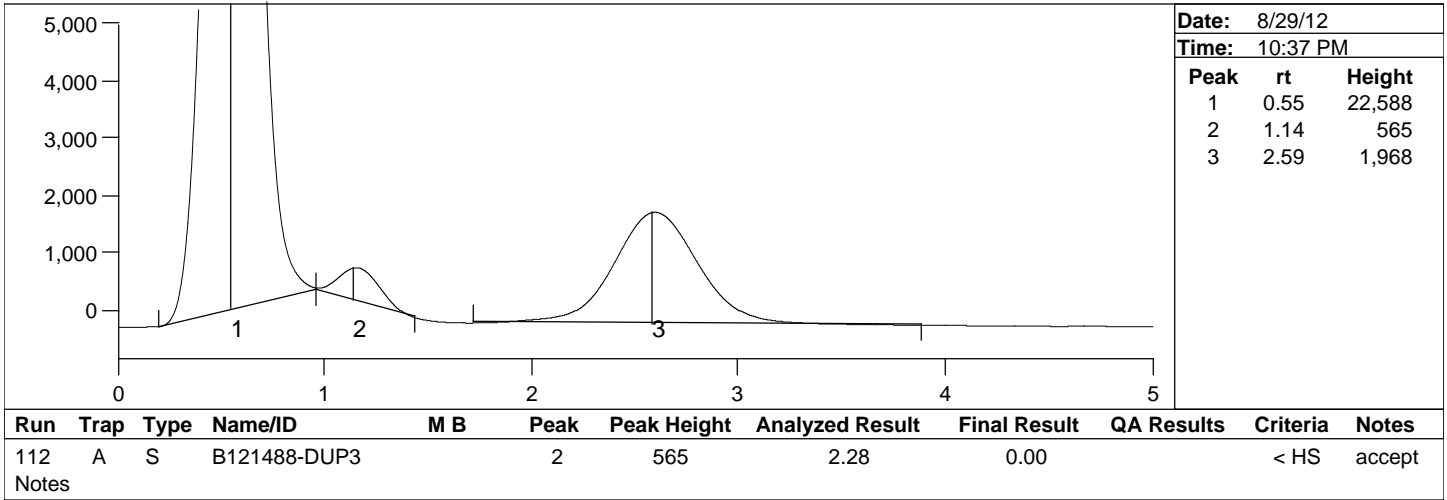


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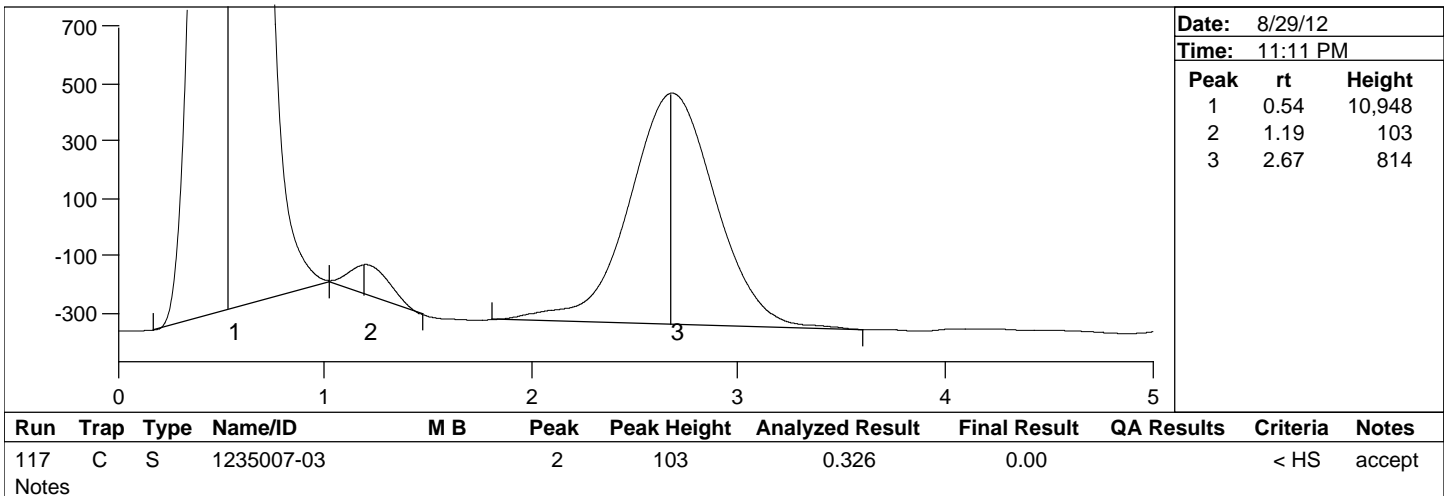
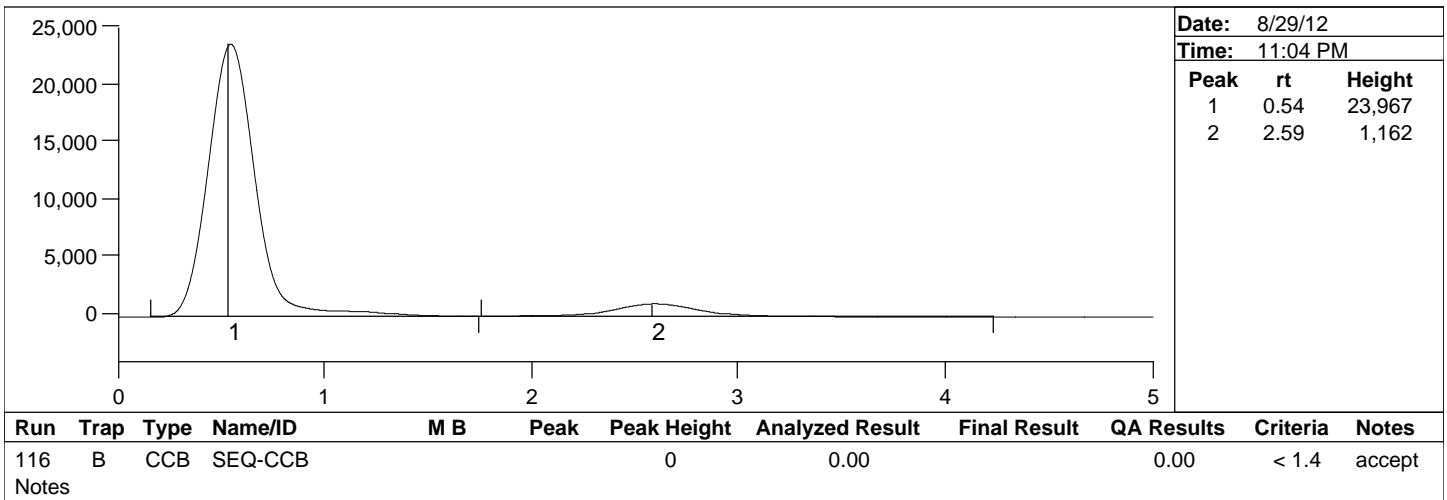
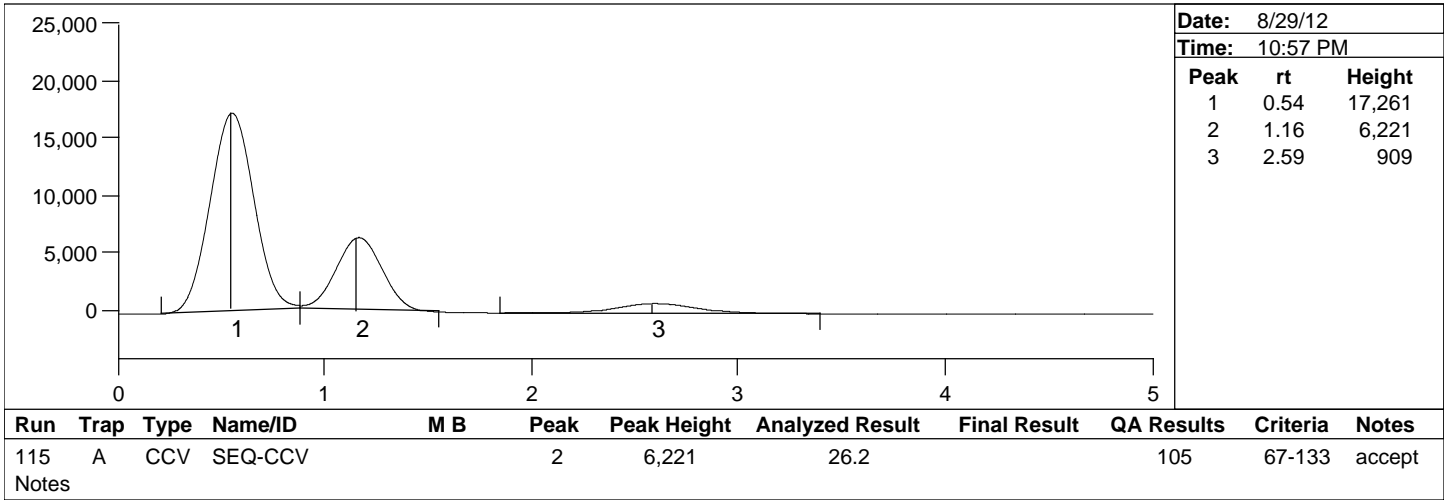


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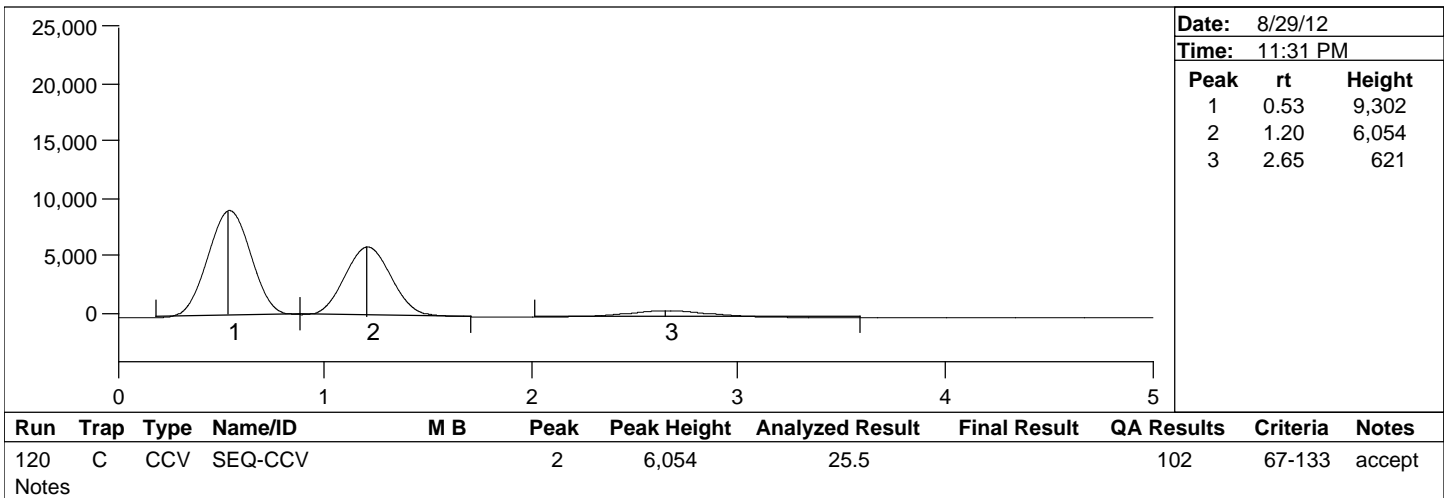
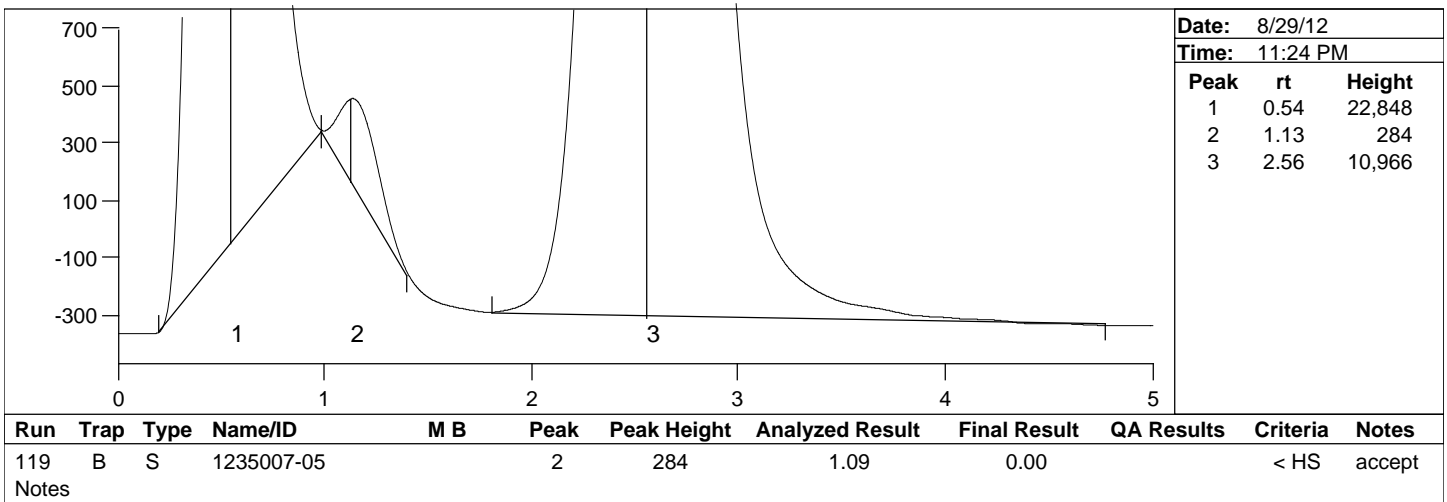
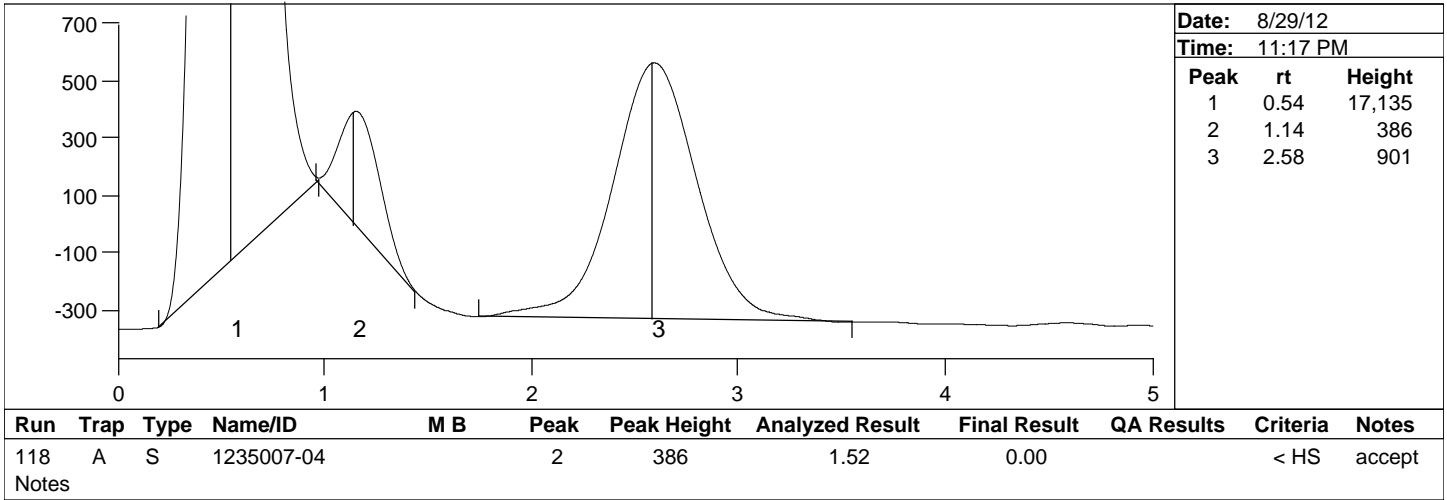


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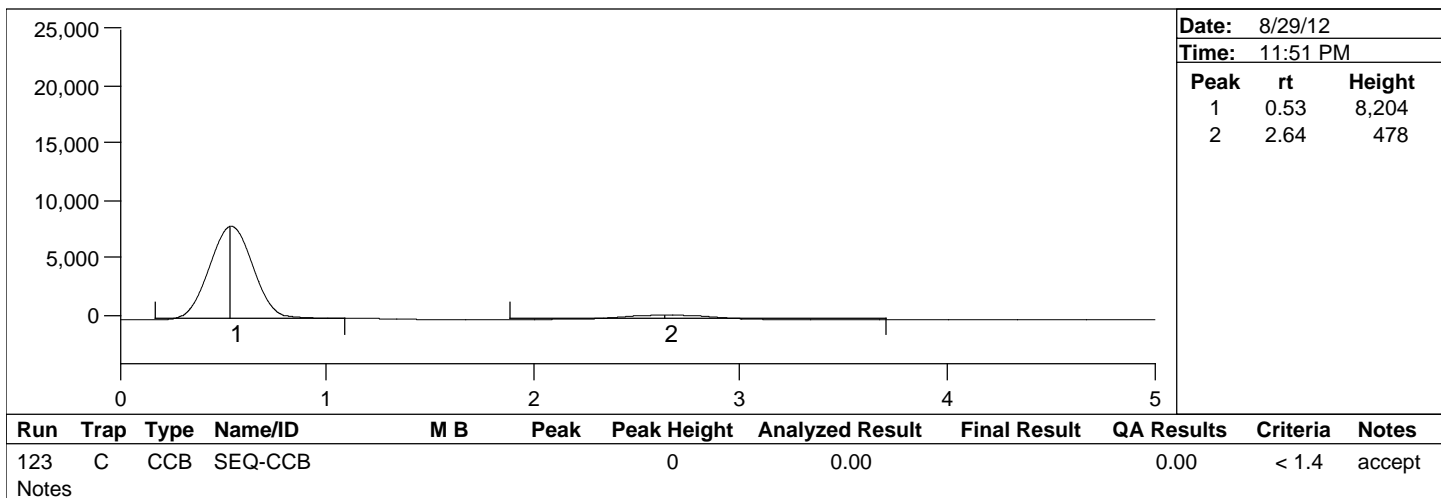
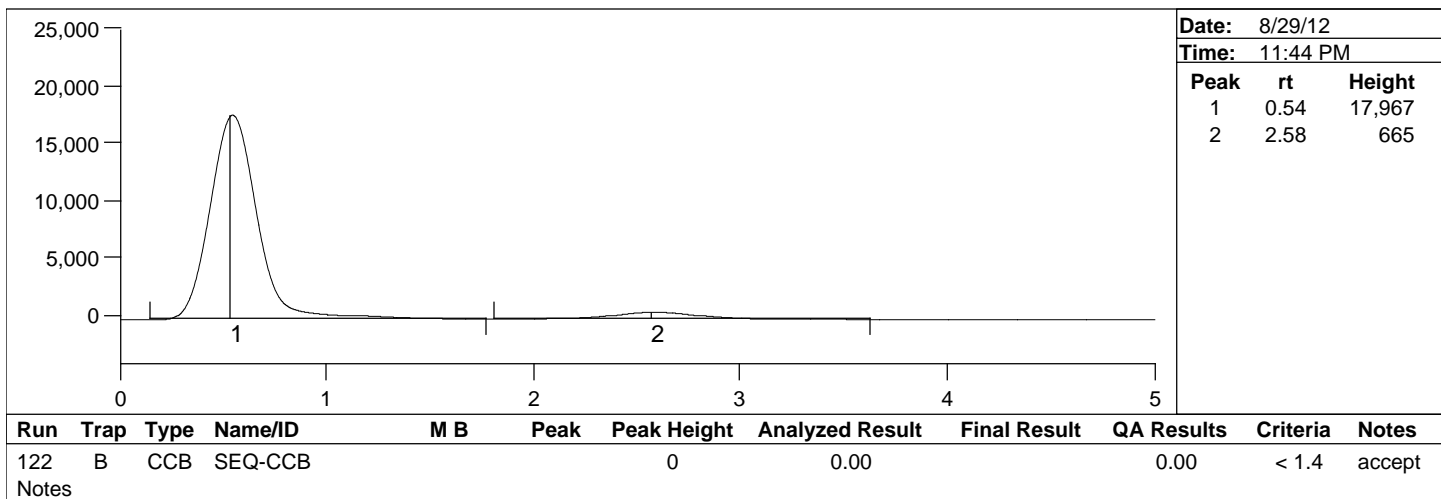
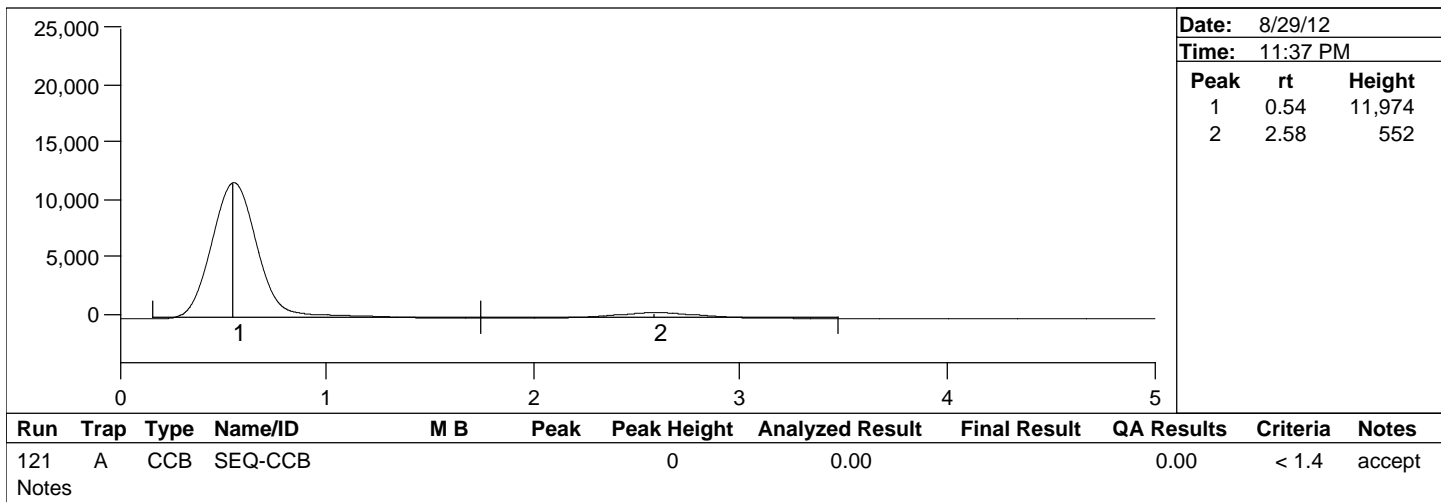


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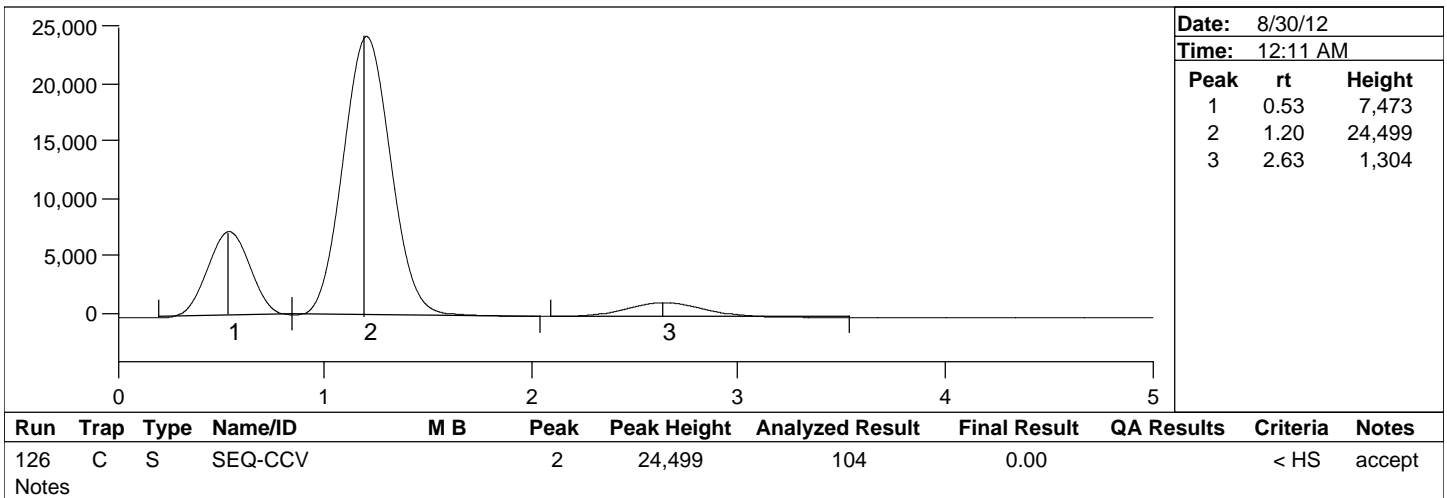
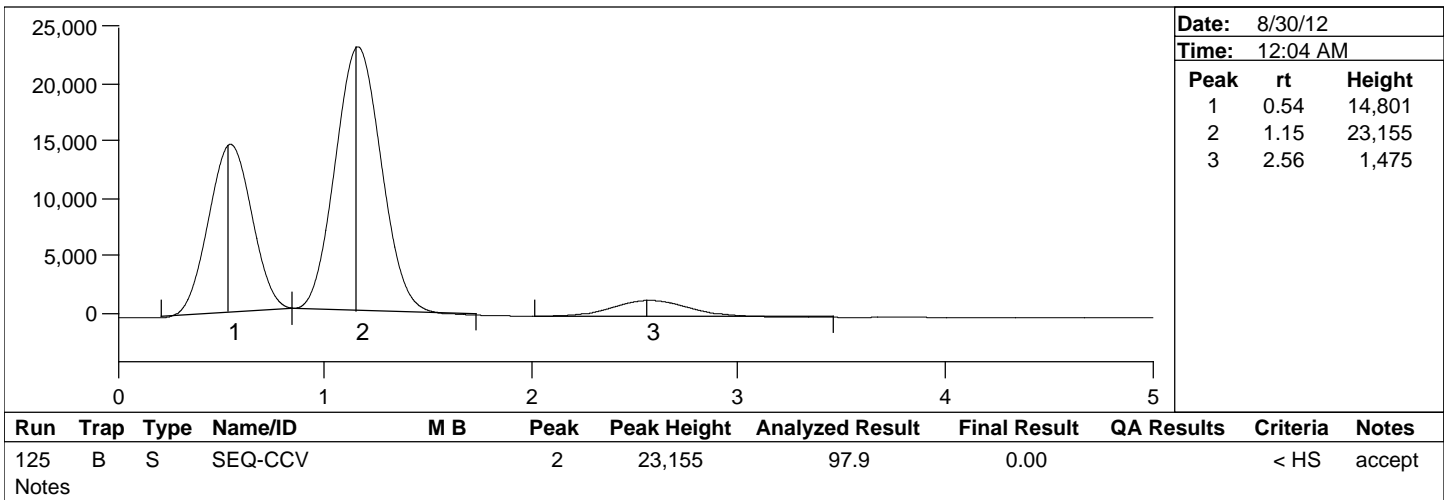
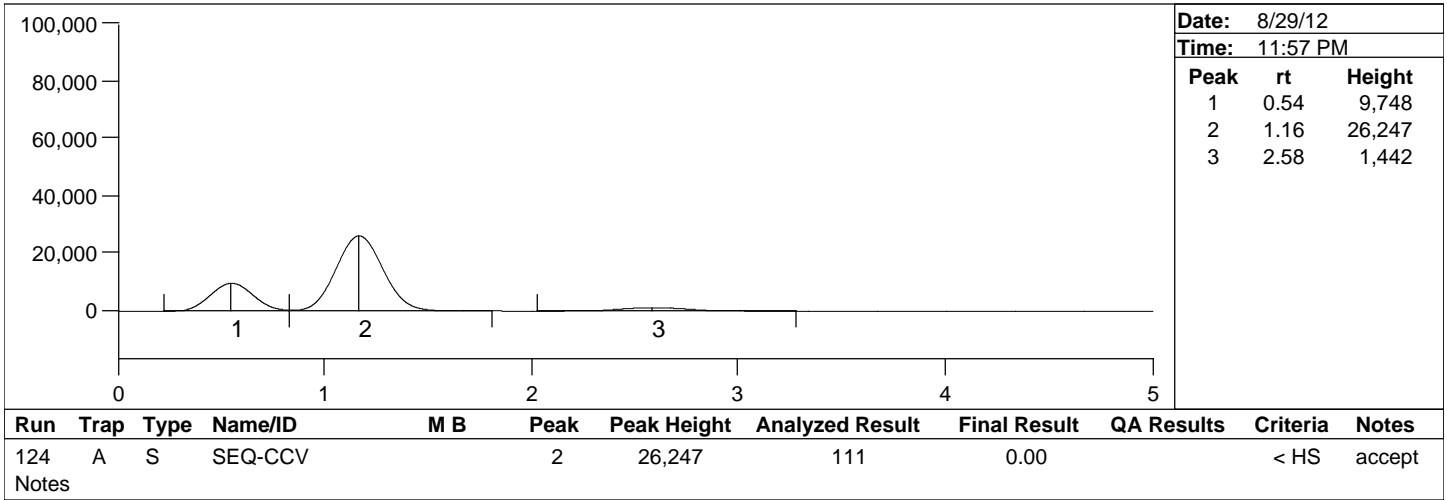


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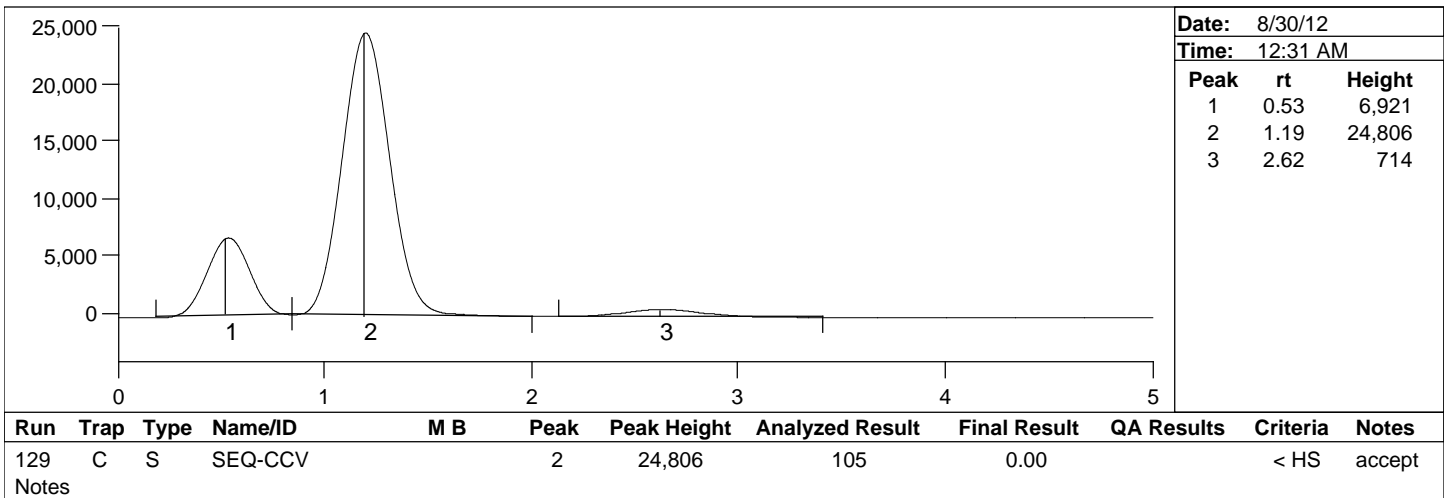
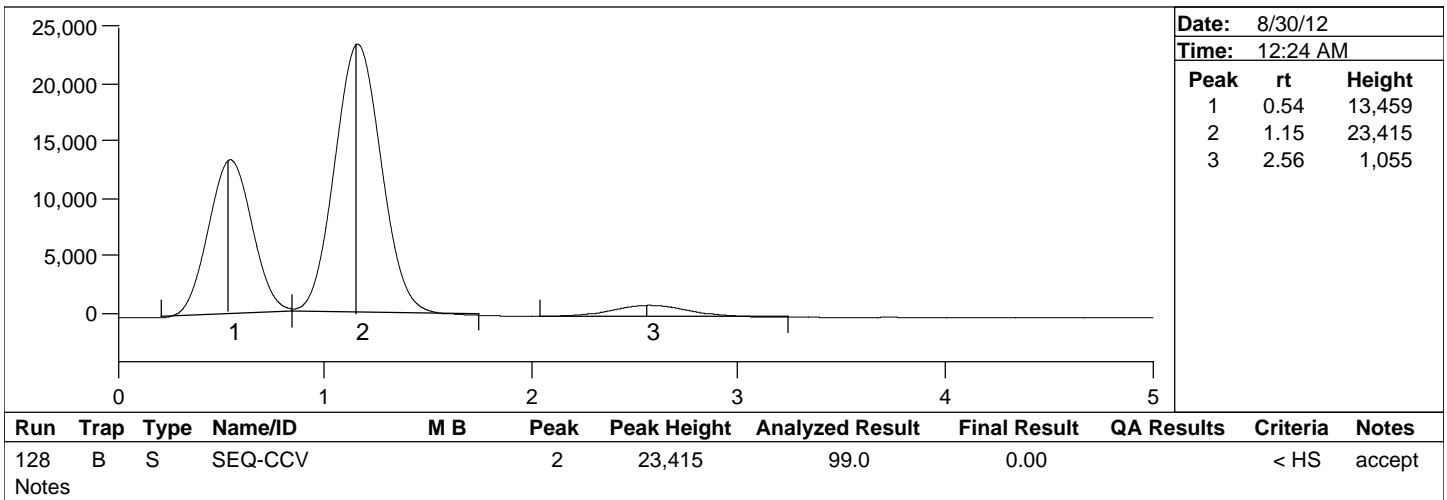
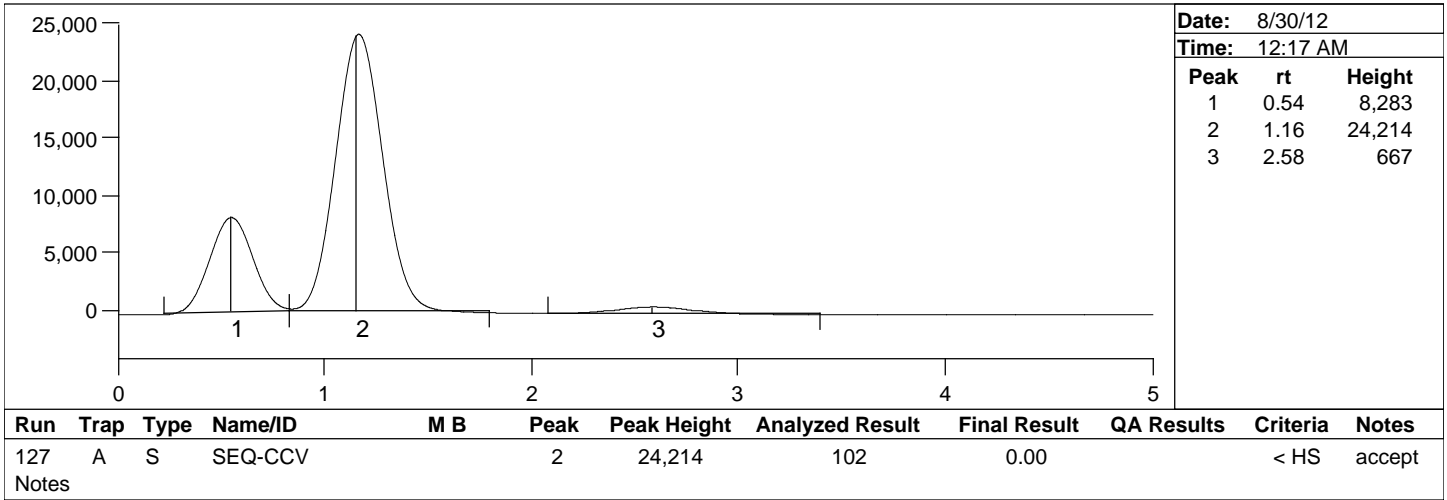


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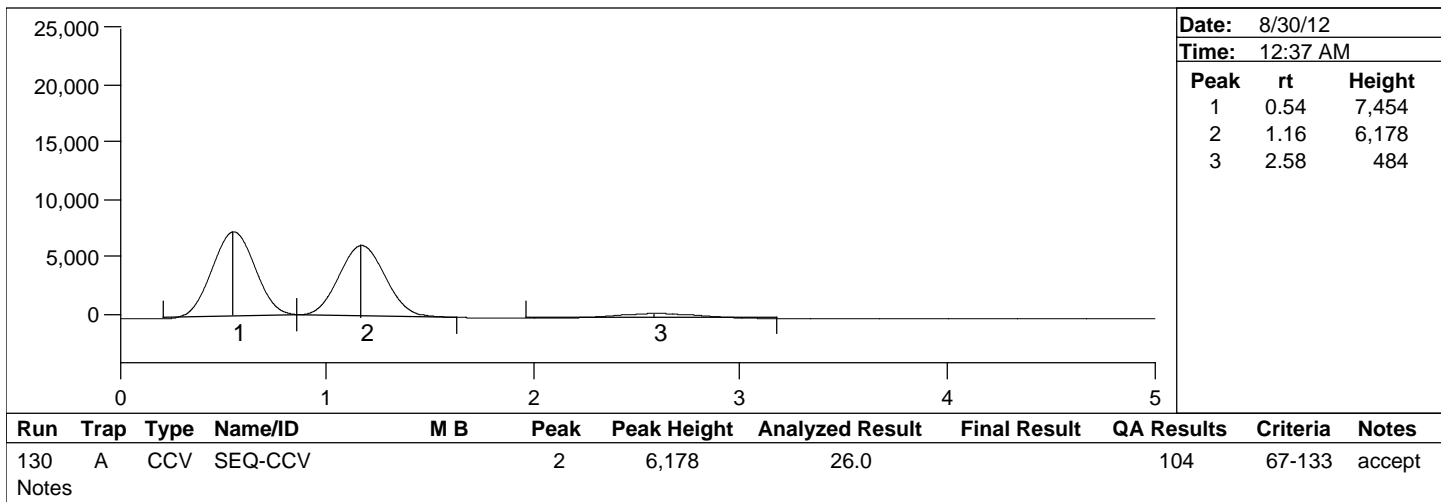


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**Batch Number: B121520, 1488**  
**Method Number: CVAFS BR-0011**

**Project Number(s): 1200672**  
**Instrument ID: MMHG-09**

**Date Analyzed: 8/29/12**  
**Analyst Name: AAP**



## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200644

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200644-ICB1	1200644	QC	1		-			
1200644-CAL1	1200644	QC	2	1228062	-			
1200644-CAL2	1200644	QC	3	1228061	-			
1200644-CAL3	1200644	QC	4	1228060	-			
1200644-CAL4	1200644	QC	5	1228059	-			
1200644-CAL5	1200644	QC	6	1228058	-			
1200644-CAL6	1200644	QC	7	1228057	-			
1200644-CAL7	1200644	QC	8	1228056	-			
1200644-CAL8	1200644	QC	9	1228055	-			
1200644-ICB2	1200644	QC	10		-			
1200644-ICV1	1200644	QC	11	1226014	-			
1200644-ICB3	1200644	QC	12		-			
1200644-ICV2	1200644	QC	13	1226014	-			
1200644-ICB4	1200644	QC	14		-			
1200644-IBL1	1200644	QC	15		-			
1200644-IBL2	1200644	QC	16		-			
1200644-IBL3	1200644	QC	17		-			
1200644-IBL4	1200644	QC	18		-			
1200644-SCV1	1200644	QC	19	1215030	-			
1200644-CCV1	1200644	QC	20	1228059	-			
1200644-CCB1	1200644	QC	21		-			
B121403-BLK1	B121403	QC	22		-			
B121403-BLK2	B121403	QC	23		-			
B121403-BLK3	B121403	QC	24		-			
B121403-BLK4	B121403	QC	25		-			
0944029-91	B121403	TI-SW-RP-ICPMS-TR	26			RP SW-LFB	10/23/2009	

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200644

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
0944029-91	B121403	Se-SW-RP-ICPMS-TR	27			RP SW-LFB	10/23/2009	
0944029-91	B121403	Sb-SW-RP-ICPMS-TR	28			RP SW-LFB	10/23/2009	
0944029-91	B121403	Pb-SW-RP-ICPMS-TR	29			RP SW-LFB	10/23/2009	
0944029-91	B121403	Cu-SW-RP-ICPMS-TR	30			RP SW-LFB	10/23/2009	
0944029-91	B121403	Cr-SW-RP-ICPMS-TR	31			RP SW-LFB	10/23/2009	
0944029-91	B121403	Cd-SW-RP-ICPMS-TR	32			RP SW-LFB	10/23/2009	
0944029-91	B121403	Be-SW-RP-ICPMS-TR	33			RP SW-LFB	10/23/2009	
0944029-91	B121403	As-SW-RP-ICPMS-TR	34			RP SW-LFB	10/23/2009	
0944029-91	B121403	Ag-SW-RP-ICPMS-TR	35			RP SW-LFB	10/23/2009	
B121403-MS3	B121403	QC	36		0944029-91			
B121403-BS1	B121403	QC	37		-			
B121403-SRM1	B121403	QC	38		-			
B121403-MS4	B121403	QC	39		0944029-91			
1200644-CCV2	1200644	QC	40	1228059	-			
1200644-CCB2	1200644	QC	41		-			
B121403-BS2	B121403	QC	42		-			
B121403-BS3	B121403	QC	43		-			
B121403-BS4	B121403	QC	44		-			
B121403-BS5	B121403	QC	45		-			
B121403-BS6	B121403	QC	46		-			
B121403-BS7	B121403	QC	47		-			
B121403-BS8	B121403	QC	48		-			
B121403-BS9	B121403	QC	49		-			
1200644-CCV3	1200644	QC	50	1228059	-			
1200644-CCB3	1200644	QC	51		-			
1231002-04	B121403	TI-SW-RP-ICPMS-TR	52			UDE-SL1201	9/13/2012	

## ANALYSIS SEQUENCE

BRL Report 1231002

1200644

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1231002-04	B121403	Se-SW-RP-ICPMS-TR	53			UDE-SL1201	9/13/2012	
1231002-04	B121403	As-SW-RP-ICPMS-TR	54			UDE-SL1201	9/13/2012	
1231002-05	B121403	Tl-SW-RP-ICPMS-TR	55			UDE-SL1201	9/13/2012	MS Only
1231002-05	B121403	Se-SW-RP-ICPMS-TR	56			UDE-SL1201	9/13/2012	MS Only
1231002-05	B121403	Sb-SW-RP-ICPMS-TR	57			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	Pb-SW-RP-ICPMS-TR	58			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	Cu-SW-RP-ICPMS-TR	59			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	Cr-SW-RP-ICPMS-TR	60			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	Cd-SW-RP-ICPMS-TR	61			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	Be-SW-RP-ICPMS-TR	62			UDE-SL1201	1/1/1980	BatchQC
1231002-05	B121403	As-SW-RP-ICPMS-TR	63			UDE-SL1201	9/13/2012	MS Only
1231002-05	B121403	Ag-SW-RP-ICPMS-TR	64			UDE-SL1201	1/1/1980	BatchQC
B121403-DUP1	B121403	QC	65		1231002-05			
B121403-MS1	B121403	QC	66		1231002-05			
B121403-MSD1	B121403	QC	67		1231002-05			
1231002-06	B121403	Tl-SW-RP-ICPMS-TR	68			UDE-SL1201	9/13/2012	MS Only
1231002-06	B121403	Se-SW-RP-ICPMS-TR	69			UDE-SL1201	9/13/2012	MS Only
1231002-06	B121403	Sb-SW-RP-ICPMS-TR	70			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	Pb-SW-RP-ICPMS-TR	71			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	Cu-SW-RP-ICPMS-TR	72			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	Cr-SW-RP-ICPMS-TR	73			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	Cd-SW-RP-ICPMS-TR	74			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	Be-SW-RP-ICPMS-TR	75			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121403	As-SW-RP-ICPMS-TR	76			UDE-SL1201	9/13/2012	MS Only
1231002-06	B121403	Ag-SW-RP-ICPMS-TR	77			UDE-SL1201	1/1/1980	BatchQC
B121403-DUP2	B121403	QC	78		1231002-06			

## ANALYSIS SEQUENCE

BRL Report 1231002

1200644

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121403-MS2	B121403	QC	79		1231002-06			
B121403-MSD2	B121403	QC	80		1231002-06			
1231002-11	B121403	Tl-SW-RP-ICPMS-TR	81			UDE-SL1201	9/13/2012	
1231002-11	B121403	Se-SW-RP-ICPMS-TR	82			UDE-SL1201	9/13/2012	
1231002-11	B121403	As-SW-RP-ICPMS-TR	83			UDE-SL1201	9/13/2012	
1200644-CCV4	1200644	QC	84	1228059	-			
1200644-CCB4	1200644	QC	85		-			
B121446-BLK1	B121446	QC	86		-			
B121446-BLK2	B121446	QC	87		-			
B121446-BLK3	B121446	QC	88		-			
B121446-BLK4	B121446	QC	89		-			
B121446-BS1	B121446	QC	90		-			
B121446-SRM1	B121446	QC	91		-			
1232024-02	B121446	Zn-FW-Oven-ICPMS-TR	92			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	V-FW-Oven-ICPMS-TR	93			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	U-FW-Oven-ICPMS-TR	94			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Tl-FW-Oven-ICPMS-TR	95			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Sr-FW-Oven-ICPMS-TR	96			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Sb-FW-Oven-ICPMS-TR	97			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Pb-FW-Oven-ICPMS-TR	98			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Ni-FW-Oven-ICPMS-TR	99			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Na-FW-Oven-ICPMS-TR	100			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Mo-FW-Oven-ICPMS-TR	101			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Mn-FW-Oven-ICPMS-TR	102			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Mg-FW-Oven-ICPMS-TR	103			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Li-FW-Oven-ICPMS-TR	104			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2



## ANALYSIS SEQUENCE

BRL Report 1231002

1200644

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232024-02	B121446	K-FW-Oven-ICPMS-TR	105			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Fe-FW-Oven-ICPMS-TR	106			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Cu-FW-Oven-ICPMS-TR	107			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Cr-FW-Oven-ICPMS-TR	108			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Co-FW-Oven-ICPMS-TR	109			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Cd-FW-Oven-ICPMS-TR	110			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Ca-FW-Oven-ICPMS-TR	111			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	B-FW-Oven-ICPMS-TR	112			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Be-FW-Oven-ICPMS-TR	113			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Ba-FW-Oven-ICPMS-TR	114			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Al-FW-Oven-ICPMS-TR	115			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02	B121446	Ag-FW-Oven-ICPMS-TR	116			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
B121446-DUP1	B121446	QC	117		1232024-02			
B121446-MS1	B121446	QC	118		1232024-02			
B121446-MSD1	B121446	QC	119		1232024-02			
1200644-CCV5	1200644	QC	120	1228059	-			
1200644-CCB5	1200644	QC	121		-			
1232024-02RE1	B121446	Zn-FW-Oven-ICPMS-TR	122			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	V-FW-Oven-ICPMS-TR	123			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	U-FW-Oven-ICPMS-TR	124			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Tl-FW-Oven-ICPMS-TR	125			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Sr-FW-Oven-ICPMS-TR	126			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Sb-FW-Oven-ICPMS-TR	127			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Pb-FW-Oven-ICPMS-TR	128			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Ni-FW-Oven-ICPMS-TR	129			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Na-FW-Oven-ICPMS-TR	130			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2

## ANALYSIS SEQUENCE

BRL Report 1231002

1200644

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232024-02RE1	B121446	Mo-FW-Oven-ICPMS-TR	131			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Mn-FW-Oven-ICPMS-TR	132			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Mg-FW-Oven-ICPMS-TR	133			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Li-FW-Oven-ICPMS-TR	134			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	K-FW-Oven-ICPMS-TR	135			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Fe-FW-Oven-ICPMS-TR	136			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Cu-FW-Oven-ICPMS-TR	137			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Cr-FW-Oven-ICPMS-TR	138			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Co-FW-Oven-ICPMS-TR	139			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Cd-FW-Oven-ICPMS-TR	140			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Ca-FW-Oven-ICPMS-TR	141			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	B-FW-Oven-ICPMS-TR	142			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Be-FW-Oven-ICPMS-TR	143			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Ba-FW-Oven-ICPMS-TR	144			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Al-FW-Oven-ICPMS-TR	145			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE1	B121446	Ag-FW-Oven-ICPMS-TR	146			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
B121446-DUP2	B121446	QC	147		1232024-02RE1			
B121446-MS2	B121446	QC	148		1232024-02RE1			
B121446-MSD2	B121446	QC	149		1232024-02RE1			
1200644-CCV6	1200644	QC	150	1228059	-			
1200644-CCB6	1200644	QC	151		-			
1232024-02RE2	B121446	Zn-FW-Oven-ICPMS-TR	152			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	V-FW-Oven-ICPMS-TR	153			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	U-FW-Oven-ICPMS-TR	154			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Tl-FW-Oven-ICPMS-TR	155			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Sr-FW-Oven-ICPMS-TR	156			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2

## ANALYSIS SEQUENCE

BRL Report 1231002

1200644

Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232024-02RE2	B121446	Sb-FW-Oven-ICPMS-TR	157			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Pb-FW-Oven-ICPMS-TR	158			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Ni-FW-Oven-ICPMS-TR	159			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Na-FW-Oven-ICPMS-TR	160			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Mo-FW-Oven-ICPMS-TR	161			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Mn-FW-Oven-ICPMS-TR	162			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Mg-FW-Oven-ICPMS-TR	163			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Li-FW-Oven-ICPMS-TR	164			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	K-FW-Oven-ICPMS-TR	165			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Fe-FW-Oven-ICPMS-TR	166			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Cu-FW-Oven-ICPMS-TR	167			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Cr-FW-Oven-ICPMS-TR	168			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Co-FW-Oven-ICPMS-TR	169			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Cd-FW-Oven-ICPMS-TR	170			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Ca-FW-Oven-ICPMS-TR	171			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	B-FW-Oven-ICPMS-TR	172			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Be-FW-Oven-ICPMS-TR	173			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Ba-FW-Oven-ICPMS-TR	174			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Al-FW-Oven-ICPMS-TR	175			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
1232024-02RE2	B121446	Ag-FW-Oven-ICPMS-TR	176			USG-SR0901	8/30/2012	5-ppm chlorine w/NaClO; nitric to pH < 2
B121446-DUP3	B121446	QC	177		1232024-02RE2			
B121446-MS3	B121446	QC	178		1232024-02RE2			
B121446-MSD3	B121446	QC	179		1232024-02RE2			
1200644-CCV7	1200644	QC	180	1228058	-			
1200644-CCB7	1200644	QC	181		-			
1200644-CCV8	1200644	QC	182	1228058	-			

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200644

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200644-CCB8	1200644	QC	183		-			
1200644-CCV9	1200644	QC	184	1228058	-			
1200644-CCB9	1200644	QC	185		-			
1200644-CCVA	1200644	QC	186	1228058	-			
1200644-CCBA	1200644	QC	187		-			
1200644-CCVB	1200644	QC	188	1228058	-			
1200644-CCBB	1200644	QC	189		-			
1200644-CCVC	1200644	QC	190	1228058	-			
1200644-CCBC	1200644	QC	191		-			
1200644-CCVD	1200644	QC	192	1228058	-			
1200644-CCBD	1200644	QC	193		-			
1200644-CCVE	1200644	QC	194	1228057	-			
1200644-CCBE	1200644	QC	195		-			

ICP-MS Analysis Benchsheet

Batch No: B121446, B121403, B121387  
B121388, B121390

**BR-0060** standard / **DRC mode (circle one)**

(BRL procedure for the analysis of samples by EPA Methods 1638, 200.8, 6020A, and 1640)

Analyst: MEL Date: 8/17/2012

Instrument ID: ICPMS2 cHNO3 ID: 1229050 cHCI ID: NA

Calibration recorded in LIMS Int Std: 1213014 SEQ: 1200644

*LOD/Loa studies:  
 1351, 1388, 1390  
 uploaded to a different  
 seq. MEL 8/20/12*

*see attached print-out  
 for Cal into.*

A/S #	Batch	Sample ID	Dilution	Comments
1		warm up		
1		warm up		
1		warm up		
1		SEQ-ICB1		
2		SEQ-CAL1		1228062
3		SEQ-CAL2		1228061
4		SEQ-CAL3		1228060
5		SEQ-CAL4		1228059
6		SEQ-CAL5		1228058
7		SEQ-CAL6		1228057
8		SEQ-CAL7		1228056
9		SEQ-CAL8		1228055
1		SEQ-ICB2		
10		SEQ-ICV1		1226014
1		SEQ-ICB3		
10		SEQ-ICV2		Reprepared ICV; 1226014
1		SEQ-ICB4		
101		SEQ-IBL1		
102		SEQ-IBL2		
103		SEQ-IBL3		
104		SEQ-IBL4		
105		SEQ-SCV1	5x	NIST 1643e 1202032 or 1215030
5		SEQ-CCV1		1228059
1		SEQ-CCB1		
106	B121403	B121403-BLK1	5x	
107	B121403	B121403-BLK2	5x	
108	B121403	B121403-BLK3	5x	
109	B121403	B121403-BLK4	5x	
110	B121403	0944029-91	5x	
111	B121403	B121403-MS3	5x	
112	B121403	B121403-BS1	5x	
113	B121403	B121403-SRM1	5x	
114	B121403	B121403-MS4	5x	
5		SEQ-CCV2		1228059
1		SEQ-CCB2		
115	B121403	B121403-BS2	5x	
116	B121403	B121403-BS3	5x	
117	B121403	B121403-BS4	5x	
118	B121403	B121403-BS5	5x	

119	B121403	B121403-BS6	5x	
120	B121403	B121403-BS7	5x	
121	B121403	B121403-BS8	5x	
122	B121403	B121403-BS9	5x	
5		SEQ-CCV3		1228059
1		SEQ-CCB3		
123	B121403	1231002-04	5x	
124	B121403	1231002-05	5x	
125	B121403	B121403-DUP1	5x	
126	B121403	B121403-MS1	5x	
127	B121403	B121403-MSD1	5x	
128	B121403	1231002-06	5x	
129	B121403	B121403-MS2	5x	
130	B121403	B121403-MSD2	5x	
131	B121403	B121403-DUP3 <i>2 made total</i>	5x	
132	B121403	1231002-11	5x	
5		SEQ-CCV4		1228059
1		SEQ-CCB4		
133	B121446	B121446-BLK1		
134	B121446	B121446-BLK2		
135	B121446	B121446-BLK3		
136	B121446	B121446-BLK4		
137	B121446	B121446-BS1		
138	B121446	1232024-02	100x	
139	B121446	B121446-DUP1	100x	1232024-02
140	B121446	B121446-MS1	100x	200ul of 1233071 up to 5ml
141	B121446	B121446-MSD1	100x	200ul of 1233071 up to 5ml
5		SEQ-CCV5		1228059
1		SEQ-CCB5		
142	B121446	1232024-02RE1	10x	
143	B121446	B121446-DUP2	10x	1232024-02RE1
144	B121446	B121446-MS2	10x	200ul of 1233071 up to 5ml
145	B121446	B121446-MSD2	10x	200ul of 1233071 up to 5ml
5		SEQ-CCV6		1228059
1		SEQ-CCB6		
146	B121446	1232024-02RE2		
147	B121446	B121446-DUP3		1232024-02RE2
148	B121446	B121446-MS3		100ul of 1233071 up to 5ml
149	B121446	B121446-MSD3		100ul of 1233071 up to 5ml
6		SEQ-CCV7		1228058
1		SEQ-CCB7		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
6		SEQ-CCV8		1228058
1		SEQ-CCB8		
201	B121388	B121388-BLK1		
202	B121388	B121388-BLK2		
203	B121388	B121388-BLK3		
204	B121388	B121388-BLK4		
6		SEQ-CCV9		1228058

*This is corrected for in LIMS, but not in the PDF. MEL 8/20/12*

*← → upload separately after here. No more client samples following CCB7. MEL 8/20/12*

1		SEQ-CCB9		
205	B121388	B121388-BS1		
206	B121388	B121388-BS2		
207	B121388	B121388-BS3		
208	B121388	B121388-BS4		
209	B121388	B121388-BS5		
210	B121388	B121388-BS6		
211	B121388	B121388-BS7		
212	B121388	B121388-BS8		
6		SEQ-CCVA		1228058
1		SEQ-CCBA		
213	B121387	B121387-BLK1	10x	
214	B121387	B121387-BLK2	10x	
215	B121387	B121387-BLK3	10x	
216	B121387	B121387-BLK4	10x	
6		SEQ-CCVB		1228058
1		SEQ-CCBB		
217	B121387	B121387-BS1	10x	
218	B121387	B121387-BS2	10x	
219	B121387	B121387-BS3	10x	
220	B121387	B121387-BS4	10x	
221	B121387	B121387-BS5	10x	
222	B121387	B121387-BS6	10x	
223	B121387	B121387-BS7	10x	
224	B121387	B121387-BS8	10x	
6		SEQ-CCVC		1228058
1		SEQ-CCBC		
225	B121390	B121390-BLK1	50x	
226	B121390	B121390-BLK2	50x	
227	B121390	B121390-BLK3	50x	
228	B121390	B121390-BLK4	50x	
6		SEQ-CCVD		1228058
1		SEQ-CCBD		
229	B121390	B121390-BS1	50x	
230	B121390	B121390-BS2	50x	
231	B121390	B121390-BS3	50x	
232	B121390	B121390-BS4	50x	
233	B121390	B121390-BS5	50x	
234	B121390	B121390-BS6	50x	
235	B121390	B121390-BS7	50x	
236	B121390	B121390-BS8	50x	
7		SEQ-CCVE		1228057
1		SEQ-CCBE		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		

**Trace Metals Method BR-0066 Rev02a(ICP-MS)  
Sea Water Sample Preparation by Reductive Co-Precipitation**

Batch #(s): B121403

Page 1 of 1

Balance ID: BL-02

Preparation Date and Time\*: 8/13/12 1305

Filtration Date: 8/15/12

Date and Time of Finished Preparation: 8/15/12 1305

Filtered By: CCE

Prepared By: CCE

\* Time is when the first reagents are added.

#	Sample ID	Sample Volume (mL)†
1	BLK1	200.27
2	BLK2	200.03
3	BLK3	200.66
4	BLK4	200.64
5	0944029-91 <sup>MEL 8/20/12</sup>	200.48
6	MS3	200.87
7	BS1	200.76
8	SRM1 (SLEW-3)	200.11
9	MS4	200.48
10	1PR1	200.68
11	2	200.14
12	3	200.81
13	4	200.45
14	LOD1	200.12
15	2	200.46
16	3	200.49

#	Sample ID	Sample Volume (mL)†
17	LOD4	200.02
18	1231002-04	40.62/200.26
19	-05	40.58/200.13
20	DUP1	40.75/200.09
21	MS1	40.78/200.22
22	MSD1	40.84/200.24
23	1231002-06	40.05/200.44
24	DUP2	40.10/200.32
25	MS2	40.11/200.62
26	MSD2	40.50/200.60
27	1231002-11	40.32/200.92
28	<del>1231040-02</del>	
29	<del>  -04</del>	
30	<del>  -05</del>	
31	<del>  -07</del>	

† Sample vol. recorded in LIMS with three significant figures.

Sample ID	Spike ID	Vol. Added (mL)	Analyte/Concentration
BS1, MS1-3, MSD1-2	1233013	0.1	B121403 spike mix
SEE ATTACHED FOR SPIKE INFO FOR LOD/LOQ STUDY			

Spike Witness Initials/Date: MEL 8/13/12

Bottle lot: 12-199 SRM-Matrix-ID: SPM1-SLEW3-1220064 HNO<sub>3</sub> ID: 1229020

NaBH<sub>4</sub> ID: 1211002 NH<sub>4</sub>OH ID: 1217019 Filter Lot #: 183960

H<sub>2</sub>O<sub>2</sub> ID: 1107099 Fe/Pd/La/Te ID: 1212026 Final Dilution Vol.: 10mL

Target Digestion Temps/Times: 120 °C for 5 minutes x 2 then 150 °C for 15-20 minutes

Digestion Temperatures\*/Times: C:117°C M:118°C 1345/1350 then C:118°C M:119°C 1415/1420 then C:144°C U:147°C 1450/1505

Thermometer ID: 010396

\* Both measured and corrected temperatures must be recorded.

Comments: All client samples prepped at Ex dln, as per PM. Vol. not removed from sample before spike for LOD/LOQ samples. Sample vol. in LIMS reflect sample vol. w/ spike added. † filtered on different filtration system from source. \* potential hole in filter. Filter removed + black spot remained on glass filter apparatus, suggesting lost sample.

NOTE: All samples have been adjusted to a pH of 9 prior to filtration as described in BRL SOP BR-0066 and verified by pH paper.

Any sample requiring more or less adjustment than described in the SOP has been noted with a full description of how it differed from the other samples.



**B121403**  
**RP**

Samples spiked: BS1, MS1-3, MS1-2

Element	Conc. (µg/L)	spike conc w/ 0.1mL spike vol and 40mL sample	mL from stock into 10mL tube	ppm	LIMS ID
As	35.000	14.000	0.1400	1000	1148020
Cd	0.125	0.050	0.0500	10	1216070
Cu	3.000	1.200	0.1200	100	1227010
Pb	2.000	0.800	0.0800	100	1227018
Se	2.100	0.840	0.8400	10	1212074
Tl	0.100	0.040	0.0400	10	1216087

Spike mix ID:  
1233013

Add 8.73mL 2% HNO3

Samples spiked: MS4, IPR1-4 (0.200mL, 0.720mL Ag 0.02ppm, 0.600mL Sb 0.02ppm)  
LOD4 (0.0.100mL spike mix, 0.360mL Ag 0.02ppm, 0.300mL Sb 0.02ppm)

Element	MRL (µg/L)	spike conc w/ 0.1mL spike vol and 200mL sample	mL from stock into 50mL tube	ppm	LIMS ID
As	0.100	0.200	0.1000	100	1227001
Be	0.013	0.026	0.1300	10	1216066
Cd	0.012	0.024	0.1200	10	1216070
Co	0.090	0.180	0.9000	10	1227007
Cr	0.100	0.200	0.1000	100	1227008
Cu	0.120	0.240	0.1200	100	1227010
Ni	0.140	0.280	0.1400	100	1216082
Pb	0.013	0.026	0.1300	10	1227019
Se	0.210	0.420	0.2100	100	1212072
Tl	0.010	0.020	0.1000	10	1216087
V	0.100	0.200	0.1000	100	1227025
Zn	0.750	1.500	0.7500	100	1227028

Spike mix ID:  
1233014

Element	MRL (µg/L)	vol to spike directly to 200mL sample	ppm	LIMS ID
Ag	0.0360	0.360	0.02	1216093
Sb*	0.0300	0.300	0.02	1212066

Fake spike ID:  
1233015

\*Sb target conc.=2\*MRL, as per TMU, FKM.

Samples spiked: LOD1 (0.020mL spike mix, 0.072mL Ag 0.02ppm, 0.060mL Sb 0.02ppm),  
LOD2 (0.040mL spike mix, 0.144mL Ag 0.02ppm, 0.120mL Sb 0.02ppm),  
LOD3 (0.060mL spike mix, 0.216mL Ag 0.02ppm, 0.180mL Sb 0.02ppm)

Element	MRL*0.2 (µg/L)	vol to spike directly to 200mL sample	ppm	LIMS ID
Ag	0.0072	0.072	0.02	1216093
Sb	0.0060	0.060	0.02	1212066

12/13/12  
Fake spike ID:

## Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT

Batch ID:

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

Tuning File: C:\Elandata\Tuning\Default.tun

Optimization File: C:\Elandata\Optimize\Default.dac

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Calibration Type: External Calibration

## Calibration

Analyte	MassCurve Type	Slope	Intercept	Correlation Coefficient	Std 1 Conc
Li	7Weighted Linear	0.002	-0.000	0.999775	0.150000
Be	9Weighted Linear	0.001	-0.000	0.999846	0.050000
B	11Weighted Linear	0.001	-0.000	0.999830	1.000000
Na	23Weighted Linear	0.013	-0.022	0.998173	15.000000
Mg	24Weighted Linear	0.009	-0.003	0.997708	3.000000
Al	27Weighted Linear	0.012	-0.002	0.998197	1.000000
K	39Weighted Linear	0.018	-0.019	0.996293	4.000000
Ca	44Weighted Linear	0.001	-0.002	0.998937	30.000000
Sc	45Weighted Linear				
Ti	47Weighted Linear	0.001	-0.000	0.999513	0.200000
Ti	48Weighted Linear	0.014	0.000	0.999602	0.200000
V	51Weighted Linear	0.017	-0.000	0.999852	0.150000
Cr	52Weighted Linear	0.014	0.000	0.997353	0.150000
Cr	53Weighted Linear	0.002	0.000	0.999840	0.150000
Mn	55Weighted Linear	0.021	-0.000	0.998796	0.050000
Fe	54Weighted Linear	0.001	-0.001	0.997899	5.000000
Fe	57Weighted Linear	0.000	-0.000	0.998041	5.000000
Co	59Weighted Linear	0.017	0.000	0.999846	0.100000
Ni	60Weighted Linear	0.004	0.000	0.999500	0.200000
Ni	62Weighted Linear	0.001	-0.000	0.996155	0.200000
Cu	65Weighted Linear	0.012	-0.000	0.999304	0.100000
Cu	63Weighted Linear	0.023	-0.000	0.999601	0.100000
Zn	66Weighted Linear	0.007	-0.000	0.999639	0.200000
Zn	68Weighted Linear	0.005	-0.000	0.999254	0.200000
Ge	74Weighted Linear				
As	75Weighted Linear	0.009	-0.000	0.999328	0.200000
As-1	75Weighted Linear	0.008	-0.002	0.984728	0.200000
Se	77Weighted Linear	0.000	0.000	0.983133	0.200000
Se	82Weighted Linear	0.000	-0.000	0.995315	0.200000
Sr	88Weighted Linear	0.006	0.000	0.998113	0.050000
Mo	98Weighted Linear	0.001	-0.000	0.999303	0.020000
Ag	107Weighted Linear	0.002	-0.000	0.998716	0.020000
Ag	109Weighted Linear	0.002	-0.000	0.998396	0.020000
Cd	111Weighted Linear	0.001	0.000	0.999576	0.010000
Cd	114Weighted Linear	0.001	-0.000	0.999826	0.010000
In	115Weighted Linear				
Sn	120Weighted Linear	0.002	-0.000	0.999605	0.150000
Sb	121Weighted Linear	0.001	-0.000	0.967048	0.020000
Cs	133Weighted Linear	0.006	-0.000	0.999793	0.050000

Ba	138Weighted Linear	0.005	-0.000	0.994249	0.050000
Ce	140Weighted Linear	0.005	0.000	0.999697	0.010000
Tm	169Weighted Linear				
Tl	205Weighted Linear	0.011	0.000	0.999342	0.010000
Pb	208Weighted Linear	0.015	0.000	0.999148	0.025000
Bi	209Weighted Linear	0.013	-0.000	0.996326	0.050000
Th	232Weighted Linear	0.013	-0.000	0.987063	0.020000
U	238Weighted Linear	0.017	0.000	0.999172	0.010000

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-ICB1

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:12:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7		39	9	23.1			ug/L
Be	9		25	3	10.2			ug/L
B	11		322	15	4.6			ug/L
Na	23		3977	107	2.7			ug/L
Mg	24		111	17	15.0			ug/L
Al	27		1010	22	2.1			ug/L
K	39		430753	2799	0.6			ug/L
Ca	44		32562	254	0.8			ug/L
Sc	45		525930	12461	2.4			ug/L
Ti	47		944	23	2.4			ug/L
Ti	48		-2694	22	0.8			ug/L
V	51		197	7	3.5			ug/L
Cr	52		7265	216	3.0			ug/L
Cr	53		117	17	14.9			ug/L
Mn	55		280	20	7.2			ug/L
Fe	54		39304	702	1.8			ug/L
Fe	57		5552	161	2.9			ug/L
Co	59		38	2	4.6			ug/L
Ni	60		32	5	17.1			ug/L
Ni	62		114	14	12.5			ug/L
Cu	65		49	13	27.6			ug/L
Cu	63		51	6	10.9			ug/L
Zn	66		439	17	3.9			ug/L
Zn	68		213	2	1.1			ug/L
Ge	74		202077	2421	1.2			ug/L
As	75		-111	75	67.2			ug/L
As-1	75		9698	117	1.2			ug/L
Se	77		129	16	12.5			ug/L
Se	82		20	13	62.2			ug/L
Sr	88		76	7	8.6			ug/L
Mo	98		130	58	44.5			ug/L
Ag	107		40	10	24.0			ug/L
Ag	109		40	13	32.8			ug/L
Cd	111		11	2	21.7			ug/L
Cd	114		77	31	40.3			ug/L
In	115		4192305	64197	1.5			ug/L

Sn	120	978	1213	124.0	ug/L
Sb	121	126	27	21.5	ug/L
Cs	133	15	5	32.8	ug/L
Ba	138	60	11	18.5	ug/L
Ce	140	18	3	14.2	ug/L
> Tm	169	1270088	13467	1.1	ug/L
Tl	205	10	3	29.9	ug/L
Pb	208	58	7	12.0	ug/L
Bi	209	101	37	36.2	ug/L
Th	232	30	9	31.3	ug/L
U	238	6	2	28.9	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL1

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:16:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 2

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL1.061

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	219	4	2.0	0.000335	<b>0.1483</b>	ug/L
Be	9	25	41	9	20.6	0.000030	<b>0.0767</b>	ug/L
B	11	322	769	15	2.0	0.000828	<b>0.9858</b>	ug/L
Na	23	3977	98100	1260	1.3	0.176168	<b>15.2759</b>	ug/L
Mg	24	111	13048	256	2.0	0.024223	<b>3.0403</b>	ug/L
Al	27	1010	6774	155	2.3	0.010766	<b>1.0097</b>	ug/L
K	39	430753	467502	1944	0.4	0.056546	<b>4.1745</b>	ug/L
Ca	44	32562	40557	195	0.5	0.014047	<b>30.0822</b>	ug/L
Sc	45	525930	533954	4993	0.9	533954.367433		ug/L
Ti	47	944	1064	57	5.3	0.000198	<b>0.2019</b>	ug/L
Ti	48	-2694	-1165	43	3.7	0.002940	<b>0.1984</b>	ug/L
V	51	197	1473	31	2.1	0.002385	<b>0.1483</b>	ug/L
Cr	52	7265	8586	64	0.7	0.002266	<b>0.1449</b>	ug/L
Cr	53	117	253	9	3.7	0.000253	<b>0.1480</b>	ug/L
Mn	55	280	835	31	3.7	0.001033	<b>0.0495</b>	ug/L
Fe	54	39304	42017	321	0.8	0.003958	<b>4.8641</b>	ug/L
Fe	57	5552	6677	76	1.1	0.001948	<b>4.6850</b>	ug/L
Co	59	38	975	11	1.1	0.001754	<b>0.0984</b>	ug/L
Ni	60	32	432	4	0.9	0.000750	<b>0.1939</b>	ug/L
Ni	62	114	155	5	3.1	0.000074	<b>0.1817</b>	ug/L
Cu	65	49	279	4	1.3	0.001096	<b>0.0963</b>	ug/L
Cu	63	51	522	11	2.1	0.002250	<b>0.0978</b>	ug/L
Zn	66	439	632	9	1.5	0.000859	<b>0.1975</b>	ug/L
Zn	68	213	351	18	5.1	0.000631	<b>0.1937</b>	ug/L
Ge	74	202077	208486	2164	1.0	208486.391886		ug/L
As	75	-111	221	39	17.8	0.001610	<b>0.2074</b>	ug/L
As-1	75	9698	10084	160	1.6	0.000377	<b>0.2368</b>	ug/L
Se	77	129	159	7	4.4	0.000007	<b>0.1665</b>	ug/L
Se	82	20	49	9	17.5	0.000007	<b>0.1957</b>	ug/L
Sr	88	76	1303	62	4.8	0.000287	<b>0.0475</b>	ug/L
Mo	98	130	210	33	15.9	0.000018	<b>0.0204</b>	ug/L
Ag	107	40	207	7	3.4	0.000039	<b>0.0192</b>	ug/L
Ag	109	40	194	4	2.1	0.000036	<b>0.0191</b>	ug/L
Cd	111	11	35	6	17.1	0.000006	<b>0.0043</b>	ug/L
Cd	114	77	119	24	20.0	0.000009	<b>0.0101</b>	ug/L
In	115	4192305	4271030	28832	0.7	4271030.420454		ug/L

Sn	120	978	2120	1084	51.1	0.000263	<b>0.1533</b>	ug/L
Sb	121	126	171	33	19.4	0.000010	<b>0.0221</b>	ug/L
Cs	133	15	1281	18	1.4	0.000296	<b>0.0495</b>	ug/L
Ba	138	60	911	23	2.5	0.000199	<b>0.0502</b>	ug/L
Ce	140	18	249	4	1.5	0.000054	<b>0.0100</b>	ug/L
> Tm	169	1270088	1281489	7790	0.6	1281488.640047		ug/L
Tl	205	10	150	10	6.5	0.000110	<b>0.0098</b>	ug/L
Pb	208	58	559	24	4.2	0.000390	<b>0.0250</b>	ug/L
Bi	209	101	759	31	4.1	0.000513	<b>0.0500</b>	ug/L
Th	232	30	204	28	13.8	0.000136	<b>0.0217</b>	ug/L
U	238	6	236	4	1.5	0.000179	<b>0.0098</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL2

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:19:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL2.062

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	432	55	12.8	0.000718	<b>0.3077</b>	ug/L
Be	9	25	49	5	10.8	0.000043	<b>0.1003</b>	ug/L
B	11	322	1299	16	1.2	0.001777	<b>2.0560</b>	ug/L
Na	23	3977	199771	2530	1.3	0.359885	<b>29.4646</b>	ug/L
Mg	24	111	27404	1037	3.8	0.050177	<b>5.9465</b>	ug/L
Al	27	1010	13521	384	2.8	0.022943	<b>1.9997</b>	ug/L
K	39	430753	509162	5121	1.0	0.117526	<b>7.5374</b>	ug/L
Ca	44	32562	49998	686	1.4	0.030047	<b>60.2975</b>	ug/L
Sc	45	525930	543797	13837	2.5	543796.760105		ug/L
Ti	47	944	1218	59	4.8	0.000445	<b>0.3934</b>	ug/L
Ti	48	-2694	405	42	10.4	0.005866	<b>0.4057</b>	ug/L
V	51	197	2956	41	1.4	0.005065	<b>0.3078</b>	ug/L
Cr	52	7265	10132	243	2.4	0.004819	<b>0.3228</b>	ug/L
Cr	53	117	401	14	3.4	0.000516	<b>0.3092</b>	ug/L
Mn	55	280	1462	36	2.4	0.002158	<b>0.1025</b>	ug/L
Fe	54	39304	46268	1434	3.1	0.010342	<b>10.6547</b>	ug/L
Fe	57	5552	8339	247	3.0	0.004777	<b>11.2053</b>	ug/L
Co	59	38	2006	77	3.9	0.003618	<b>0.2060</b>	ug/L
Ni	60	32	922	53	5.8	0.001635	<b>0.4234</b>	ug/L
Ni	62	114	253	30	11.7	0.000251	<b>0.4738</b>	ug/L
Cu	65	49	589	11	1.8	0.002502	<b>0.2143</b>	ug/L
Cu	63	51	1089	73	6.7	0.004815	<b>0.2073</b>	ug/L
Zn	66	439	956	46	4.8	0.002280	<b>0.4101</b>	ug/L
Zn	68	213	615	13	2.1	0.001814	<b>0.4263</b>	ug/L
Ge	74	202077	214831	6888	3.2	214830.743600		ug/L
As	75	-111	552	36	6.5	0.003122	<b>0.3713</b>	ug/L
As-1	75	9698	10414	194	1.9	0.000504	<b>0.2517</b>	ug/L
Se	77	129	214	13	5.9	0.000019	<b>0.5318</b>	ug/L
Se	82	20	92	15	16.7	0.000016	<b>0.4133</b>	ug/L
Sr	88	76	2855	381	13.3	0.000637	<b>0.1100</b>	ug/L
Mo	98	130	308	50	16.1	0.000039	<b>0.0388</b>	ug/L
Ag	107	40	456	19	4.2	0.000095	<b>0.0429</b>	ug/L
Ag	109	40	444	11	2.6	0.000093	<b>0.0437</b>	ug/L
Cd	111	11	73	4	4.8	0.000014	<b>0.0201</b>	ug/L
Cd	114	77	174	16	9.0	0.000021	<b>0.0196</b>	ug/L
In	115	4192305	4351576	109844	2.5	4351576.421389		ug/L

Sn	120	978	3440	758	22.0	0.000557	<b>0.2887</b>	ug/L
Sb	121	126	233	6	2.7	0.000023	<b>0.0348</b>	ug/L
Cs	133	15	2699	31	1.1	0.000617	<b>0.1022</b>	ug/L
Ba	138	60	2006	138	6.9	0.000447	<b>0.1015</b>	ug/L
Ce	140	18	489	18	3.7	0.000108	<b>0.0201</b>	ug/L
Tm	169	1270088	1299724	16913	1.3	1299724.161315		ug/L
Tl	205	10	311	27	8.8	0.000231	<b>0.0208</b>	ug/L
Pb	208	58	1041	54	5.2	0.000755	<b>0.0497</b>	ug/L
Bi	209	101	1618	47	2.9	0.001165	<b>0.1018</b>	ug/L
Th	232	30	444	66	14.9	0.000318	<b>0.0355</b>	ug/L
U	238	6	479	18	3.7	0.000364	<b>0.0206</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL3

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:23:42

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL3.063

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2014	40	2.0	0.003609	1.5101	ug/L
Be	9	25	166	16	9.9	0.000257	0.4999	ug/L
B	11	322	5197	141	2.7	0.008893	10.0795	ug/L
Na	23	3977	969948	20830	2.1	1.766619	138.1092	ug/L
Mg	24	111	133427	2627	2.0	0.243839	27.6321	ug/L
Al	27	1010	61841	1174	1.9	0.111194	9.1747	ug/L
K	39	430753	788823	4777	0.6	0.623819	35.4586	ug/L
Ca	44	32562	117106	1284	1.1	0.152283	291.1359	ug/L
Sc	45	525930	546735	4977	0.9	546735.115520		ug/L
Ti	47	944	2370	53	2.2	0.002539	2.0180	ug/L
Ti	48	-2694	12847	225	1.7	0.028620	2.0177	ug/L
V	51	197	13762	93	0.7	0.024799	1.4827	ug/L
Cr	52	7265	19041	176	0.9	0.021017	1.4518	ug/L
Cr	53	117	1436	58	4.0	0.002405	1.4688	ug/L
Mn	55	280	5967	85	1.4	0.010382	0.4901	ug/L
Fe	54	39304	69003	529	0.8	0.051486	47.9712	ug/L
Fe	57	5552	17919	597	3.3	0.022221	51.4128	ug/L
Co	59	38	9641	33	0.3	0.017562	1.0108	ug/L
Ni	60	32	4341	45	1.0	0.007880	2.0420	ug/L
Ni	62	114	765	5	0.7	0.001183	2.0124	ug/L
Cu	65	49	2585	110	4.3	0.011962	1.0077	ug/L
Cu	63	51	5188	229	4.4	0.024240	1.0369	ug/L
Zn	66	439	3142	29	0.9	0.012668	1.9645	ug/L
Zn	68	213	2244	99	4.4	0.009543	1.9477	ug/L
Ge	74	202077	211749	3467	1.6	211749.108602		ug/L
As	75	-111	3649	165	4.5	0.017785	1.9606	ug/L
As-1	75	9698	13423	72	0.5	0.015414	2.0068	ug/L
Se	77	129	431	24	5.5	0.000068	2.0310	ug/L
Se	82	20	406	50	12.2	0.000088	2.0452	ug/L
Sr	88	76	12470	170	1.4	0.002833	0.5019	ug/L
Mo	98	130	1069	47	4.4	0.000213	0.1888	ug/L
Ag	107	40	2121	81	3.8	0.000475	0.2033	ug/L
Ag	109	40	2014	112	5.6	0.000451	0.1999	ug/L
Cd	111	11	256	1	0.4	0.000056	0.0960	ug/L
Cd	114	77	609	11	1.8	0.000121	0.0973	ug/L
In	115	4192305	4374613	52632	1.2	4374613.054504		ug/L

Sn	120	978	14434	722	5.0	0.003065	<b>1.4449</b>	ug/L
Sb	121	126	663	12	1.8	0.000121	<b>0.1273</b>	ug/L
Cs	133	15	13243	101	0.8	0.003024	<b>0.4987</b>	ug/L
Ba	138	60	9443	168	1.8	0.002144	<b>0.4532</b>	ug/L
Ce	140	18	2338	9	0.4	0.000530	<b>0.0994</b>	ug/L
Tm	169	1270088	1313900	4255	0.3	1313900.257333		ug/L
Tl	205	10	1487	38	2.6	0.001124	<b>0.1023</b>	ug/L
Pb	208	58	5083	65	1.3	0.003823	<b>0.2572</b>	ug/L
Bi	209	101	7544	122	1.6	0.005662	<b>0.4586</b>	ug/L
Th	232	30	2445	277	11.3	0.001838	<b>0.1509</b>	ug/L
U	238	6	2336	28	1.2	0.001773	<b>0.1031</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL4

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:27:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL4.064

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3232	78	2.4	0.005758	<b>2.4045</b>	ug/L
Be	9	25	309	25	8.2	0.000511	<b>0.9750</b>	ug/L
B	11	322	24420	647	2.7	0.043437	<b>49.0325</b>	ug/L
Na	23	3977	3440858	17458	0.5	6.200904	<b>480.5768</b>	ug/L
Mg	24	111	920342	10409	1.1	1.660275	<b>186.2401</b>	ug/L
Al	27	1010	318306	1781	0.6	0.572407	<b>46.6724</b>	ug/L
K	39	430753	1362351	14221	1.0	1.638940	<b>91.4407</b>	ug/L
Ca	44	32562	309865	4937	1.6	0.497106	<b>942.3218</b>	ug/L
Sc	45	525930	554327	10820	2.0	554326.883059		ug/L
Ti	47	944	4366	88	2.0	0.006085	<b>4.7690</b>	ug/L
Ti	48	-2694	35959	670	1.9	0.070023	<b>4.9510</b>	ug/L
V	51	197	45591	186	0.4	0.081894	<b>4.8820</b>	ug/L
Cr	52	7265	102284	2057	2.0	0.170715	<b>11.8856</b>	ug/L
Cr	53	117	11562	33	0.3	0.020641	<b>12.6590</b>	ug/L
Mn	55	280	29436	609	2.1	0.052570	<b>2.4782</b>	ug/L
Fe	54	39304	185627	3208	1.7	0.260167	<b>237.2423</b>	ug/L
Fe	57	5552	65968	1342	2.0	0.108447	<b>250.1600</b>	ug/L
Co	59	38	24015	416	1.7	0.043254	<b>2.4936</b>	ug/L
Ni	60	32	10511	387	3.7	0.018897	<b>4.8977</b>	ug/L
Ni	62	114	1740	43	2.5	0.002924	<b>4.8842</b>	ug/L
Cu	65	49	12894	157	1.2	0.060467	<b>5.0756</b>	ug/L
Cu	63	51	25076	430	1.7	0.117804	<b>5.0327</b>	ug/L
Zn	66	439	7768	153	2.0	0.034400	<b>5.2165</b>	ug/L
Zn	68	213	5733	39	0.7	0.025944	<b>5.1757</b>	ug/L
Ge	74	202077	212402	2331	1.1	212401.840185		ug/L
As	75	-111	9767	217	2.2	0.046534	<b>5.0769</b>	ug/L
As-1	75	9698	18936	337	1.8	0.041162	<b>5.0375</b>	ug/L
Se	77	129	1683	7	0.4	0.000347	<b>10.5262</b>	ug/L
Se	82	20	2142	33	1.5	0.000476	<b>10.8521</b>	ug/L
Sr	88	76	124766	2444	2.0	0.027976	<b>4.9902</b>	ug/L
Mo	98	130	2727	64	2.3	0.000581	<b>0.5053</b>	ug/L
Ag	107	40	10767	173	1.6	0.002406	<b>1.0182</b>	ug/L
Ag	109	40	10414	356	3.4	0.002327	<b>1.0172</b>	ug/L
Cd	111	11	1252	29	2.3	0.000278	<b>0.5012</b>	ug/L
Cd	114	77	2924	102	3.5	0.000638	<b>0.5020</b>	ug/L
In	115	4192305	4456775	63675	1.4	4456774.579497		ug/L



Sn	120	978	24789	732	3.0	0.005329	<b>2.4882</b>	ug/L
Sb	121	126	3670	278	7.6	0.000794	<b>0.7615</b>	ug/L
Cs	133	15	66125	623	0.9	0.014835	<b>2.4443</b>	ug/L
Ba	138	60	48481	1078	2.2	0.010863	<b>2.2597</b>	ug/L
Ce	140	18	11505	131	1.1	0.002578	<b>0.4839</b>	ug/L
Tm	169	1270088	1334266	7920	0.6	1334266.343974		ug/L
Tl	205	10	3769	61	1.6	0.002817	<b>0.2565</b>	ug/L
Pb	208	58	50622	387	0.8	0.037894	<b>2.5623</b>	ug/L
Bi	209	101	40424	799	2.0	0.030217	<b>2.4069</b>	ug/L
Th	232	30	7442	414	5.6	0.005556	<b>0.4331</b>	ug/L
U	238	6	11536	139	1.2	0.008641	<b>0.5049</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL5

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:31:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL5.065

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6698	66	1.0	0.011933	<b>4.9734</b>	ug/L
Be	9	25	610	30	4.9	0.001047	<b>1.9770</b>	ug/L
B	11	322	48763	1216	2.5	0.086787	<b>97.9146</b>	ug/L
Na	23	3977	6950660	232046	3.3	12.448132	<b>963.0612</b>	ug/L
Mg	24	111	9586892	223956	2.3	17.182694	<b>1924.3913</b>	ug/L
Al	27	1010	3378888	80196	2.4	6.054149	<b>492.3514</b>	ug/L
K	39	430753	10492361	286043	2.7	17.985474	<b>992.9231</b>	ug/L
Ca	44	32562	594523	15067	2.5	1.003632	<b>1898.8790</b>	ug/L
Sc	45	525930	557958	14442	2.6	557957.602558		ug/L
Ti	47	944	7973	155	1.9	0.012497	<b>9.7439</b>	ug/L
Ti	48	-2694	77713	944	1.2	0.144439	<b>10.2229</b>	ug/L
V	51	197	94351	2270	2.4	0.168732	<b>10.0520</b>	ug/L
Cr	52	7265	199904	5507	2.8	0.344471	<b>23.9961</b>	ug/L
Cr	53	117	22607	661	2.9	0.040294	<b>24.7193</b>	ug/L
Mn	55	280	282313	7348	2.6	0.505443	<b>23.8196</b>	ug/L
Fe	54	39304	333082	7239	2.2	0.522276	<b>474.9722</b>	ug/L
Fe	57	5552	126363	2427	1.9	0.215944	<b>497.9348</b>	ug/L
Co	59	38	48742	1080	2.2	0.087292	<b>5.0354</b>	ug/L
Ni	60	32	21432	523	2.4	0.038352	<b>9.9401</b>	ug/L
Ni	62	114	3388	104	3.1	0.005855	<b>9.7201</b>	ug/L
Cu	65	49	25657	481	1.9	0.120036	<b>10.0714</b>	ug/L
Cu	63	51	49926	895	1.8	0.233786	<b>9.9858</b>	ug/L
Zn	66	439	72177	1016	1.4	0.336219	<b>50.3801</b>	ug/L
Zn	68	213	54803	1134	2.1	0.255838	<b>50.4239</b>	ug/L
Ge	74	202077	213364	5862	2.7	213364.347194		ug/L
As	75	-111	19908	347	1.7	0.093876	<b>10.2085</b>	ug/L
As-1	75	9698	28116	537	1.9	0.083816	<b>10.0583</b>	ug/L
Se	77	129	3350	108	3.2	0.000713	<b>21.6548</b>	ug/L
Se	82	20	4310	146	3.4	0.000951	<b>21.6507</b>	ug/L
Sr	88	76	254614	5692	2.2	0.056482	<b>10.0790</b>	ug/L
Mo	98	130	26694	342	1.3	0.005893	<b>5.0844</b>	ug/L
Ag	107	40	21745	689	3.2	0.004816	<b>2.0348</b>	ug/L
Ag	109	40	21203	443	2.1	0.004696	<b>2.0495</b>	ug/L
Cd	111	11	2579	63	2.4	0.000570	<b>1.0316</b>	ug/L
Cd	114	77	5932	53	0.9	0.001298	<b>1.0189</b>	ug/L
In	115	4192305	4506120	74106	1.6	4506120.001321		ug/L

Sn	120	978	50150	691	1.4	0.010897	<b>5.0545</b>	ug/L
Sb	121	126	9106	490	5.4	0.001992	<b>1.8921</b>	ug/L
Cs	133	15	136374	1637	1.2	0.030262	<b>4.9855</b>	ug/L
Ba	138	60	474430	6632	1.4	0.105275	<b>21.8202</b>	ug/L
Ce	140	18	23893	291	1.2	0.005298	<b>0.9948</b>	ug/L
Tm	169	1270088	1345515	17439	1.3	1345515.324671		ug/L
Tl	205	10	7525	38	0.5	0.005586	<b>0.5089</b>	ug/L
Pb	208	58	103985	1618	1.6	0.077235	<b>5.2239</b>	ug/L
Bi	209	101	404235	4498	1.1	0.300399	<b>23.8449</b>	ug/L
Th	232	30	17669	461	2.6	0.013113	<b>1.0066</b>	ug/L
U	238	6	23760	198	0.8	0.017655	<b>1.0322</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL6

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:35:00

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL6.066

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	12885	253	2.0	0.024249	<b>10.0975</b>	ug/L
Be	9	25	1150	18	1.6	0.002124	<b>3.9893</b>	ug/L
B	11	322	235531	458	0.2	0.444023	<b>500.7369</b>	ug/L
Na	23	3977	34764570	367983	1.1	65.617034	<b>5069.3891</b>	ug/L
Mg	24	111	48310623	589167	1.2	91.189322	<b>10211.4180</b>	ug/L
Al	27	1010	16666946	244799	1.5	31.456805	<b>2557.6489</b>	ug/L
K	39	430753	50645453	161330	0.3	94.787858	<b>5228.4386</b>	ug/L
Ca	44	32562	2952677	36510	1.2	5.511431	<b>10411.7021</b>	ug/L
Sc	45	525930	529832	10005	1.9	529832.236452		ug/L
Ti	47	944	35142	567	1.6	0.064535	<b>50.1197</b>	ug/L
Ti	48	-2694	359969	7801	2.2	0.684635	<b>48.4934</b>	ug/L
V	51	197	178040	3457	1.9	0.335666	<b>19.9906</b>	ug/L
Cr	52	7265	936312	5845	0.6	1.753709	<b>122.2184</b>	ug/L
Cr	53	117	107867	872	0.8	0.203410	<b>124.8160</b>	ug/L
Mn	55	280	1325070	23402	1.8	2.500436	<b>117.8326</b>	ug/L
Fe	54	39304	1433578	8105	0.6	2.631443	<b>2387.9577</b>	ug/L
Fe	57	5552	580689	9534	1.6	1.085597	<b>2502.4449</b>	ug/L
Co	59	38	229671	2367	1.0	0.433472	<b>25.0156</b>	ug/L
Ni	60	32	103079	927	0.9	0.194519	<b>50.4175</b>	ug/L
Ni	62	114	16111	106	0.7	0.030200	<b>49.8845</b>	ug/L
Cu	65	49	119853	652	0.5	0.583780	<b>48.9639</b>	ug/L
Cu	63	51	239581	4686	2.0	1.167222	<b>49.8492</b>	ug/L
Zn	66	439	344089	2678	0.8	1.674474	<b>250.6341</b>	ug/L
Zn	68	213	261071	3918	1.5	1.270980	<b>250.2255</b>	ug/L
Ge	74	202077	205236	2577	1.3	205235.737109		ug/L
As	75	-111	95669	1713	1.8	0.466673	<b>50.6182</b>	ug/L
As-1	75	9698	102481	1814	1.8	0.451326	<b>53.3170</b>	ug/L
Se	77	129	6095	92	1.5	0.001311	<b>39.8675</b>	ug/L
Se	82	20	8351	98	1.2	0.001833	<b>41.6824</b>	ug/L
Sr	88	76	1222386	16683	1.4	0.269026	<b>48.0205</b>	ug/L
Mo	98	130	137818	2921	2.1	0.030305	<b>26.1265</b>	ug/L
Ag	107	40	109790	2005	1.8	0.024154	<b>10.1953</b>	ug/L
Ag	109	40	106419	1618	1.5	0.023412	<b>10.2048</b>	ug/L
Cd	111	11	12817	180	1.4	0.002818	<b>5.1266</b>	ug/L
Cd	114	77	29532	633	2.1	0.006481	<b>5.0748</b>	ug/L
In	115	4192305	4543803	69698	1.5	4543803.230401		ug/L

Sn	120	978	99872	1066	1.1	0.021748	<b>10.0559</b>	ug/L
Sb	121	126	21173	1277	6.0	0.004631	<b>4.3819</b>	ug/L
Cs	133	15	274610	3424	1.2	0.060434	<b>9.9556</b>	ug/L
Ba	138	60	2920447	40750	1.4	0.642727	<b>133.1720</b>	ug/L
Ce	140	18	120063	318	0.3	0.026424	<b>4.9622</b>	ug/L
Tm	169	1270088	1355001	9462	0.7	1355000.769340		ug/L
Tl	205	10	36947	327	0.9	0.027260	<b>2.4847</b>	ug/L
Pb	208	58	202731	1410	0.7	0.149573	<b>10.1177</b>	ug/L
Bi	209	101	1971512	14431	0.7	1.454931	<b>115.4529</b>	ug/L
Th	232	30	40242	800	2.0	0.029674	<b>2.2637</b>	ug/L
U	238	6	46924	578	1.2	0.034625	<b>2.0250</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL7

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:38:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL7.067

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	29152	644	2.2	0.060119	<b>25.0213</b>	ug/L
Be	9	25	2633	17	0.6	0.005391	<b>10.0943</b>	ug/L
B	11	322	433724	5429	1.3	0.894943	<b>1009.1985</b>	ug/L
Na	23	3977	65388819	1197377	1.8	135.007947	<b>10428.5714</b>	ug/L
Mg	24	111	91151334	790714	0.9	188.209210	<b>21075.3965</b>	ug/L
Al	27	1010	31235616	133912	0.4	64.492508	<b>5243.5316</b>	ug/L
K	39	430753	94135387	1461261	1.6	193.550788	<b>10675.0392</b>	ug/L
Ca	44	32562	5392353	64632	1.2	11.072313	<b>20913.2346</b>	ug/L
Sc	45	525930	484316	1529	0.3	484315.921038		ug/L
Ti	47	944	64812	483	0.7	0.132028	<b>102.4862</b>	ug/L
Ti	48	-2694	656560	14808	2.3	1.360804	<b>96.3969</b>	ug/L
V	51	197	407590	9010	2.2	0.841237	<b>50.0905</b>	ug/L
Cr	52	7265	1687865	40715	2.4	3.471414	<b>241.9404</b>	ug/L
Cr	53	117	196766	4045	2.1	0.406075	<b>249.1812</b>	ug/L
Mn	55	280	2763695	41946	1.5	5.706012	<b>268.8936</b>	ug/L
Fe	54	39304	2913964	28742	1.0	5.942044	<b>5390.6292</b>	ug/L
Fe	57	5552	1025560	5309	0.5	2.107015	<b>4856.7648</b>	ug/L
Co	59	38	414871	7005	1.7	0.856574	<b>49.4356</b>	ug/L
Ni	60	32	184691	2343	1.3	0.381297	<b>98.8290</b>	ug/L
Ni	62	114	28925	1117	3.9	0.059513	<b>98.2441</b>	ug/L
Cu	65	49	217089	3061	1.4	1.160780	<b>97.3548</b>	ug/L
Cu	63	51	425798	4075	1.0	2.277070	<b>97.2465</b>	ug/L
Zn	66	439	610746	9815	1.6	3.264149	<b>488.5101</b>	ug/L
Zn	68	213	460762	6508	1.4	2.463167	<b>484.8735</b>	ug/L
Ge	74	202077	186981	2573	1.4	186980.556917		ug/L
As	75	-111	172005	2687	1.6	0.920504	<b>99.8115</b>	ug/L
As-1	75	9698	174880	2975	1.7	0.887326	<b>104.6375</b>	ug/L
Se	77	129	13748	146	1.1	0.002997	<b>91.1818</b>	ug/L
Se	82	20	18798	249	1.3	0.004136	<b>93.9795</b>	ug/L
Sr	88	76	2679912	32653	1.2	0.590282	<b>105.3683</b>	ug/L
Mo	98	130	269277	1242	0.5	0.059277	<b>51.0991</b>	ug/L
Ag	107	40	209476	1857	0.9	0.046121	<b>19.4644</b>	ug/L
Ag	109	40	201177	3176	1.6	0.044289	<b>19.3019</b>	ug/L
Cd	111	11	25188	393	1.6	0.005544	<b>10.0906</b>	ug/L
Cd	114	77	58569	1151	2.0	0.012878	<b>10.0820</b>	ug/L
In	115	4192305	4541444	78820	1.7	4541443.660913		ug/L

Sn	120	978	249401	4025	1.6	0.054685	<b>25.2367</b>	ug/L
Sb	121	126	59399	2495	4.2	0.013057	<b>12.3311</b>	ug/L
Cs	133	15	680096	9168	1.3	0.149757	<b>24.6691</b>	ug/L
Ba	138	60	5910392	67124	1.1	1.301511	<b>269.6618</b>	ug/L
Ce	140	18	241237	3027	1.3	0.053119	<b>9.9754</b>	ug/L
Tm	169	1270088	1345019	11188	0.8	1345018.615925		ug/L
Tl	205	10	72271	832	1.2	0.053724	<b>4.8971</b>	ug/L
Pb	208	58	482842	3368	0.7	0.358943	<b>24.2824</b>	ug/L
Bi	209	101	4844381	31310	0.6	3.601846	<b>285.8028</b>	ug/L
Th	232	30	102096	1230	1.2	0.075889	<b>5.7714</b>	ug/L
U	238	6	112803	548	0.5	0.083868	<b>4.9058</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CAL8

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:42:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 9

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CAL8.068

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51691	1784	3.5	0.121571	<b>50.5885</b>	ug/L
Be	9	25	4685	136	2.9	0.010979	<b>20.5394</b>	ug/L
B	11	322	759809	27236	3.6	1.787443	<b>2015.5912</b>	ug/L
Na	23	3977	120784838	3836688	3.2	284.259832	<b>21955.5572</b>	ug/L
Mg	24	111	167885398	5095872	3.0	395.122581	<b>44244.8977</b>	ug/L
Al	27	1010	56601210	1534260	2.7	133.217157	<b>10831.0122</b>	ug/L
K	39	430753	170928707	3838214	2.2	401.517454	<b>22144.0325</b>	ug/L
Ca	44	32562	9415816	354296	3.8	22.095542	<b>41730.2232</b>	ug/L
Sc	45	525930	424865	11005	2.6	424865.184336		ug/L
Ti	47	944	114914	3821	3.3	0.268642	<b>208.4824</b>	ug/L
Ti	48	-2694	1246110	191746	15.4	2.931802	<b>207.6950</b>	ug/L
V	51	197	723520	16364	2.3	1.702662	<b>101.3766</b>	ug/L
Cr	52	7265	3461675	90945	2.6	8.133839	<b>566.9060</b>	ug/L
Cr	53	117	348613	9549	2.7	0.820288	<b>503.3640</b>	ug/L
Mn	55	280	4701766	137582	2.9	11.065397	<b>521.4519</b>	ug/L
Fe	54	39304	5043653	136817	2.7	11.796608	<b>10700.6403</b>	ug/L
Fe	57	5552	1747055	45767	2.6	4.101447	<b>9453.8370</b>	ug/L
Co	59	38	722508	14016	1.9	1.700676	<b>98.1541</b>	ug/L
Ni	60	32	321553	8416	2.6	0.756783	<b>196.1523</b>	ug/L
Ni	62	114	50116	1116	2.2	0.117750	<b>194.3230</b>	ug/L
Cu	65	49	376428	7851	2.1	2.343348	<b>196.5324</b>	ug/L
Cu	63	51	732664	16688	2.3	4.560995	<b>194.7840</b>	ug/L
Zn	66	439	1046715	36901	3.5	6.512641	<b>974.6083</b>	ug/L
Zn	68	213	798383	32781	4.1	4.967432	<b>977.7666</b>	ug/L
Ge	74	202077	160658	5099	3.2	160658.100763		ug/L
As	75	-111	298663	9071	3.0	1.859613	<b>201.6068</b>	ug/L
As-1	75	9698	296014	9620	3.2	1.794495	<b>211.4182</b>	ug/L
Se	77	129	23231	773	3.3	0.005120	<b>155.7864</b>	ug/L
Se	82	20	32417	1117	3.4	0.007183	<b>163.1891</b>	ug/L
Sr	88	76	4682242	213998	4.6	1.038147	<b>185.3173</b>	ug/L
Mo	98	130	508338	12888	2.5	0.112683	<b>97.1327</b>	ug/L
Ag	107	40	393617	4770	1.2	0.087270	<b>36.8286</b>	ug/L
Ag	109	40	383708	4498	1.2	0.085073	<b>37.0727</b>	ug/L
Cd	111	11	47792	656	1.4	0.010595	<b>19.2889</b>	ug/L
Cd	114	77	113943	1354	1.2	0.025248	<b>19.7624</b>	ug/L
In	115	4192305	4509746	15085	0.3	4509745.681265		ug/L

Sn	120	978	505099	2258	0.4	0.111768	<b>51.5470</b>	ug/L
Sb	121	126	129318	5663	4.4	0.028643	<b>27.0355</b>	ug/L
Cs	133	15	1414624	10798	0.8	0.313685	<b>51.6719</b>	ug/L
Ba	138	60	12558712	181349	1.4	2.784881	<b>576.9930</b>	ug/L
Ce	140	18	503630	4960	1.0	0.111675	<b>20.9721</b>	ug/L
Tm	169	1270088	1377065	9635	0.7	1377065.229910		ug/L
Tl	205	10	142402	1651	1.2	0.103408	<b>9.4262</b>	ug/L
Pb	208	58	941400	6285	0.7	0.683607	<b>46.2472</b>	ug/L
Bi	209	101	9384490	20858	0.2	6.814945	<b>540.7507</b>	ug/L
Th	232	30	202142	1572	0.8	0.146777	<b>11.1519</b>	ug/L
U	238	6	217215	2062	0.9	0.157741	<b>9.2275</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-ICB2

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 15:46:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB2.069

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	103	8	7.3	0.000147	<b>0.0701</b>	ug/L
Be	9	25	28	9	32.7	0.000014	<b>0.0455</b>	ug/L
B	11	322	4292	1179	27.5	0.008592	<b>9.7411</b>	ug/L
Na	23	3977	17223	4919	28.6	0.029541	<b>3.9516</b>	ug/L
Mg	24	111	6469	8999	139.1	0.013948	<b>1.8897</b>	ug/L
Al	27	1010	2967	2822	95.1	0.004544	<b>0.5038</b>	ug/L
K	39	430753	428498	8599	2.0	0.106420	<b>6.9250</b>	ug/L
Ca	44	32562	32991	572	1.7	0.009385	<b>21.2780</b>	ug/L
Sc	45	525930	463481	20915	4.5	463480.977876		ug/L
Ti	47	944	920	22	2.4	0.000192	<b>0.1969</b>	ug/L
Ti	48	-2694	-2473	52	2.1	-0.000220	<b>-0.0254</b>	ug/L
V	51	197	250	25	10.0	0.000168	<b>0.0163</b>	ug/L
Cr	52	7265	7257	482	6.6	0.001861	<b>0.1167</b>	ug/L
Cr	53	117	175	113	64.4	0.000159	<b>0.0906</b>	ug/L
Mn	55	280	4819	7785	161.5	0.010061	<b>0.4749</b>	ug/L
Fe	54	39304	38313	6310	16.5	0.008119	<b>8.6379</b>	ug/L
Fe	57	5552	7797	4995	64.1	0.006400	<b>14.9468</b>	ug/L
Co	59	38	1268	2101	165.8	0.002715	<b>0.1539</b>	ug/L
Ni	60	32	587	949	161.9	0.001229	<b>0.3182</b>	ug/L
Ni	62	114	192	127	66.3	0.000200	<b>0.3910</b>	ug/L
Cu	65	49	502	777	154.7	0.002581	<b>0.2209</b>	ug/L
Cu	63	51	1087	1711	157.4	0.005857	<b>0.2518</b>	ug/L
Zn	66	439	1573	2030	129.1	0.006654	<b>1.0646</b>	ug/L
Zn	68	213	998	1354	135.6	0.004553	<b>0.9655</b>	ug/L
Ge	74	202077	179949	6165	3.4	179948.886989		ug/L
As	75	-111	783	389	49.6	0.004939	<b>0.5682</b>	ug/L
As-1	75	9698	9663	371	3.8	0.005758	<b>0.8703</b>	ug/L
Se	77	129	253	30	11.8	0.000025	<b>0.7411</b>	ug/L
Se	82	20	194	37	18.9	0.000038	<b>0.9143</b>	ug/L
Sr	88	76	1705	2763	162.0	0.000369	<b>0.0622</b>	ug/L
Mo	98	130	5855	714	12.2	0.001271	<b>1.1006</b>	ug/L
Ag	107	40	446	171	38.3	0.000089	<b>0.0403</b>	ug/L
Ag	109	40	423	150	35.5	0.000084	<b>0.0400</b>	ug/L
Cd	111	11	34	23	65.5	0.000005	<b>0.0034</b>	ug/L
Cd	114	77	93	58	62.8	0.000002	<b>0.0046</b>	ug/L
In	115	4192305	4517963	212644	4.7	4517963.066989		ug/L

Sn	120	978	4014	2228	55.5	0.000666	<b>0.3392</b>	ug/L
Sb	121	126	6925	422	6.1	0.001507	<b>1.4349</b>	ug/L
Cs	133	15	234	328	140.3	0.000049	<b>0.0088</b>	ug/L
Ba	138	60	1370	2143	156.4	0.000297	<b>0.0704</b>	ug/L
Ce	140	18	61	58	94.5	0.000010	<b>0.0016</b>	ug/L
> Tm	169	1270088	1309209	40135	3.1	1309208.886473		ug/L
Tl	205	10	296	46	15.6	0.000219	<b>0.0197</b>	ug/L
Pb	208	58	147	130	88.4	0.000067	<b>0.0032</b>	ug/L
Bi	209	101	14189	2806	19.8	0.010806	<b>0.8667</b>	ug/L
Th	232	30	766	180	23.5	0.000564	<b>0.0542</b>	ug/L
U	238	6	41	23	55.1	0.000027	<b>0.0009</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	88.126
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	89.050
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.768
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.080
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-ICV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 15:50:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICV1.070

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	14897	331	2.2	0.031037	<b>12.9216</b>	ug/L
Be	9	25	290	26	9.0	0.000558	<b>1.0628</b>	ug/L
B	11	322	23819	397	1.7	0.049138	<b>55.4610</b>	ug/L
Na	23	3977	3191458	95366	3.0	6.656594	<b>515.7706</b>	ug/L
Mg	24	111	839668	25057	3.0	1.753124	<b>196.6371</b>	ug/L
Al	27	1010	287281	9242	3.2	0.597944	<b>48.7487</b>	ug/L
K	39	430753	1245010	24291	2.0	1.781137	<b>99.2826</b>	ug/L
Ca	44	32562	284040	7136	2.5	0.531249	<b>1006.8004</b>	ug/L
Sc	45	525930	478855	11550	2.4	478855.186623		ug/L
Ti	47	944	4045	148	3.7	0.006649	<b>5.2069</b>	ug/L
Ti	48	-2694	32030	1532	4.8	0.071988	<b>5.0902</b>	ug/L
V	51	197	42719	1772	4.1	0.088811	<b>5.2938</b>	ug/L
Cr	52	7265	97891	2709	2.8	0.190603	<b>13.2717</b>	ug/L
Cr	53	117	10773	598	5.6	0.022266	<b>13.6562</b>	ug/L
Mn	55	280	26950	2938	10.9	0.055673	<b>2.6244</b>	ug/L
Fe	54	39304	167746	8337	5.0	0.275431	<b>251.0866</b>	ug/L
Fe	57	5552	59120	3026	5.1	0.112852	<b>260.3124</b>	ug/L
Co	59	38	23001	902	3.9	0.047951	<b>2.7647</b>	ug/L
Ni	60	32	10264	428	4.2	0.021368	<b>5.5381</b>	ug/L
Ni	62	114	1711	51	3.0	0.003358	<b>5.6006</b>	ug/L
Cu	65	49	12005	387	3.2	0.063956	<b>5.3682</b>	ug/L
Cu	63	51	23815	1100	4.6	0.127063	<b>5.4281</b>	ug/L
Zn	66	439	6805	450	6.6	0.034196	<b>5.1860</b>	ug/L
Zn	68	213	5138	266	5.2	0.026415	<b>5.2685</b>	ug/L
Ge	74	202077	186992	5683	3.0	186991.695268		ug/L
As	75	-111	9787	611	6.2	0.052859	<b>5.7625</b>	ug/L
As-1	75	9698	18039	846	4.7	0.048457	<b>5.8962</b>	ug/L
Se	77	129	1539	48	3.1	0.000299	<b>9.0797</b>	ug/L
Se	82	20	2021	62	3.1	0.000429	<b>9.7810</b>	ug/L
Sr	88	76	120037	4550	3.8	0.025729	<b>4.5892</b>	ug/L
Mo	98	130	4356	592	13.6	0.000902	<b>0.7821</b>	ug/L
Ag	107	40	12529	379	3.0	0.002679	<b>1.1330</b>	ug/L
Ag	109	40	12008	512	4.3	0.002566	<b>1.1215</b>	ug/L
Cd	111	11	1363	69	5.0	0.000290	<b>0.5217</b>	ug/L
Cd	114	77	3156	68	2.2	0.000659	<b>0.5182</b>	ug/L
In	115	4192305	4661991	133809	2.9	4661991.352933		ug/L

Sn	120	978	28150	1387	4.9	0.005803	<b>2.7066</b>	ug/L
Sb	121	126	10730	553	5.2	0.002271	<b>2.1553</b>	ug/L
Cs	133	15	74376	1212	1.6	0.015954	<b>2.6286</b>	ug/L
Ba	138	60	53720	1466	2.7	0.011509	<b>2.3935</b>	ug/L
Ce	140	18	44	33	76.0	0.000005	<b>0.0008</b>	ug/L
> Tm	169	1270088	1347958	15877	1.2	1347957.695704		ug/L
Tl	205	10	4378	176	4.0	0.003240	<b>0.2951</b>	ug/L
Pb	208	58	53583	917	1.7	0.039704	<b>2.6847</b>	ug/L
Bi	209	101	44052	1755	4.0	0.032596	<b>2.5957</b>	ug/L
Th	232	30	9179	97	1.1	0.006787	<b>0.5265</b>	ug/L
U	238	6	12017	251	2.1	0.008910	<b>0.5206</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	91.049
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	92.535
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.204
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.131
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-ICB3

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 16:02:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB3.071

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	70	24	34.0	0.000060	<b>0.0335</b>	ug/L
Be	9	25	30	2	6.9	0.000011	<b>0.0401</b>	ug/L
B	11	322	1189	218	18.3	0.001667	<b>1.9316</b>	ug/L
Na	23	3977	21477	29312	136.5	0.035463	<b>4.4090</b>	ug/L
Mg	24	111	21537	37052	172.0	0.043496	<b>5.1983</b>	ug/L
Al	27	1010	8468	12776	150.9	0.015133	<b>1.3648</b>	ug/L
K	39	430753	447701	22515	5.0	0.034631	<b>2.9660</b>	ug/L
Ca	44	32562	35696	1308	3.7	0.006114	<b>15.1008</b>	ug/L
Sc	45	525930	526634	29939	5.7	526633.670196		ug/L
Ti	47	944	919	31	3.3	-0.000045	<b>0.0129</b>	ug/L
Ti	48	-2694	-2704	105	3.9	-0.000016	<b>-0.0110</b>	ug/L
V	51	197	284	85	29.8	0.000173	<b>0.0166</b>	ug/L
Cr	52	7265	7942	159	2.0	0.001306	<b>0.0780</b>	ug/L
Cr	53	117	148	57	38.9	0.000064	<b>0.0321</b>	ug/L
Mn	55	280	520	385	73.9	0.000486	<b>0.0237</b>	ug/L
Fe	54	39304	39624	1838	4.6	0.000539	<b>1.7629</b>	ug/L
Fe	57	5552	6002	358	6.0	0.000839	<b>2.1279</b>	ug/L
Co	59	38	66	46	70.1	0.000057	<b>0.0005</b>	ug/L
Ni	60	32	48	27	57.7	0.000032	<b>0.0080</b>	ug/L
Ni	62	114	132	15	11.1	0.000035	<b>0.1184</b>	ug/L
Cu	65	49	67	15	22.0	0.000083	<b>0.0114</b>	ug/L
Cu	63	51	96	34	35.3	0.000216	<b>0.0109</b>	ug/L
Zn	66	439	451	59	13.0	-0.000003	<b>0.0684</b>	ug/L
Zn	68	213	231	12	5.2	0.000052	<b>0.0796</b>	ug/L
Ge	74	202077	210587	18078	8.6	210586.728806		ug/L
As	75	-111	15	30	193.3	0.000614	<b>0.0994</b>	ug/L
As-1	75	9698	9658	414	4.3	-0.002007	<b>-0.0438</b>	ug/L
Se	77	129	170	24	14.1	0.000004	<b>0.0879</b>	ug/L
Se	82	20	39	6	14.2	0.000003	<b>0.1162</b>	ug/L
Sr	88	76	130	79	61.1	0.000009	<b>-0.0021</b>	ug/L
Mo	98	130	1262	599	47.5	0.000223	<b>0.1971</b>	ug/L
Ag	107	40	74	17	22.8	0.000006	<b>0.0052</b>	ug/L
Ag	109	40	74	7	8.8	0.000006	<b>0.0059</b>	ug/L
Cd	111	11	14	3	21.4	0.000000	<b>-0.0053</b>	ug/L
Cd	114	77	73	7	10.2	-0.000004	<b>-0.0000</b>	ug/L
In	115	4192305	4893394	287324	5.9	4893393.592633		ug/L

Sn	120	978	2284	1630	71.4	0.000226	<b>0.1361</b>	ug/L
Sb	121	126	1026	417	40.6	0.000177	<b>0.1796</b>	ug/L
Cs	133	15	26	19	73.7	0.000002	<b>0.0010</b>	ug/L
Ba	138	60	122	82	67.4	0.000011	<b>0.0113</b>	ug/L
Ce	140	18	21	11	51.7	0.000000	<b>-0.0001</b>	ug/L
> Tm	169	1270088	1386247	50170	3.6	1386246.714929		ug/L
Tl	205	10	63	48	75.8	0.000039	<b>0.0033</b>	ug/L
Pb	208	58	425	635	149.6	0.000272	<b>0.0170</b>	ug/L
Bi	209	101	4488	3801	84.7	0.003227	<b>0.2654</b>	ug/L
Th	232	30	576	79	13.8	0.000391	<b>0.0411</b>	ug/L
U	238	6	83	119	144.0	0.000057	<b>0.0027</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.134
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.211
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.723
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	109.146
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-ICV2

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 16:06:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 10

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICV2.072

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	15968	216	1.4	0.028713	<b>11.9547</b>	ug/L
Be	9	25	320	14	4.3	0.000530	<b>1.0100</b>	ug/L
B	11	322	25090	393	1.6	0.044625	<b>50.3718</b>	ug/L
Na	23	3977	3529929	66459	1.9	6.356094	<b>492.5624</b>	ug/L
Mg	24	111	910744	17465	1.9	1.641670	<b>184.1568</b>	ug/L
Al	27	1010	317848	5893	1.9	0.571090	<b>46.5654</b>	ug/L
K	39	430753	1354915	18825	1.4	1.623686	<b>90.5995</b>	ug/L
Ca	44	32562	319805	3598	1.1	0.514670	<b>975.4910</b>	ug/L
Sc	45	525930	554686	8330	1.5	554685.887964		ug/L
Ti	47	944	4417	132	3.0	0.006167	<b>4.8333</b>	ug/L
Ti	48	-2694	35763	987	2.8	0.069589	<b>4.9202</b>	ug/L
V	51	197	48200	1430	3.0	0.086516	<b>5.1572</b>	ug/L
Cr	52	7265	109360	2799	2.6	0.183346	<b>12.7659</b>	ug/L
Cr	53	117	12004	382	3.2	0.021421	<b>13.1378</b>	ug/L
Mn	55	280	29512	548	1.9	0.052671	<b>2.4829</b>	ug/L
Fe	54	39304	189525	1171	0.6	0.266978	<b>243.4201</b>	ug/L
Fe	57	5552	68061	1054	1.5	0.112161	<b>258.7214</b>	ug/L
Co	59	38	25954	193	0.7	0.046721	<b>2.6938</b>	ug/L
Ni	60	32	11506	247	2.1	0.020682	<b>5.3603</b>	ug/L
Ni	62	114	1935	63	3.3	0.003272	<b>5.4578</b>	ug/L
Cu	65	49	13632	23	0.2	0.061767	<b>5.1846</b>	ug/L
Cu	63	51	27029	209	0.8	0.122689	<b>5.2413</b>	ug/L
Zn	66	439	7807	24	0.3	0.033340	<b>5.0578</b>	ug/L
Zn	68	213	5842	41	0.7	0.025521	<b>5.0924</b>	ug/L
Ge	74	202077	219853	2085	0.9	219853.173441		ug/L
As	75	-111	10651	402	3.8	0.048989	<b>5.3430</b>	ug/L
As-1	75	9698	19523	473	2.4	0.040801	<b>4.9950</b>	ug/L
Se	77	129	1812	51	2.8	0.000320	<b>9.7070</b>	ug/L
Se	82	20	2316	52	2.2	0.000443	<b>10.1145</b>	ug/L
Sr	88	76	140897	2170	1.5	0.027251	<b>4.8608</b>	ug/L
Mo	98	130	3592	283	7.9	0.000664	<b>0.5770</b>	ug/L
Ag	107	40	13720	354	2.6	0.002646	<b>1.1192</b>	ug/L
Ag	109	40	13372	673	5.0	0.002578	<b>1.1267</b>	ug/L
Cd	111	11	1463	38	2.6	0.000281	<b>0.5051</b>	ug/L
Cd	114	77	3440	82	2.4	0.000647	<b>0.5094</b>	ug/L
In	115	4192305	5166832	57871	1.1	5166832.343795		ug/L



Sn	120	978	29360	1022	3.5	0.005448	<b>2.5432</b>	ug/L
Sb	121	126	5671	190	3.4	0.001068	<b>1.0199</b>	ug/L
Cs	133	15	77331	421	0.5	0.014964	<b>2.4656</b>	ug/L
Ba	138	60	55333	350	0.6	0.010695	<b>2.2249</b>	ug/L
Ce	140	18	27	4	16.1	0.000001	<b>0.0000</b>	ug/L
> Tm	169	1270088	1440584	12980	0.9	1440584.135711		ug/L
Tl	205	10	4287	30	0.7	0.002968	<b>0.2703</b>	ug/L
Pb	208	58	57001	666	1.2	0.039522	<b>2.6724</b>	ug/L
Bi	209	101	43894	826	1.9	0.030388	<b>2.4205</b>	ug/L
Th	232	30	8653	229	2.6	0.005984	<b>0.4656</b>	ug/L
U	238	6	12907	206	1.6	0.008955	<b>0.5232</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.468
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.797
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	123.246
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	113.424
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-ICB4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:13:31

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB4.073

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	64	3	5.4	0.000049	<b>0.0293</b>	ug/L
Be	9	25	25	5	18.3	0.000001	<b>0.0223</b>	ug/L
B	11	322	741	28	3.8	0.000825	<b>0.9828</b>	ug/L
Na	23	3977	4418	309	7.0	0.001001	<b>1.7474</b>	ug/L
Mg	24	111	128	27	21.3	0.000036	<b>0.3318</b>	ug/L
Al	27	1010	1067	169	15.8	0.000145	<b>0.1462</b>	ug/L
K	39	430753	431886	7405	1.7	0.018930	<b>2.1001</b>	ug/L
Ca	44	32562	35028	269	0.8	0.006069	<b>15.0166</b>	ug/L
Sc	45	525930	515773	21789	4.2	515772.586489		ug/L
Ti	47	944	964	34	3.5	0.000076	<b>0.1073</b>	ug/L
Ti	48	-2694	-2850	17	0.6	-0.000411	<b>-0.0390</b>	ug/L
V	51	197	237	15	6.3	0.000087	<b>0.0115</b>	ug/L
Cr	52	7265	7494	481	6.4	0.000707	<b>0.0362</b>	ug/L
Cr	53	117	125	9	7.3	0.000021	<b>0.0060</b>	ug/L
Mn	55	280	276	22	7.8	0.000005	<b>0.0011</b>	ug/L
Fe	54	39304	38562	2173	5.6	0.000003	<b>1.2770</b>	ug/L
Fe	57	5552	5728	471	8.2	0.000536	<b>1.4303</b>	ug/L
Co	59	38	40	2	4.3	0.000005	<b>-0.0025</b>	ug/L
Ni	60	32	27	10	37.7	-0.000008	<b>-0.0026</b>	ug/L
Ni	62	114	125	6	4.9	0.000027	<b>0.1047</b>	ug/L
Cu	65	49	56	6	9.9	0.000030	<b>0.0069</b>	ug/L
Cu	63	51	72	7	10.3	0.000094	<b>0.0057</b>	ug/L
Zn	66	439	433	11	2.4	-0.000069	<b>0.0586</b>	ug/L
Zn	68	213	194	14	7.3	-0.000111	<b>0.0475</b>	ug/L
Ge	74	202077	206855	13384	6.5	206855.276049		ug/L
As	75	-111	-107	95	89.2	0.000032	<b>0.0362</b>	ug/L
As-1	75	9698	9423	252	2.7	-0.002364	<b>-0.0858</b>	ug/L
Se	77	129	152	25	16.3	0.000001	<b>0.0130</b>	ug/L
Se	82	20	22	21	94.9	-0.000000	<b>0.0362</b>	ug/L
Sr	88	76	80	8	10.4	-0.000001	<b>-0.0039</b>	ug/L
Mo	98	130	498	207	41.6	0.000073	<b>0.0678</b>	ug/L
Ag	107	40	82	8	9.3	0.000008	<b>0.0061</b>	ug/L
Ag	109	40	87	9	10.1	0.000009	<b>0.0073</b>	ug/L
Cd	111	11	12	4	30.0	-0.000000	<b>-0.0060</b>	ug/L
Cd	114	77	68	15	22.8	-0.000004	<b>-0.0004</b>	ug/L
In	115	4192305	4719657	250937	5.3	4719656.929188		ug/L

Sn	120	978	1406	1029	73.2	0.000059	<b>0.0593</b>	ug/L
Sb	121	126	758	273	36.0	0.000129	<b>0.1341</b>	ug/L
Cs	133	15	26	17	64.7	0.000002	<b>0.0010</b>	ug/L
Ba	138	60	69	15	21.1	0.000000	<b>0.0091</b>	ug/L
Ce	140	18	15	2	13.3	-0.000001	<b>-0.0004</b>	ug/L
> Tm	169	1270088	1357099	45969	3.4	1357099.458317		ug/L
Tl	205	10	16	2	14.7	0.000004	<b>0.0001</b>	ug/L
Pb	208	58	61	7	10.7	-0.000001	<b>-0.0015</b>	ug/L
Bi	209	101	641	293	45.7	0.000388	<b>0.0401</b>	ug/L
Th	232	30	317	101	31.7	0.000209	<b>0.0272</b>	ug/L
U	238	6	11	3	25.5	0.000004	<b>-0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	98.069
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.365
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.579
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.851
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-IBL1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:17:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 101

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-IBL1.074

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	54	11	20.1	0.000039	<b>0.0249</b>	ug/L
Be	9	25	36	10	28.1	0.000028	<b>0.0727</b>	ug/L
B	11	322	595	44	7.4	0.000646	<b>0.7801</b>	ug/L
Na	23	3977	3710	55	1.5	0.000278	<b>1.6916</b>	ug/L
Mg	24	111	133	13	9.8	0.000069	<b>0.3356</b>	ug/L
Al	27	1010	786	30	3.9	-0.000260	<b>0.1133</b>	ug/L
K	39	430753	420752	1655	0.4	0.069910	<b>4.9115</b>	ug/L
Ca	44	32562	34787	196	0.6	0.011581	<b>25.4246</b>	ug/L
Sc	45	525930	473365	6646	1.4	473364.517982		ug/L
Ti	47	944	983	11	1.2	0.000282	<b>0.2669</b>	ug/L
Ti	48	-2694	-2868	34	1.2	-0.000938	<b>-0.0763</b>	ug/L
V	51	197	234	6	2.4	0.000121	<b>0.0135</b>	ug/L
Cr	52	7265	7104	127	1.8	0.001195	<b>0.0702</b>	ug/L
Cr	53	117	120	12	9.7	0.000032	<b>0.0124</b>	ug/L
Mn	55	280	280	19	6.8	0.000059	<b>0.0036</b>	ug/L
Fe	54	39304	36153	228	0.6	0.001652	<b>2.7728</b>	ug/L
Fe	57	5552	5180	212	4.1	0.000385	<b>1.0830</b>	ug/L
Co	59	38	36	8	21.2	0.000003	<b>-0.0027</b>	ug/L
Ni	60	32	33	11	32.5	0.000010	<b>0.0023</b>	ug/L
Ni	62	114	113	12	10.3	0.000023	<b>0.0992</b>	ug/L
Cu	65	49	52	5	10.2	0.000036	<b>0.0074</b>	ug/L
Cu	63	51	70	5	6.8	0.000119	<b>0.0068</b>	ug/L
Zn	66	439	301	23	7.6	-0.000566	<b>-0.0158</b>	ug/L
Zn	68	213	111	28	25.4	-0.000461	<b>-0.0213</b>	ug/L
Ge	74	202077	187724	3300	1.8	187723.792142		ug/L
As	75	-111	-92	61	65.9	0.000058	<b>0.0391</b>	ug/L
As-1	75	9698	9045	59	0.7	0.000206	<b>0.2168</b>	ug/L
Se	77	129	118	15	13.0	-0.000004	<b>-0.1480</b>	ug/L
Se	82	20	10	15	150.8	-0.000002	<b>-0.0148</b>	ug/L
Sr	88	76	69	7	10.0	-0.000002	<b>-0.0042</b>	ug/L
Mo	98	130	291	123	42.3	0.000036	<b>0.0354</b>	ug/L
Ag	107	40	56	9	15.3	0.000003	<b>0.0041</b>	ug/L
Ag	109	40	62	7	10.4	0.000005	<b>0.0055</b>	ug/L
Cd	111	11	19	1	6.2	0.000002	<b>-0.0028</b>	ug/L
Cd	114	77	42	30	70.2	-0.000009	<b>-0.0041</b>	ug/L
In	115	4192305	4375386	10630	0.2	4375385.875172		ug/L

Sn	120	978	940	957	101.8	-0.000018	<b>0.0237</b>	ug/L
Sb	121	126	471	83	17.5	0.000078	<b>0.0858</b>	ug/L
Cs	133	15	19	3	16.6	0.000001	<b>0.0008</b>	ug/L
Ba	138	60	64	5	8.3	0.000000	<b>0.0090</b>	ug/L
Ce	140	18	16	3	16.5	-0.000001	<b>-0.0003</b>	ug/L
> Tm	169	1270088	1283084	8551	0.7	1283083.569526		ug/L
Tl	205	10	21	1	2.8	0.000008	<b>0.0005</b>	ug/L
Pb	208	58	84	15	17.4	0.000019	<b>-0.0001</b>	ug/L
Bi	209	101	282	78	27.6	0.000140	<b>0.0204</b>	ug/L
Th	232	30	99	21	21.5	0.000054	<b>0.0155</b>	ug/L
U	238	6	11	1	9.1	0.000004	<b>-0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	90.005
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	92.897
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	104.367
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.023
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-IBL2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:21:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-IBL2.075

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	40	4	10.0	0.000008	<b>0.0123</b>	ug/L
Be	9	25	31	5	17.1	0.000017	<b>0.0514</b>	ug/L
B	11	322	617	55	8.9	0.000659	<b>0.7951</b>	ug/L
Na	23	3977	4203	103	2.5	0.001098	<b>1.7549</b>	ug/L
Mg	24	111	207	9	4.2	0.000214	<b>0.3518</b>	ug/L
Al	27	1010	889	18	2.0	-0.000089	<b>0.1272</b>	ug/L
K	39	430753	423606	686	0.2	0.053803	<b>4.0233</b>	ug/L
Ca	44	32562	34748	101	0.3	0.009683	<b>21.8415</b>	ug/L
Sc	45	525930	485336	3294	0.7	485335.835015		ug/L
Ti	47	944	977	8	0.8	0.000218	<b>0.2168</b>	ug/L
Ti	48	-2694	-2746	152	5.5	-0.000534	<b>-0.0477</b>	ug/L
V	51	197	229	29	12.5	0.000098	<b>0.0121</b>	ug/L
Cr	52	7265	7194	60	0.8	0.001009	<b>0.0573</b>	ug/L
Cr	53	117	122	10	7.9	0.000029	<b>0.0109</b>	ug/L
Mn	55	280	277	20	7.2	0.000039	<b>0.0027</b>	ug/L
Fe	54	39304	37551	326	0.9	0.002644	<b>3.6720</b>	ug/L
Fe	57	5552	5346	144	2.7	0.000458	<b>1.2505</b>	ug/L
Co	59	38	42	9	20.6	0.000014	<b>-0.0020</b>	ug/L
Ni	60	32	34	2	6.9	0.000011	<b>0.0024</b>	ug/L
Ni	62	114	112	7	6.3	0.000015	<b>0.0858</b>	ug/L
Cu	65	49	56	10	17.0	0.000050	<b>0.0086</b>	ug/L
Cu	63	51	76	13	17.1	0.000142	<b>0.0078</b>	ug/L
Zn	66	439	335	22	6.6	-0.000434	<b>0.0040</b>	ug/L
Zn	68	213	143	17	11.7	-0.000309	<b>0.0085</b>	ug/L
Ge	74	202077	192848	822	0.4	192848.025978		ug/L
As	75	-111	-118	55	46.4	-0.000066	<b>0.0257</b>	ug/L
As-1	75	9698	9168	228	2.5	-0.000453	<b>0.1392</b>	ug/L
Se	77	129	131	10	7.3	-0.000001	<b>-0.0662</b>	ug/L
Se	82	20	15	11	70.6	-0.000001	<b>0.0102</b>	ug/L
Sr	88	76	88	6	6.3	0.000002	<b>-0.0035</b>	ug/L
Mo	98	130	234	91	39.1	0.000022	<b>0.0234</b>	ug/L
Ag	107	40	42	7	16.9	-0.000000	<b>0.0027</b>	ug/L
Ag	109	40	43	1	1.4	0.000000	<b>0.0035</b>	ug/L
Cd	111	11	16	3	15.4	0.000001	<b>-0.0039</b>	ug/L
Cd	114	77	61	8	12.5	-0.000005	<b>-0.0009</b>	ug/L
In	115	4192305	4440512	2913	0.1	4440512.459475		ug/L

Sn	120	978	799	824	103.2	-0.000053	<b>0.0075</b>	ug/L
Sb	121	126	337	74	22.1	0.000046	<b>0.0558</b>	ug/L
Cs	133	15	18	8	46.1	0.000000	<b>0.0007</b>	ug/L
Ba	138	60	174	19	10.9	0.000025	<b>0.0141</b>	ug/L
Ce	140	18	18	3	14.7	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1291614	10400	0.8	1291613.717537		ug/L
Tl	205	10	18	2	11.1	0.000006	<b>0.0003</b>	ug/L
Pb	208	58	77	4	4.6	0.000013	<b>-0.0005</b>	ug/L
Bi	209	101	214	73	34.3	0.000086	<b>0.0161</b>	ug/L
Th	232	30	61	27	43.5	0.000024	<b>0.0132</b>	ug/L
U	238	6	11	2	18.4	0.000004	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	92.281
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	95.433
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.921
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.695
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-IBL3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:24:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-IBL3.076

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	44	3	5.8	0.000015	<b>0.0149</b>	ug/L
Be	9	25	28	4	14.6	0.000010	<b>0.0380</b>	ug/L
B	11	322	499	28	5.6	0.000412	<b>0.5169</b>	ug/L
Na	23	3977	3716	84	2.3	0.000060	<b>1.6747</b>	ug/L
Mg	24	111	129	4	3.2	0.000053	<b>0.3338</b>	ug/L
Al	27	1010	804	39	4.9	-0.000272	<b>0.1123</b>	ug/L
K	39	430753	423544	2231	0.5	0.049424	<b>3.7818</b>	ug/L
Ca	44	32562	34737	53	0.2	0.009313	<b>21.1422</b>	ug/L
Sc	45	525930	487751	6357	1.3	487750.738720		ug/L
Ti	47	944	966	11	1.1	0.000186	<b>0.1924</b>	ug/L
Ti	48	-2694	-2832	10	0.4	-0.000686	<b>-0.0585</b>	ug/L
V	51	197	210	9	4.1	0.000057	<b>0.0097</b>	ug/L
Cr	52	7265	7257	48	0.7	0.001068	<b>0.0614</b>	ug/L
Cr	53	117	108	17	16.2	-0.000001	<b>-0.0075</b>	ug/L
Mn	55	280	300	9	2.8	0.000083	<b>0.0047</b>	ug/L
Fe	54	39304	37162	301	0.8	0.001472	<b>2.6093</b>	ug/L
Fe	57	5552	5333	56	1.0	0.000378	<b>1.0663</b>	ug/L
Co	59	38	39	7	16.8	0.000008	<b>-0.0024</b>	ug/L
Ni	60	32	38	3	8.0	0.000018	<b>0.0043</b>	ug/L
Ni	62	114	119	5	4.1	0.000029	<b>0.1077</b>	ug/L
Cu	65	49	47	7	14.3	0.000003	<b>0.0047</b>	ug/L
Cu	63	51	77	3	3.9	0.000149	<b>0.0081</b>	ug/L
Zn	66	439	271	12	4.6	-0.000757	<b>-0.0443</b>	ug/L
Zn	68	213	100	2	2.3	-0.000529	<b>-0.0347</b>	ug/L
Ge	74	202077	191594	1118	0.6	191593.603971		ug/L
As	75	-111	-143	58	40.4	-0.000198	<b>0.0113</b>	ug/L
As-1	75	9698	9042	43	0.5	-0.000797	<b>0.0987</b>	ug/L
Se	77	129	132	13	10.0	-0.000001	<b>-0.0620</b>	ug/L
Se	82	20	19	13	68.9	-0.000001	<b>0.0278</b>	ug/L
Sr	88	76	73	3	3.4	-0.000002	<b>-0.0040</b>	ug/L
Mo	98	130	201	81	40.3	0.000014	<b>0.0168</b>	ug/L
Ag	107	40	45	3	5.9	0.000001	<b>0.0030</b>	ug/L
Ag	109	40	51	6	11.1	0.000002	<b>0.0043</b>	ug/L
Cd	111	11	20	3	12.4	0.000002	<b>-0.0022</b>	ug/L
Cd	114	77	62	7	12.0	-0.000004	<b>-0.0007</b>	ug/L
In	115	4192305	4445269	45541	1.0	4445268.595184		ug/L

Sn	120	978	777	807	103.9	-0.000060	<b>0.0047</b>	ug/L
Sb	121	126	281	66	23.3	0.000033	<b>0.0438</b>	ug/L
Cs	133	15	15	5	32.8	-0.000000	<b>0.0006</b>	ug/L
Ba	138	60	50	5	9.0	-0.000003	<b>0.0084</b>	ug/L
Ce	140	18	23	3	13.0	0.000001	<b>0.0000</b>	ug/L
> Tm	169	1270088	1290056	10063	0.8	1290055.811937		ug/L
Tl	205	10	12	3	26.1	0.000002	<b>-0.0001</b>	ug/L
Pb	208	58	66	9	13.9	0.000005	<b>-0.0011</b>	ug/L
Bi	209	101	181	65	35.8	0.000060	<b>0.0141</b>	ug/L
Th	232	30	45	11	24.0	0.000012	<b>0.0123</b>	ug/L
U	238	6	12	2	12.4	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	92.741
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	94.812
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.034
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.572
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-IBL4**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:28:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 104

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-IBL4.077

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	9	17.7	0.000017	<b>0.0159</b>	ug/L
Be	9	25	38	9	23.8	0.000021	<b>0.0584</b>	ug/L
B	11	322	534	42	7.8	0.000343	<b>0.4392</b>	ug/L
Na	23	3977	4250	12	0.3	0.000044	<b>1.6735</b>	ug/L
Mg	24	111	183	24	12.9	0.000115	<b>0.3407</b>	ug/L
Al	27	1010	868	25	2.8	-0.000367	<b>0.1045</b>	ug/L
K	39	430753	440952	2994	0.7	-0.030053	<b>-0.6013</b>	ug/L
Ca	44	32562	35208	272	0.8	0.001083	<b>5.5995</b>	ug/L
Sc	45	525930	558949	9144	1.6	558949.306248		ug/L
Ti	47	944	955	48	5.0	-0.000085	<b>-0.0180</b>	ug/L
Ti	48	-2694	-2870	40	1.4	-0.000012	<b>-0.0108</b>	ug/L
V	51	197	215	27	12.7	0.000010	<b>0.0069</b>	ug/L
Cr	52	7265	8056	183	2.3	0.000599	<b>0.0287</b>	ug/L
Cr	53	117	127	10	8.1	0.000005	<b>-0.0041</b>	ug/L
Mn	55	280	317	9	2.7	0.000035	<b>0.0025</b>	ug/L
Fe	54	39304	42836	916	2.1	0.001900	<b>2.9973</b>	ug/L
Fe	57	5552	6343	232	3.7	0.000788	<b>2.0120</b>	ug/L
Co	59	38	49	5	10.1	0.000015	<b>-0.0020</b>	ug/L
Ni	60	32	43	11	26.0	0.000016	<b>0.0037</b>	ug/L
Ni	62	114	139	12	8.9	0.000033	<b>0.1152</b>	ug/L
Cu	65	49	63	11	17.5	0.000046	<b>0.0083</b>	ug/L
Cu	63	51	76	5	7.0	0.000091	<b>0.0056</b>	ug/L
Zn	66	439	318	21	6.5	-0.000738	<b>-0.0415</b>	ug/L
Zn	68	213	120	9	7.7	-0.000510	<b>-0.0310</b>	ug/L
Ge	74	202077	221990	6466	2.9	221990.165065		ug/L
As	75	-111	-115	21	18.5	0.000028	<b>0.0358</b>	ug/L
As-1	75	9698	9697	194	2.0	-0.004299	<b>-0.3136</b>	ug/L
Se	77	129	127	2	1.4	-0.000005	<b>-0.1824</b>	ug/L
Se	82	20	18	6	34.7	-0.000001	<b>0.0131</b>	ug/L
Sr	88	76	81	14	17.4	-0.000002	<b>-0.0040</b>	ug/L
Mo	98	130	185	81	43.9	0.000006	<b>0.0103</b>	ug/L
Ag	107	40	47	4	8.5	0.000000	<b>0.0028</b>	ug/L
Ag	109	40	41	2	5.1	-0.000001	<b>0.0029</b>	ug/L
Cd	111	11	16	3	16.1	0.000001	<b>-0.0048</b>	ug/L
Cd	114	77	71	11	15.1	-0.000004	<b>-0.0004</b>	ug/L
In	115	4192305	4931698	68019	1.4	4931697.544696		ug/L

Sn	120	978	784	902	115.0	-0.000076	<b>-0.0029</b>	ug/L
Sb	121	126	238	51	21.4	0.000018	<b>0.0297</b>	ug/L
Cs	133	15	15	2	13.3	-0.000001	<b>0.0006</b>	ug/L
Ba	138	60	64	2	2.4	-0.000001	<b>0.0087</b>	ug/L
Ce	140	18	17	3	20.4	-0.000001	<b>-0.0003</b>	ug/L
> Tm	169	1270088	1393435	12142	0.9	1393434.894000		ug/L
Tl	205	10	17	7	40.9	0.000005	<b>0.0002</b>	ug/L
Pb	208	58	83	6	7.2	0.000014	<b>-0.0005</b>	ug/L
Bi	209	101	167	43	25.5	0.000040	<b>0.0125</b>	ug/L
Th	232	30	34	14	39.5	0.000001	<b>0.0115</b>	ug/L
U	238	6	13	4	27.7	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.278
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.854
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.637
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	109.712
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-SCV1**

**Sample Description: 5x**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:32:22

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 105

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-SCV1.078

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	4560	139	3.1	0.008651	<b>18.0407</b>	ug/L
Be	9	25	748	23	3.1	0.001386	<b>13.0461</b>	ug/L
B	11	322	14755	502	3.4	0.027624	<b>156.0081</b>	ug/L
Na	23	3977	27888231	744736	2.7	53.362890	<b>20614.8999</b>	ug/L
Mg	24	111	7421746	206924	2.8	14.202789	<b>7953.5545</b>	ug/L
Al	27	1010	172619	6078	3.5	0.328403	<b>134.1718</b>	ug/L
K	39	430753	4341438	150209	3.5	7.488698	<b>2070.2226</b>	ug/L
Ca	44	32562	1658237	55522	3.3	3.111358	<b>29396.2340</b>	ug/L
Sc	45	525930	522482	6599	1.3	522482.390499		ug/L
Ti	47	944	964	40	4.2	0.000050	<b>0.4354</b>	ug/L
Ti	48	-2694	14225	2870	20.2	0.032312	<b>11.3966</b>	ug/L
V	51	197	66435	2413	3.6	0.126754	<b>37.7639</b>	ug/L
Cr	52	7265	38809	1138	2.9	0.060454	<b>21.0027</b>	ug/L
Cr	53	117	3803	145	3.8	0.007056	<b>21.6133</b>	ug/L
Mn	55	280	82153	3002	3.7	0.156672	<b>36.9196</b>	ug/L
Fe	54	39304	55876	1662	3.0	0.032196	<b>152.3775</b>	ug/L
Fe	57	5552	10537	263	2.5	0.009609	<b>111.7119</b>	ug/L
Co	59	38	50596	1788	3.5	0.096748	<b>27.9056</b>	ug/L
Ni	60	32	25645	1484	5.8	0.049004	<b>63.5052</b>	ug/L
Ni	62	114	4089	207	5.1	0.007608	<b>63.0605</b>	ug/L
Cu	65	49	11243	477	4.2	0.054835	<b>23.0163</b>	ug/L
Cu	63	51	22262	814	3.7	0.108817	<b>23.2443</b>	ug/L
Zn	66	439	21589	494	2.3	0.103644	<b>77.8900</b>	ug/L
Zn	68	213	21052	680	3.2	0.102106	<b>100.8299</b>	ug/L
Ge	74	202077	204139	8476	4.2	204139.101441		ug/L
As	75	-111	21222	704	3.3	0.104535	<b>56.8199</b>	ug/L
As-1	75	9698	30456	925	3.0	0.101250	<b>60.5516</b>	ug/L
Se	77	129	486	32	6.5	0.000071	<b>10.5871</b>	ug/L
Se	82	20	496	7	1.4	0.000099	<b>11.4154</b>	ug/L
Sr	88	76	1614381	61594	3.8	0.336743	<b>300.5439</b>	ug/L
Mo	98	130	140382	5770	4.1	0.029251	<b>126.0889</b>	ug/L
Ag	107	40	2131	141	6.6	0.000436	<b>0.9336</b>	ug/L
Ag	109	40	2071	110	5.3	0.000423	<b>0.9394</b>	ug/L
Cd	111	11	3591	115	3.2	0.000747	<b>6.7716</b>	ug/L
Cd	114	77	8416	255	3.0	0.001738	<b>6.8134</b>	ug/L
In	115	4192305	4793231	153938	3.2	4793231.101115		ug/L

Sn	120	978	1016	1061	104.5	-0.000018	<b>0.1186</b>	ug/L
Sb	121	126	92251	1083	1.2	0.019225	<b>90.7519</b>	ug/L
Cs	133	15	21	3	14.8	0.000001	<b>0.0038</b>	ug/L
Ba	138	60	2602852	32400	1.2	0.543237	<b>562.7964</b>	ug/L
Ce	140	18	93	3	2.7	0.000015	<b>0.0134</b>	ug/L
Tm	169	1270088	1378857	22939	1.7	1378857.244318		ug/L
Tl	205	10	22935	665	2.9	0.016623	<b>7.5755</b>	ug/L
Pb	208	58	81494	1776	2.2	0.059054	<b>19.9692</b>	ug/L
Bi	209	101	45725	1603	3.5	0.033076	<b>13.1688</b>	ug/L
Th	232	30	64	21	33.4	0.000023	<b>0.0657</b>	ug/L
U	238	6	22	5	21.8	0.000011	<b>-0.0002</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	99.344
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	101.021
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	114.334
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.564
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:36:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV1.079

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2891	100	3.5	0.005654	<b>2.3609</b>	ug/L
Be	9	25	285	27	9.6	0.000517	<b>0.9856</b>	ug/L
B	11	322	22132	575	2.6	0.043259	<b>48.8310</b>	ug/L
Na	23	3977	3144082	126636	4.0	6.221428	<b>482.1619</b>	ug/L
Mg	24	111	841313	29181	3.5	1.666872	<b>186.9788</b>	ug/L
Al	27	1010	289221	8727	3.0	0.571304	<b>46.5828</b>	ug/L
K	39	430753	1265521	31063	2.5	1.689521	<b>94.2302</b>	ug/L
Ca	44	32562	283532	10579	3.7	0.499870	<b>947.5411</b>	ug/L
Sc	45	525930	504971	26430	5.2	504971.031963		ug/L
Ti	47	944	4054	98	2.4	0.006242	<b>4.8909</b>	ug/L
Ti	48	-2694	32783	1279	3.9	0.070072	<b>4.9544</b>	ug/L
V	51	197	41973	1789	4.3	0.082775	<b>4.9344</b>	ug/L
Cr	52	7265	94526	3830	4.1	0.173459	<b>12.0768</b>	ug/L
Cr	53	117	10453	251	2.4	0.020499	<b>12.5718</b>	ug/L
Mn	55	280	26432	1125	4.3	0.051831	<b>2.4433</b>	ug/L
Fe	54	39304	168035	6650	4.0	0.258182	<b>235.4422</b>	ug/L
Fe	57	5552	59253	2555	4.3	0.106820	<b>246.4096</b>	ug/L
Co	59	38	22171	1147	5.2	0.043836	<b>2.5272</b>	ug/L
Ni	60	32	9936	550	5.5	0.019616	<b>5.0839</b>	ug/L
Ni	62	114	1685	101	6.0	0.003123	<b>5.2123</b>	ug/L
Cu	65	49	11807	615	5.2	0.059062	<b>4.9577</b>	ug/L
Cu	63	51	23282	1255	5.4	0.116678	<b>4.9846</b>	ug/L
Zn	66	439	7049	326	4.6	0.033238	<b>5.0426</b>	ug/L
Zn	68	213	5203	332	6.4	0.025073	<b>5.0043</b>	ug/L
Ge	74	202077	199062	9068	4.6	199062.062021		ug/L
As	75	-111	9301	169	1.8	0.047310	<b>5.1610</b>	ug/L
As-1	75	9698	17835	298	1.7	0.041685	<b>5.0991</b>	ug/L
Se	77	129	1558	102	6.5	0.000307	<b>9.3084</b>	ug/L
Se	82	20	1986	59	3.0	0.000426	<b>9.7144</b>	ug/L
Sr	88	76	119498	6620	5.5	0.025884	<b>4.6169</b>	ug/L
Mo	98	130	4285	395	9.2	0.000897	<b>0.7781</b>	ug/L
Ag	107	40	10939	515	4.7	0.002362	<b>0.9995</b>	ug/L
Ag	109	40	10763	349	3.2	0.002325	<b>1.0163</b>	ug/L
Cd	111	11	1257	65	5.2	0.000270	<b>0.4856</b>	ug/L
Cd	114	77	2942	123	4.2	0.000619	<b>0.4876</b>	ug/L
In	115	4192305	4611047	129692	2.8	4611046.850045		ug/L

Sn	120	978	25857	1669	6.5	0.005371	<b>2.5077</b>	ug/L
Sb	121	126	3799	129	3.4	0.000795	<b>0.7625</b>	ug/L
Cs	133	15	69224	1637	2.4	0.015011	<b>2.4733</b>	ug/L
Ba	138	60	50926	1547	3.0	0.011030	<b>2.2942</b>	ug/L
Ce	140	18	12149	328	2.7	0.002631	<b>0.4939</b>	ug/L
> Tm	169	1270088	1345849	35936	2.7	1345848.904617		ug/L
Tl	205	10	3775	109	2.9	0.002797	<b>0.2547</b>	ug/L
Pb	208	58	50431	1787	3.5	0.037420	<b>2.5302</b>	ug/L
Bi	209	101	40633	738	1.8	0.030118	<b>2.3991</b>	ug/L
Th	232	30	7051	237	3.4	0.005221	<b>0.4077</b>	ug/L
U	238	6	11369	170	1.5	0.008445	<b>0.4934</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	96.015
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	98.508
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.988
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	105.965
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 16:39:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB1.080

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	8	17.7	0.000009	<b>0.0127</b>	ug/L
Be	9	25	29	12	39.8	0.000007	<b>0.0319</b>	ug/L
B	11	322	575	37	6.5	0.000447	<b>0.5561</b>	ug/L
Na	23	3977	6139	1736	28.3	0.003767	<b>1.9610</b>	ug/L
Mg	24	111	506	512	101.2	0.000728	<b>0.4093</b>	ug/L
Al	27	1010	1041	50	4.8	-0.000004	<b>0.1341</b>	ug/L
K	39	430753	440256	2847	0.6	-0.008475	<b>0.5887</b>	ug/L
Ca	44	32562	34667	169	0.5	0.001913	<b>7.1683</b>	ug/L
Sc	45	525930	543323	13216	2.4	543323.447692		ug/L
Ti	47	944	930	31	3.3	-0.000085	<b>-0.0176</b>	ug/L
Ti	48	-2694	-2818	16	0.6	-0.000067	<b>-0.0146</b>	ug/L
V	51	197	259	5	1.8	0.000103	<b>0.0124</b>	ug/L
Cr	52	7265	7868	219	2.8	0.000675	<b>0.0340</b>	ug/L
Cr	53	117	126	11	8.4	0.000010	<b>-0.0007</b>	ug/L
Mn	55	280	273	11	3.9	-0.000029	<b>-0.0006</b>	ug/L
Fe	54	39304	40662	150	0.4	0.000133	<b>1.3949</b>	ug/L
Fe	57	5552	6064	105	1.7	0.000606	<b>1.5924</b>	ug/L
Co	59	38	49	8	15.2	0.000018	<b>-0.0018</b>	ug/L
Ni	60	32	33	9	26.6	0.000000	<b>-0.0004</b>	ug/L
Ni	62	114	140	9	6.6	0.000042	<b>0.1301</b>	ug/L
Cu	65	49	54	14	25.5	0.000005	<b>0.0049</b>	ug/L
Cu	63	51	78	6	7.8	0.000104	<b>0.0062</b>	ug/L
Zn	66	439	402	24	6.1	-0.000330	<b>0.0195</b>	ug/L
Zn	68	213	203	20	9.7	-0.000127	<b>0.0444</b>	ug/L
Ge	74	202077	218816	4103	1.9	218815.696574		ug/L
As	75	-111	-168	40	23.9	-0.000221	<b>0.0088</b>	ug/L
As-1	75	9698	9674	212	2.2	-0.003779	<b>-0.2524</b>	ug/L
Se	77	129	156	4	2.3	0.000001	<b>0.0032</b>	ug/L
Se	82	20	26	16	61.4	0.000000	<b>0.0508</b>	ug/L
Sr	88	76	106	5	4.7	0.000004	<b>-0.0031</b>	ug/L
Mo	98	130	599	173	28.9	0.000091	<b>0.0833</b>	ug/L
Ag	107	40	152	60	39.5	0.000022	<b>0.0119</b>	ug/L
Ag	109	40	137	52	38.1	0.000019	<b>0.0115</b>	ug/L
Cd	111	11	23	2	6.7	0.000002	<b>-0.0021</b>	ug/L
Cd	114	77	72	9	12.8	-0.000004	<b>-0.0002</b>	ug/L
In	115	4192305	4897188	39746	0.8	4897187.813255		ug/L



Sn	120	978	877	826	94.1	-0.000055	<b>0.0069</b>	ug/L
Sb	121	126	694	66	9.4	0.000111	<b>0.1179</b>	ug/L
Cs	133	15	42	33	78.5	0.000005	<b>0.0015</b>	ug/L
Ba	138	60	513	742	144.5	0.000091	<b>0.0279</b>	ug/L
Ce	140	18	20	9	46.1	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1378773	3952	0.3	1378773.495104		ug/L
Tl	205	10	21	11	50.8	0.000007	<b>0.0004</b>	ug/L
Pb	208	58	85	43	50.7	0.000016	<b>-0.0003</b>	ug/L
Bi	209	101	634	136	21.5	0.000380	<b>0.0395</b>	ug/L
Th	232	30	344	58	16.9	0.000226	<b>0.0285</b>	ug/L
U	238	6	14	6	44.6	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.307
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.283
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.814
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	108.557
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BLK1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 16:43:45

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BLK1.081

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	0	0.0	0.000018	<b>0.0808</b>	ug/L
Be	9	25	34	8	23.1	0.000021	<b>0.2911</b>	ug/L
B	11	322	155496	1089	0.7	0.312093	<b>1759.8571</b>	ug/L
Na	23	3977	43205	1507	3.5	0.079288	<b>38.9680</b>	ug/L
Mg	24	111	166432	3318	2.0	0.334416	<b>188.8735</b>	ug/L
Al	27	1010	29449	1021	3.5	0.057277	<b>23.9558</b>	ug/L
K	39	430753	418282	2610	0.6	0.022147	<b>11.3875</b>	ug/L
Ca	44	32562	31487	846	2.7	0.001397	<b>30.9649</b>	ug/L
Sc	45	525930	497393	11685	2.3	497392.940391		ug/L
Ti	47	944	926	25	2.7	0.000066	<b>0.4960</b>	ug/L
Ti	48	-2694	-2425	63	2.6	0.000247	<b>0.0380</b>	ug/L
V	51	197	250	10	3.9	0.000129	<b>0.0698</b>	ug/L
Cr	52	7265	7724	153	2.0	0.001715	<b>0.5326</b>	ug/L
Cr	53	117	392	26	6.5	0.000567	<b>1.7042</b>	ug/L
Mn	55	280	5748	143	2.5	0.011025	<b>2.6019</b>	ug/L
Fe	54	39304	10291281	194249	1.9	20.617420	<b>93504.9988</b>	ug/L
Fe	57	5552	4242676	46975	1.1	8.520937	<b>98202.7757</b>	ug/L
Co	59	38	2161	97	4.5	0.004272	<b>1.2185</b>	ug/L
Ni	60	32	856	71	8.2	0.001660	<b>2.1490</b>	ug/L
Ni	62	114	272	22	8.2	0.000331	<b>3.0333</b>	ug/L
Cu	65	49	467	23	4.8	0.002170	<b>0.9322</b>	ug/L
Cu	63	51	843	8	1.0	0.004094	<b>0.8827</b>	ug/L
Zn	66	439	1583	41	2.6	0.005988	<b>4.8249</b>	ug/L
Zn	68	213	1080	33	3.0	0.004515	<b>4.7905</b>	ug/L
Ge	74	202077	194153	8112	4.2	194153.011535		ug/L
As	75	-111	-117	38	32.2	-0.000047	<b>0.1386</b>	ug/L
As-1	75	9698	8839	114	1.3	-0.002425	<b>-0.4648</b>	ug/L
Se	77	129	137	7	5.1	-0.000002	<b>-0.3954</b>	ug/L
Se	82	20	10	12	114.8	-0.000003	<b>-0.0848</b>	ug/L
Sr	88	76	276	20	7.1	0.000041	<b>0.0176</b>	ug/L
Mo	98	130	344	102	29.6	0.000043	<b>0.2076</b>	ug/L
Ag	107	40	2150	217	10.1	0.000447	<b>0.9578</b>	ug/L
Ag	109	40	1398	281	20.1	0.000287	<b>0.6425</b>	ug/L
Cd	111	11	223	27	12.0	0.000045	<b>0.3781</b>	ug/L
Cd	114	77	99	53	54.0	0.000003	<b>0.0248</b>	ug/L
In	115	4192305	4697636	153493	3.3	4697635.650888		ug/L

Sn	120	978	4073	998	24.5	0.000637	<b>1.6299</b>	ug/L
Sb	121	126	1167	77	6.6	0.000218	<b>1.0938</b>	ug/L
Cs	133	15	22	5	22.1	0.000001	<b>0.0042</b>	ug/L
Ba	138	60	365	23	6.2	0.000063	<b>0.1105</b>	ug/L
Ce	140	18	88	3	3.0	0.000015	<b>0.0128</b>	ug/L
> Tm	169	1270088	1376184	24531	1.8	1376184.222600		ug/L
Tl	205	10	28	4	15.0	0.000012	<b>0.0045</b>	ug/L
Pb	208	58	2461	9	0.4	0.001743	<b>0.5826</b>	ug/L
Bi	209	101	347	48	13.9	0.000173	<b>0.1152</b>	ug/L
Th	232	30	328	81	24.8	0.000216	<b>0.1388</b>	ug/L
U	238	6	24	7	29.2	0.000013	<b>0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	94.574
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	96.079
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.054
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	108.353
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BLK2**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 16:47:31

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BLK2.082

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	43	5	10.4	0.000010	<b>0.0641</b>	ug/L
Be	9	25	31	7	23.6	0.000013	<b>0.2219</b>	ug/L
B	11	322	156911	2752	1.8	0.305791	<b>1724.3284</b>	ug/L
Na	23	3977	45878	1337	2.9	0.082004	<b>40.0171</b>	ug/L
Mg	24	111	334370	8727	2.6	0.652609	<b>367.0243</b>	ug/L
Al	27	1010	108234	3024	2.8	0.209388	<b>85.7905</b>	ug/L
K	39	430753	422320	1381	0.3	0.005873	<b>6.8999</b>	ug/L
Ca	44	32562	29630	172	0.6	-0.004040	<b>-20.3738</b>	ug/L
Sc	45	525930	512231	15196	3.0	512230.965661		ug/L
Ti	47	944	884	44	5.0	-0.000068	<b>-0.0241</b>	ug/L
Ti	48	-2694	-2269	32	1.4	0.000690	<b>0.1949</b>	ug/L
V	51	197	257	8	3.2	0.000128	<b>0.0695</b>	ug/L
Cr	52	7265	8136	338	4.2	0.002066	<b>0.6548</b>	ug/L
Cr	53	117	444	44	9.9	0.000643	<b>1.9379</b>	ug/L
Mn	55	280	13306	419	3.1	0.025444	<b>5.9993</b>	ug/L
Fe	54	39304	10819108	393829	3.6	21.044050	<b>95439.7381</b>	ug/L
Fe	57	5552	4462723	133634	3.0	8.702095	<b>100290.5791</b>	ug/L
Co	59	38	2386	142	6.0	0.004584	<b>1.3087</b>	ug/L
Ni	60	32	1029	45	4.4	0.001949	<b>2.5240</b>	ug/L
Ni	62	114	292	30	10.2	0.000353	<b>3.2156</b>	ug/L
Cu	65	49	2048	29	1.4	0.010233	<b>4.3131</b>	ug/L
Cu	63	51	3944	93	2.3	0.019915	<b>4.2610</b>	ug/L
Zn	66	439	1935	33	1.7	0.007726	<b>6.1247</b>	ug/L
Zn	68	213	1329	69	5.2	0.005739	<b>5.9952</b>	ug/L
Ge	74	202077	195628	6805	3.5	195628.447928		ug/L
As	75	-111	-83	96	115.0	0.000136	<b>0.2376</b>	ug/L
As-1	75	9698	8851	129	1.5	-0.002727	<b>-0.6426</b>	ug/L
Se	77	129	130	21	16.2	-0.000003	<b>-0.5680</b>	ug/L
Se	82	20	24	21	87.2	0.000001	<b>0.2671</b>	ug/L
Sr	88	76	362	11	3.0	0.000060	<b>0.0350</b>	ug/L
Mo	98	130	281	75	26.5	0.000030	<b>0.1536</b>	ug/L
Ag	107	40	1861	21	1.1	0.000394	<b>0.8444</b>	ug/L
Ag	109	40	1064	74	7.0	0.000221	<b>0.4981</b>	ug/L
Cd	111	11	194	8	4.1	0.000039	<b>0.3296</b>	ug/L
Cd	114	77	70	2	2.4	-0.000003	<b>0.0011</b>	ug/L
In	115	4192305	4617295	138029	3.0	4617295.187363		ug/L

Sn	120	978	4141	814	19.7	0.000665	<b>1.6931</b>	ug/L
Sb	121	126	977	7	0.7	0.000182	<b>0.9198</b>	ug/L
Cs	133	15	35	23	66.7	0.000004	<b>0.0064</b>	ug/L
Ba	138	60	444	206	46.5	0.000081	<b>0.1290</b>	ug/L
Ce	140	18	81	1	1.2	0.000013	<b>0.0117</b>	ug/L
Tm	169	1270088	1369353	17050	1.2	1369352.555498		ug/L
Tl	205	10	21	2	11.2	0.000007	<b>0.0022</b>	ug/L
Pb	208	58	9176	117	1.3	0.006655	<b>2.2442</b>	ug/L
Bi	209	101	590	44	7.4	0.000351	<b>0.1860</b>	ug/L
Th	232	30	120	30	24.9	0.000065	<b>0.0814</b>	ug/L
U	238	6	24	6	27.2	0.000013	<b>0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	97.395
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	96.809
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	110.137
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	107.816
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BLK3**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 16:51:17

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BLK3.083

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	41	4	9.8	0.000006	<b>0.0567</b>	ug/L
Be	9	25	30	5	15.2	0.000011	<b>0.2025</b>	ug/L
B	11	322	118330	3477	2.9	0.231220	<b>1303.8932</b>	ug/L
Na	23	3977	101620	1477	1.5	0.191617	<b>82.3450</b>	ug/L
Mg	24	111	359329	12181	3.4	0.703735	<b>395.6489</b>	ug/L
Al	27	1010	15076	640	4.2	0.027611	<b>11.8961</b>	ug/L
K	39	430753	424904	3482	0.8	0.013761	<b>9.0750</b>	ug/L
Ca	44	32562	30182	343	1.1	-0.002738	<b>-8.0832</b>	ug/L
Sc	45	525930	510392	13686	2.7	510391.938273		ug/L
Ti	47	944	921	3	0.3	0.000010	<b>0.2781</b>	ug/L
Ti	48	-2694	-2105	18	0.9	0.000995	<b>0.3029</b>	ug/L
V	51	197	260	26	10.0	0.000136	<b>0.0718</b>	ug/L
Cr	52	7265	7833	251	3.2	0.001533	<b>0.4690</b>	ug/L
Cr	53	117	423	26	6.0	0.000608	<b>1.8294</b>	ug/L
Mn	55	280	5803	153	2.6	0.010839	<b>2.5580</b>	ug/L
Fe	54	39304	10645144	283732	2.7	20.782223	<b>94252.3669</b>	ug/L
Fe	57	5552	4461743	144132	3.2	8.730463	<b>100617.5196</b>	ug/L
Co	59	38	2368	54	2.3	0.004571	<b>1.3049</b>	ug/L
Ni	60	32	880	18	2.0	0.001665	<b>2.1556</b>	ug/L
Ni	62	114	300	7	2.4	0.000372	<b>3.3716</b>	ug/L
Cu	65	49	227	14	6.2	0.000944	<b>0.4181</b>	ug/L
Cu	63	51	374	14	3.8	0.001698	<b>0.3710</b>	ug/L
Zn	66	439	602	46	7.6	0.000969	<b>1.0697</b>	ug/L
Zn	68	213	354	6	1.6	0.000797	<b>1.1316</b>	ug/L
Ge	74	202077	191600	4542	2.4	191599.753419		ug/L
As	75	-111	-117	23	19.7	-0.000065	<b>0.1290</b>	ug/L
As-1	75	9698	8794	169	1.9	-0.002085	<b>-0.2647</b>	ug/L
Se	77	129	127	7	5.1	-0.000003	<b>-0.6746</b>	ug/L
Se	82	20	5	14	256.4	-0.000004	<b>-0.2083</b>	ug/L
Sr	88	76	414	8	2.0	0.000071	<b>0.0445</b>	ug/L
Mo	98	130	228	56	24.4	0.000018	<b>0.0998</b>	ug/L
Ag	107	40	1754	45	2.6	0.000367	<b>0.7874</b>	ug/L
Ag	109	40	1000	47	4.7	0.000205	<b>0.4638</b>	ug/L
Cd	111	11	195	17	8.5	0.000039	<b>0.3269</b>	ug/L
Cd	114	77	78	12	15.0	-0.000002	<b>0.0074</b>	ug/L
In	115	4192305	4661852	147894	3.2	4661851.587493		ug/L

Sn	120	978	3865	1145	29.6	0.000592	<b>1.5249</b>	ug/L
Sb	121	126	901	54	6.0	0.000163	<b>0.8325</b>	ug/L
Cs	133	15	48	34	70.1	0.000007	<b>0.0089</b>	ug/L
Ba	138	60	800	767	95.9	0.000161	<b>0.2113</b>	ug/L
Ce	140	18	92	19	20.7	0.000016	<b>0.0138</b>	ug/L
> Tm	169	1270088	1400148	24834	1.8	1400147.630827		ug/L
Tl	205	10	21	10	46.5	0.000007	<b>0.0020</b>	ug/L
Pb	208	58	519	54	10.4	0.000325	<b>0.1029</b>	ug/L
Bi	209	101	210	25	12.0	0.000070	<b>0.0746</b>	ug/L
Th	232	30	84	29	35.1	0.000036	<b>0.0707</b>	ug/L
U	238	6	23	5	22.6	0.000012	<b>-0.0000</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	97.046
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	94.815
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.200
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	110.240
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BLK4**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 16:55:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BLK4.084

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	5	10.1	0.000006	<b>0.0554</b>	ug/L
Be	9	25	32	6	18.8	0.000009	<b>0.1861</b>	ug/L
B	11	322	145167	2286	1.6	0.254585	<b>1435.6225</b>	ug/L
Na	23	3977	382140	4421	1.2	0.664269	<b>264.8637</b>	ug/L
Mg	24	111	399783	7990	2.0	0.702600	<b>395.0138</b>	ug/L
Al	27	1010	16361	260	1.6	0.026842	<b>11.5834</b>	ug/L
K	39	430753	434044	1558	0.4	-0.055948	<b>-10.1465</b>	ug/L
Ca	44	32562	30249	272	0.9	-0.008734	<b>-64.6910</b>	ug/L
Sc	45	525930	568822	4604	0.8	568821.898130		ug/L
Ti	47	944	943	43	4.5	-0.000138	<b>-0.2947</b>	ug/L
Ti	48	-2694	-2156	39	1.8	0.001332	<b>0.4224</b>	ug/L
V	51	197	218	23	10.6	0.000009	<b>0.0343</b>	ug/L
Cr	52	7265	9253	158	1.7	0.002453	<b>0.7896</b>	ug/L
Cr	53	117	521	23	4.5	0.000695	<b>2.0968</b>	ug/L
Mn	55	280	6392	84	1.3	0.010707	<b>2.5269</b>	ug/L
Fe	54	39304	12128547	65251	0.5	21.247845	<b>96363.9311</b>	ug/L
Fe	57	5552	5017089	25759	0.5	8.809909	<b>101533.1142</b>	ug/L
Co	59	38	2508	20	0.8	0.004337	<b>1.2375</b>	ug/L
Ni	60	32	1294	58	4.5	0.002215	<b>2.8684</b>	ug/L
Ni	62	114	381	21	5.6	0.000454	<b>4.0505</b>	ug/L
Cu	65	49	362	21	5.9	0.001434	<b>0.6234</b>	ug/L
Cu	63	51	684	27	3.9	0.002915	<b>0.6309</b>	ug/L
Zn	66	439	720	19	2.6	0.001166	<b>1.2168</b>	ug/L
Zn	68	213	452	24	5.2	0.001040	<b>1.3707</b>	ug/L
Ge	74	202077	215938	2095	1.0	215937.994390		ug/L
As	75	-111	-204	35	17.3	-0.000397	<b>-0.0514</b>	ug/L
As-1	75	9698	9204	100	1.1	-0.005367	<b>-2.1965</b>	ug/L
Se	77	129	155	11	6.9	-0.000001	<b>-0.3346</b>	ug/L
Se	82	20	10	10	101.0	-0.000003	<b>-0.1308</b>	ug/L
Sr	88	76	434	9	2.2	0.000064	<b>0.0389</b>	ug/L
Mo	98	130	226	69	30.5	0.000012	<b>0.0749</b>	ug/L
Ag	107	40	1965	92	4.7	0.000364	<b>0.7820</b>	ug/L
Ag	109	40	1128	22	2.0	0.000205	<b>0.4640</b>	ug/L
Cd	111	11	248	19	7.8	0.000045	<b>0.3774</b>	ug/L
Cd	114	77	71	11	15.6	-0.000005	<b>-0.0053</b>	ug/L
In	115	4192305	5258843	60688	1.2	5258843.221561		ug/L

Sn	120	978	4406	1166	26.5	0.000603	<b>1.5513</b>	ug/L
Sb	121	126	971	64	6.6	0.000155	<b>0.7924</b>	ug/L
Cs	133	15	21	4	18.3	0.000000	<b>0.0035</b>	ug/L
Ba	138	60	353	20	5.7	0.000053	<b>0.0995</b>	ug/L
Ce	140	18	88	6	6.3	0.000013	<b>0.0110</b>	ug/L
Tm	169	1270088	1505015	5709	0.4	1505015.414675		ug/L
Tl	205	10	19	3	15.8	0.000005	<b>0.0011</b>	ug/L
Pb	208	58	1439	58	4.0	0.000910	<b>0.3008</b>	ug/L
Bi	209	101	209	15	7.2	0.000059	<b>0.0701</b>	ug/L
Th	232	30	53	8	15.1	0.000012	<b>0.0614</b>	ug/L
U	238	6	21	13	59.0	0.000009	<b>-0.0006</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	108.155
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	106.859
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	125.440
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	118.497
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 0944029-91**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 16:58:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\0944029-91.085

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	90	9	9.9	0.000082	<b>0.2139</b>	ug/L
Be	9	25	33	9	26.4	0.000011	<b>0.1971</b>	ug/L
B	11	322	392947	9799	2.5	0.682426	<b>3847.8152</b>	ug/L
Na	23	3977	10502321	144686	1.4	18.247868	<b>7054.9252</b>	ug/L
Mg	24	111	161679197	3781509	2.3	281.029901	<b>157345.8116</b>	ug/L
Al	27	1010	80057	1410	1.8	0.137234	<b>56.4591</b>	ug/L
K	39	430753	901333	8115	0.9	0.747735	<b>211.4620</b>	ug/L
Ca	44	32562	76520	441	0.6	0.071101	<b>689.1293</b>	ug/L
Sc	45	525930	575285	4877	0.8	575284.923122		ug/L
Ti	47	944	1594	50	3.1	0.000977	<b>4.0290</b>	ug/L
Ti	48	-2694	1173	136	11.6	0.007160	<b>2.4868</b>	ug/L
V	51	197	52232	1073	2.1	0.090417	<b>26.9470</b>	ug/L
Cr	52	7265	12399	421	3.4	0.007740	<b>2.6322</b>	ug/L
Cr	53	117	969	27	2.8	0.001463	<b>4.4521</b>	ug/L
Mn	55	280	87796	1598	1.8	0.152073	<b>35.8360</b>	ug/L
Fe	54	39304	14037461	377652	2.7	24.323966	<b>110313.9375</b>	ug/L
Fe	57	5552	5836060	99044	1.7	10.133955	<b>116792.4305</b>	ug/L
Co	59	38	3450	66	1.9	0.005925	<b>1.6955</b>	ug/L
Ni	60	32	3685	76	2.1	0.006346	<b>8.2218</b>	ug/L
Ni	62	114	732	16	2.2	0.001056	<b>9.0104</b>	ug/L
Cu	65	49	4937	176	3.6	0.022799	<b>9.5823</b>	ug/L
Cu	63	51	9361	280	3.0	0.043430	<b>9.2822</b>	ug/L
Zn	66	439	4182	69	1.7	0.017346	<b>13.3228</b>	ug/L
Zn	68	213	3006	110	3.7	0.012974	<b>13.1144</b>	ug/L
Ge	74	202077	214264	2222	1.0	214263.758306		ug/L
As	75	-111	8411	118	1.4	0.039806	<b>21.7382</b>	ug/L
As-1	75	9698	17358	44	0.3	0.033025	<b>20.3988</b>	ug/L
Se	77	129	177	6	3.3	0.000004	<b>0.3775</b>	ug/L
Se	82	20	161	29	18.0	0.000026	<b>3.2071</b>	ug/L
Sr	88	76	54903	1678	3.1	0.010613	<b>9.4536</b>	ug/L
Mo	98	130	24562	131	0.5	0.004727	<b>20.3945</b>	ug/L
Ag	107	40	2008	78	3.9	0.000379	<b>0.8142</b>	ug/L
Ag	109	40	1198	28	2.3	0.000222	<b>0.5018</b>	ug/L
Cd	111	11	909	34	3.8	0.000174	<b>1.5514</b>	ug/L
Cd	114	77	1617	52	3.2	0.000295	<b>1.1684</b>	ug/L
In	115	4192305	5163942	108191	2.1	5163942.487785		ug/L

Sn	120	978	4795	1079	22.5	0.000694	<b>1.7600</b>	ug/L
Sb	121	126	5887	83	1.4	0.001110	<b>5.2996</b>	ug/L
Cs	133	15	20	6	27.8	0.000000	<b>0.0035</b>	ug/L
Ba	138	60	552	42	7.7	0.000093	<b>0.1409</b>	ug/L
Ce	140	18	293	11	3.6	0.000053	<b>0.0485</b>	ug/L
> Tm	169	1270088	1476788	7569	0.5	1476788.187663		ug/L
Tl	205	10	768	62	8.1	0.000512	<b>0.2323</b>	ug/L
Pb	208	58	1957	32	1.6	0.001280	<b>0.4258</b>	ug/L
Bi	209	101	149	26	17.4	0.000021	<b>0.0551</b>	ug/L
Th	232	30	74	20	26.4	0.000027	<b>0.0671</b>	ug/L
U	238	6	206924	1386	0.7	0.140118	<b>40.9830</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.384
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	106.031
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	123.177
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	116.274
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MS3**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:02:35

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 111

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MS3.086

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	93	16	17.2	0.000084	<b>0.2178</b>	ug/L
Be	9	25	29	4	14.5	0.000002	<b>0.1188</b>	ug/L
B	11	322	401645	3601	0.9	0.686557	<b>3871.1024</b>	ug/L
Na	23	3977	14010745	259920	1.9	23.961493	<b>9261.2917</b>	ug/L
Mg	24	111	159832365	1735837	1.1	273.447642	<b>153100.6254</b>	ug/L
Al	27	1010	77015	4296	5.6	0.129802	<b>53.4380</b>	ug/L
K	39	430753	1091660	21279	1.9	1.048504	<b>294.3963</b>	ug/L
Ca	44	32562	78623	592	0.8	0.072594	<b>703.2350</b>	ug/L
Sc	45	525930	584547	5217	0.9	584547.098783		ug/L
Ti	47	944	1584	108	6.8	0.000916	<b>3.7943</b>	ug/L
Ti	48	-2694	1480	283	19.1	0.007655	<b>2.6624</b>	ug/L
V	51	197	53997	829	1.5	0.092003	<b>27.4190</b>	ug/L
Cr	52	7265	12368	129	1.0	0.007346	<b>2.4947</b>	ug/L
Cr	53	117	994	30	3.1	0.001479	<b>4.5030</b>	ug/L
Mn	55	280	77769	199	0.3	0.132519	<b>31.2285</b>	ug/L
Fe	54	39304	13950981	38418	0.3	23.793230	<b>107907.0825</b>	ug/L
Fe	57	5552	5842485	101912	1.7	9.984071	<b>115065.0478</b>	ug/L
Co	59	38	3443	81	2.4	0.005818	<b>1.6647</b>	ug/L
Ni	60	32	4126	120	2.9	0.006998	<b>9.0678</b>	ug/L
Ni	62	114	809	7	0.9	0.001168	<b>9.9411</b>	ug/L
Cu	65	49	11285	62	0.6	0.050873	<b>21.3547</b>	ug/L
Cu	63	51	22124	507	2.3	0.099939	<b>21.3486</b>	ug/L
Zn	66	439	5592	137	2.4	0.023153	<b>17.6676</b>	ug/L
Zn	68	213	4027	70	1.8	0.017185	<b>17.2591</b>	ug/L
Ge	74	202077	220799	2184	1.0	220799.035367		ug/L
As	75	-111	59728	369	0.6	0.271065	<b>147.0755</b>	ug/L
As-1	75	9698	68443	349	0.5	0.261997	<b>155.1574</b>	ug/L
Se	77	129	441	20	4.4	0.000055	<b>8.1642</b>	ug/L
Se	82	20	597	24	4.1	0.000111	<b>12.7984</b>	ug/L
Sr	88	76	56792	1095	1.9	0.010982	<b>9.7836</b>	ug/L
Mo	98	130	32064	115	0.4	0.006180	<b>26.6584</b>	ug/L
Ag	107	40	1987	92	4.6	0.000375	<b>0.8057</b>	ug/L
Ag	109	40	1160	77	6.6	0.000215	<b>0.4860</b>	ug/L
Cd	111	11	1259	8	0.7	0.000241	<b>2.1685</b>	ug/L
Cd	114	77	2315	75	3.2	0.000430	<b>1.6972</b>	ug/L
In	115	4192305	5162680	37899	0.7	5162680.488076		ug/L

Sn	120	978	4589	1046	22.8	0.000655	<b>1.6710</b>	ug/L
Sb	121	126	6916	129	1.9	0.001310	<b>6.2408</b>	ug/L
Cs	133	15	26	10	40.0	0.000001	<b>0.0044</b>	ug/L
Ba	138	60	845	39	4.6	0.000149	<b>0.1997</b>	ug/L
Ce	140	18	276	7	2.6	0.000049	<b>0.0454</b>	ug/L
Tm	169	1270088	1460812	9702	0.7	1460811.865751		ug/L
Tl	205	10	2042	96	4.7	0.001390	<b>0.6322</b>	ug/L
Pb	208	58	35560	87	0.2	0.024297	<b>8.2120</b>	ug/L
Bi	209	101	169	67	39.4	0.000036	<b>0.0609</b>	ug/L
Th	232	30	63	12	18.4	0.000020	<b>0.0645</b>	ug/L
U	238	6	211499	1021	0.5	0.144783	<b>42.3475</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	111.145
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	109.265
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	123.147
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	115.017
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:06:21

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 112

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS1.087

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	36	7	19.5	-0.000013	<b>0.0161</b>	ug/L
Be	9	25	31	7	20.8	0.000006	<b>0.1553</b>	ug/L
B	11	322	182681	2709	1.5	0.308469	<b>1739.4224</b>	ug/L
Na	23	3977	71823	10676	14.9	0.113850	<b>52.3146</b>	ug/L
Mg	24	111	335499	154923	46.2	0.565520	<b>318.2645</b>	ug/L
Al	27	1010	4734	183	3.9	0.006088	<b>3.1468</b>	ug/L
K	39	430753	435276	3449	0.8	-0.082527	<b>-17.4755</b>	ug/L
Ca	44	32562	29292	55	0.2	-0.012345	<b>-98.7957</b>	ug/L
Sc	45	525930	591054	9352	1.6	591053.578534		ug/L
Ti	47	944	866	45	5.2	-0.000331	<b>-1.0424</b>	ug/L
Ti	48	-2694	-1677	603	36.0	0.002295	<b>0.7636</b>	ug/L
V	51	197	298	26	8.9	0.000131	<b>0.0703</b>	ug/L
Cr	52	7265	8930	57	0.6	0.001298	<b>0.3871</b>	ug/L
Cr	53	117	476	10	2.2	0.000583	<b>1.7527</b>	ug/L
Mn	55	280	6335	98	1.5	0.010186	<b>2.4042</b>	ug/L
Fe	54	39304	12224135	92308	0.8	20.609039	<b>93466.9879</b>	ug/L
Fe	57	5552	5065470	32275	0.6	8.560717	<b>98661.2301</b>	ug/L
Co	59	38	2413	88	3.7	0.004010	<b>1.1430</b>	ug/L
Ni	60	32	1047	48	4.6	0.001711	<b>2.2153</b>	ug/L
Ni	62	114	318	21	6.5	0.000322	<b>2.9554</b>	ug/L
Cu	65	49	5807	135	2.3	0.025306	<b>10.6338</b>	ug/L
Cu	63	51	11256	141	1.3	0.049276	<b>10.5305</b>	ug/L
Zn	66	439	788	6	0.8	0.001296	<b>1.3144</b>	ug/L
Zn	68	213	490	15	3.1	0.001106	<b>1.4352</b>	ug/L
Ge	74	202077	227342	4360	1.9	227342.213043		ug/L
As	75	-111	41536	728	1.8	0.183268	<b>99.4914</b>	ug/L
As-1	75	9698	51006	698	1.4	0.176400	<b>104.7804</b>	ug/L
Se	77	129	396	16	4.1	0.000046	<b>6.7973</b>	ug/L
Se	82	20	340	6	1.7	0.000061	<b>7.1107</b>	ug/L
Sr	88	76	340	24	7.0	0.000048	<b>0.0238</b>	ug/L
Mo	98	130	705	86	12.1	0.000105	<b>0.4765</b>	ug/L
Ag	107	40	1890	62	3.3	0.000355	<b>0.7636</b>	ug/L
Ag	109	40	1120	5	0.4	0.000207	<b>0.4673</b>	ug/L
Cd	111	11	482	7	1.5	0.000091	<b>0.7949</b>	ug/L
Cd	114	77	609	35	5.8	0.000099	<b>0.4022</b>	ug/L
In	115	4192305	5181113	36040	0.7	5181113.083166		ug/L

Sn	120	978	3958	865	21.9	0.000530	<b>1.3819</b>	ug/L
Sb	121	126	934	41	4.4	0.000150	<b>0.7719</b>	ug/L
Cs	133	15	18	2	12.6	-0.000000	<b>0.0032</b>	ug/L
Ba	138	60	237	11	4.6	0.000031	<b>0.0774</b>	ug/L
Ce	140	18	77	2	2.2	0.000011	<b>0.0092</b>	ug/L
Tm	169	1270088	1465739	8980	0.6	1465738.769353		ug/L
Tl	205	10	1355	52	3.8	0.000917	<b>0.4167</b>	ug/L
Pb	208	58	28931	169	0.6	0.019693	<b>6.6545</b>	ug/L
Bi	209	101	186	17	9.3	0.000047	<b>0.0653</b>	ug/L
Th	232	30	38	9	22.5	0.000003	<b>0.0579</b>	ug/L
U	238	6	49	12	24.0	0.000028	<b>0.0049</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.382
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	112.503
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	123.586
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	115.404
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-SRM1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:10:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 113

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-SRM1.088

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	501	22	4.4	0.000742	<b>1.5866</b>	ug/L
Be	9	25	31	4	11.2	0.000004	<b>0.1370</b>	ug/L
B	11	322	307809	9338	3.0	0.500305	<b>2821.0052</b>	ug/L
Na	23	3977	2696285	28077	1.0	4.381175	<b>1700.1796</b>	ug/L
Mg	24	111	24471897	342791	1.4	39.830109	<b>22301.8837</b>	ug/L
Al	27	1010	16815	297	1.8	0.025448	<b>11.0168</b>	ug/L
K	39	430753	592601	976	0.2	0.145600	<b>45.4284</b>	ug/L
Ca	44	32562	336184	5133	1.5	0.485252	<b>4599.6813</b>	ug/L
Sc	45	525930	614400	7996	1.3	614399.583543		ug/L
Ti	47	944	1820	63	3.4	0.001167	<b>4.7695</b>	ug/L
Ti	48	-2694	-409	364	88.9	0.004457	<b>1.5294</b>	ug/L
V	51	197	54374	1209	2.2	0.088119	<b>26.2628</b>	ug/L
Cr	52	7265	15081	61	0.4	0.010734	<b>3.6754</b>	ug/L
Cr	53	117	1159	38	3.3	0.001665	<b>5.0726</b>	ug/L
Mn	55	280	61097	735	1.2	0.098912	<b>23.3100</b>	ug/L
Fe	54	39304	13654179	160413	1.2	22.149510	<b>100452.9214</b>	ug/L
Fe	57	5552	5666819	129566	2.3	9.212119	<b>106168.4897</b>	ug/L
Co	59	38	4012	75	1.9	0.006457	<b>1.8493</b>	ug/L
Ni	60	32	8249	214	2.6	0.013364	<b>17.3171</b>	ug/L
Ni	62	114	1434	52	3.6	0.002119	<b>17.7828</b>	ug/L
Cu	65	49	14104	532	3.8	0.061044	<b>25.6198</b>	ug/L
Cu	63	51	27734	939	3.4	0.120268	<b>25.6894</b>	ug/L
Zn	66	439	1489	23	1.6	0.004306	<b>3.5666</b>	ug/L
Zn	68	213	1343	32	2.4	0.004784	<b>5.0549</b>	ug/L
Ge	74	202077	230102	6749	2.9	230102.303826		ug/L
As	75	-111	9408	257	2.7	0.041447	<b>22.6274</b>	ug/L
As-1	75	9698	18743	268	1.4	0.033491	<b>20.6732</b>	ug/L
Se	77	129	164	11	6.5	0.000001	<b>0.0112</b>	ug/L
Se	82	20	73	10	13.2	0.000009	<b>1.2797</b>	ug/L
Sr	88	76	640306	5151	0.8	0.124455	<b>111.0644</b>	ug/L
Mo	98	130	10544	377	3.6	0.002018	<b>8.7219</b>	ug/L
Ag	107	40	1991	51	2.5	0.000378	<b>0.8105</b>	ug/L
Ag	109	40	1116	8	0.7	0.000207	<b>0.4691</b>	ug/L
Cd	111	11	619	37	6.0	0.000118	<b>1.0424</b>	ug/L
Cd	114	77	1088	9	0.8	0.000193	<b>0.7698</b>	ug/L
In	115	4192305	5144671	84587	1.6	5144671.300054		ug/L



Sn	120	978	4289	768	17.9	0.000599	<b>1.5415</b>	ug/L
Sb	121	126	8041	122	1.5	0.001533	<b>7.2959</b>	ug/L
Cs	133	15	16	5	32.1	-0.000001	<b>0.0028</b>	ug/L
Ba	138	60	63600	517	0.8	0.012349	<b>12.8377</b>	ug/L
Ce	140	18	710	30	4.2	0.000134	<b>0.1247</b>	ug/L
Tm	169	1270088	1465469	12069	0.8	1465468.899320		ug/L
Tl	205	10	555	37	6.7	0.000371	<b>0.1679</b>	ug/L
Pb	208	58	1102	46	4.1	0.000706	<b>0.2318</b>	ug/L
Bi	209	101	127	34	26.9	0.000007	<b>0.0492</b>	ug/L
Th	232	30	52	3	6.7	0.000012	<b>0.0615</b>	ug/L
U	238	6	136530	1684	1.2	0.093158	<b>27.2465</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	116.821
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	113.869
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	122.717
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	115.383
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MS4**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:13:53

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 114

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MS4.089

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	323	38	11.8	0.000462	<b>1.0049</b>	ug/L
Be	9	25	65	6	9.4	0.000061	<b>0.6642</b>	ug/L
B	11	322	251945	4640	1.8	0.417770	<b>2355.6718</b>	ug/L
Na	23	3977	2465845	41861	1.7	4.087144	<b>1586.6373</b>	ug/L
Mg	24	111	102680087	1422361	1.4	170.507401	<b>95466.0215</b>	ug/L
Al	27	1010	78819	1441	1.8	0.128963	<b>53.0968</b>	ug/L
K	39	430753	546858	5597	1.0	0.089079	<b>29.8434</b>	ug/L
Ca	44	32562	60355	574	1.0	0.038314	<b>379.5513</b>	ug/L
Sc	45	525930	602185	3037	0.5	602184.706416		ug/L
Ti	47	944	1507	44	2.9	0.000708	<b>2.9851</b>	ug/L
Ti	48	-2694	1014	66	6.5	0.006806	<b>2.3614</b>	ug/L
V	51	197	54651	365	0.7	0.090384	<b>26.9371</b>	ug/L
Cr	52	7265	19320	99	0.5	0.018270	<b>6.3018</b>	ug/L
Cr	53	117	1710	23	1.4	0.002618	<b>7.9971</b>	ug/L
Mn	55	280	86561	1452	1.7	0.143208	<b>33.7470</b>	ug/L
Fe	54	39304	14060219	102014	0.7	23.273937	<b>105552.1267</b>	ug/L
Fe	57	5552	5838274	83824	1.4	9.684301	<b>111610.2758</b>	ug/L
Co	59	38	9420	12	0.1	0.015571	<b>4.4793</b>	ug/L
Ni	60	32	4949	22	0.4	0.008159	<b>10.5719</b>	ug/L
Ni	62	114	882	29	3.3	0.001249	<b>10.6058</b>	ug/L
Cu	65	49	6383	96	1.5	0.027929	<b>11.7336</b>	ug/L
Cu	63	51	12226	62	0.5	0.053708	<b>11.4769</b>	ug/L
Zn	66	439	12223	201	1.6	0.051773	<b>39.0806</b>	ug/L
Zn	68	213	8888	126	1.4	0.038182	<b>37.9224</b>	ug/L
Ge	74	202077	226637	5566	2.5	226637.019243		ug/L
As	75	-111	8714	196	2.3	0.039001	<b>21.3017</b>	ug/L
As-1	75	9698	18037	220	1.2	0.031612	<b>19.5674</b>	ug/L
Se	77	129	447	10	2.2	0.000057	<b>8.4640</b>	ug/L
Se	82	20	504	23	4.5	0.000094	<b>10.8549</b>	ug/L
Sr	88	76	30574	831	2.7	0.005958	<b>5.2991</b>	ug/L
Mo	98	130	21905	614	2.8	0.004251	<b>18.3439</b>	ug/L
Ag	107	40	5208	36	0.7	0.001009	<b>2.1419</b>	ug/L
Ag	109	40	4448	35	0.8	0.000860	<b>1.8912</b>	ug/L
Cd	111	11	979	19	1.9	0.000189	<b>1.6894</b>	ug/L
Cd	114	77	1859	48	2.6	0.000345	<b>1.3639</b>	ug/L
In	115	4192305	5115440	50612	1.0	5115439.769348		ug/L

Sn	120	978	4517	884	19.6	0.000649	<b>1.6564</b>	ug/L
Sb	121	126	5245	64	1.2	0.000995	<b>4.7586</b>	ug/L
Cs	133	15	16	5	28.6	-0.000001	<b>0.0028</b>	ug/L
Ba	138	60	569	38	6.7	0.000097	<b>0.1453</b>	ug/L
Ce	140	18	252	12	4.7	0.000045	<b>0.0414</b>	ug/L
> Tm	169	1270088	1451297	3422	0.2	1451297.172393		ug/L
Tl	205	10	2062	41	2.0	0.001413	<b>0.6430</b>	ug/L
Pb	208	58	3905	67	1.7	0.002645	<b>0.8877</b>	ug/L
Bi	209	101	113	17	15.4	-0.000002	<b>0.0459</b>	ug/L
Th	232	30	46	4	9.1	0.000008	<b>0.0600</b>	ug/L
U	238	6	196383	2517	1.3	0.135313	<b>39.5773</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.499
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.154
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.020
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	114.267
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 17:17:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV2.090

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3466	11	0.3	0.005606	<b>2.3411</b>	ug/L
Be	9	25	334	15	4.5	0.000501	<b>0.9563</b>	ug/L
B	11	322	29007	231	0.8	0.046934	<b>52.9757</b>	ug/L
Na	23	3977	3835330	29128	0.8	6.279006	<b>486.6087</b>	ug/L
Mg	24	111	1016002	16674	1.6	1.665240	<b>186.7961</b>	ug/L
Al	27	1010	352366	4253	1.2	0.575680	<b>46.9386</b>	ug/L
K	39	430753	1463716	18956	1.3	1.580278	<b>88.2057</b>	ug/L
Ca	44	32562	339119	1717	0.5	0.493954	<b>936.3690</b>	ug/L
Sc	45	525930	610089	4476	0.7	610089.200199		ug/L
Ti	47	944	4764	96	2.0	0.006013	<b>4.7133</b>	ug/L
Ti	48	-2694	39974	1334	3.3	0.070647	<b>4.9952</b>	ug/L
V	51	197	50082	488	1.0	0.081719	<b>4.8715</b>	ug/L
Cr	52	7265	113522	927	0.8	0.172274	<b>11.9943</b>	ug/L
Cr	53	117	12434	151	1.2	0.020161	<b>12.3647</b>	ug/L
Mn	55	280	32245	200	0.6	0.052323	<b>2.4665</b>	ug/L
Fe	54	39304	205098	2055	1.0	0.261469	<b>238.4232</b>	ug/L
Fe	57	5552	72648	2028	2.8	0.108534	<b>250.3597</b>	ug/L
Co	59	38	26500	473	1.8	0.043368	<b>2.5002</b>	ug/L
Ni	60	32	11685	276	2.4	0.019095	<b>4.9488</b>	ug/L
Ni	62	114	1923	37	1.9	0.002935	<b>4.9030</b>	ug/L
Cu	65	49	13924	250	1.8	0.058548	<b>4.9146</b>	ug/L
Cu	63	51	27737	516	1.9	0.116859	<b>4.9923</b>	ug/L
Zn	66	439	8365	126	1.5	0.033150	<b>5.0293</b>	ug/L
Zn	68	213	6250	100	1.6	0.025337	<b>5.0563</b>	ug/L
Ge	74	202077	236847	918	0.4	236846.654284		ug/L
As	75	-111	10701	80	0.7	0.045733	<b>4.9900</b>	ug/L
As-1	75	9698	20011	83	0.4	0.036499	<b>4.4886</b>	ug/L
Se	77	129	1900	42	2.2	0.000344	<b>10.4261</b>	ug/L
Se	82	20	2369	35	1.5	0.000462	<b>10.5340</b>	ug/L
Sr	88	76	138280	2787	2.0	0.027227	<b>4.8566</b>	ug/L
Mo	98	130	3564	81	2.3	0.000671	<b>0.5832</b>	ug/L
Ag	107	40	12390	35	0.3	0.002432	<b>1.0289</b>	ug/L
Ag	109	40	11861	124	1.0	0.002328	<b>1.0176</b>	ug/L
Cd	111	11	1424	72	5.0	0.000278	<b>0.5003</b>	ug/L
Cd	114	77	3267	75	2.3	0.000625	<b>0.4922</b>	ug/L
In	115	4192305	5075319	22251	0.4	5075318.866565		ug/L

Sn	120	978	28069	1350	4.8	0.005296	<b>2.4733</b>	ug/L
Sb	121	126	4019	297	7.4	0.000762	<b>0.7315</b>	ug/L
Cs	133	15	73729	712	1.0	0.014523	<b>2.3930</b>	ug/L
Ba	138	60	54240	415	0.8	0.010673	<b>2.2202</b>	ug/L
Ce	140	18	12720	140	1.1	0.002502	<b>0.4697</b>	ug/L
> Tm	169	1270088	1436869	11846	0.8	1436868.745933		ug/L
Tl	205	10	3933	61	1.6	0.002730	<b>0.2486</b>	ug/L
Pb	208	58	53598	370	0.7	0.037257	<b>2.5192</b>	ug/L
Bi	209	101	42968	436	1.0	0.029826	<b>2.3759</b>	ug/L
Th	232	30	10035	148	1.5	0.006961	<b>0.5397</b>	ug/L
U	238	6	12072	60	0.5	0.008397	<b>0.4906</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.002
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	117.206
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	121.063
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	113.131
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 17:21:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB2.091

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	4	7.8	0.000017	<b>0.0160</b>	ug/L
Be	9	25	25	2	9.4	-0.000002	<b>0.0151</b>	ug/L
B	11	322	2020	302	15.0	0.003019	<b>3.4570</b>	ug/L
Na	23	3977	8562	4216	49.2	0.007713	<b>2.2658</b>	ug/L
Mg	24	111	26699	41073	153.8	0.046336	<b>5.5164</b>	ug/L
Al	27	1010	1174	236	20.1	0.000187	<b>0.1496</b>	ug/L
K	39	430753	437026	3329	0.8	-0.031262	<b>-0.6679</b>	ug/L
Ca	44	32562	32099	299	0.9	-0.004055	<b>-4.1037</b>	ug/L
Sc	45	525930	555073	18367	3.3	555073.122140		ug/L
Ti	47	944	905	3	0.3	-0.000163	<b>-0.0786</b>	ug/L
Ti	48	-2694	-2639	23	0.9	0.000365	<b>0.0160</b>	ug/L
V	51	197	232	35	15.0	0.000043	<b>0.0088</b>	ug/L
Cr	52	7265	7857	381	4.8	0.000338	<b>0.0105</b>	ug/L
Cr	53	117	122	17	13.6	-0.000002	<b>-0.0084</b>	ug/L
Mn	55	280	311	16	5.2	0.000028	<b>0.0021</b>	ug/L
Fe	54	39304	43068	4881	11.3	0.002725	<b>3.7462</b>	ug/L
Fe	57	5552	7143	1618	22.6	0.002258	<b>5.3991</b>	ug/L
Co	59	38	50	8	16.2	0.000018	<b>-0.0018</b>	ug/L
Ni	60	32	32	6	20.1	-0.000002	<b>-0.0010</b>	ug/L
Ni	62	114	145	25	17.5	0.000044	<b>0.1326</b>	ug/L
Cu	65	49	60	11	17.9	0.000038	<b>0.0076</b>	ug/L
Cu	63	51	83	14	17.1	0.000130	<b>0.0073</b>	ug/L
Zn	66	439	421	36	8.6	-0.000225	<b>0.0353</b>	ug/L
Zn	68	213	197	26	13.4	-0.000145	<b>0.0408</b>	ug/L
Ge	74	202077	216276	11043	5.1	216276.390659		ug/L
As	75	-111	-154	63	41.3	-0.000157	<b>0.0158</b>	ug/L
As-1	75	9698	9610	78	0.8	-0.003490	<b>-0.2184</b>	ug/L
Se	77	129	156	18	11.3	0.000002	<b>0.0411</b>	ug/L
Se	82	20	28	23	85.2	0.000001	<b>0.0627</b>	ug/L
Sr	88	76	189	162	85.9	0.000022	<b>0.0002</b>	ug/L
Mo	98	130	306	88	28.8	0.000033	<b>0.0337</b>	ug/L
Ag	107	40	55	7	12.7	0.000002	<b>0.0037</b>	ug/L
Ag	109	40	46	3	5.4	0.000000	<b>0.0036</b>	ug/L
Cd	111	11	19	6	31.6	0.000002	<b>-0.0031</b>	ug/L
Cd	114	77	61	11	18.7	-0.000006	<b>-0.0015</b>	ug/L
In	115	4192305	4724557	182893	3.9	4724556.941085		ug/L

Sn	120	978	745	743	99.7	-0.000079	<b>-0.0045</b>	ug/L
Sb	121	126	603	20	3.3	0.000098	<b>0.1047</b>	ug/L
Cs	133	15	25	5	18.3	0.000002	<b>0.0009</b>	ug/L
Ba	138	60	78	17	21.5	0.000002	<b>0.0094</b>	ug/L
Ce	140	18	26	3	13.3	0.000001	<b>0.0001</b>	ug/L
> Tm	169	1270088	1363635	36008	2.6	1363634.768602		ug/L
Tl	205	10	22	10	45.1	0.000009	<b>0.0005</b>	ug/L
Pb	208	58	134	93	68.9	0.000051	<b>0.0021</b>	ug/L
Bi	209	101	464	94	20.3	0.000259	<b>0.0299</b>	ug/L
Th	232	30	140	33	23.4	0.000079	<b>0.0174</b>	ug/L
U	238	6	164	237	144.9	0.000112	<b>0.0059</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.541
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.027
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.696
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.365
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS2**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:25:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 115

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS2.092

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	39	7	17.3	-0.000002	<b>0.0403</b>	ug/L
Be	9	25	45	5	11.3	0.000037	<b>0.4471</b>	ug/L
B	11	322	192216	3816	2.0	0.355990	<b>2007.3534</b>	ug/L
Na	23	3977	47913	1259	2.6	0.081317	<b>39.7518</b>	ug/L
Mg	24	111	432394	12808	3.0	0.801824	<b>450.5673</b>	ug/L
Al	27	1010	3604	65	1.8	0.004766	<b>2.6095</b>	ug/L
K	39	430753	421416	619	0.1	-0.036985	<b>-4.9178</b>	ug/L
Ca	44	32562	30910	584	1.9	-0.004568	<b>-25.3568</b>	ug/L
Sc	45	525930	539084	13692	2.5	539083.648262		ug/L
Ti	47	944	924	68	7.4	-0.000081	<b>-0.0731</b>	ug/L
Ti	48	-2694	-2453	37	1.5	0.000571	<b>0.1530</b>	ug/L
V	51	197	6946	206	3.0	0.012511	<b>3.7556</b>	ug/L
Cr	52	7265	14447	318	2.2	0.012987	<b>4.4607</b>	ug/L
Cr	53	117	1167	41	3.5	0.001944	<b>5.9283</b>	ug/L
Mn	55	280	5933	230	3.9	0.010471	<b>2.4712</b>	ug/L
Fe	54	39304	11187260	352544	3.2	20.675610	<b>93768.8846</b>	ug/L
Fe	57	5552	4686600	187143	4.0	8.680984	<b>100047.2850</b>	ug/L
Co	59	38	7876	282	3.6	0.014537	<b>4.1809</b>	ug/L
Ni	60	32	3073	89	2.9	0.005640	<b>7.3077</b>	ug/L
Ni	62	114	633	51	8.0	0.000960	<b>8.2181</b>	ug/L
Cu	65	49	2462	37	1.5	0.011948	<b>5.0322</b>	ug/L
Cu	63	51	4881	280	5.7	0.023894	<b>5.1107</b>	ug/L
Zn	66	439	8273	204	2.5	0.038770	<b>29.3521</b>	ug/L
Zn	68	213	6006	237	3.9	0.028658	<b>28.5499</b>	ug/L
Ge	74	202077	202099	5588	2.8	202098.828560		ug/L
As	75	-111	1337	39	2.9	0.007170	<b>4.0501</b>	ug/L
As-1	75	9698	10251	306	3.0	0.002736	<b>2.5727</b>	ug/L
Se	77	129	346	31	8.9	0.000042	<b>6.2578</b>	ug/L
Se	82	20	335	12	3.5	0.000066	<b>7.6671</b>	ug/L
Sr	88	76	390	26	6.5	0.000064	<b>0.0385</b>	ug/L
Mo	98	130	223	60	26.9	0.000016	<b>0.0933</b>	ug/L
Ag	107	40	4853	165	3.4	0.001013	<b>2.1507</b>	ug/L
Ag	109	40	3948	179	4.5	0.000822	<b>1.8082</b>	ug/L
Cd	111	11	459	25	5.5	0.000094	<b>0.8281</b>	ug/L
Cd	114	77	640	40	6.2	0.000116	<b>0.4690</b>	ug/L
In	115	4192305	4746936	138255	2.9	4746935.854482		ug/L

Sn	120	978	3793	766	20.2	0.000566	<b>1.4662</b>	ug/L
Sb	121	126	2577	63	2.4	0.000513	<b>2.4826</b>	ug/L
Cs	133	15	17	6	33.0	-0.000000	<b>0.0032</b>	ug/L
Ba	138	60	242	24	9.7	0.000037	<b>0.0829</b>	ug/L
Ce	140	18	93	11	11.8	0.000015	<b>0.0136</b>	ug/L
> Tm	169	1270088	1410609	33383	2.4	1410608.826323		ug/L
Tl	205	10	1266	76	6.0	0.000890	<b>0.4045</b>	ug/L
Pb	208	58	2454	69	2.8	0.001694	<b>0.5660</b>	ug/L
Bi	209	101	183	23	12.5	0.000050	<b>0.0665</b>	ug/L
Th	232	30	80	15	18.7	0.000034	<b>0.0697</b>	ug/L
U	238	6	26	4	15.7	0.000013	<b>0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.501
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	100.011
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.230
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	111.064
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS3**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:29:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 116

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS3.093

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	43	4	8.4	-0.000001	<b>0.0416</b>	ug/L
Be	9	25	51	1	2.0	0.000040	<b>0.4770</b>	ug/L
B	11	322	203311	2338	1.1	0.347730	<b>1960.7803</b>	ug/L
Na	23	3977	44949	420	0.9	0.069452	<b>35.1699</b>	ug/L
Mg	24	111	366946	2848	0.8	0.628513	<b>353.5335</b>	ug/L
Al	27	1010	6293	220	3.5	0.008864	<b>4.2753</b>	ug/L
K	39	430753	432226	1690	0.4	-0.078451	<b>-16.3516</b>	ug/L
Ca	44	32562	30490	109	0.4	-0.009671	<b>-73.5446</b>	ug/L
Sc	45	525930	583642	3205	0.5	583642.427004		ug/L
Ti	47	944	896	42	4.7	-0.000261	<b>-0.7712</b>	ug/L
Ti	48	-2694	-2410	23	1.0	0.000993	<b>0.3024</b>	ug/L
V	51	197	7701	81	1.1	0.012821	<b>3.8481</b>	ug/L
Cr	52	7265	15290	75	0.5	0.012384	<b>4.2505</b>	ug/L
Cr	53	117	1232	26	2.1	0.001889	<b>5.7610</b>	ug/L
Mn	55	280	6792	119	1.8	0.011105	<b>2.6205</b>	ug/L
Fe	54	39304	12257692	142980	1.2	20.926874	<b>94908.3495</b>	ug/L
Fe	57	5552	5096565	54901	1.1	8.721706	<b>100516.5971</b>	ug/L
Co	59	38	8649	98	1.1	0.014748	<b>4.2417</b>	ug/L
Ni	60	32	3431	64	1.9	0.005818	<b>7.5385</b>	ug/L
Ni	62	114	687	17	2.5	0.000962	<b>8.2353</b>	ug/L
Cu	65	49	2598	77	3.0	0.011389	<b>4.7981</b>	ug/L
Cu	63	51	5131	124	2.4	0.022720	<b>4.8600</b>	ug/L
Zn	66	439	8833	194	2.2	0.037380	<b>28.3117</b>	ug/L
Zn	68	213	6546	30	0.5	0.028261	<b>28.1593</b>	ug/L
Ge	74	202077	223359	4356	2.0	223358.603761		ug/L
As	75	-111	1224	106	8.7	0.006026	<b>3.4302</b>	ug/L
As-1	75	9698	10584	141	1.3	-0.000591	<b>0.6147</b>	ug/L
Se	77	129	315	8	2.5	0.000030	<b>4.3787</b>	ug/L
Se	82	20	268	9	3.2	0.000047	<b>5.5156</b>	ug/L
Sr	88	76	390	16	4.1	0.000057	<b>0.0321</b>	ug/L
Mo	98	130	196	44	22.7	0.000007	<b>0.0526</b>	ug/L
Ag	107	40	4887	96	2.0	0.000931	<b>1.9772</b>	ug/L
Ag	109	40	3973	107	2.7	0.000755	<b>1.6614</b>	ug/L
Cd	111	11	471	18	3.8	0.000088	<b>0.7717</b>	ug/L
Cd	114	77	671	43	6.3	0.000111	<b>0.4469</b>	ug/L
In	115	4192305	5198851	33371	0.6	5198850.961805		ug/L

Sn	120	978	3849	893	23.2	0.000506	<b>1.3277</b>	ug/L
Sb	121	126	2021	79	3.9	0.000359	<b>1.7548</b>	ug/L
Cs	133	15	15	4	24.7	-0.000001	<b>0.0027</b>	ug/L
Ba	138	60	439	16	3.6	0.000070	<b>0.1174</b>	ug/L
Ce	140	18	79	6	7.6	0.000011	<b>0.0095</b>	ug/L
> Tm	169	1270088	1476239	10423	0.7	1476238.935102		ug/L
Tl	205	10	1163	6	0.5	0.000780	<b>0.3545</b>	ug/L
Pb	208	58	2788	31	1.1	0.001843	<b>0.6164</b>	ug/L
Bi	209	101	147	33	22.5	0.000019	<b>0.0544</b>	ug/L
Th	232	30	40	5	12.5	0.000004	<b>0.0584</b>	ug/L
U	238	6	24	4	16.7	0.000012	<b>-0.0000</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	110.973
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.532
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	124.009
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	116.231
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS4**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:32:48

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 117

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS4.094

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	37	11	30.1	-0.000012	<b>0.0193</b>	ug/L
Be	9	25	47	9	19.1	0.000033	<b>0.4108</b>	ug/L
B	11	322	206656	2198	1.1	0.350403	<b>1975.8484</b>	ug/L
Na	23	3977	36391	1038	2.9	0.054240	<b>29.2958</b>	ug/L
Mg	24	111	248605	8580	3.5	0.421965	<b>237.8906</b>	ug/L
Al	27	1010	6782	190	2.8	0.009599	<b>4.5739</b>	ug/L
K	39	430753	432549	2637	0.6	-0.084281	<b>-17.9592</b>	ug/L
Ca	44	32562	29755	63	0.2	-0.011369	<b>-89.5760</b>	ug/L
Sc	45	525930	588765	8881	1.5	588764.695776		ug/L
Ti	47	944	888	18	2.0	-0.000287	<b>-0.8746</b>	ug/L
Ti	48	-2694	-2310	29	1.2	0.001198	<b>0.3750</b>	ug/L
V	51	197	7970	238	3.0	0.013161	<b>3.9493</b>	ug/L
Cr	52	7265	15744	309	2.0	0.012934	<b>4.4420</b>	ug/L
Cr	53	117	1221	74	6.0	0.001852	<b>5.6465</b>	ug/L
Mn	55	280	6838	297	4.3	0.011080	<b>2.6149</b>	ug/L
Fe	54	39304	12616301	339571	2.7	21.352492	<b>96838.5006</b>	ug/L
Fe	57	5552	5221442	170929	3.3	8.856896	<b>102074.6254</b>	ug/L
Co	59	38	8892	254	2.9	0.015028	<b>4.3227</b>	ug/L
Ni	60	32	3402	122	3.6	0.005716	<b>7.4058</b>	ug/L
Ni	62	114	727	1	0.1	0.001019	<b>8.7072</b>	ug/L
Cu	65	49	2753	124	4.5	0.012062	<b>5.0799</b>	ug/L
Cu	63	51	5475	195	3.6	0.024216	<b>5.1794</b>	ug/L
Zn	66	439	9002	276	3.1	0.038066	<b>28.8250</b>	ug/L
Zn	68	213	6697	283	4.2	0.028874	<b>28.7619</b>	ug/L
Ge	74	202077	223710	4343	1.9	223710.427054		ug/L
As	75	-111	1320	93	7.1	0.006449	<b>3.6593</b>	ug/L
As-1	75	9698	10542	110	1.0	-0.000861	<b>0.4555</b>	ug/L
Se	77	129	357	3	0.9	0.000039	<b>5.7433</b>	ug/L
Se	82	20	282	22	7.7	0.000050	<b>5.8964</b>	ug/L
Sr	88	76	176	6	3.2	0.000016	<b>-0.0043</b>	ug/L
Mo	98	130	168	49	29.2	0.000001	<b>0.0305</b>	ug/L
Ag	107	40	4915	96	2.0	0.000946	<b>2.0101</b>	ug/L
Ag	109	40	4010	107	2.7	0.000770	<b>1.6948</b>	ug/L
Cd	111	11	480	19	4.0	0.000091	<b>0.7969</b>	ug/L
Cd	114	77	685	23	3.4	0.000115	<b>0.4633</b>	ug/L
In	115	4192305	5143422	94933	1.8	5143421.632591		ug/L

Sn	120	978	4096	1109	27.1	0.000561	<b>1.4530</b>	ug/L
Sb	121	126	2330	44	1.9	0.000423	<b>2.0586</b>	ug/L
Cs	133	15	20	6	28.0	0.000000	<b>0.0034</b>	ug/L
Ba	138	60	232	41	17.5	0.000031	<b>0.0767</b>	ug/L
Ce	140	18	82	19	23.2	0.000012	<b>0.0102</b>	ug/L
> Tm	169	1270088	1472910	15803	1.1	1472909.974821		ug/L
Tl	205	10	1146	6	0.5	0.000771	<b>0.3501</b>	ug/L
Pb	208	58	3863	53	1.4	0.002577	<b>0.8646</b>	ug/L
Bi	209	101	170	38	22.6	0.000035	<b>0.0606</b>	ug/L
Th	232	30	33	9	26.4	-0.000001	<b>0.0564</b>	ug/L
U	238	6	23	4	15.1	0.000011	<b>-0.0001</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.947
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.706
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.687
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	115.969
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS5**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:36:34

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 118

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS5.095

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	34	8	23.1	-0.000016	<b>0.0101</b>	ug/L
Be	9	25	51	6	10.9	0.000042	<b>0.4901</b>	ug/L
B	11	322	181470	11744	6.5	0.317092	<b>1788.0414</b>	ug/L
Na	23	3977	48316	2596	5.4	0.077063	<b>38.1091</b>	ug/L
Mg	24	111	270782	13590	5.0	0.474116	<b>267.0889</b>	ug/L
Al	27	1010	6505	256	3.9	0.009481	<b>4.5260</b>	ug/L
K	39	430753	426491	6513	1.5	-0.070937	<b>-14.2796</b>	ug/L
Ca	44	32562	29731	111	0.4	-0.009732	<b>-74.1176</b>	ug/L
Sc	45	525930	571026	32418	5.7	571025.945012		ug/L
Ti	47	944	872	59	6.8	-0.000263	<b>-0.7782</b>	ug/L
Ti	48	-2694	-2285	32	1.4	0.001113	<b>0.3450</b>	ug/L
V	51	197	8031	436	5.4	0.013691	<b>4.1071</b>	ug/L
Cr	52	7265	15528	909	5.9	0.013377	<b>4.5965</b>	ug/L
Cr	53	117	1292	81	6.3	0.002040	<b>6.2237</b>	ug/L
Mn	55	280	9946	647	6.5	0.016882	<b>3.9819</b>	ug/L
Fe	54	39304	12760752	835042	6.5	22.264905	<b>100976.2337</b>	ug/L
Fe	57	5552	5280840	347758	6.6	9.234154	<b>106422.4341</b>	ug/L
Co	59	38	9459	507	5.4	0.016495	<b>4.7459</b>	ug/L
Ni	60	32	3693	303	8.2	0.006401	<b>8.2938</b>	ug/L
Ni	62	114	723	61	8.5	0.001049	<b>8.9561</b>	ug/L
Cu	65	49	2758	187	6.8	0.012702	<b>5.3485</b>	ug/L
Cu	63	51	5421	531	9.8	0.025151	<b>5.3791</b>	ug/L
Zn	66	439	9462	588	6.2	0.042235	<b>31.9447</b>	ug/L
Zn	68	213	6933	526	7.6	0.031460	<b>31.3072</b>	ug/L
Ge	74	202077	213315	17472	8.2	213314.802230		ug/L
As	75	-111	1190	24	2.0	0.006153	<b>3.4990</b>	ug/L
As-1	75	9698	10439	301	2.9	0.001101	<b>1.6104</b>	ug/L
Se	77	129	408	26	6.5	0.000051	<b>7.6123</b>	ug/L
Se	82	20	355	2	0.6	0.000067	<b>7.7655</b>	ug/L
Sr	88	76	372	45	12.1	0.000056	<b>0.0315</b>	ug/L
Mo	98	130	148	53	36.0	-0.000002	<b>0.0159</b>	ug/L
Ag	107	40	5482	440	8.0	0.001088	<b>2.3086</b>	ug/L
Ag	109	40	4503	394	8.7	0.000891	<b>1.9594</b>	ug/L
Cd	111	11	477	31	6.5	0.000093	<b>0.8170</b>	ug/L
Cd	114	77	643	52	8.1	0.000110	<b>0.4453</b>	ug/L
In	115	4192305	4993737	331803	6.6	4993736.957074		ug/L

Sn	120	978	3951	1055	26.7	0.000553	<b>1.4358</b>	ug/L
Sb	121	126	2049	169	8.2	0.000380	<b>1.8557</b>	ug/L
Cs	133	15	21	8	39.3	0.000001	<b>0.0038</b>	ug/L
Ba	138	60	277	13	4.7	0.000041	<b>0.0877</b>	ug/L
Ce	140	18	86	5	5.3	0.000013	<b>0.0115</b>	ug/L
Tm	169	1270088	1446392	63188	4.4	1446391.680233		ug/L
Tl	205	10	1394	44	3.2	0.000957	<b>0.4350</b>	ug/L
Pb	208	58	2841	141	5.0	0.001918	<b>0.6418</b>	ug/L
Bi	209	101	172	44	25.7	0.000038	<b>0.0619</b>	ug/L
Th	232	30	33	7	21.1	-0.000000	<b>0.0567</b>	ug/L
U	238	6	23	8	33.7	0.000011	<b>-0.0002</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	108.574
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	105.561
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	119.117
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	113.881
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS6**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:40:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 119

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS6.096

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	2	3.8	0.000006	<b>0.0556</b>	ug/L
Be	9	25	33	4	12.7	0.000010	<b>0.1935</b>	ug/L
B	11	322	177289	5245	3.0	0.309260	<b>1743.8832</b>	ug/L
Na	23	3977	78314	3443	4.4	0.129283	<b>58.2741</b>	ug/L
Mg	24	111	457459	13948	3.0	0.799345	<b>449.1798</b>	ug/L
Al	27	1010	6813	198	2.9	0.009988	<b>4.7324</b>	ug/L
K	39	430753	427785	4773	1.1	-0.071084	<b>-14.3202</b>	ug/L
Ca	44	32562	29436	199	0.7	-0.010440	<b>-80.8056</b>	ug/L
Sc	45	525930	572117	15735	2.8	572116.530262		ug/L
Ti	47	944	884	33	3.7	-0.000249	<b>-0.7266</b>	ug/L
Ti	48	-2694	-2289	31	1.3	0.001119	<b>0.3470</b>	ug/L
V	51	197	964	29	3.0	0.001312	<b>0.4220</b>	ug/L
Cr	52	7265	9165	289	3.2	0.002207	<b>0.7039</b>	ug/L
Cr	53	117	539	30	5.6	0.000721	<b>2.1764</b>	ug/L
Mn	55	280	8783	195	2.2	0.014821	<b>3.4963</b>	ug/L
Fe	54	39304	12062815	426521	3.5	21.007620	<b>95274.5274</b>	ug/L
Fe	57	5552	5017569	203117	4.0	8.757737	<b>100931.8413</b>	ug/L
Co	59	38	3297	138	4.2	0.005689	<b>1.6275</b>	ug/L
Ni	60	32	1211	11	0.9	0.002058	<b>2.6650</b>	ug/L
Ni	62	114	333	14	4.1	0.000367	<b>3.3297</b>	ug/L
Cu	65	49	577	30	5.2	0.002377	<b>1.0189</b>	ug/L
Cu	63	51	1140	50	4.4	0.004914	<b>1.0579</b>	ug/L
Zn	66	439	1737	34	2.0	0.005707	<b>4.6141</b>	ug/L
Zn	68	213	1191	32	2.7	0.004346	<b>4.6240</b>	ug/L
Ge	74	202077	220573	5697	2.6	220572.616518		ug/L
As	75	-111	20	36	177.9	0.000642	<b>0.5120</b>	ug/L
As-1	75	9698	9379	260	2.8	-0.005471	<b>-2.2576</b>	ug/L
Se	77	129	161	7	4.6	0.000001	<b>0.0532</b>	ug/L
Se	82	20	46	12	24.9	0.000004	<b>0.7124</b>	ug/L
Sr	88	76	450	68	15.0	0.000072	<b>0.0455</b>	ug/L
Mo	98	130	137	28	20.1	-0.000004	<b>0.0079</b>	ug/L
Ag	107	40	2194	114	5.2	0.000429	<b>0.9183</b>	ug/L
Ag	109	40	1375	64	4.7	0.000265	<b>0.5950</b>	ug/L
Cd	111	11	233	19	8.3	0.000044	<b>0.3702</b>	ug/L
Cd	114	77	133	9	6.9	0.000008	<b>0.0459</b>	ug/L
In	115	4192305	5004511	205684	4.1	5004511.228200		ug/L



Sn	120	978	3946	1201	30.4	0.000550	<b>1.4273</b>	ug/L
Sb	121	126	988	102	10.3	0.000167	<b>0.8509</b>	ug/L
Cs	133	15	23	4	19.0	0.000001	<b>0.0041</b>	ug/L
Ba	138	60	233	19	8.2	0.000032	<b>0.0783</b>	ug/L
Ce	140	18	75	15	19.9	0.000011	<b>0.0093</b>	ug/L
> Tm	169	1270088	1440951	21867	1.5	1440951.063485		ug/L
Tl	205	10	159	6	3.5	0.000103	<b>0.0456</b>	ug/L
Pb	208	58	3092	165	5.3	0.002099	<b>0.7030</b>	ug/L
Bi	209	101	115	32	27.9	-0.000000	<b>0.0465</b>	ug/L
Th	232	30	31	15	47.5	-0.000002	<b>0.0561</b>	ug/L
U	238	6	29	8	29.3	0.000015	<b>0.0010</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.782
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.153
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	119.374
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	113.453
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS7**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:44:06

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 120

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS7.097

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	45	7	16.3	0.000004	<b>0.0516</b>	ug/L
Be	9	25	35	11	31.4	0.000014	<b>0.2261</b>	ug/L
B	11	322	203341	1731	0.9	0.351514	<b>1982.1143</b>	ug/L
Na	23	3977	78484	1011	1.3	0.128345	<b>57.9119</b>	ug/L
Mg	24	111	421781	4074	1.0	0.730197	<b>410.4648</b>	ug/L
Al	27	1010	8449	46	0.5	0.012711	<b>5.8390</b>	ug/L
K	39	430753	430823	843	0.2	-0.072934	<b>-14.8302</b>	ug/L
Ca	44	32562	29527	30	0.1	-0.010779	<b>-84.0003</b>	ug/L
Sc	45	525930	577488	6935	1.2	577488.400509		ug/L
Ti	47	944	863	34	3.9	-0.000301	<b>-0.9260</b>	ug/L
Ti	48	-2694	-2223	51	2.3	0.001273	<b>0.4015</b>	ug/L
V	51	197	1710	26	1.5	0.002587	<b>0.8017</b>	ug/L
Cr	52	7265	10210	177	1.7	0.003866	<b>1.2818</b>	ug/L
Cr	53	117	590	23	3.9	0.000800	<b>2.4196</b>	ug/L
Mn	55	280	6341	41	0.6	0.010450	<b>2.4663</b>	ug/L
Fe	54	39304	12281051	159784	1.3	21.191519	<b>96108.4993</b>	ug/L
Fe	57	5552	5117149	78307	1.5	8.850351	<b>101999.1944</b>	ug/L
Co	59	38	3851	72	1.9	0.006597	<b>1.8896</b>	ug/L
Ni	60	32	1458	75	5.1	0.002463	<b>3.1902</b>	ug/L
Ni	62	114	398	19	4.8	0.000472	<b>4.1998</b>	ug/L
Cu	65	49	655	11	1.6	0.002711	<b>1.1589</b>	ug/L
Cu	63	51	1276	29	2.3	0.005500	<b>1.1829</b>	ug/L
Zn	66	439	2209	42	1.9	0.007783	<b>6.1680</b>	ug/L
Zn	68	213	1526	20	1.3	0.005825	<b>6.0790</b>	ug/L
Ge	74	202077	221918	3039	1.4	221917.607016		ug/L
As	75	-111	137	75	54.8	0.001168	<b>0.7972</b>	ug/L
As-1	75	9698	9462	111	1.2	-0.005347	<b>-2.1848</b>	ug/L
Se	77	129	184	15	8.2	0.000006	<b>0.6852</b>	ug/L
Se	82	20	90	6	6.7	0.000013	<b>1.6861</b>	ug/L
Sr	88	76	446	17	3.9	0.000070	<b>0.0437</b>	ug/L
Mo	98	130	129	33	25.3	-0.000006	<b>-0.0001</b>	ug/L
Ag	107	40	2507	4	0.2	0.000485	<b>1.0377</b>	ug/L
Ag	109	40	1680	33	1.9	0.000322	<b>0.7190</b>	ug/L
Cd	111	11	259	3	1.2	0.000049	<b>0.4133</b>	ug/L
Cd	114	77	198	15	7.4	0.000021	<b>0.0949</b>	ug/L
In	115	4192305	5066045	24803	0.5	5066045.018545		ug/L

Sn	120	978	3693	835	22.6	0.000495	<b>1.3021</b>	ug/L
Sb	121	126	924	25	2.7	0.000152	<b>0.7814</b>	ug/L
Cs	133	15	19	4	21.1	0.000000	<b>0.0034</b>	ug/L
Ba	138	60	243	33	13.8	0.000034	<b>0.0797</b>	ug/L
Ce	140	18	87	8	8.7	0.000013	<b>0.0114</b>	ug/L
> Tm	169	1270088	1455790	1765	0.1	1455790.172317		ug/L
Tl	205	10	275	19	6.7	0.000182	<b>0.0815</b>	ug/L
Pb	208	58	702	7	1.0	0.000437	<b>0.1406</b>	ug/L
Bi	209	101	103	18	17.0	-0.000009	<b>0.0431</b>	ug/L
Th	232	30	31	7	22.4	-0.000002	<b>0.0562</b>	ug/L
U	238	6	29	6	19.2	0.000015	<b>0.0010</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.803
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.818
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	120.842
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	114.621
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS8**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:47:52

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 121

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS8.098

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	39	14	36.5	-0.000007	<b>0.0292</b>	ug/L
Be	9	25	33	9	26.0	0.000009	<b>0.1830</b>	ug/L
B	11	322	216533	6746	3.1	0.370204	<b>2087.4922</b>	ug/L
Na	23	3977	48826	599	1.2	0.076071	<b>37.7260</b>	ug/L
Mg	24	111	375570	4598	1.2	0.643105	<b>361.7032</b>	ug/L
Al	27	1010	6807	153	2.2	0.009744	<b>4.6331</b>	ug/L
K	39	430753	430791	2519	0.6	-0.081077	<b>-17.0758</b>	ug/L
Ca	44	32562	29262	261	0.9	-0.011782	<b>-93.4775</b>	ug/L
Sc	45	525930	583874	11522	2.0	583873.674792		ug/L
Ti	47	944	893	15	1.7	-0.000267	<b>-0.7937</b>	ug/L
Ti	48	-2694	-2185	135	6.2	0.001378	<b>0.4389</b>	ug/L
V	51	197	2494	40	1.6	0.003899	<b>1.1922</b>	ug/L
Cr	52	7265	10910	223	2.0	0.004873	<b>1.6328</b>	ug/L
Cr	53	117	694	66	9.5	0.000967	<b>2.9300</b>	ug/L
Mn	55	280	6500	128	2.0	0.010601	<b>2.5019</b>	ug/L
Fe	54	39304	12381592	244445	2.0	21.131657	<b>95837.0272</b>	ug/L
Fe	57	5552	5090153	90494	1.8	8.707567	<b>100353.6439</b>	ug/L
Co	59	38	4391	162	3.7	0.007447	<b>2.1348</b>	ug/L
Ni	60	32	1772	45	2.6	0.002975	<b>3.8543</b>	ug/L
Ni	62	114	446	53	11.9	0.000547	<b>4.8136</b>	ug/L
Cu	65	49	973	34	3.5	0.004128	<b>1.7533</b>	ug/L
Cu	63	51	1844	86	4.7	0.008027	<b>1.7226</b>	ug/L
Zn	66	439	2995	50	1.7	0.011282	<b>8.7854</b>	ug/L
Zn	68	213	2126	106	5.0	0.008488	<b>8.7000</b>	ug/L
Ge	74	202077	222705	5318	2.4	222705.192713		ug/L
As	75	-111	293	40	13.5	0.001868	<b>1.1762</b>	ug/L
As-1	75	9698	9690	250	2.6	-0.004479	<b>-1.6739</b>	ug/L
Se	77	129	205	13	6.5	0.000009	<b>1.2815</b>	ug/L
Se	82	20	108	16	14.5	0.000016	<b>2.0565</b>	ug/L
Sr	88	76	389	24	6.1	0.000058	<b>0.0331</b>	ug/L
Mo	98	130	125	24	19.4	-0.000007	<b>-0.0049</b>	ug/L
Ag	107	40	2836	16	0.6	0.000546	<b>1.1656</b>	ug/L
Ag	109	40	2030	14	0.7	0.000388	<b>0.8627</b>	ug/L
Cd	111	11	302	16	5.2	0.000057	<b>0.4852</b>	ug/L
Cd	114	77	244	22	8.9	0.000029	<b>0.1287</b>	ug/L
In	115	4192305	5108447	125798	2.5	5108447.386599		ug/L

Sn	120	978	3918	754	19.2	0.000532	<b>1.3863</b>	ug/L
Sb	121	126	997	61	6.1	0.000165	<b>0.8422</b>	ug/L
Cs	133	15	14	2	10.7	-0.000001	<b>0.0026</b>	ug/L
Ba	138	60	308	17	5.6	0.000046	<b>0.0926</b>	ug/L
Ce	140	18	92	10	11.0	0.000014	<b>0.0121</b>	ug/L
> Tm	169	1270088	1458222	7946	0.5	1458221.651589		ug/L
Tl	205	10	412	8	1.9	0.000275	<b>0.1241</b>	ug/L
Pb	208	58	1123	20	1.8	0.000724	<b>0.2379</b>	ug/L
Bi	209	101	211	6	2.8	0.000065	<b>0.0723</b>	ug/L
Th	232	30	23	8	34.5	-0.000008	<b>0.0540</b>	ug/L
U	238	6	23	6	24.4	0.000011	<b>-0.0001</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.017
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.208
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	121.853
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	114.813
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-BS9**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 17:51:38

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 122

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-BS9.099

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	5	10.2	0.000004	<b>0.0521</b>	ug/L
Be	9	25	48	5	11.0	0.000035	<b>0.4230</b>	ug/L
B	11	322	212220	533	0.3	0.360264	<b>2031.4491</b>	ug/L
Na	23	3977	44582	1169	2.6	0.068255	<b>34.7078</b>	ug/L
Mg	24	111	354922	5799	1.6	0.603350	<b>339.4452</b>	ug/L
Al	27	1010	12216	205	1.7	0.018851	<b>8.3351</b>	ug/L
K	39	430753	430157	1333	0.3	-0.087573	<b>-18.8668</b>	ug/L
Ca	44	32562	29115	216	0.7	-0.012403	<b>-99.3368</b>	ug/L
Sc	45	525930	588113	5928	1.0	588113.373995		ug/L
Ti	47	944	862	26	3.0	-0.000329	<b>-1.0356</b>	ug/L
Ti	48	-2694	-2275	6	0.3	0.001253	<b>0.3946</b>	ug/L
V	51	197	3972	29	0.7	0.006381	<b>1.9309</b>	ug/L
Cr	52	7265	12197	159	1.3	0.006928	<b>2.3491</b>	ug/L
Cr	53	117	854	24	2.8	0.001231	<b>3.7407</b>	ug/L
Mn	55	280	6552	109	1.7	0.010609	<b>2.5038</b>	ug/L
Fe	54	39304	12456288	119242	1.0	21.108016	<b>95729.8159</b>	ug/L
Fe	57	5552	5154455	105555	2.0	8.755101	<b>100901.4638</b>	ug/L
Co	59	38	5722	93	1.6	0.009658	<b>2.7730</b>	ug/L
Ni	60	32	2347	31	1.3	0.003931	<b>5.0928</b>	ug/L
Ni	62	114	507	19	3.8	0.000646	<b>5.6329</b>	ug/L
Cu	65	49	1569	38	2.4	0.006814	<b>2.8793</b>	ug/L
Cu	63	51	3043	44	1.5	0.013426	<b>2.8754</b>	ug/L
Zn	66	439	4876	41	0.8	0.019750	<b>15.1210</b>	ug/L
Zn	68	213	3436	5	0.1	0.014396	<b>14.5143</b>	ug/L
Ge	74	202077	222437	942	0.4	222437.454172		ug/L
As	75	-111	521	40	7.7	0.002893	<b>1.7318</b>	ug/L
As-1	75	9698	9983	145	1.5	-0.003110	<b>-0.8680</b>	ug/L
Se	77	129	246	17	6.8	0.000017	<b>2.4121</b>	ug/L
Se	82	20	156	11	7.1	0.000025	<b>3.0973</b>	ug/L
Sr	88	76	400	18	4.5	0.000059	<b>0.0342</b>	ug/L
Mo	98	130	116	41	35.2	-0.000009	<b>-0.0135</b>	ug/L
Ag	107	40	3395	68	2.0	0.000648	<b>1.3802</b>	ug/L
Ag	109	40	2555	41	1.6	0.000485	<b>1.0741</b>	ug/L
Cd	111	11	359	35	9.7	0.000067	<b>0.5791</b>	ug/L
Cd	114	77	376	36	9.7	0.000054	<b>0.2272</b>	ug/L
In	115	4192305	5166166	37693	0.7	5166166.402580		ug/L

Sn	120	978	3878	899	23.2	0.000518	<b>1.3541</b>	ug/L
Sb	121	126	1238	33	2.7	0.000210	<b>1.0522</b>	ug/L
Cs	133	15	22	3	11.6	0.000001	<b>0.0037</b>	ug/L
Ba	138	60	223	8	3.6	0.000029	<b>0.0747</b>	ug/L
Ce	140	18	89	10	11.1	0.000013	<b>0.0114</b>	ug/L
> Tm	169	1270088	1452916	3041	0.2	1452916.427221		ug/L
Tl	205	10	586	22	3.8	0.000396	<b>0.1790</b>	ug/L
Pb	208	58	1990	21	1.0	0.001324	<b>0.4408</b>	ug/L
Bi	209	101	182	14	7.8	0.000046	<b>0.0648</b>	ug/L
Th	232	30	22	8	34.9	-0.000008	<b>0.0537</b>	ug/L
U	238	6	30	15	50.4	0.000016	<b>0.0013</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.823
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.076
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	123.230
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	114.395
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCV3

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 17:55:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV3.100

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3341	72	2.2	0.005563	<b>2.3234</b>	ug/L
Be	9	25	335	12	3.7	0.000518	<b>0.9874</b>	ug/L
B	11	322	27848	470	1.7	0.046382	<b>52.3530</b>	ug/L
Na	23	3977	3691474	34170	0.9	6.222249	<b>482.2253</b>	ug/L
Mg	24	111	976282	11856	1.2	1.647350	<b>184.7928</b>	ug/L
Al	27	1010	346858	8766	2.5	0.583387	<b>47.5652</b>	ug/L
K	39	430753	1452537	17680	1.2	1.632296	<b>91.0744</b>	ug/L
Ca	44	32562	323188	2338	0.7	0.483522	<b>916.6700</b>	ug/L
Sc	45	525930	592570	7636	1.3	592570.041286		ug/L
Ti	47	944	4667	49	1.0	0.006082	<b>4.7671</b>	ug/L
Ti	48	-2694	39513	624	1.6	0.071813	<b>5.0778</b>	ug/L
V	51	197	49315	966	2.0	0.082852	<b>4.9390</b>	ug/L
Cr	52	7265	112362	3164	2.8	0.175780	<b>12.2386</b>	ug/L
Cr	53	117	12116	133	1.1	0.020226	<b>12.4045</b>	ug/L
Mn	55	280	31868	614	1.9	0.053245	<b>2.5099</b>	ug/L
Fe	54	39304	202393	4347	2.1	0.266802	<b>243.2600</b>	ug/L
Fe	57	5552	72183	2589	3.6	0.111235	<b>256.5868</b>	ug/L
Co	59	38	25768	256	1.0	0.043416	<b>2.5030</b>	ug/L
Ni	60	32	11307	206	1.8	0.019021	<b>4.9298</b>	ug/L
Ni	62	114	1927	44	2.3	0.003036	<b>5.0692</b>	ug/L
Cu	65	49	13775	325	2.4	0.059936	<b>5.0311</b>	ug/L
Cu	63	51	26943	609	2.3	0.117444	<b>5.0173</b>	ug/L
Zn	66	439	8202	398	4.9	0.033644	<b>5.1033</b>	ug/L
Zn	68	213	6061	245	4.0	0.025416	<b>5.0717</b>	ug/L
Ge	74	202077	228920	4405	1.9	228920.089788		ug/L
As	75	-111	10646	214	2.0	0.047061	<b>5.1340</b>	ug/L
As-1	75	9698	19906	228	1.1	0.038976	<b>4.7802</b>	ug/L
Se	77	129	1795	29	1.6	0.000331	<b>10.0536</b>	ug/L
Se	82	20	2286	60	2.6	0.000457	<b>10.4124</b>	ug/L
Sr	88	76	135919	1656	1.2	0.027401	<b>4.8877</b>	ug/L
Mo	98	130	2992	48	1.6	0.000572	<b>0.4981</b>	ug/L
Ag	107	40	12006	167	1.4	0.002412	<b>1.0207</b>	ug/L
Ag	109	40	11683	134	1.2	0.002347	<b>1.0262</b>	ug/L
Cd	111	11	1393	50	3.6	0.000278	<b>0.5011</b>	ug/L
Cd	114	77	3233	149	4.6	0.000633	<b>0.4986</b>	ug/L
In	115	4192305	4957973	100710	2.0	4957973.447421		ug/L

Sn	120	978	27495	687	2.5	0.005312	<b>2.4807</b>	ug/L
Sb	121	126	4036	355	8.8	0.000785	<b>0.7532</b>	ug/L
Cs	133	15	72453	750	1.0	0.014612	<b>2.4076</b>	ug/L
Ba	138	60	53131	302	0.6	0.010704	<b>2.2267</b>	ug/L
Ce	140	18	12399	131	1.1	0.002497	<b>0.4688</b>	ug/L
> Tm	169	1270088	1409523	3487	0.2	1409523.246498		ug/L
Tl	205	10	3837	53	1.4	0.002715	<b>0.2472</b>	ug/L
Pb	208	58	52254	452	0.9	0.037026	<b>2.5035</b>	ug/L
Bi	209	101	42388	82	0.2	0.029993	<b>2.3891</b>	ug/L
Th	232	30	9839	97	1.0	0.006957	<b>0.5394</b>	ug/L
U	238	6	11740	48	0.4	0.008325	<b>0.4863</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.671
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.284
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.264
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	110.978
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 17:59:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB3.101

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	43	11	25.2	0.000000	<b>0.0090</b>	ug/L
Be	9	25	31	3	9.8	0.000008	<b>0.0348</b>	ug/L
B	11	322	1727	126	7.3	0.002417	<b>2.7773</b>	ug/L
Na	23	3977	5746	602	10.5	0.002520	<b>1.8647</b>	ug/L
Mg	24	111	293	182	62.1	0.000305	<b>0.3620</b>	ug/L
Al	27	1010	1040	28	2.6	-0.000097	<b>0.1265</b>	ug/L
K	39	430753	446626	1711	0.4	-0.036442	<b>-0.9536</b>	ug/L
Ca	44	32562	29254	46	0.2	-0.010651	<b>-16.5594</b>	ug/L
Sc	45	525930	570799	10088	1.8	570798.563585		ug/L
Ti	47	944	916	37	4.1	-0.000189	<b>-0.0986</b>	ug/L
Ti	48	-2694	-2441	4	0.2	0.000845	<b>0.0500</b>	ug/L
V	51	197	181	4	2.3	-0.000056	<b>0.0029</b>	ug/L
Cr	52	7265	8084	180	2.2	0.000349	<b>0.0113</b>	ug/L
Cr	53	117	116	11	9.3	-0.000018	<b>-0.0185</b>	ug/L
Mn	55	280	279	7	2.6	-0.000044	<b>-0.0012</b>	ug/L
Fe	54	39304	41762	1175	2.8	-0.001574	<b>-0.1528</b>	ug/L
Fe	57	5552	6351	129	2.0	0.000570	<b>1.5083</b>	ug/L
Co	59	38	45	2	4.4	0.000007	<b>-0.0025</b>	ug/L
Ni	60	32	36	5	12.9	0.000004	<b>0.0006</b>	ug/L
Ni	62	114	168	5	2.8	0.000078	<b>0.1885</b>	ug/L
Cu	65	49	55	9	16.7	0.000009	<b>0.0052</b>	ug/L
Cu	63	51	74	7	9.5	0.000084	<b>0.0053</b>	ug/L
Zn	66	439	413	17	4.1	-0.000295	<b>0.0248</b>	ug/L
Zn	68	213	206	28	13.5	-0.000116	<b>0.0466</b>	ug/L
Ge	74	202077	220136	4203	1.9	220136.375424		ug/L
As	75	-111	-148	57	38.4	-0.000123	<b>0.0195</b>	ug/L
As-1	75	9698	9727	117	1.2	-0.003801	<b>-0.2549</b>	ug/L
Se	77	129	152	19	12.2	0.000001	<b>-0.0095</b>	ug/L
Se	82	20	20	6	27.6	-0.000001	<b>0.0277</b>	ug/L
Sr	88	76	82	7	8.3	-0.000001	<b>-0.0039</b>	ug/L
Mo	98	130	150	36	23.9	-0.000000	<b>0.0047</b>	ug/L
Ag	107	40	43	11	25.3	-0.000000	<b>0.0025</b>	ug/L
Ag	109	40	43	4	9.8	-0.000001	<b>0.0031</b>	ug/L
Cd	111	11	18	7	37.1	0.000001	<b>-0.0036</b>	ug/L
Cd	114	77	65	7	11.3	-0.000005	<b>-0.0010</b>	ug/L
In	115	4192305	4823482	88973	1.8	4823482.097384		ug/L

Sn	120	978	739	742	100.4	-0.000081	<b>-0.0053</b>	ug/L
Sb	121	126	589	54	9.2	0.000092	<b>0.0995</b>	ug/L
Cs	133	15	64	63	97.9	0.000010	<b>0.0023</b>	ug/L
Ba	138	60	102	43	42.6	0.000007	<b>0.0104</b>	ug/L
Ce	140	18	23	9	39.8	0.000001	<b>-0.0001</b>	ug/L
> Tm	169	1270088	1362185	6674	0.5	1362185.051129		ug/L
Tl	205	10	8	3	33.1	-0.000002	<b>-0.0004</b>	ug/L
Pb	208	58	82	20	24.9	0.000014	<b>-0.0004</b>	ug/L
Bi	209	101	416	45	10.7	0.000226	<b>0.0272</b>	ug/L
Th	232	30	134	12	8.7	0.000075	<b>0.0171</b>	ug/L
U	238	6	20	9	46.1	0.000010	<b>-0.0001</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.531
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.937
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	115.056
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.251
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1231002-04**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:03:03

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 123

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1231002-04.102

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	597	37	6.2	0.001029	<b>2.1852</b>	ug/L
Be	9	25	36	4	12.1	0.000020	<b>0.2841</b>	ug/L
B	11	322	144258	6543	4.5	0.266076	<b>1500.4135</b>	ug/L
Na	23	3977	1805178	48508	2.7	3.330863	<b>1294.5924</b>	ug/L
Mg	24	111	46464136	1625759	3.5	85.915379	<b>48104.2932</b>	ug/L
Al	27	1010	25230	764	3.0	0.044737	<b>18.8582</b>	ug/L
K	39	430753	594924	9339	1.6	0.281440	<b>82.8852</b>	ug/L
Ca	44	32562	74612	1247	1.7	0.076099	<b>736.3232</b>	ug/L
Sc	45	525930	540755	15927	2.9	540754.874880		ug/L
Ti	47	944	1302	55	4.2	0.000611	<b>2.6112</b>	ug/L
Ti	48	-2694	-670	124	18.5	0.003880	<b>1.3250</b>	ug/L
V	51	197	18080	520	2.9	0.033063	<b>9.8737</b>	ug/L
Cr	52	7265	8853	399	4.5	0.002553	<b>0.8243</b>	ug/L
Cr	53	117	480	28	5.8	0.000666	<b>2.0072</b>	ug/L
Mn	55	280	205515	8732	4.2	0.379435	<b>89.4075</b>	ug/L
Fe	54	39304	12159594	409172	3.4	22.409781	<b>101633.2340</b>	ug/L
Fe	57	5552	5023535	203476	4.1	9.277369	<b>106920.4803</b>	ug/L
Co	59	38	2944	88	3.0	0.005372	<b>1.5362</b>	ug/L
Ni	60	32	1525	72	4.7	0.002760	<b>3.5750</b>	ug/L
Ni	62	114	377	32	8.5	0.000481	<b>4.2718</b>	ug/L
Cu	65	49	1114	83	7.5	0.005293	<b>2.2418</b>	ug/L
Cu	63	51	2025	71	3.5	0.009824	<b>2.1063</b>	ug/L
Zn	66	439	1887	99	5.2	0.007207	<b>5.7370</b>	ug/L
Zn	68	213	1344	88	6.5	0.005626	<b>5.8840</b>	ug/L
Ge	74	202077	201125	6692	3.3	201125.409548		ug/L
As	75	-111	52554	1791	3.4	0.261850	<b>142.0811</b>	ug/L
As-1	75	9698	61651	1806	2.9	0.258570	<b>153.1406</b>	ug/L
Se	77	129	158	13	8.2	0.000003	<b>0.3258</b>	ug/L
Se	82	20	74	22	29.5	0.000011	<b>1.4455</b>	ug/L
Sr	88	76	71339	2376	3.3	0.015264	<b>13.6049</b>	ug/L
Mo	98	130	8214	347	4.2	0.001729	<b>7.4740</b>	ug/L
Ag	107	40	1526	84	5.5	0.000318	<b>0.6838</b>	ug/L
Ag	109	40	869	33	3.8	0.000177	<b>0.4025</b>	ug/L
Cd	111	11	211	17	8.0	0.000043	<b>0.3577</b>	ug/L
Cd	114	77	104	14	13.8	0.000004	<b>0.0290</b>	ug/L
In	115	4192305	4669132	180221	3.9	4669131.722619		ug/L

Sn	120	978	3663	801	21.9	0.000550	<b>1.4291</b>	ug/L
Sb	121	126	30106	392	1.3	0.006422	<b>30.3581</b>	ug/L
Cs	133	15	43	7	15.2	0.000005	<b>0.0078</b>	ug/L
Ba	138	60	60463	1795	3.0	0.012939	<b>13.4482</b>	ug/L
Ce	140	18	220	11	5.2	0.000043	<b>0.0395</b>	ug/L
Tm	169	1270088	1378973	29281	2.1	1378972.688893		ug/L
Tl	205	10	36	2	4.2	0.000019	<b>0.0073</b>	ug/L
Pb	208	58	3878	47	1.2	0.002767	<b>0.9289</b>	ug/L
Bi	209	101	210	31	14.7	0.000073	<b>0.0756</b>	ug/L
Th	232	30	96	16	16.1	0.000047	<b>0.0746</b>	ug/L
U	238	6	75401	2338	3.1	0.054667	<b>15.9873</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	102.819
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	99.529
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	111.374
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.573
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1231002-05**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:06:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 124

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1231002-05.103

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	597	19	3.2	0.001038	<b>2.2030</b>	ug/L
Be	9	25	31	4	13.6	0.000010	<b>0.1948</b>	ug/L
B	11	322	156611	4598	2.9	0.290853	<b>1640.1024</b>	ug/L
Na	23	3977	2390347	71659	3.0	4.441030	<b>1723.2931</b>	ug/L
Mg	24	111	43116495	742800	1.7	80.258109	<b>44936.8782</b>	ug/L
Al	27	1010	35793	1039	2.9	0.064702	<b>26.9739</b>	ug/L
K	39	430753	626264	7798	1.2	0.346787	<b>100.9042</b>	ug/L
Ca	44	32562	66763	1910	2.9	0.062340	<b>606.4055</b>	ug/L
Sc	45	525930	537267	11872	2.2	537266.794967		ug/L
Ti	47	944	1433	12	0.8	0.000873	<b>3.6280</b>	ug/L
Ti	48	-2694	148	161	109.0	0.005399	<b>1.8630</b>	ug/L
V	51	197	17413	617	3.5	0.032029	<b>9.5660</b>	ug/L
Cr	52	7265	8744	450	5.1	0.002454	<b>0.7900</b>	ug/L
Cr	53	117	508	25	4.9	0.000724	<b>2.1859</b>	ug/L
Mn	55	280	169313	6583	3.9	0.314537	<b>74.1160</b>	ug/L
Fe	54	39304	11450971	486121	4.2	21.234042	<b>96301.3381</b>	ug/L
Fe	57	5552	4747849	192531	4.1	8.824593	<b>101702.3462</b>	ug/L
Co	59	38	3018	56	1.9	0.005544	<b>1.5858</b>	ug/L
Ni	60	32	1628	64	4.0	0.002969	<b>3.8463</b>	ug/L
Ni	62	114	407	15	3.6	0.000541	<b>4.7624</b>	ug/L
Cu	65	49	1291	14	1.1	0.006212	<b>2.6269</b>	ug/L
Cu	63	51	2490	82	3.3	0.012187	<b>2.6108</b>	ug/L
Zn	66	439	3061	152	5.0	0.013117	<b>10.1585</b>	ug/L
Zn	68	213	2303	54	2.3	0.010454	<b>10.6348</b>	ug/L
Ge	74	202077	200167	5862	2.9	200166.896445		ug/L
As	75	-111	54377	1865	3.4	0.272191	<b>147.6858</b>	ug/L
As-1	75	9698	63383	2133	3.4	0.268645	<b>159.0702</b>	ug/L
Se	77	129	152	6	3.6	0.000002	<b>0.0890</b>	ug/L
Se	82	20	68	7	9.8	0.000010	<b>1.3038</b>	ug/L
Sr	88	76	60048	2553	4.3	0.012723	<b>11.3369</b>	ug/L
Mo	98	130	7829	159	2.0	0.001631	<b>7.0537</b>	ug/L
Ag	107	40	1664	56	3.3	0.000344	<b>0.7391</b>	ug/L
Ag	109	40	935	9	1.0	0.000189	<b>0.4291</b>	ug/L
Cd	111	11	220	9	4.1	0.000044	<b>0.3717</b>	ug/L
Cd	114	77	129	14	11.1	0.000009	<b>0.0492</b>	ug/L
In	115	4192305	4712862	187550	4.0	4712861.862354		ug/L

Sn	120	978	3741	886	23.7	0.000559	<b>1.4497</b>	ug/L
Sb	121	126	32092	807	2.5	0.006782	<b>32.0552</b>	ug/L
Cs	133	15	102	6	6.0	0.000018	<b>0.0181</b>	ug/L
Ba	138	60	50621	1269	2.5	0.010731	<b>11.1614</b>	ug/L
Ce	140	18	606	62	10.3	0.000124	<b>0.1157</b>	ug/L
Tm	169	1270088	1373214	30626	2.2	1373213.536998		ug/L
Tl	205	10	37	9	25.2	0.000019	<b>0.0074</b>	ug/L
Pb	208	58	6853	147	2.1	0.004945	<b>1.6657</b>	ug/L
Bi	209	101	169	12	6.8	0.000043	<b>0.0638</b>	ug/L
Th	232	30	115	9	7.6	0.000060	<b>0.0798</b>	ug/L
U	238	6	60960	1778	2.9	0.044383	<b>12.9791</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	102.156
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	99.055
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	112.417
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.120
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-DUP1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:10:35

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 125

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-DUP1.104

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	296	9	3.0	0.000425	<b>0.9290</b>	ug/L
Be	9	25	27	4	15.2	-0.000002	<b>0.0823</b>	ug/L
B	11	322	173837	1309	0.8	0.293474	<b>1654.8824</b>	ug/L
Na	23	3977	1666727	28261	1.7	2.811920	<b>1094.1981</b>	ug/L
Mg	24	111	46506485	565585	1.2	78.676210	<b>44051.1980</b>	ug/L
Al	27	1010	11454	302	2.6	0.017455	<b>7.7675</b>	ug/L
K	39	430753	603988	3177	0.5	0.202746	<b>61.1861</b>	ug/L
Ca	44	32562	70510	523	0.7	0.057365	<b>559.4349</b>	ug/L
Sc	45	525930	591142	4702	0.8	591141.518515		ug/L
Ti	47	944	1323	27	2.0	0.000442	<b>1.9563</b>	ug/L
Ti	48	-2694	-641	55	8.5	0.004037	<b>1.3808</b>	ug/L
V	51	197	22639	414	1.8	0.037923	<b>11.3203</b>	ug/L
Cr	52	7265	9445	191	2.0	0.002165	<b>0.6894</b>	ug/L
Cr	53	117	474	16	3.3	0.000580	<b>1.7438</b>	ug/L
Mn	55	280	127902	3097	2.4	0.215819	<b>50.8558</b>	ug/L
Fe	54	39304	12408678	209174	1.7	20.917461	<b>94865.6612</b>	ug/L
Fe	57	5552	5198480	96580	1.9	8.783051	<b>101223.5791</b>	ug/L
Co	59	38	3500	87	2.5	0.005849	<b>1.6737</b>	ug/L
Ni	60	32	2075	48	2.3	0.003450	<b>4.4689</b>	ug/L
Ni	62	114	482	15	3.1	0.000599	<b>5.2413</b>	ug/L
Cu	65	49	1341	31	2.3	0.005667	<b>2.3986</b>	ug/L
Cu	63	51	2479	19	0.7	0.010670	<b>2.2868</b>	ug/L
Zn	66	439	2030	55	2.7	0.006774	<b>5.4126</b>	ug/L
Zn	68	213	1508	60	4.0	0.005590	<b>5.8479</b>	ug/L
Ge	74	202077	227000	3330	1.5	227000.211359		ug/L
As	75	-111	65987	640	1.0	0.291257	<b>158.0188</b>	ug/L
As-1	75	9698	75451	583	0.8	0.284417	<b>168.3525</b>	ug/L
Se	77	129	159	9	5.7	0.000000	<b>-0.1248</b>	ug/L
Se	82	20	94	4	4.1	0.000013	<b>1.7409</b>	ug/L
Sr	88	76	67781	1296	1.9	0.013194	<b>11.7580</b>	ug/L
Mo	98	130	9728	148	1.5	0.001865	<b>8.0633</b>	ug/L
Ag	107	40	1882	70	3.7	0.000357	<b>0.7675</b>	ug/L
Ag	109	40	1059	30	2.8	0.000197	<b>0.4463</b>	ug/L
Cd	111	11	241	12	4.8	0.000044	<b>0.3748</b>	ug/L
Cd	114	77	123	4	3.6	0.000006	<b>0.0357</b>	ug/L
In	115	4192305	5129889	40163	0.8	5129889.049398		ug/L



Sn	120	978	3754	1149	30.6	0.000498	<b>1.3077</b>	ug/L
Sb	121	126	38720	191	0.5	0.007518	<b>35.5284</b>	ug/L
Cs	133	15	43	8	18.5	0.000005	<b>0.0072</b>	ug/L
Ba	138	60	51676	123	0.2	0.010060	<b>10.4660</b>	ug/L
Ce	140	18	239	7	2.7	0.000042	<b>0.0390</b>	ug/L
> Tm	169	1270088	1439866	2714	0.2	1439866.251988		ug/L
Tl	205	10	41	1	2.4	0.000021	<b>0.0083</b>	ug/L
Pb	208	58	2840	38	1.3	0.001926	<b>0.6446</b>	ug/L
Bi	209	101	129	24	18.3	0.000010	<b>0.0505</b>	ug/L
Th	232	30	51	13	25.4	0.000012	<b>0.0616</b>	ug/L
U	238	6	54727	319	0.6	0.038004	<b>11.1131</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	112.399
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.334
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.364
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	113.367
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MS1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:14:21

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 126

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MS1.105

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	324	11	3.5	0.000476	<b>1.0346</b>	ug/L
Be	9	25	29	2	6.9	0.000002	<b>0.1209</b>	ug/L
B	11	322	174972	2773	1.6	0.296659	<b>1672.8406</b>	ug/L
Na	23	3977	2910432	34150	1.2	4.937219	<b>1914.9011</b>	ug/L
Mg	24	111	54631649	544876	1.0	92.817802	<b>51968.8501</b>	ug/L
Al	27	1010	10336	348	3.4	0.015640	<b>7.0296</b>	ug/L
K	39	430753	704205	2181	0.3	0.377408	<b>109.3476</b>	ug/L
Ca	44	32562	61691	248	0.4	0.042899	<b>422.8432</b>	ug/L
Sc	45	525930	588584	966	0.2	588583.582789		ug/L
Ti	47	944	1271	13	1.1	0.000363	<b>1.6499</b>	ug/L
Ti	48	-2694	-632	134	21.2	0.004048	<b>1.3846</b>	ug/L
V	51	197	23840	413	1.7	0.040130	<b>11.9773</b>	ug/L
Cr	52	7265	9453	7	0.1	0.002247	<b>0.7179</b>	ug/L
Cr	53	117	474	8	1.7	0.000584	<b>1.7569</b>	ug/L
Mn	55	280	124121	718	0.6	0.210348	<b>49.5668</b>	ug/L
Fe	54	39304	12330042	77008	0.6	20.873838	<b>94667.8381</b>	ug/L
Fe	57	5552	5197031	76995	1.5	8.819072	<b>101638.7095</b>	ug/L
Co	59	38	3578	58	1.6	0.006006	<b>1.7191</b>	ug/L
Ni	60	32	2213	73	3.3	0.003700	<b>4.7929</b>	ug/L
Ni	62	114	483	23	4.7	0.000604	<b>5.2839</b>	ug/L
Cu	65	49	7293	54	0.7	0.032209	<b>13.5282</b>	ug/L
Cu	63	51	14271	271	1.9	0.063249	<b>13.5142</b>	ug/L
Zn	66	439	1616	48	2.9	0.005019	<b>4.0994</b>	ug/L
Zn	68	213	1126	30	2.7	0.003959	<b>4.2426</b>	ug/L
Ge	74	202077	224739	889	0.4	224739.030061		ug/L
As	75	-111	114011	767	0.7	0.507869	<b>275.4181</b>	ug/L
As-1	75	9698	123333	873	0.7	0.500810	<b>295.7082</b>	ug/L
Se	77	129	390	11	2.7	0.000047	<b>6.9371</b>	ug/L
Se	82	20	416	38	9.2	0.000078	<b>9.0438</b>	ug/L
Sr	88	76	47716	728	1.5	0.009446	<b>8.4121</b>	ug/L
Mo	98	130	12955	57	0.4	0.002539	<b>10.9662</b>	ug/L
Ag	107	40	1830	59	3.2	0.000353	<b>0.7594</b>	ug/L
Ag	109	40	1024	39	3.8	0.000194	<b>0.4388</b>	ug/L
Cd	111	11	458	17	3.6	0.000088	<b>0.7735</b>	ug/L
Cd	114	77	646	18	2.7	0.000110	<b>0.4435</b>	ug/L
In	115	4192305	5042388	105489	2.1	5042387.662447		ug/L

Sn	120	978	4080	656	16.1	0.000576	<b>1.4890</b>	ug/L
Sb	121	126	38664	477	1.2	0.007640	<b>36.1026</b>	ug/L
Cs	133	15	46	2	3.3	0.000005	<b>0.0077</b>	ug/L
Ba	138	60	31631	538	1.7	0.006259	<b>6.5290</b>	ug/L
Ce	140	18	240	18	7.3	0.000043	<b>0.0399</b>	ug/L
Tm	169	1270088	1410683	12591	0.9	1410683.158156		ug/L
Tl	205	10	1323	25	1.9	0.000930	<b>0.4227</b>	ug/L
Pb	208	58	35432	300	0.8	0.025074	<b>8.4746</b>	ug/L
Bi	209	101	119	10	8.5	0.000004	<b>0.0483</b>	ug/L
Th	232	30	51	9	17.7	0.000013	<b>0.0617</b>	ug/L
U	238	6	62640	256	0.4	0.044401	<b>12.9845</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	111.913
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	111.215
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	120.277
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	111.070
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MSD1**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:18:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MSD1.106

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	1022	43	4.2	0.001715	<b>3.6116</b>	ug/L
Be	9	25	31	5	16.1	0.000007	<b>0.1614</b>	ug/L
B	11	322	169586	9852	5.8	0.296089	<b>1669.6245</b>	ug/L
Na	23	3977	4484091	210536	4.7	7.840261	<b>3035.9362</b>	ug/L
Mg	24	111	53215710	2022082	3.8	93.158825	<b>52159.7838</b>	ug/L
Al	27	1010	45758	1989	4.3	0.078170	<b>32.4492</b>	ug/L
K	39	430753	802539	28295	3.5	0.586000	<b>166.8650</b>	ug/L
Ca	44	32562	63743	1744	2.7	0.049710	<b>487.1528</b>	ug/L
Sc	45	525930	571354	25747	4.5	571353.940120		ug/L
Ti	47	944	1269	11	0.9	0.000428	<b>1.9016</b>	ug/L
Ti	48	-2694	-548	231	42.1	0.004150	<b>1.4206</b>	ug/L
V	51	197	20571	983	4.8	0.035628	<b>10.6371</b>	ug/L
Cr	52	7265	8921	476	5.3	0.001797	<b>0.5610</b>	ug/L
Cr	53	117	478	38	7.9	0.000616	<b>1.8548</b>	ug/L
Mn	55	280	196506	12055	6.1	0.343241	<b>80.8793</b>	ug/L
Fe	54	39304	12579706	679919	5.4	21.937175	<b>99490.0003</b>	ug/L
Fe	57	5552	5258435	280696	5.3	9.190754	<b>105922.2636</b>	ug/L
Co	59	38	3227	65	2.0	0.005579	<b>1.5958</b>	ug/L
Ni	60	32	1537	82	5.3	0.002631	<b>3.4080</b>	ug/L
Ni	62	114	386	68	17.5	0.000458	<b>4.0771</b>	ug/L
Cu	65	49	5200	256	4.9	0.023738	<b>9.9760</b>	ug/L
Cu	63	51	10059	715	7.1	0.046093	<b>9.8507</b>	ug/L
Zn	66	439	2025	117	5.8	0.007163	<b>5.7041</b>	ug/L
Zn	68	213	1434	80	5.6	0.005560	<b>5.8188</b>	ug/L
Ge	74	202077	216927	12153	5.6	216926.858887		ug/L
As	75	-111	93692	4560	4.9	0.432573	<b>234.6095</b>	ug/L
As-1	75	9698	103016	4813	4.7	0.427063	<b>252.3050</b>	ug/L
Se	77	129	377	17	4.4	0.000048	<b>7.0738</b>	ug/L
Se	82	20	343	53	15.5	0.000066	<b>7.7369</b>	ug/L
Sr	88	76	52176	2092	4.0	0.010811	<b>9.6309</b>	ug/L
Mo	98	130	9452	522	5.5	0.001930	<b>8.3415</b>	ug/L
Ag	107	40	1550	101	6.5	0.000312	<b>0.6720</b>	ug/L
Ag	109	40	864	54	6.2	0.000170	<b>0.3868</b>	ug/L
Cd	111	11	374	32	8.7	0.000075	<b>0.6544</b>	ug/L
Cd	114	77	485	16	3.4	0.000082	<b>0.3362</b>	ug/L
In	115	4192305	4817731	180591	3.7	4817731.160602		ug/L

Sn	120	978	3388	1030	30.4	0.000465	<b>1.2330</b>	ug/L
Sb	121	126	30319	1142	3.8	0.006263	<b>29.6075</b>	ug/L
Cs	133	15	45	3	6.8	0.000006	<b>0.0079</b>	ug/L
Ba	138	60	36692	1205	3.3	0.007603	<b>7.9206</b>	ug/L
Ce	140	18	205	5	2.2	0.000038	<b>0.0351</b>	ug/L
> Tm	169	1270088	1364997	34861	2.6	1364996.878596		ug/L
Tl	205	10	1299	38	2.9	0.000944	<b>0.4292</b>	ug/L
Pb	208	58	35334	1334	3.8	0.025835	<b>8.7321</b>	ug/L
Bi	209	101	165	19	11.5	0.000041	<b>0.0631</b>	ug/L
Th	232	30	45	6	13.7	0.000009	<b>0.0604</b>	ug/L
U	238	6	78464	2237	2.9	0.057476	<b>16.8090</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.637
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.349
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.918
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.473
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1231002-06**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:21:53

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 128

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1231002-06.107

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	314	9	3.0	0.000460	<b>1.0014</b>	ug/L
Be	9	25	37	8	22.9	0.000016	<b>0.2437</b>	ug/L
B	11	322	161447	3514	2.2	0.274213	<b>1546.2889</b>	ug/L
Na	23	3977	1867054	30449	1.6	3.170651	<b>1232.7254</b>	ug/L
Mg	24	111	48544920	677308	1.4	82.635211	<b>46267.7798</b>	ug/L
Al	27	1010	10509	202	1.9	0.015970	<b>7.1640</b>	ug/L
K	39	430753	607640	3702	0.6	0.215340	<b>64.6588</b>	ug/L
Ca	44	32562	69687	399	0.6	0.056712	<b>553.2691</b>	ug/L
Sc	45	525930	587453	1916	0.3	587452.942754		ug/L
Ti	47	944	1274	41	3.2	0.000373	<b>1.6887</b>	ug/L
Ti	48	-2694	-510	92	17.9	0.004253	<b>1.4571</b>	ug/L
V	51	197	23332	96	0.4	0.039343	<b>11.7431</b>	ug/L
Cr	52	7265	9239	148	1.6	0.001914	<b>0.6019</b>	ug/L
Cr	53	117	492	31	6.4	0.000616	<b>1.8546</b>	ug/L
Mn	55	280	130076	3747	2.9	0.220892	<b>52.0511</b>	ug/L
Fe	54	39304	13146653	280978	2.1	22.304533	<b>101155.9431</b>	ug/L
Fe	57	5552	5482994	137531	2.5	9.322711	<b>107443.0387</b>	ug/L
Co	59	38	3650	89	2.4	0.006140	<b>1.7578</b>	ug/L
Ni	60	32	2199	74	3.4	0.003684	<b>4.7721</b>	ug/L
Ni	62	114	512	13	2.6	0.000655	<b>5.7043</b>	ug/L
Cu	65	49	1419	77	5.4	0.006041	<b>2.5554</b>	ug/L
Cu	63	51	2561	63	2.5	0.011072	<b>2.3728</b>	ug/L
Zn	66	439	1632	43	2.6	0.005049	<b>4.1223</b>	ug/L
Zn	68	213	1239	85	6.9	0.004422	<b>4.6991</b>	ug/L
Ge	74	202077	226134	4314	1.9	226134.292850		ug/L
As	75	-111	67319	1002	1.5	0.298259	<b>161.8138</b>	ug/L
As-1	75	9698	76708	1065	1.4	0.291248	<b>172.3729</b>	ug/L
Se	77	129	180	21	11.6	0.000005	<b>0.6030</b>	ug/L
Se	82	20	95	10	10.8	0.000014	<b>1.8023</b>	ug/L
Sr	88	76	67989	1015	1.5	0.013476	<b>12.0098</b>	ug/L
Mo	98	130	13676	173	1.3	0.002683	<b>11.5891</b>	ug/L
Ag	107	40	1876	22	1.2	0.000363	<b>0.7793</b>	ug/L
Ag	109	40	1091	33	3.1	0.000207	<b>0.4682</b>	ug/L
Cd	111	11	248	26	10.3	0.000047	<b>0.3947</b>	ug/L
Cd	114	77	123	8	6.8	0.000006	<b>0.0378</b>	ug/L
In	115	4192305	5038166	24054	0.5	5038165.924008		ug/L

Sn	120	978	3502	932	26.6	0.000461	<b>1.2238</b>	ug/L
Sb	121	126	37955	556	1.5	0.007503	<b>35.4586</b>	ug/L
Cs	133	15	45	7	14.4	0.000005	<b>0.0077</b>	ug/L
Ba	138	60	49579	813	1.6	0.009827	<b>10.2243</b>	ug/L
Ce	140	18	220	32	14.6	0.000040	<b>0.0363</b>	ug/L
> Tm	169	1270088	1400934	11224	0.8	1400934.035834		ug/L
Tl	205	10	38	3	9.1	0.000020	<b>0.0077</b>	ug/L
Pb	208	58	3029	73	2.4	0.002116	<b>0.7088</b>	ug/L
Bi	209	101	137	14	10.0	0.000018	<b>0.0538</b>	ug/L
Th	232	30	47	1	2.1	0.000010	<b>0.0608</b>	ug/L
U	238	6	62360	540	0.9	0.044509	<b>13.0160</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.698
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.905
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	120.176
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	110.302
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MS2**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:25:39

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 129

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MS2.108

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	1429	40	2.8	0.002300	<b>4.8295</b>	ug/L
Be	9	25	29	3	11.2	0.000001	<b>0.1057</b>	ug/L
B	11	322	188263	4264	2.3	0.312319	<b>1761.1328</b>	ug/L
Na	23	3977	5782349	20757	0.4	9.604602	<b>3717.2518</b>	ug/L
Mg	24	111	46622515	741343	1.6	77.496209	<b>43390.5339</b>	ug/L
Al	27	1010	49245	497	1.0	0.079936	<b>33.1668</b>	ug/L
K	39	430753	938573	10389	1.1	0.741078	<b>209.6264</b>	ug/L
Ca	44	32562	81815	230	0.3	0.074089	<b>717.3483</b>	ug/L
Sc	45	525930	601607	5406	0.9	601606.581303		ug/L
Ti	47	944	1512	30	2.0	0.000717	<b>3.0224</b>	ug/L
Ti	48	-2694	1157	249	21.5	0.007043	<b>2.4455</b>	ug/L
V	51	197	17392	229	1.3	0.028536	<b>8.5260</b>	ug/L
Cr	52	7265	9693	97	1.0	0.002298	<b>0.7357</b>	ug/L
Cr	53	117	519	15	2.9	0.000642	<b>1.9327</b>	ug/L
Mn	55	280	260187	2635	1.0	0.431984	<b>101.7892</b>	ug/L
Fe	54	39304	13808840	206690	1.5	22.877785	<b>103755.6024</b>	ug/L
Fe	57	5552	5863954	61994	1.1	9.737309	<b>112221.1824</b>	ug/L
Co	59	38	3374	59	1.8	0.005536	<b>1.5833</b>	ug/L
Ni	60	32	1647	47	2.8	0.002677	<b>3.4678</b>	ug/L
Ni	62	114	419	37	8.9	0.000481	<b>4.2666</b>	ug/L
Cu	65	49	1920	31	1.6	0.007950	<b>3.3558</b>	ug/L
Cu	63	51	3761	64	1.7	0.015788	<b>3.3799</b>	ug/L
Zn	66	439	3478	97	2.8	0.012664	<b>9.8197</b>	ug/L
Zn	68	213	2620	12	0.5	0.010124	<b>10.3102</b>	ug/L
Ge	74	202077	234502	4752	2.0	234502.136602		ug/L
As	75	-111	57616	675	1.2	0.246273	<b>133.6390</b>	ug/L
As-1	75	9698	67263	752	1.1	0.238882	<b>141.5535</b>	ug/L
Se	77	129	187	17	9.0	0.000006	<b>0.7385</b>	ug/L
Se	82	20	75	13	16.9	0.000010	<b>1.3349</b>	ug/L
Sr	88	76	90359	57	0.1	0.017662	<b>15.7456</b>	ug/L
Mo	98	130	8615	68	0.8	0.001655	<b>7.1549</b>	ug/L
Ag	107	40	1711	75	4.4	0.000325	<b>0.7001</b>	ug/L
Ag	109	40	987	1	0.1	0.000184	<b>0.4172</b>	ug/L
Cd	111	11	226	10	4.4	0.000042	<b>0.3503</b>	ug/L
Cd	114	77	112	5	4.6	0.000003	<b>0.0276</b>	ug/L
In	115	4192305	5111025	43169	0.8	5111024.825743		ug/L

Sn	120	978	3880	1113	28.7	0.000527	<b>1.3751</b>	ug/L
Sb	121	126	29423	71	0.2	0.005727	<b>27.0787</b>	ug/L
Cs	133	15	165	20	12.0	0.000029	<b>0.0268</b>	ug/L
Ba	138	60	70737	218	0.3	0.013826	<b>14.3677</b>	ug/L
Ce	140	18	672	27	4.0	0.000127	<b>0.1186</b>	ug/L
Tm	169	1270088	1410890	1893	0.1	1410890.388763		ug/L
Tl	205	10	44	1	2.3	0.000024	<b>0.0095</b>	ug/L
Pb	208	58	10950	106	1.0	0.007715	<b>2.6028</b>	ug/L
Bi	209	101	169	8	4.5	0.000040	<b>0.0625</b>	ug/L
Th	232	30	122	6	5.3	0.000063	<b>0.0808</b>	ug/L
U	238	6	67476	509	0.8	0.047820	<b>13.9846</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	114.389
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	116.046
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	121.914
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	111.086
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-MSD2**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:29:25

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-MSD2.109

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	658	23	3.5	0.001016	<b>2.1581</b>	ug/L
Be	9	25	34	2	4.5	0.000009	<b>0.1821</b>	ug/L
B	11	322	174926	3608	2.1	0.289488	<b>1632.4069</b>	ug/L
Na	23	3977	1736021	27228	1.6	2.871728	<b>1117.2934</b>	ug/L
Mg	24	111	46915687	482802	1.0	77.821437	<b>43572.6243</b>	ug/L
Al	27	1010	49334	71	0.1	0.079920	<b>33.1606</b>	ug/L
K	39	430753	617261	5664	0.9	0.204806	<b>61.7540</b>	ug/L
Ca	44	32562	73381	428	0.6	0.059807	<b>582.4936</b>	ug/L
Sc	45	525930	602978	11965	2.0	602978.256566		ug/L
Ti	47	944	1430	50	3.5	0.000576	<b>2.4756</b>	ug/L
Ti	48	-2694	1581	119	7.5	0.007747	<b>2.6949</b>	ug/L
V	51	197	18257	184	1.0	0.029910	<b>8.9351</b>	ug/L
Cr	52	7265	9780	143	1.5	0.002408	<b>0.7738</b>	ug/L
Cr	53	117	513	31	6.0	0.000630	<b>1.8976</b>	ug/L
Mn	55	280	219071	3170	1.4	0.362824	<b>85.4934</b>	ug/L
Fe	54	39304	13317867	233260	1.8	22.013453	<b>99835.9145</b>	ug/L
Fe	57	5552	5616360	76950	1.4	9.305209	<b>107241.3254</b>	ug/L
Co	59	38	3491	6	0.2	0.005718	<b>1.6360</b>	ug/L
Ni	60	32	1970	65	3.3	0.003207	<b>4.1544</b>	ug/L
Ni	62	114	466	23	4.9	0.000557	<b>4.8974</b>	ug/L
Cu	65	49	6382	124	1.9	0.027159	<b>11.4109</b>	ug/L
Cu	63	51	12412	295	2.4	0.053027	<b>11.3314</b>	ug/L
Zn	66	439	3165	82	2.6	0.011414	<b>8.8846</b>	ug/L
Zn	68	213	2345	22	0.9	0.009018	<b>9.2215</b>	ug/L
Ge	74	202077	232972	6242	2.7	232972.464664		ug/L
As	75	-111	101512	1024	1.0	0.436441	<b>236.7056</b>	ug/L
As-1	75	9698	111043	982	0.9	0.428830	<b>253.3454</b>	ug/L
Se	77	129	440	14	3.1	0.000056	<b>8.4116</b>	ug/L
Se	82	20	433	16	3.7	0.000081	<b>9.3863</b>	ug/L
Sr	88	76	76248	901	1.2	0.015063	<b>13.4262</b>	ug/L
Mo	98	130	8663	166	1.9	0.001682	<b>7.2752</b>	ug/L
Ag	107	40	1800	32	1.8	0.000346	<b>0.7447</b>	ug/L
Ag	109	40	1055	24	2.3	0.000199	<b>0.4513</b>	ug/L
Cd	111	11	472	13	2.8	0.000091	<b>0.7966</b>	ug/L
Cd	114	77	640	17	2.7	0.000108	<b>0.4375</b>	ug/L
In	115	4192305	5055735	9739	0.2	5055735.261969		ug/L

Sn	120	978	3697	762	20.6	0.000498	<b>1.3085</b>	ug/L
Sb	121	126	30515	399	1.3	0.006006	<b>28.3931</b>	ug/L
Cs	133	15	188	17	9.0	0.000034	<b>0.0310</b>	ug/L
Ba	138	60	57704	582	1.0	0.011399	<b>11.8537</b>	ug/L
Ce	140	18	685	28	4.1	0.000131	<b>0.1225</b>	ug/L
Tm	169	1270088	1395386	5135	0.4	1395385.681640		ug/L
Tl	205	10	1309	10	0.7	0.000931	<b>0.4230</b>	ug/L
Pb	208	58	38541	241	0.6	0.027575	<b>9.3208</b>	ug/L
Bi	209	101	128	12	9.3	0.000012	<b>0.0515</b>	ug/L
Th	232	30	122	3	2.6	0.000064	<b>0.0811</b>	ug/L
U	238	6	70270	416	0.6	0.050355	<b>14.7261</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	114.650
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	115.289
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	120.596
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	109.865
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121403-DUP3**

**Sample Description: 5x**

**Batch ID: B121403**

The sample ID should read  
**B121403 -DUP2.**  
**KDM 08/28/2012**

Sample Date/Time: Friday, August 17, 2012 18:33:11

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 131

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121403-DUP3.110

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	737	21	2.8	0.001147	<b>2.4291</b>	ug/L
Be	9	25	28	2	6.2	-0.000000	<b>0.0943</b>	ug/L
B	11	322	172093	1918	1.1	0.284547	<b>1604.5532</b>	ug/L
Na	23	3977	1848616	22911	1.2	3.055572	<b>1188.2863</b>	ug/L
Mg	24	111	48661811	524722	1.1	80.633133	<b>45146.8480</b>	ug/L
Al	27	1010	57429	1624	2.8	0.093240	<b>38.5751</b>	ug/L
K	39	430753	610603	7441	1.2	0.192737	<b>58.4260</b>	ug/L
Ca	44	32562	75819	504	0.7	0.063726	<b>619.4996</b>	ug/L
Sc	45	525930	603514	8378	1.4	603514.019820		ug/L
Ti	47	944	1581	7	0.4	0.000824	<b>3.4375</b>	ug/L
Ti	48	-2694	1848	152	8.2	0.008182	<b>2.8489</b>	ug/L
V	51	197	17724	383	2.2	0.028991	<b>8.6616</b>	ug/L
Cr	52	7265	9807	121	1.2	0.002437	<b>0.7841</b>	ug/L
Cr	53	117	521	19	3.6	0.000642	<b>1.9346</b>	ug/L
Mn	55	280	250677	4176	1.7	0.414820	<b>97.7450</b>	ug/L
Fe	54	39304	13389473	218632	1.6	22.112132	<b>100283.4173</b>	ug/L
Fe	57	5552	5606233	122487	2.2	9.278291	<b>106931.1072</b>	ug/L
Co	59	38	3316	93	2.8	0.005421	<b>1.5502</b>	ug/L
Ni	60	32	1815	50	2.8	0.002946	<b>3.8162</b>	ug/L
Ni	62	114	439	21	4.7	0.000511	<b>4.5183</b>	ug/L
Cu	65	49	5298	122	2.3	0.022401	<b>9.4157</b>	ug/L
Cu	63	51	10392	177	1.7	0.044161	<b>9.4382</b>	ug/L
Zn	66	439	3684	64	1.7	0.013574	<b>10.5006</b>	ug/L
Zn	68	213	2762	33	1.2	0.010754	<b>10.9302</b>	ug/L
Ge	74	202077	234014	5344	2.3	234014.008309		ug/L
As	75	-111	92102	2251	2.4	0.394114	<b>213.7655</b>	ug/L
As-1	75	9698	101722	2481	2.4	0.386683	<b>228.5402</b>	ug/L
Se	77	129	422	7	1.7	0.000054	<b>7.9867</b>	ug/L
Se	82	20	449	21	4.7	0.000085	<b>9.8301</b>	ug/L
Sr	88	76	77673	2452	3.2	0.015471	<b>13.7902</b>	ug/L
Mo	98	130	8096	248	3.1	0.001583	<b>6.8479</b>	ug/L
Ag	107	40	1672	25	1.5	0.000324	<b>0.6973</b>	ug/L
Ag	109	40	938	75	8.0	0.000178	<b>0.4039</b>	ug/L
Cd	111	11	372	17	4.7	0.000072	<b>0.6221</b>	ug/L
Cd	114	77	470	47	10.1	0.000075	<b>0.3089</b>	ug/L
In	115	4192305	5014048	38100	0.8	5014048.164108		ug/L

Sn	120	978	3953	1093	27.7	0.000555	<b>1.4388</b>	ug/L
Sb	121	126	26221	409	1.6	0.005199	<b>24.5891</b>	ug/L
Cs	133	15	161	13	8.1	0.000028	<b>0.0267</b>	ug/L
Ba	138	60	60770	146	0.2	0.012106	<b>12.5860</b>	ug/L
Ce	140	18	679	41	6.0	0.000131	<b>0.1224</b>	ug/L
Tm	169	1270088	1393105	12325	0.9	1393105.466719		ug/L
Tl	205	10	1352	36	2.6	0.000963	<b>0.4377</b>	ug/L
Pb	208	58	38894	360	0.9	0.027873	<b>9.4215</b>	ug/L
Bi	209	101	140	17	11.8	0.000021	<b>0.0548</b>	ug/L
Th	232	30	137	9	6.3	0.000075	<b>0.0853</b>	ug/L
U	238	6	79714	866	1.1	0.057219	<b>16.7337</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	114.752
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	115.805
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	119.601
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	109.686
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1231002-11**

**Sample Description: 5x**

**Batch ID: B121403**

Sample Date/Time: Friday, August 17, 2012 18:36:57

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 132

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1231002-11.111

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	807	65	8.0	0.001353	<b>2.8586</b>	ug/L
Be	9	25	27	5	16.9	0.000002	<b>0.1147</b>	ug/L
B	11	322	155764	9891	6.4	0.274966	<b>1550.5344</b>	ug/L
Na	23	3977	2812050	116402	4.1	4.970106	<b>1927.6006</b>	ug/L
Mg	24	111	47838414	2584090	5.4	84.654697	<b>47398.4577</b>	ug/L
Al	27	1010	54058	3215	5.9	0.093726	<b>38.7726</b>	ug/L
K	39	430753	653578	20664	3.2	0.338160	<b>98.5252</b>	ug/L
Ca	44	32562	70529	2283	3.2	0.062957	<b>612.2382</b>	ug/L
Sc	45	525930	564892	21276	3.8	564891.953260		ug/L
Ti	47	944	1201	27	2.2	0.000331	<b>1.5258</b>	ug/L
Ti	48	-2694	-345	90	26.1	0.004506	<b>1.5468</b>	ug/L
V	51	197	17698	1082	6.1	0.030937	<b>9.2409</b>	ug/L
Cr	52	7265	8919	497	5.6	0.001968	<b>0.6205</b>	ug/L
Cr	53	117	475	18	3.8	0.000619	<b>1.8638</b>	ug/L
Mn	55	280	218651	12424	5.7	0.386379	<b>91.0437</b>	ug/L
Fe	54	39304	12336241	743878	6.0	21.753917	<b>98658.9359</b>	ug/L
Fe	57	5552	5153456	305815	5.9	9.107669	<b>104964.7213</b>	ug/L
Co	59	38	2957	181	6.1	0.005161	<b>1.4752</b>	ug/L
Ni	60	32	1480	64	4.3	0.002559	<b>3.3148</b>	ug/L
Ni	62	114	381	29	7.7	0.000458	<b>4.0780</b>	ug/L
Cu	65	49	816	47	5.7	0.003520	<b>1.4982</b>	ug/L
Cu	63	51	1512	140	9.2	0.006704	<b>1.4400</b>	ug/L
Zn	66	439	3454	237	6.8	0.013732	<b>10.6186</b>	ug/L
Zn	68	213	2529	103	4.1	0.010606	<b>10.7843</b>	ug/L
Ge	74	202077	217090	12092	5.6	217089.965819		ug/L
As	75	-111	50244	2725	5.4	0.232004	<b>125.9054</b>	ug/L
As-1	75	9698	59724	3022	5.1	0.227173	<b>134.6623</b>	ug/L
Se	77	129	149	29	19.2	0.000001	<b>-0.0182</b>	ug/L
Se	82	20	80	6	7.9	0.000012	<b>1.5905</b>	ug/L
Sr	88	76	69329	5311	7.7	0.014717	<b>13.1170</b>	ug/L
Mo	98	130	7705	411	5.3	0.001608	<b>6.9523</b>	ug/L
Ag	107	40	1478	44	2.9	0.000305	<b>0.6575</b>	ug/L
Ag	109	40	846	77	9.1	0.000170	<b>0.3883</b>	ug/L
Cd	111	11	194	6	3.0	0.000039	<b>0.3237</b>	ug/L
Cd	114	77	105	24	23.0	0.000004	<b>0.0294</b>	ug/L
In	115	4192305	4700526	192488	4.1	4700525.506897		ug/L

Sn	120	978	3515	1025	29.2	0.000519	<b>1.3578</b>	ug/L
Sb	121	126	25160	742	2.9	0.005324	<b>25.1787</b>	ug/L
Cs	133	15	43	5	11.6	0.000006	<b>0.0078</b>	ug/L
Ba	138	60	50903	2090	4.1	0.010815	<b>11.2482</b>	ug/L
Ce	140	18	264	41	15.4	0.000052	<b>0.0478</b>	ug/L
Tm	169	1270088	1335450	38726	2.9	1335450.312434		ug/L
Tl	205	10	37	4	10.3	0.000020	<b>0.0078</b>	ug/L
Pb	208	58	2725	118	4.3	0.001995	<b>0.6677</b>	ug/L
Bi	209	101	95	6	5.8	-0.000009	<b>0.0431</b>	ug/L
Th	232	30	49	8	16.2	0.000013	<b>0.0620</b>	ug/L
U	238	6	62035	2308	3.7	0.046441	<b>13.5811</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	107.408
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	107.429
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	112.123
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	105.146
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCV4

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 18:40:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV4.112

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3423	77	2.2	0.005531	<b>2.3098</b>	ug/L
Be	9	25	318	12	3.9	0.000473	<b>0.9041</b>	ug/L
B	11	322	28348	213	0.8	0.045804	<b>51.7013</b>	ug/L
Na	23	3977	3825750	18836	0.5	6.256643	<b>484.8816</b>	ug/L
Mg	24	111	1051125	35096	3.3	1.720777	<b>193.0149</b>	ug/L
Al	27	1010	350676	5141	1.5	0.572238	<b>46.6587</b>	ug/L
K	39	430753	1474321	15433	1.0	1.594899	<b>89.0120</b>	ug/L
Ca	44	32562	333791	1378	0.4	0.484623	<b>918.7480</b>	ug/L
Sc	45	525930	610749	2764	0.5	610749.309331		ug/L
Ti	47	944	4688	36	0.8	0.005880	<b>4.6104</b>	ug/L
Ti	48	-2694	41027	902	2.2	0.072301	<b>5.1124</b>	ug/L
V	51	197	50916	538	1.1	0.082996	<b>4.9476</b>	ug/L
Cr	52	7265	114422	1271	1.1	0.173541	<b>12.0826</b>	ug/L
Cr	53	117	12516	191	1.5	0.020272	<b>12.4325</b>	ug/L
Mn	55	280	33258	133	0.4	0.053924	<b>2.5420</b>	ug/L
Fe	54	39304	213060	2474	1.2	0.274121	<b>249.8982</b>	ug/L
Fe	57	5552	76306	1166	1.5	0.114381	<b>263.8378</b>	ug/L
Co	59	38	26824	158	0.6	0.043848	<b>2.5279</b>	ug/L
Ni	60	32	11790	76	0.6	0.019243	<b>4.9874</b>	ug/L
Ni	62	114	2039	52	2.6	0.003122	<b>5.2112</b>	ug/L
Cu	65	49	14239	110	0.8	0.058515	<b>4.9119</b>	ug/L
Cu	63	51	28324	234	0.8	0.116624	<b>4.9823</b>	ug/L
Zn	66	439	8704	20	0.2	0.033744	<b>5.1182</b>	ug/L
Zn	68	213	6477	99	1.5	0.025673	<b>5.1224</b>	ug/L
Ge	74	202077	242351	906	0.4	242351.246932		ug/L
As	75	-111	11446	180	1.6	0.047777	<b>5.2116</b>	ug/L
As-1	75	9698	21139	168	0.8	0.039235	<b>4.8108</b>	ug/L
Se	77	129	1933	31	1.6	0.000364	<b>11.0503</b>	ug/L
Se	82	20	2456	33	1.3	0.000497	<b>11.3280</b>	ug/L
Sr	88	76	143560	949	0.7	0.029306	<b>5.2277</b>	ug/L
Mo	98	130	3291	76	2.3	0.000641	<b>0.5575</b>	ug/L
Ag	107	40	12012	179	1.5	0.002444	<b>1.0341</b>	ug/L
Ag	109	40	11617	176	1.5	0.002363	<b>1.0332</b>	ug/L
Cd	111	11	1349	47	3.5	0.000273	<b>0.4914</b>	ug/L
Cd	114	77	3172	93	2.9	0.000630	<b>0.4955</b>	ug/L
In	115	4192305	4895782	51356	1.0	4895781.937358		ug/L



Sn	120	978	26321	554	2.1	0.005143	<b>2.4025</b>	ug/L
Sb	121	126	3972	151	3.8	0.000781	<b>0.7499</b>	ug/L
Cs	133	15	69213	582	0.8	0.014134	<b>2.3288</b>	ug/L
Ba	138	60	50460	231	0.5	0.010293	<b>2.1415</b>	ug/L
Ce	140	18	12024	63	0.5	0.002452	<b>0.4603</b>	ug/L
> Tm	169	1270088	1350553	11617	0.9	1350553.493297		ug/L
Tl	205	10	3820	57	1.5	0.002821	<b>0.2569</b>	ug/L
Pb	208	58	51020	211	0.4	0.037733	<b>2.5514</b>	ug/L
Bi	209	101	41973	496	1.2	0.031001	<b>2.4692</b>	ug/L
Th	232	30	10026	373	3.7	0.007401	<b>0.5731</b>	ug/L
U	238	6	11880	221	1.9	0.008793	<b>0.5138</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.127
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	119.930
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.780
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.335
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB4**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 18:44:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB4.113

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	36	8	22.1	-0.000012	<b>0.0040</b>	ug/L
Be	9	25	35	4	9.9	0.000014	<b>0.0469</b>	ug/L
B	11	322	1714	178	10.4	0.002369	<b>2.7233</b>	ug/L
Na	23	3977	7247	1362	18.8	0.005054	<b>2.0604</b>	ug/L
Mg	24	111	7852	12320	156.9	0.013722	<b>1.8644</b>	ug/L
Al	27	1010	1052	65	6.2	-0.000092	<b>0.1269</b>	ug/L
K	39	430753	445446	1260	0.3	-0.045793	<b>-1.4693</b>	ug/L
Ca	44	32562	27104	349	1.3	-0.014871	<b>-24.5277</b>	ug/L
Sc	45	525930	576263	13409	2.3	576262.563225		ug/L
Ti	47	944	816	17	2.0	-0.000379	<b>-0.2457</b>	ug/L
Ti	48	-2694	-2217	45	2.0	0.001274	<b>0.0804</b>	ug/L
V	51	197	174	9	5.2	-0.000071	<b>0.0020</b>	ug/L
Cr	52	7265	8017	31	0.4	0.000105	<b>-0.0057</b>	ug/L
Cr	53	117	106	6	5.7	-0.000038	<b>-0.0304</b>	ug/L
Mn	55	280	321	26	8.2	0.000025	<b>0.0020</b>	ug/L
Fe	54	39304	43271	1411	3.3	0.000394	<b>1.6314</b>	ug/L
Fe	57	5552	6778	318	4.7	0.001215	<b>2.9955</b>	ug/L
Co	59	38	45	9	19.6	0.000005	<b>-0.0025</b>	ug/L
Ni	60	32	40	11	28.3	0.000009	<b>0.0020</b>	ug/L
Ni	62	114	163	2	1.3	0.000067	<b>0.1716</b>	ug/L
Cu	65	49	59	5	8.5	0.000012	<b>0.0054</b>	ug/L
Cu	63	51	78	12	15.1	0.000080	<b>0.0051</b>	ug/L
Zn	66	439	398	25	6.3	-0.000464	<b>-0.0005</b>	ug/L
Zn	68	213	221	9	4.0	-0.000103	<b>0.0491</b>	ug/L
Ge	74	202077	233221	2884	1.2	233220.967440		ug/L
As	75	-111	-59	83	140.7	0.000299	<b>0.0653</b>	ug/L
As-1	75	9698	10140	99	1.0	-0.004506	<b>-0.3379</b>	ug/L
Se	77	129	156	9	5.7	0.000002	<b>0.0419</b>	ug/L
Se	82	20	23	7	31.1	0.000000	<b>0.0443</b>	ug/L
Sr	88	76	532	785	147.5	0.000095	<b>0.0131</b>	ug/L
Mo	98	130	235	17	7.3	0.000019	<b>0.0210</b>	ug/L
Ag	107	40	49	29	59.4	0.000001	<b>0.0031</b>	ug/L
Ag	109	40	42	27	63.5	-0.000001	<b>0.0032</b>	ug/L
Cd	111	11	21	1	4.8	0.000002	<b>-0.0025</b>	ug/L
Cd	114	77	68	8	11.6	-0.000004	<b>-0.0004</b>	ug/L
In	115	4192305	4718132	29371	0.6	4718131.841592		ug/L

Sn	120	978	733	720	98.2	-0.000079	<b>-0.0040</b>	ug/L
Sb	121	126	572	55	9.5	0.000091	<b>0.0987</b>	ug/L
Cs	133	15	39	29	74.1	0.000005	<b>0.0014</b>	ug/L
Ba	138	60	128	92	72.2	0.000013	<b>0.0116</b>	ug/L
Ce	140	18	24	9	37.1	0.000001	<b>0.0000</b>	ug/L
> Tm	169	1270088	1300014	4663	0.4	1300013.622086		ug/L
Tl	205	10	17	7	42.4	0.000005	<b>0.0003</b>	ug/L
Pb	208	58	93	19	20.1	0.000026	<b>0.0003</b>	ug/L
Bi	209	101	357	41	11.6	0.000195	<b>0.0248</b>	ug/L
Th	232	30	97	16	16.6	0.000051	<b>0.0153</b>	ug/L
U	238	6	30	35	117.8	0.000018	<b>0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.570
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.412
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.543
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.356
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-BLK1**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 18:48:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 133

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-BLK1.114

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	40	10	25.4	-0.000003	<b>0.0075</b>	ug/L
Be	9	25	34	9	25.6	0.000014	<b>0.0461</b>	ug/L
B	11	322	1228	51	4.1	0.001589	<b>1.8441</b>	ug/L
Na	23	3977	7316	1024	14.0	0.005547	<b>2.0985</b>	ug/L
Mg	24	111	5710	9470	165.8	0.009869	<b>1.4329</b>	ug/L
Al	27	1010	672	121	18.1	-0.000717	<b>0.0761</b>	ug/L
K	39	430753	438102	1320	0.3	-0.033220	<b>-0.7759</b>	ug/L
Ca	44	32562	27392	103	0.4	-0.012783	<b>-20.5852</b>	ug/L
Sc	45	525930	557619	9965	1.8	557618.735219		ug/L
Ti	47	944	822	16	1.9	-0.000321	<b>-0.2009</b>	ug/L
Ti	48	-2694	-2271	11	0.5	0.001049	<b>0.0644</b>	ug/L
V	51	197	173	14	8.1	-0.000063	<b>0.0025</b>	ug/L
Cr	52	7265	7628	230	3.0	-0.000136	<b>-0.0225</b>	ug/L
Cr	53	117	98	10	10.2	-0.000045	<b>-0.0351</b>	ug/L
Mn	55	280	213	12	5.4	-0.000150	<b>-0.0063</b>	ug/L
Fe	54	39304	25032	648	2.6	-0.029840	<b>-25.7902</b>	ug/L
Fe	57	5552	6135	335	5.5	0.000444	<b>1.2180</b>	ug/L
Co	59	38	41	3	7.9	0.000001	<b>-0.0028</b>	ug/L
Ni	60	32	40	8	20.2	0.000011	<b>0.0024</b>	ug/L
Ni	62	114	163	29	17.7	0.000076	<b>0.1852</b>	ug/L
Cu	65	49	42	5	11.7	-0.000051	<b>0.0001</b>	ug/L
Cu	63	51	52	9	16.3	-0.000018	<b>0.0010</b>	ug/L
Zn	66	439	264	7	2.7	-0.000986	<b>-0.0787</b>	ug/L
Zn	68	213	99	16	15.9	-0.000609	<b>-0.0504</b>	ug/L
Ge	74	202077	223125	1736	0.8	223125.075436		ug/L
As	75	-111	-165	17	10.3	-0.000190	<b>0.0122</b>	ug/L
As-1	75	9698	9725	35	0.4	-0.004404	<b>-0.3259</b>	ug/L
Se	77	129	144	5	3.5	0.000000	<b>-0.0207</b>	ug/L
Se	82	20	1	9	1215.4	-0.000005	<b>-0.0637</b>	ug/L
Sr	88	76	63	15	24.0	-0.000005	<b>-0.0046</b>	ug/L
Mo	98	130	120	41	34.5	-0.000005	<b>0.0003</b>	ug/L
Ag	107	40	29	6	20.8	-0.000003	<b>0.0014</b>	ug/L
Ag	109	40	26	7	26.5	-0.000004	<b>0.0017</b>	ug/L
Cd	111	11	21	7	34.3	0.000002	<b>-0.0023</b>	ug/L
Cd	114	77	61	5	8.4	-0.000005	<b>-0.0013</b>	ug/L
In	115	4192305	4634042	21454	0.5	4634042.375677		ug/L

Sn	120	978	456	529	116.0	-0.000135	<b>-0.0302</b>	ug/L
Sb	121	126	181	10	5.6	0.000009	<b>0.0211</b>	ug/L
Cs	133	15	21	5	21.8	0.000001	<b>0.0008</b>	ug/L
Ba	138	60	41	5	11.2	-0.000005	<b>0.0079</b>	ug/L
Ce	140	18	24	5	19.1	0.000001	<b>0.0000</b>	ug/L
Tm	169	1270088	1292958	4986	0.4	1292958.447139		ug/L
Tl	205	10	14	9	61.9	0.000003	<b>0.0000</b>	ug/L
Pb	208	58	84	7	7.7	0.000019	<b>-0.0001</b>	ug/L
Bi	209	101	55	16	28.4	-0.000037	<b>0.0064</b>	ug/L
Th	232	30	14	3	18.4	-0.000013	<b>0.0104</b>	ug/L
U	238	6	28	28	101.4	0.000017	<b>0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	106.025
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	110.416
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	110.537
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	101.801
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-BLK2**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 18:52:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 134

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-BLK2.115

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	47	9	20.0	0.000009	<b>0.0126</b>	ug/L
Be	9	25	26	3	11.5	-0.000001	<b>0.0184</b>	ug/L
B	11	322	1065	17	1.6	0.001282	<b>1.4975</b>	ug/L
Na	23	3977	3183	79	2.5	-0.001903	<b>1.5232</b>	ug/L
Mg	24	111	140	17	12.1	0.000037	<b>0.3319</b>	ug/L
Al	27	1010	587	14	2.3	-0.000875	<b>0.0632</b>	ug/L
K	39	430753	437928	2178	0.5	-0.040477	<b>-1.1761</b>	ug/L
Ca	44	32562	27810	345	1.2	-0.012475	<b>-20.0031</b>	ug/L
Sc	45	525930	562519	6523	1.2	562518.641197		ug/L
Ti	47	944	862	61	7.1	-0.000262	<b>-0.1550</b>	ug/L
Ti	48	-2694	-2334	36	1.6	0.000973	<b>0.0591</b>	ug/L
V	51	197	161	4	2.5	-0.000088	<b>0.0010</b>	ug/L
Cr	52	7265	7684	56	0.7	-0.000152	<b>-0.0236</b>	ug/L
Cr	53	117	98	4	3.6	-0.000048	<b>-0.0367</b>	ug/L
Mn	55	280	221	22	9.7	-0.000139	<b>-0.0057</b>	ug/L
Fe	54	39304	26948	440	1.6	-0.026825	<b>-23.0556</b>	ug/L
Fe	57	5552	6151	112	1.8	0.000378	<b>1.0669</b>	ug/L
Co	59	38	46	4	7.8	0.000010	<b>-0.0023</b>	ug/L
Ni	60	32	30	2	6.9	-0.000007	<b>-0.0021</b>	ug/L
Ni	62	114	169	8	4.5	0.000085	<b>0.2004</b>	ug/L
Cu	65	49	44	3	6.8	-0.000043	<b>0.0008</b>	ug/L
Cu	63	51	60	6	10.1	0.000019	<b>0.0025</b>	ug/L
Zn	66	439	220	15	6.8	-0.001181	<b>-0.1078</b>	ug/L
Zn	68	213	95	18	19.3	-0.000626	<b>-0.0538</b>	ug/L
Ge	74	202077	222417	4103	1.8	222417.197914		ug/L
As	75	-111	-150	75	50.2	-0.000130	<b>0.0187</b>	ug/L
As-1	75	9698	9668	187	1.9	-0.004519	<b>-0.3395</b>	ug/L
Se	77	129	138	13	9.6	-0.000001	<b>-0.0737</b>	ug/L
Se	82	20	9	3	27.6	-0.000003	<b>-0.0216</b>	ug/L
Sr	88	76	54	3	5.4	-0.000007	<b>-0.0049</b>	ug/L
Mo	98	130	108	39	36.1	-0.000008	<b>-0.0023</b>	ug/L
Ag	107	40	24	3	11.0	-0.000004	<b>0.0009</b>	ug/L
Ag	109	40	28	3	9.4	-0.000004	<b>0.0019</b>	ug/L
Cd	111	11	21	3	13.5	0.000002	<b>-0.0023</b>	ug/L
Cd	114	77	59	2	2.8	-0.000006	<b>-0.0018</b>	ug/L
In	115	4192305	4717425	43632	0.9	4717424.792896		ug/L

Sn	120	978	360	360	99.8	-0.000156	<b>-0.0400</b>	ug/L
Sb	121	126	139	4	3.0	-0.000001	<b>0.0121</b>	ug/L
Cs	133	15	23	5	19.9	0.000001	<b>0.0008</b>	ug/L
Ba	138	60	25	3	12.0	-0.000009	<b>0.0071</b>	ug/L
Ce	140	18	18	6	32.2	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1305377	5389	0.4	1305376.656092		ug/L
Tl	205	10	14	5	36.1	0.000003	<b>0.0000</b>	ug/L
Pb	208	58	63	7	11.5	0.000002	<b>-0.0013</b>	ug/L
Bi	209	101	54	7	12.5	-0.000038	<b>0.0063</b>	ug/L
Th	232	30	17	6	34.6	-0.000011	<b>0.0106</b>	ug/L
U	238	6	14	4	29.0	0.000006	<b>-0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.957
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.066
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.526
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.778
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-BLK3**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 18:55:54

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 135

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-BLK3.116

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	41	10	24.0	-0.000003	<b>0.0077</b>	ug/L
Be	9	25	33	4	10.9	0.000011	<b>0.0406</b>	ug/L
B	11	322	926	21	2.2	0.001020	<b>1.2029</b>	ug/L
Na	23	3977	3065	91	3.0	-0.002158	<b>1.5034</b>	ug/L
Mg	24	111	104	16	15.0	-0.000028	<b>0.3246</b>	ug/L
Al	27	1010	586	10	1.7	-0.000886	<b>0.0623</b>	ug/L
K	39	430753	436953	3318	0.8	-0.048658	<b>-1.6273</b>	ug/L
Ca	44	32562	27783	210	0.8	-0.012924	<b>-20.8521</b>	ug/L
Sc	45	525930	567533	18949	3.3	567532.580159		ug/L
Ti	47	944	841	14	1.6	-0.000311	<b>-0.1936</b>	ug/L
Ti	48	-2694	-2323	27	1.2	0.001026	<b>0.0628</b>	ug/L
V	51	197	176	15	8.3	-0.000065	<b>0.0024</b>	ug/L
Cr	52	7265	7896	137	1.7	0.000106	<b>-0.0056</b>	ug/L
Cr	53	117	95	9	9.1	-0.000054	<b>-0.0404</b>	ug/L
Mn	55	280	237	17	7.2	-0.000114	<b>-0.0046</b>	ug/L
Fe	54	39304	30665	661	2.2	-0.020685	<b>-17.4862</b>	ug/L
Fe	57	5552	6247	90	1.4	0.000456	<b>1.2461</b>	ug/L
Co	59	38	41	6	13.3	0.000001	<b>-0.0028</b>	ug/L
Ni	60	32	30	3	9.7	-0.000006	<b>-0.0020</b>	ug/L
Ni	62	114	157	24	15.3	0.000061	<b>0.1607</b>	ug/L
Cu	65	49	41	2	3.8	-0.000060	<b>-0.0006</b>	ug/L
Cu	63	51	54	3	4.7	-0.000014	<b>0.0011</b>	ug/L
Zn	66	439	230	3	1.3	-0.001147	<b>-0.1027</b>	ug/L
Zn	68	213	83	14	16.8	-0.000683	<b>-0.0650</b>	ug/L
Ge	74	202077	224989	6792	3.0	224989.036929		ug/L
As	75	-111	-162	33	20.6	-0.000170	<b>0.0144</b>	ug/L
As-1	75	9698	9876	209	2.1	-0.004071	<b>-0.2867</b>	ug/L
Se	77	129	153	7	4.4	0.000001	<b>0.0063</b>	ug/L
Se	82	20	22	9	38.0	-0.000000	<b>0.0398</b>	ug/L
Sr	88	76	69	6	9.1	-0.000004	<b>-0.0044</b>	ug/L
Mo	98	130	86	24	27.4	-0.000013	<b>-0.0064</b>	ug/L
Ag	107	40	28	4	14.6	-0.000004	<b>0.0012</b>	ug/L
Ag	109	40	24	3	11.0	-0.000004	<b>0.0015</b>	ug/L
Cd	111	11	19	7	36.7	0.000001	<b>-0.0032</b>	ug/L
Cd	114	77	67	9	13.9	-0.000004	<b>-0.0006</b>	ug/L
In	115	4192305	4778182	67692	1.4	4778181.651823		ug/L

Sn	120	978	407	469	115.0	-0.000149	<b>-0.0364</b>	ug/L
Sb	121	126	123	10	8.0	-0.000004	<b>0.0085</b>	ug/L
Cs	133	15	19	3	14.9	0.000000	<b>0.0007</b>	ug/L
Ba	138	60	33	7	20.5	-0.000007	<b>0.0074</b>	ug/L
Ce	140	18	21	4	18.3	0.000000	<b>-0.0001</b>	ug/L
> Tm	169	1270088	1304567	17772	1.4	1304567.067072		ug/L
Tl	205	10	17	2	9.2	0.000005	<b>0.0002</b>	ug/L
Pb	208	58	65	5	7.1	0.000004	<b>-0.0011</b>	ug/L
Bi	209	101	50	13	25.5	-0.000042	<b>0.0060</b>	ug/L
Th	232	30	16	1	7.4	-0.000011	<b>0.0105</b>	ug/L
U	238	6	11	4	32.8	0.000004	<b>-0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	107.910
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.338
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.975
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.715
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-BLK4**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 18:59:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 136

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-BLK4.117

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	41	1	2.8	0.000002	<b>0.0094</b>	ug/L
Be	9	25	31	5	14.8	0.000011	<b>0.0412</b>	ug/L
B	11	322	840	45	5.3	0.000966	<b>1.1417</b>	ug/L
Na	23	3977	2870	39	1.4	-0.002170	<b>1.5025</b>	ug/L
Mg	24	111	122	37	30.2	0.000018	<b>0.3298</b>	ug/L
Al	27	1010	644	42	6.5	-0.000710	<b>0.0767</b>	ug/L
K	39	430753	426441	3013	0.7	-0.017879	<b>0.0701</b>	ug/L
Ca	44	32562	28005	239	0.9	-0.009296	<b>-14.0007</b>	ug/L
Sc	45	525930	532383	10390	2.0	532382.896444		ug/L
Ti	47	944	864	16	1.8	-0.000172	<b>-0.0854</b>	ug/L
Ti	48	-2694	-2352	18	0.8	0.000702	<b>0.0398</b>	ug/L
V	51	197	168	6	3.3	-0.000058	<b>0.0028</b>	ug/L
Cr	52	7265	7538	136	1.8	0.000345	<b>0.0110</b>	ug/L
Cr	53	117	99	12	12.0	-0.000035	<b>-0.0286</b>	ug/L
Mn	55	280	242	11	4.4	-0.000078	<b>-0.0029</b>	ug/L
Fe	54	39304	29677	278	0.9	-0.018981	<b>-15.9408</b>	ug/L
Fe	57	5552	5953	73	1.2	0.000629	<b>1.6436</b>	ug/L
Co	59	38	37	3	7.9	-0.000003	<b>-0.0030</b>	ug/L
Ni	60	32	36	2	6.8	0.000007	<b>0.0016</b>	ug/L
Ni	62	114	146	2	1.0	0.000059	<b>0.1575</b>	ug/L
Cu	65	49	48	10	21.1	-0.000010	<b>0.0036</b>	ug/L
Cu	63	51	54	14	25.0	0.000010	<b>0.0021</b>	ug/L
Zn	66	439	247	15	5.9	-0.000974	<b>-0.0768</b>	ug/L
Zn	68	213	94	4	4.3	-0.000596	<b>-0.0479</b>	ug/L
Ge	74	202077	206598	3751	1.8	206598.007288		ug/L
As	75	-111	-130	40	31.1	-0.000076	<b>0.0245</b>	ug/L
As-1	75	9698	9549	46	0.5	-0.001761	<b>-0.0148</b>	ug/L
Se	77	129	132	9	6.9	-0.000001	<b>-0.0649</b>	ug/L
Se	82	20	21	8	40.1	-0.000000	<b>0.0375</b>	ug/L
Sr	88	76	82	12	14.1	0.000000	<b>-0.0037</b>	ug/L
Mo	98	130	81	21	25.6	-0.000013	<b>-0.0064</b>	ug/L
Ag	107	40	27	3	11.1	-0.000003	<b>0.0013</b>	ug/L
Ag	109	40	22	9	38.6	-0.000004	<b>0.0015</b>	ug/L
Cd	111	11	23	7	31.3	0.000003	<b>-0.0013</b>	ug/L
Cd	114	77	67	6	8.4	-0.000003	<b>0.0001</b>	ug/L
In	115	4192305	4467557	72399	1.6	4467557.072120		ug/L

Sn	120	978	421	475	113.0	-0.000138	<b>-0.0314</b>	ug/L
Sb	121	126	92	19	21.1	-0.000010	<b>0.0037</b>	ug/L
Cs	133	15	15	5	29.4	-0.000000	<b>0.0006</b>	ug/L
Ba	138	60	30	5	15.3	-0.000008	<b>0.0074</b>	ug/L
Ce	140	18	17	2	11.8	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1254296	7920	0.6	1254296.376238		ug/L
Tl	205	10	16	7	45.3	0.000005	<b>0.0002</b>	ug/L
Pb	208	58	73	6	8.3	0.000012	<b>-0.0006</b>	ug/L
Bi	209	101	48	10	20.4	-0.000041	<b>0.0061</b>	ug/L
Th	232	30	20	4	19.9	-0.000007	<b>0.0108</b>	ug/L
U	238	6	12	3	20.4	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.227
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.237
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	106.566
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	98.757
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-BS1**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:03:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 137

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-BS1.118

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3929	99	2.5	0.006999	<b>2.9208</b>	ug/L
Be	9	25	338	11	3.3	0.000561	<b>1.0678</b>	ug/L
B	11	322	11039	382	3.5	0.019255	<b>21.7641</b>	ug/L
Na	23	3977	2197768	51445	2.3	3.948097	<b>306.5886</b>	ug/L
Mg	24	111	281995	4848	1.7	0.507404	<b>57.1453</b>	ug/L
Al	27	1010	127971	2463	1.9	0.228435	<b>18.7067</b>	ug/L
K	39	430753	1175769	17167	1.5	1.297425	<b>72.6068</b>	ug/L
Ca	44	32562	203420	2146	1.1	0.304268	<b>578.1543</b>	ug/L
Sc	45	525930	555611	11694	2.1	555610.804866		ug/L
Ti	47	944	3705	94	2.5	0.004873	<b>3.8290</b>	ug/L
Ti	48	-2694	29502	321	1.1	0.058229	<b>4.1154</b>	ug/L
V	51	197	28089	777	2.8	0.050178	<b>2.9937</b>	ug/L
Cr	52	7265	31720	544	1.7	0.043282	<b>3.0036</b>	ug/L
Cr	53	117	2927	84	2.9	0.005046	<b>3.0896</b>	ug/L
Mn	55	280	11984	456	3.8	0.021034	<b>0.9920</b>	ug/L
Fe	54	39304	85107	2406	2.8	0.078434	<b>72.4131</b>	ug/L
Fe	57	5552	31439	1045	3.3	0.046018	<b>106.2647</b>	ug/L
Co	59	38	20239	487	2.4	0.036352	<b>2.0953</b>	ug/L
Ni	60	32	9158	317	3.5	0.016420	<b>4.2556</b>	ug/L
Ni	62	114	1580	47	3.0	0.002628	<b>4.3963</b>	ug/L
Cu	65	49	5502	245	4.4	0.024922	<b>2.0945</b>	ug/L
Cu	63	51	10597	239	2.3	0.048226	<b>2.0613</b>	ug/L
Zn	66	439	7203	180	2.5	0.030778	<b>4.6745</b>	ug/L
Zn	68	213	5186	161	3.1	0.022672	<b>4.5317</b>	ug/L
Ge	74	202077	218633	6792	3.1	218633.083973		ug/L
As	75	-111	8425	231	2.7	0.039092	<b>4.2702</b>	ug/L
As-1	75	9698	17773	388	2.2	0.033317	<b>4.1142</b>	ug/L
Se	77	129	894	39	4.4	0.000157	<b>4.7477</b>	ug/L
Se	82	20	1056	10	1.0	0.000217	<b>4.9708</b>	ug/L
Sr	88	76	27032	628	2.3	0.005656	<b>1.0059</b>	ug/L
Mo	98	130	1948	123	6.3	0.000378	<b>0.3308</b>	ug/L
Ag	107	40	4727	99	2.1	0.000983	<b>0.4174</b>	ug/L
Ag	109	40	4511	84	1.9	0.000938	<b>0.4120</b>	ug/L
Cd	111	11	569	43	7.6	0.000117	<b>0.2069</b>	ug/L
Cd	114	77	1341	40	2.9	0.000263	<b>0.2087</b>	ug/L
In	115	4192305	4764028	113494	2.4	4764028.345647		ug/L

Sn	120	978	27795	549	2.0	0.005602	<b>2.6143</b>	ug/L
Sb	121	126	2657	77	2.9	0.000528	<b>0.5105</b>	ug/L
Cs	133	15	28045	370	1.3	0.005884	<b>0.9699</b>	ug/L
Ba	138	60	20024	211	1.1	0.004190	<b>0.8771</b>	ug/L
Ce	140	18	5025	119	2.4	0.001051	<b>0.1972</b>	ug/L
Tm	169	1270088	1322905	18285	1.4	1322905.496040		ug/L
Tl	205	10	2976	60	2.0	0.002242	<b>0.2041</b>	ug/L
Pb	208	58	10181	141	1.4	0.007650	<b>0.5161</b>	ug/L
Bi	209	101	9505	1448	15.2	0.007112	<b>0.5737</b>	ug/L
Th	232	30	4010	820	20.5	0.003011	<b>0.2399</b>	ug/L
U	238	6	4497	153	3.4	0.003395	<b>0.1979</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	105.643
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	108.193
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	113.637
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	104.159
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1232024-02**

**Sample Description: 100x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:07:12

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.05

Autosampler Position: 138

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1232024-02.119

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	57	11	18.6	0.000026	<b>1.9568</b>	ug/L
Be	9	25	30	2	5.1	0.000005	<b>2.9573</b>	ug/L
B	11	322	879	62	7.0	0.000935	<b>110.6411</b>	ug/L
Na	23	3977	648179	27796	4.3	1.132201	<b>8911.1994</b>	ug/L
Mg	24	111	239094	9818	4.1	0.420230	<b>4738.3799</b>	ug/L
Al	27	1010	2671	130	4.9	0.002776	<b>36.0063</b>	ug/L
K	39	430753	521320	8604	1.7	0.098187	<b>647.0927</b>	ug/L
Ca	44	32562	99655	3107	3.1	0.113362	<b>21763.5277</b>	ug/L
Sc	45	525930	568636	20332	3.6	568636.257169		ug/L
Ti	47	944	872	14	1.6	-0.000262	<b>-15.5120</b>	ug/L
Ti	48	-2694	-1396	86	6.2	0.002662	<b>17.8687</b>	ug/L
V	51	197	337	12	3.6	0.000220	<b>1.9389</b>	ug/L
Cr	52	7265	8144	294	3.6	0.000510	<b>2.2468</b>	ug/L
Cr	53	117	145	5	3.2	0.000034	<b>1.3499</b>	ug/L
Mn	55	280	5550	180	3.2	0.009231	<b>43.5833</b>	ug/L
Fe	54	39304	41845	1227	2.9	-0.001133	<b>24.6586</b>	ug/L
Fe	57	5552	6449	324	5.0	0.000783	<b>199.8970</b>	ug/L
Co	59	38	257	7	2.8	0.000380	<b>1.9083</b>	ug/L
Ni	60	32	74	18	24.8	0.000070	<b>1.7818</b>	ug/L
Ni	62	114	182	13	7.2	0.000104	<b>23.1992</b>	ug/L
Cu	65	49	83	4	4.6	0.000128	<b>1.5201</b>	ug/L
Cu	63	51	121	8	6.4	0.000289	<b>1.4048</b>	ug/L
Zn	66	439	6394	123	1.9	0.026343	<b>401.0891</b>	ug/L
Zn	68	213	4656	190	4.1	0.019696	<b>394.6083</b>	ug/L
Ge	74	202077	224459	10663	4.8	224459.232610		ug/L
As	75	-111	-56	54	96.2	0.000303	<b>6.5641</b>	ug/L
As-1	75	9698	9990	244	2.4	-0.003440	<b>-21.2424</b>	ug/L
Se	77	129	148	18	12.4	0.000000	<b>-2.5683</b>	ug/L
Se	82	20	14	20	142.0	-0.000002	<b>0.2524</b>	ug/L
Sr	88	76	35758	1638	4.6	0.007456	<b>132.7184</b>	ug/L
Mo	98	130	264	28	10.8	0.000024	<b>2.5508</b>	ug/L
Ag	107	40	642	25	3.8	0.000125	<b>5.5378</b>	ug/L
Ag	109	40	590	33	5.6	0.000114	<b>5.3123</b>	ug/L
Cd	111	11	61	13	20.6	0.000010	<b>1.2435</b>	ug/L
Cd	114	77	152	4	2.7	0.000013	<b>1.3316</b>	ug/L
In	115	4192305	4783957	196428	4.1	4783957.253095		ug/L

Sn	120	978	1450	642	44.3	0.000067	<b>6.2829</b>	ug/L
Sb	121	126	284	23	8.2	0.000029	<b>4.0294</b>	ug/L
Cs	133	15	31	9	28.8	0.000003	<b>0.1143</b>	ug/L
Ba	138	60	10761	149	1.4	0.002237	<b>47.2400</b>	ug/L
Ce	140	18	37	3	6.7	0.000004	<b>0.0515</b>	ug/L
> Tm	169	1270088	1310043	29946	2.3	1310043.014055		ug/L
Tl	205	10	376	8	2.0	0.000280	<b>2.5264</b>	ug/L
Pb	208	58	416	9	2.2	0.000272	<b>1.6985</b>	ug/L
Bi	209	101	1207	212	17.5	0.000840	<b>7.6012</b>	ug/L
Th	232	30	472	111	23.4	0.000336	<b>3.6879</b>	ug/L
U	238	6	161	8	5.0	0.000118	<b>0.6245</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.120
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.076
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.113
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.146
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-DUP1**

**Sample Description: 100x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:10:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.05

Autosampler Position: 139

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-DUP1.120

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	59	13	22.4	0.000026	<b>1.9405</b>	ug/L
Be	9	25	30	13	43.3	0.000003	<b>2.5680</b>	ug/L
B	11	322	765	23	3.0	0.000684	<b>82.3514</b>	ug/L
Na	23	3977	675441	15936	2.4	1.135946	<b>8940.1181</b>	ug/L
Mg	24	111	245434	4138	1.7	0.415331	<b>4683.5264</b>	ug/L
Al	27	1010	2267	63	2.8	0.001919	<b>29.0373</b>	ug/L
K	39	430753	525171	2446	0.5	0.070197	<b>492.7358</b>	ug/L
Ca	44	32562	102082	1438	1.4	0.110920	<b>21302.4150</b>	ug/L
Sc	45	525930	590626	6962	1.2	590626.485447		ug/L
Ti	47	944	872	29	3.4	-0.000318	<b>-19.8955</b>	ug/L
Ti	48	-2694	-1301	43	3.3	0.002919	<b>19.6919</b>	ug/L
V	51	197	353	16	4.4	0.000224	<b>1.9621</b>	ug/L
Cr	52	7265	8378	67	0.8	0.000371	<b>1.2831</b>	ug/L
Cr	53	117	146	14	9.6	0.000025	<b>0.8271</b>	ug/L
Mn	55	280	5790	133	2.3	0.009271	<b>43.7717</b>	ug/L
Fe	54	39304	43039	873	2.0	-0.001862	<b>-41.4577</b>	ug/L
Fe	57	5552	6715	107	1.6	0.000813	<b>206.7673</b>	ug/L
Co	59	38	266	4	1.3	0.000378	<b>1.8954</b>	ug/L
Ni	60	32	76	8	10.2	0.000068	<b>1.7260</b>	ug/L
Ni	62	114	165	12	7.3	0.000063	<b>16.3965</b>	ug/L
Cu	65	49	80	6	7.1	0.000103	<b>1.3084</b>	ug/L
Cu	63	51	135	9	7.0	0.000324	<b>1.5547</b>	ug/L
Zn	66	439	6492	167	2.6	0.025627	<b>390.3719</b>	ug/L
Zn	68	213	4765	39	0.8	0.019350	<b>387.7874</b>	ug/L
Ge	74	202077	233538	2511	1.1	233537.536003		ug/L
As	75	-111	-57	24	41.6	0.000307	<b>6.6110</b>	ug/L
As-1	75	9698	10228	140	1.4	-0.004187	<b>-30.0359</b>	ug/L
Se	77	129	140	8	5.9	-0.000002	<b>-10.1499</b>	ug/L
Se	82	20	7	11	154.6	-0.000003	<b>-3.4724</b>	ug/L
Sr	88	76	37863	887	2.3	0.007649	<b>136.1776</b>	ug/L
Mo	98	130	180	13	7.5	0.000005	<b>0.9352</b>	ug/L
Ag	107	40	640	35	5.5	0.000120	<b>5.3421</b>	ug/L
Ag	109	40	644	9	1.4	0.000121	<b>5.6157</b>	ug/L
Cd	111	11	52	11	20.9	0.000008	<b>0.8486</b>	ug/L
Cd	114	77	156	6	4.0	0.000013	<b>1.3079</b>	ug/L
In	115	4192305	4937736	24527	0.5	4937736.233855		ug/L



Sn	120	978	1241	984	79.3	0.000017	<b>4.0148</b>	ug/L
Sb	121	126	282	21	7.3	0.000027	<b>3.8154</b>	ug/L
Cs	133	15	24	6	23.2	0.000001	<b>0.0855</b>	ug/L
Ba	138	60	11075	159	1.4	0.002229	<b>47.0712</b>	ug/L
Ce	140	18	41	9	22.8	0.000004	<b>0.0592</b>	ug/L
Tm	169	1270088	1340994	10499	0.8	1340994.254427		ug/L
Tl	205	10	375	5	1.2	0.000272	<b>2.4555</b>	ug/L
Pb	208	58	416	9	2.2	0.000265	<b>1.6488</b>	ug/L
Bi	209	101	319	84	26.3	0.000158	<b>2.1836</b>	ug/L
Th	232	30	113	26	23.1	0.000061	<b>1.5995</b>	ug/L
U	238	6	146	12	8.4	0.000104	<b>0.5425</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.301
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	115.569
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	117.781
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	105.583
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MS1**

**Sample Description: 100x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:14:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.05

Autosampler Position: 140

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MS1.121

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2692	180	6.7	0.004662	<b>194.8470</b>	ug/L
Be	9	25	259	10	3.9	0.000410	<b>78.5373</b>	ug/L
B	11	322	39765	2901	7.3	0.069341	<b>7824.2280</b>	ug/L
Na	23	3977	6549211	405864	6.2	11.521017	<b>89145.8523</b>	ug/L
Mg	24	111	8306183	611304	7.4	14.611761	<b>163650.6379</b>	ug/L
Al	27	1010	2825770	211396	7.5	4.968861	<b>40411.4805</b>	ug/L
K	39	430753	9016840	624178	6.9	15.047205	<b>83088.2800</b>	ug/L
Ca	44	32562	563439	37921	6.7	0.929566	<b>175900.7913</b>	ug/L
Sc	45	525930	568439	41330	7.3	568439.174260		ug/L
Ti	47	944	6778	468	6.9	0.010132	<b>790.9083</b>	ug/L
Ti	48	-2694	64883	5944	9.2	0.119157	<b>843.1876</b>	ug/L
V	51	197	38238	3293	8.6	0.066855	<b>398.6583</b>	ug/L
Cr	52	7265	171863	14308	8.3	0.288387	<b>2008.7210</b>	ug/L
Cr	53	117	19216	1760	9.2	0.033551	<b>2058.1634</b>	ug/L
Mn	55	280	243678	20591	8.5	0.427891	<b>2016.4954</b>	ug/L
Fe	54	39304	291027	27331	9.4	0.436701	<b>39735.6079</b>	ug/L
Fe	57	5552	108475	9856	9.1	0.180107	<b>41533.1768</b>	ug/L
Co	59	38	41003	3694	9.0	0.071999	<b>415.2667</b>	ug/L
Ni	60	32	18230	1528	8.4	0.031992	<b>829.1789</b>	ug/L
Ni	62	114	3004	265	8.8	0.005066	<b>841.8484</b>	ug/L
Cu	65	49	21385	1902	8.9	0.094662	<b>794.3368</b>	ug/L
Cu	63	51	42869	3886	9.1	0.189971	<b>811.4631</b>	ug/L
Zn	66	439	65868	5468	8.3	0.290261	<b>4350.3046</b>	ug/L
Zn	68	213	50134	3783	7.5	0.221644	<b>4369.3755</b>	ug/L
Ge	74	202077	225414	21188	9.4	225413.604820		ug/L
As	75	-111	16475	1459	8.9	0.073664	<b>801.7704</b>	ug/L
As-1	75	9698	25800	1765	6.8	0.066662	<b>803.9090</b>	ug/L
Se	77	129	1426	125	8.7	0.000259	<b>784.9910</b>	ug/L
Se	82	20	1823	167	9.1	0.000365	<b>834.2257</b>	ug/L
Sr	88	76	254602	25873	10.2	0.051669	<b>921.9800</b>	ug/L
Mo	98	130	23392	1518	6.5	0.004727	<b>407.9344</b>	ug/L
Ag	107	40	19966	1769	8.9	0.004046	<b>171.0122</b>	ug/L
Ag	109	40	19236	1542	8.0	0.003900	<b>170.2624</b>	ug/L
Cd	111	11	2291	175	7.6	0.000463	<b>83.7384</b>	ug/L
Cd	114	77	5207	362	7.0	0.001040	<b>81.6918</b>	ug/L
In	115	4192305	4919439	368408	7.5	4919439.293457		ug/L

Sn	120	978	22181	1827	8.2	0.004274	<b>200.2115</b>	ug/L
Sb	121	126	3906	135	3.5	0.000766	<b>73.5722</b>	ug/L
Cs	133	15	56947	2784	4.9	0.011588	<b>190.9501</b>	ug/L
Ba	138	60	413787	21448	5.2	0.084201	<b>1745.4040</b>	ug/L
Ce	140	18	20006	905	4.5	0.004069	<b>76.3957</b>	ug/L
> Tm	169	1270088	1357877	49272	3.6	1357876.745231		ug/L
Tl	205	10	6557	273	4.2	0.004821	<b>43.9220</b>	ug/L
Pb	208	58	40895	2018	4.9	0.030061	<b>203.2356</b>	ug/L
Bi	209	101	324694	14568	4.5	0.238994	<b>1897.2610</b>	ug/L
Th	232	30	7037	324	4.6	0.005162	<b>40.3203</b>	ug/L
U	238	6	9427	574	6.1	0.006934	<b>40.4950</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.083
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.548
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.344
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.912
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MSD1**

**Sample Description: 100x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:18:30

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.05

Autosampler Position: 141

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MSD1.122

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2727	92	3.4	0.004568	<b>190.9420</b>	ug/L
Be	9	25	272	5	1.8	0.000417	<b>79.8854</b>	ug/L
B	11	322	41250	428	1.0	0.069637	<b>7857.5127</b>	ug/L
Na	23	3977	6769276	28210	0.4	11.521327	<b>89148.2465</b>	ug/L
Mg	24	111	8618088	14221	0.2	14.678016	<b>164392.5343</b>	ug/L
Al	27	1010	2931267	28127	1.0	4.990011	<b>40583.4346</b>	ug/L
K	39	430753	9273931	143744	1.5	14.972894	<b>82678.4701</b>	ug/L
Ca	44	32562	579848	8602	1.5	0.925502	<b>175133.3929</b>	ug/L
Sc	45	525930	587341	13879	2.4	587340.654317		ug/L
Ti	47	944	6995	207	3.0	0.010113	<b>789.4502</b>	ug/L
Ti	48	-2694	68098	157	0.2	0.121104	<b>856.9791</b>	ug/L
V	51	197	39302	416	1.1	0.066555	<b>396.8702</b>	ug/L
Cr	52	7265	176060	1288	0.7	0.286022	<b>1992.2371</b>	ug/L
Cr	53	117	19756	342	1.7	0.033430	<b>2050.7185</b>	ug/L
Mn	55	280	246066	3524	1.4	0.418500	<b>1972.2426</b>	ug/L
Fe	54	39304	296073	3233	1.1	0.429462	<b>39079.1132</b>	ug/L
Fe	57	5552	110113	527	0.5	0.176975	<b>40811.4471</b>	ug/L
Co	59	38	42092	207	0.5	0.071622	<b>413.0957</b>	ug/L
Ni	60	32	18863	284	1.5	0.032074	<b>831.3002</b>	ug/L
Ni	62	114	3076	124	4.0	0.005020	<b>834.3152</b>	ug/L
Cu	65	49	22197	359	1.6	0.095939	<b>805.0479</b>	ug/L
Cu	63	51	44116	291	0.7	0.190860	<b>815.2611</b>	ug/L
Zn	66	439	68491	559	0.8	0.294536	<b>4414.2705</b>	ug/L
Zn	68	213	51453	358	0.7	0.221853	<b>4373.4744</b>	ug/L
Ge	74	202077	230858	3536	1.5	230857.593983		ug/L
As	75	-111	16700	356	2.1	0.072890	<b>793.3809</b>	ug/L
As-1	75	9698	26295	221	0.8	0.065918	<b>795.1545</b>	ug/L
Se	77	129	1535	35	2.3	0.000268	<b>813.7637</b>	ug/L
Se	82	20	1883	107	5.7	0.000362	<b>826.5381</b>	ug/L
Sr	88	76	268739	2518	0.9	0.052355	<b>934.2231</b>	ug/L
Mo	98	130	25125	467	1.9	0.004865	<b>419.8456</b>	ug/L
Ag	107	40	20717	330	1.6	0.004028	<b>170.2286</b>	ug/L
Ag	109	40	20133	141	0.7	0.003914	<b>170.8875</b>	ug/L
Cd	111	11	2356	5	0.2	0.000457	<b>82.5744</b>	ug/L
Cd	114	77	5473	46	0.8	0.001048	<b>82.3195</b>	ug/L
In	115	4192305	5131710	72751	1.4	5131710.110866		ug/L

Sn	120	978	22728	842	3.7	0.004195	<b>196.5688</b>	ug/L
Sb	121	126	4679	195	4.2	0.000882	<b>84.4854</b>	ug/L
Cs	133	15	59031	131	0.2	0.011501	<b>189.5118</b>	ug/L
Ba	138	60	428578	2386	0.6	0.083508	<b>1731.0578</b>	ug/L
Ce	140	18	20881	114	0.5	0.004065	<b>76.3290</b>	ug/L
> Tm	169	1270088	1399794	7903	0.6	1399793.941241		ug/L
Tl	205	10	6774	133	2.0	0.004831	<b>44.0164</b>	ug/L
Pb	208	58	42080	440	1.0	0.030016	<b>202.9286</b>	ug/L
Bi	209	101	334787	3042	0.9	0.239094	<b>1898.0565</b>	ug/L
Th	232	30	7559	373	4.9	0.005377	<b>41.9494</b>	ug/L
U	238	6	9666	228	2.4	0.006900	<b>40.3002</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.677
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.243
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	122.408
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	110.212
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCV5

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 19:22:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV5.123

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3189	7	0.2	0.005528	<b>2.3087</b>	ug/L
Be	9	25	304	20	6.6	0.000486	<b>0.9287</b>	ug/L
B	11	322	25332	199	0.8	0.043889	<b>49.5424</b>	ug/L
Na	23	3977	3598933	29750	0.8	6.314965	<b>489.3860</b>	ug/L
Mg	24	111	966910	16199	1.7	1.698197	<b>190.4865</b>	ug/L
Al	27	1010	331219	4158	1.3	0.579970	<b>47.2873</b>	ug/L
K	39	430753	1389083	24858	1.8	1.620965	<b>90.4495</b>	ug/L
Ca	44	32562	311864	3951	1.3	0.485915	<b>921.1886</b>	ug/L
Sc	45	525930	569401	14522	2.6	569401.204166		ug/L
Ti	47	944	4514	26	0.6	0.006135	<b>4.8081</b>	ug/L
Ti	48	-2694	38408	682	1.8	0.072585	<b>5.1325</b>	ug/L
V	51	197	47549	446	0.9	0.083157	<b>4.9571</b>	ug/L
Cr	52	7265	107939	1380	1.3	0.175807	<b>12.2405</b>	ug/L
Cr	53	117	11534	309	2.7	0.020037	<b>12.2886</b>	ug/L
Mn	55	280	30535	820	2.7	0.053093	<b>2.5028</b>	ug/L
Fe	54	39304	192088	2115	1.1	0.262706	<b>239.5449</b>	ug/L
Fe	57	5552	68738	2793	4.1	0.110132	<b>254.0445</b>	ug/L
Co	59	38	25207	307	1.2	0.044209	<b>2.5488</b>	ug/L
Ni	60	32	11279	134	1.2	0.019754	<b>5.1197</b>	ug/L
Ni	62	114	1869	48	2.6	0.003067	<b>5.1199</b>	ug/L
Cu	65	49	13360	278	2.1	0.058726	<b>4.9296</b>	ug/L
Cu	63	51	26083	488	1.9	0.114866	<b>4.9072</b>	ug/L
Zn	66	439	7999	150	1.9	0.033133	<b>5.0269</b>	ug/L
Zn	68	213	5985	163	2.7	0.025357	<b>5.0601</b>	ug/L
Ge	74	202077	226609	4974	2.2	226609.457731		ug/L
As	75	-111	10568	351	3.3	0.047188	<b>5.1478</b>	ug/L
As-1	75	9698	19965	253	1.3	0.040138	<b>4.9170</b>	ug/L
Se	77	129	1785	65	3.6	0.000320	<b>9.6963</b>	ug/L
Se	82	20	2306	35	1.5	0.000448	<b>10.2192</b>	ug/L
Sr	88	76	139015	2167	1.6	0.027282	<b>4.8665</b>	ug/L
Mo	98	130	3600	97	2.7	0.000676	<b>0.5875</b>	ug/L
Ag	107	40	12328	335	2.7	0.002411	<b>1.0203</b>	ug/L
Ag	109	40	11701	114	1.0	0.002289	<b>1.0006</b>	ug/L
Cd	111	11	1385	44	3.2	0.000269	<b>0.4847</b>	ug/L
Cd	114	77	3229	48	1.5	0.000616	<b>0.4847</b>	ug/L
In	115	4192305	5092177	90723	1.8	5092177.045081		ug/L

Sn	120	978	27709	353	1.3	0.005208	<b>2.4328</b>	ug/L
Sb	121	126	5193	176	3.4	0.000990	<b>0.9468</b>	ug/L
Cs	133	15	72593	895	1.2	0.014253	<b>2.3485</b>	ug/L
Ba	138	60	52918	515	1.0	0.010379	<b>2.1593</b>	ug/L
Ce	140	18	12583	269	2.1	0.002467	<b>0.4631</b>	ug/L
> Tm	169	1270088	1380705	17361	1.3	1380704.738227		ug/L
Tl	205	10	3769	99	2.6	0.002722	<b>0.2479</b>	ug/L
Pb	208	58	50873	819	1.6	0.036799	<b>2.4882</b>	ug/L
Bi	209	101	43434	556	1.3	0.031380	<b>2.4992</b>	ug/L
Th	232	30	9026	344	3.8	0.006516	<b>0.5060</b>	ug/L
U	238	6	11544	209	1.8	0.008357	<b>0.4882</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.266
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.140
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	121.465
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	108.709
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB5**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 19:26:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB5.124

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	42	1	1.4	0.000002	<b>0.0096</b>	ug/L
Be	9	25	30	8	26.0	0.000008	<b>0.0352</b>	ug/L
B	11	322	857	23	2.6	0.000967	<b>1.1423</b>	ug/L
Na	23	3977	5963	436	7.3	0.003429	<b>1.9349</b>	ug/L
Mg	24	111	258	83	32.2	0.000264	<b>0.3573</b>	ug/L
Al	27	1010	1013	35	3.4	-0.000053	<b>0.1301</b>	ug/L
K	39	430753	425180	2184	0.5	-0.035729	<b>-0.9143</b>	ug/L
Ca	44	32562	29242	276	0.9	-0.008039	<b>-11.6275</b>	ug/L
Sc	45	525930	542847	5075	0.9	542846.521222		ug/L
Ti	47	944	895	23	2.6	-0.000147	<b>-0.0656</b>	ug/L
Ti	48	-2694	-2434	28	1.2	0.000638	<b>0.0353</b>	ug/L
V	51	197	174	17	9.8	-0.000053	<b>0.0031</b>	ug/L
Cr	52	7265	7849	57	0.7	0.000645	<b>0.0319</b>	ug/L
Cr	53	117	117	6	5.4	-0.000006	<b>-0.0110</b>	ug/L
Mn	55	280	282	9	3.3	-0.000012	<b>0.0003</b>	ug/L
Fe	54	39304	40020	279	0.7	-0.001006	<b>0.3622</b>	ug/L
Fe	57	5552	6066	86	1.4	0.000617	<b>1.6179</b>	ug/L
Co	59	38	47	7	14.9	0.000014	<b>-0.0020</b>	ug/L
Ni	60	32	44	2	4.8	0.000021	<b>0.0051</b>	ug/L
Ni	62	114	164	3	2.0	0.000085	<b>0.2013</b>	ug/L
Cu	65	49	58	4	6.1	0.000030	<b>0.0070</b>	ug/L
Cu	63	51	84	16	19.0	0.000141	<b>0.0077</b>	ug/L
Zn	66	439	399	9	2.4	-0.000296	<b>0.0246</b>	ug/L
Zn	68	213	186	13	7.0	-0.000176	<b>0.0347</b>	ug/L
Ge	74	202077	212660	3336	1.6	212660.313522		ug/L
As	75	-111	-185	42	22.6	-0.000318	<b>-0.0016</b>	ug/L
As-1	75	9698	9870	61	0.6	-0.001568	<b>0.0078</b>	ug/L
Se	77	129	158	8	5.2	0.000002	<b>0.0226</b>	ug/L
Se	82	20	15	11	74.6	-0.000002	<b>0.0015</b>	ug/L
Sr	88	76	86	3	3.1	-0.000000	<b>-0.0038</b>	ug/L
Mo	98	130	293	85	28.9	0.000029	<b>0.0299</b>	ug/L
Ag	107	40	52	13	25.8	0.000001	<b>0.0032</b>	ug/L
Ag	109	40	58	11	19.0	0.000002	<b>0.0045</b>	ug/L
Cd	111	11	19	1	3.0	0.000001	<b>-0.0033</b>	ug/L
Cd	114	77	60	9	14.5	-0.000006	<b>-0.0019</b>	ug/L
In	115	4192305	4864931	68130	1.4	4864930.771847		ug/L

Sn	120	978	784	647	82.5	-0.000073	<b>-0.0015</b>	ug/L
Sb	121	126	770	52	6.7	0.000128	<b>0.1336</b>	ug/L
Cs	133	15	32	6	18.6	0.000003	<b>0.0012</b>	ug/L
Ba	138	60	88	13	15.0	0.000004	<b>0.0098</b>	ug/L
Ce	140	18	23	4	16.2	0.000001	<b>-0.0001</b>	ug/L
> Tm	169	1270088	1325229	7489	0.6	1325228.581616		ug/L
Tl	205	10	13	4	27.7	0.000002	<b>-0.0001</b>	ug/L
Pb	208	58	79	2	2.5	0.000014	<b>-0.0005</b>	ug/L
Bi	209	101	826	172	20.9	0.000544	<b>0.0525</b>	ug/L
Th	232	30	279	63	22.6	0.000187	<b>0.0256</b>	ug/L
U	238	6	13	4	32.9	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.216
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	105.237
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	116.044
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.341
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1232024-02RE1**

**Sample Description: 10x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:29:54

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 142

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1232024-02RE1.125

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	224	9	4.0	0.000325	<b>1.4383</b>	ug/L
Be	9	25	46	9	18.6	0.000035	<b>0.8555</b>	ug/L
B	11	322	870	31	3.6	0.000937	<b>11.0844</b>	ug/L
Na	23	3977	6955700	182739	2.6	12.372933	<b>9572.5346</b>	ug/L
Mg	24	111	2566034	52541	2.0	4.567326	<b>5117.6241</b>	ug/L
Al	27	1010	11805	53	0.5	0.019099	<b>16.8721</b>	ug/L
K	39	430753	1313074	20556	1.6	1.518394	<b>847.9287</b>	ug/L
Ca	44	32562	739821	11781	1.6	1.255088	<b>23737.4501</b>	ug/L
Sc	45	525930	561799	11544	2.1	561799.167229		ug/L
Ti	47	944	1018	18	1.8	0.000018	<b>0.6183</b>	ug/L
Ti	48	-2694	6704	774	11.5	0.017045	<b>11.9769</b>	ug/L
V	51	197	1985	46	2.3	0.003160	<b>1.9441</b>	ug/L
Cr	52	7265	9880	285	2.9	0.003771	<b>2.4979</b>	ug/L
Cr	53	117	362	8	2.1	0.000423	<b>2.5267</b>	ug/L
Mn	55	280	53007	1513	2.9	0.093810	<b>44.2156</b>	ug/L
Fe	54	39304	42873	1184	2.8	0.001577	<b>27.0507</b>	ug/L
Fe	57	5552	7574	329	4.3	0.002921	<b>69.2715</b>	ug/L
Co	59	38	2159	10	0.5	0.003772	<b>2.1484</b>	ug/L
Ni	60	32	421	28	6.6	0.000688	<b>1.7807</b>	ug/L
Ni	62	114	237	18	7.7	0.000206	<b>4.0015</b>	ug/L
Cu	65	49	412	16	3.8	0.001615	<b>1.3985</b>	ug/L
Cu	63	51	786	24	3.0	0.003290	<b>1.4222</b>	ug/L
Zn	66	439	60136	1483	2.5	0.268929	<b>403.1096</b>	ug/L
Zn	68	213	45065	884	2.0	0.202113	<b>398.4965</b>	ug/L
Ge	74	202077	221811	4233	1.9	221811.367862		ug/L
As	75	-111	862	42	4.9	0.004434	<b>5.1345</b>	ug/L
As-1	75	9698	10711	168	1.6	0.000301	<b>2.2785</b>	ug/L
Se	77	129	141	14	9.8	-0.000003	<b>-1.0909</b>	ug/L
Se	82	20	19	7	35.6	-0.000001	<b>0.1940</b>	ug/L
Sr	88	76	366039	5295	1.4	0.073099	<b>130.4517</b>	ug/L
Mo	98	130	813	34	4.2	0.000131	<b>1.1816</b>	ug/L
Ag	107	40	6198	148	2.4	0.001228	<b>5.2108</b>	ug/L
Ag	109	40	5992	157	2.6	0.001187	<b>5.2071</b>	ug/L
Cd	111	11	404	15	3.8	0.000078	<b>1.3625</b>	ug/L
Cd	114	77	1003	15	1.5	0.000182	<b>1.4520</b>	ug/L
In	115	4192305	5006616	91083	1.8	5006615.931297		ug/L

Sn	120	978	4318	597	13.8	0.000630	<b>3.2267</b>	ug/L
Sb	121	126	2287	133	5.8	0.000427	<b>4.1512</b>	ug/L
Cs	133	15	44	9	21.3	0.000005	<b>0.0152</b>	ug/L
Ba	138	60	114245	1143	1.0	0.022808	<b>47.3436</b>	ug/L
Ce	140	18	282	3	1.2	0.000052	<b>0.0963</b>	ug/L
Tm	169	1270088	1374553	13412	1.0	1374552.738088		ug/L
Tl	205	10	3630	20	0.6	0.002634	<b>2.3982</b>	ug/L
Pb	208	58	3509	97	2.8	0.002506	<b>1.6816</b>	ug/L
Bi	209	101	354	133	37.5	0.000178	<b>0.2341</b>	ug/L
Th	232	30	116	26	22.6	0.000061	<b>0.1603</b>	ug/L
U	238	6	1382	48	3.5	0.001001	<b>0.5787</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	106.820
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	109.766
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	119.424
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.225
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-DUP2**

**Sample Description: 10x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:33:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 143

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-DUP2.126

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	222	8	3.5	0.000311	<b>1.3801</b>	ug/L
Be	9	25	42	16	38.8	0.000027	<b>0.6943</b>	ug/L
B	11	322	849	24	2.8	0.000862	<b>10.2382</b>	ug/L
Na	23	3977	7116094	125299	1.8	12.345473	<b>9551.3267</b>	ug/L
Mg	24	111	2645449	18649	0.7	4.592158	<b>5145.4305</b>	ug/L
Al	27	1010	12159	219	1.8	0.019187	<b>16.9434</b>	ug/L
K	39	430753	1335195	27778	2.1	1.498763	<b>837.1026</b>	ug/L
Ca	44	32562	754719	3867	0.5	1.248239	<b>23608.1080</b>	ug/L
Sc	45	525930	576053	849	0.1	576052.546701		ug/L
Ti	47	944	995	26	2.6	-0.000068	<b>-0.0487</b>	ug/L
Ti	48	-2694	6725	544	8.1	0.016795	<b>11.7997</b>	ug/L
V	51	197	2029	17	0.8	0.003149	<b>1.9375</b>	ug/L
Cr	52	7265	9981	96	1.0	0.003512	<b>2.3175</b>	ug/L
Cr	53	117	388	16	4.2	0.000452	<b>2.7040</b>	ug/L
Mn	55	280	53426	888	1.7	0.092212	<b>43.4627</b>	ug/L
Fe	54	39304	43539	391	0.9	0.000849	<b>20.4415</b>	ug/L
Fe	57	5552	7866	96	1.2	0.003097	<b>73.3348</b>	ug/L
Co	59	38	2223	89	4.0	0.003787	<b>2.1571</b>	ug/L
Ni	60	32	418	14	3.3	0.000666	<b>1.7213</b>	ug/L
Ni	62	114	247	22	9.0	0.000213	<b>4.1220</b>	ug/L
Cu	65	49	407	23	5.6	0.001556	<b>1.3492</b>	ug/L
Cu	63	51	781	50	6.4	0.003197	<b>1.3824</b>	ug/L
Zn	66	439	61575	1056	1.7	0.269752	<b>404.3415</b>	ug/L
Zn	68	213	45859	421	0.9	0.201467	<b>397.2244</b>	ug/L
Ge	74	202077	226448	2501	1.1	226447.851573		ug/L
As	75	-111	849	17	2.0	0.004300	<b>4.9885</b>	ug/L
As-1	75	9698	10822	42	0.4	-0.000195	<b>1.6950</b>	ug/L
Se	77	129	145	17	11.7	-0.000002	<b>-1.0161</b>	ug/L
Se	82	20	12	7	56.4	-0.000002	<b>-0.1311</b>	ug/L
Sr	88	76	379649	6016	1.6	0.074429	<b>132.8274</b>	ug/L
Mo	98	130	803	24	2.9	0.000126	<b>1.1378</b>	ug/L
Ag	107	40	6375	148	2.3	0.001241	<b>5.2620</b>	ug/L
Ag	109	40	6026	59	1.0	0.001172	<b>5.1421</b>	ug/L
Cd	111	11	406	7	1.7	0.000077	<b>1.3432</b>	ug/L
Cd	114	77	993	21	2.1	0.000176	<b>1.4082</b>	ug/L
In	115	4192305	5099622	78478	1.5	5099621.610136		ug/L

Sn	120	978	4295	779	18.1	0.000608	<b>3.1235</b>	ug/L
Sb	121	126	2225	110	5.0	0.000406	<b>3.9576</b>	ug/L
Cs	133	15	43	6	13.3	0.000005	<b>0.0146</b>	ug/L
Ba	138	60	116314	1199	1.0	0.022795	<b>47.3181</b>	ug/L
Ce	140	18	277	10	3.8	0.000050	<b>0.0923</b>	ug/L
Tm	169	1270088	1395444	11041	0.8	1395443.813828		ug/L
Tl	205	10	3727	34	0.9	0.002664	<b>2.4256</b>	ug/L
Pb	208	58	3558	53	1.5	0.002504	<b>1.6798</b>	ug/L
Bi	209	101	237	91	38.3	0.000090	<b>0.1646</b>	ug/L
Th	232	30	81	15	17.9	0.000035	<b>0.1401</b>	ug/L
U	238	6	1406	52	3.7	0.001003	<b>0.5797</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	109.530
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	112.060
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	121.642
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	109.870
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MS2**

**Sample Description: 10x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:37:26

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 144

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MS2.127

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2798	82	2.9	0.004755	<b>19.8697</b>	ug/L
Be	9	25	287	23	8.1	0.000449	<b>8.5904</b>	ug/L
B	11	322	41191	125	0.3	0.070494	<b>795.4251</b>	ug/L
Na	23	3977	13211338	95876	0.7	22.799553	<b>17625.1970</b>	ug/L
Mg	24	111	10893354	44830	0.4	18.804414	<b>21059.8624</b>	ug/L
Al	27	1010	2908371	8392	0.3	5.018668	<b>4081.6429</b>	ug/L
K	39	430753	10097163	41991	0.4	16.611539	<b>9171.5309</b>	ug/L
Ca	44	32562	1210915	4576	0.4	2.028460	<b>38342.3149</b>	ug/L
Sc	45	525930	579301	4173	0.7	579301.093871		ug/L
Ti	47	944	7000	66	0.9	0.010288	<b>80.3058</b>	ug/L
Ti	48	-2694	74323	3534	4.8	0.133408	<b>94.4151</b>	ug/L
V	51	197	40323	677	1.7	0.069230	<b>41.2797</b>	ug/L
Cr	52	7265	173605	1938	1.1	0.285875	<b>199.1208</b>	ug/L
Cr	53	117	19615	313	1.6	0.033638	<b>206.3513</b>	ug/L
Mn	55	280	290280	864	0.3	0.500572	<b>235.9002</b>	ug/L
Fe	54	39304	293863	779	0.3	0.432552	<b>3935.9324</b>	ug/L
Fe	57	5552	111441	1019	0.9	0.181825	<b>4192.9333</b>	ug/L
Co	59	38	42899	305	0.7	0.073983	<b>42.6717</b>	ug/L
Ni	60	32	18731	222	1.2	0.032274	<b>83.6474</b>	ug/L
Ni	62	114	3057	58	1.9	0.005062	<b>84.1149</b>	ug/L
Cu	65	49	21827	67	0.3	0.095155	<b>79.8475</b>	ug/L
Cu	63	51	43272	121	0.3	0.188874	<b>80.6779</b>	ug/L
Zn	66	439	120054	1067	0.9	0.522513	<b>782.5676</b>	ug/L
Zn	68	213	90495	20	0.0	0.394467	<b>777.0893</b>	ug/L
Ge	74	202077	228814	2221	1.0	228814.298086		ug/L
As	75	-111	17500	209	1.2	0.077042	<b>83.8386</b>	ug/L
As-1	75	9698	26675	178	0.7	0.068590	<b>82.6606</b>	ug/L
Se	77	129	1536	25	1.6	0.000267	<b>80.9535</b>	ug/L
Se	82	20	1875	71	3.8	0.000359	<b>81.9038</b>	ug/L
Sr	88	76	591973	16949	2.9	0.114728	<b>204.7649</b>	ug/L
Mo	98	130	24893	162	0.6	0.004795	<b>41.3750</b>	ug/L
Ag	107	40	26655	320	1.2	0.005158	<b>21.7913</b>	ug/L
Ag	109	40	25781	466	1.8	0.004988	<b>21.7690</b>	ug/L
Cd	111	11	2742	38	1.4	0.000529	<b>9.5734</b>	ug/L
Cd	114	77	6286	174	2.8	0.001200	<b>9.4198</b>	ug/L
In	115	4192305	5158545	32639	0.6	5158545.075351		ug/L

Sn	120	978	26364	641	2.4	0.004877	<b>22.7999</b>	ug/L
Sb	121	126	5808	160	2.8	0.001096	<b>10.4662</b>	ug/L
Cs	133	15	60255	720	1.2	0.011677	<b>19.2416</b>	ug/L
Ba	138	60	538895	5319	1.0	0.104452	<b>216.4969</b>	ug/L
Ce	140	18	21481	227	1.1	0.004160	<b>7.8109</b>	ug/L
Tm	169	1270088	1409124	6348	0.5	1409124.421435		ug/L
Tl	205	10	10000	126	1.3	0.007089	<b>6.4599</b>	ug/L
Pb	208	58	45271	254	0.6	0.032081	<b>21.6901</b>	ug/L
Bi	209	101	330578	3765	1.1	0.234528	<b>186.1826</b>	ug/L
Th	232	30	6931	408	5.9	0.004896	<b>3.8302</b>	ug/L
U	238	6	10826	59	0.5	0.007678	<b>4.4849</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	110.148
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	113.231
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	123.048
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	110.947
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MSD2**

**Sample Description: 10x**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:41:12

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 145

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MSD2.128

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2837	12	0.4	0.004876	<b>20.3764</b>	ug/L
Be	9	25	261	9	3.3	0.000409	<b>7.8462</b>	ug/L
B	11	322	40349	432	1.1	0.069803	<b>787.6309</b>	ug/L
Na	23	3977	13130526	216029	1.6	22.907375	<b>17708.4700</b>	ug/L
Mg	24	111	10850878	86139	0.8	18.936224	<b>21207.4592</b>	ug/L
Al	27	1010	2880916	33029	1.1	5.025679	<b>4087.3424</b>	ug/L
K	39	430753	10043141	182860	1.8	16.707332	<b>9224.3590</b>	ug/L
Ca	44	32562	1216075	15502	1.3	2.060341	<b>38944.3686</b>	ug/L
Sc	45	525930	573015	3861	0.7	573015.122642		ug/L
Ti	47	944	6963	28	0.4	0.010356	<b>80.8272</b>	ug/L
Ti	48	-2694	73817	1128	1.5	0.133948	<b>94.7971</b>	ug/L
V	51	197	39986	224	0.6	0.069412	<b>41.3880</b>	ug/L
Cr	52	7265	174113	761	0.4	0.290055	<b>202.0346</b>	ug/L
Cr	53	117	19300	57	0.3	0.033461	<b>205.2620</b>	ug/L
Mn	55	280	289327	5401	1.9	0.504369	<b>237.6892</b>	ug/L
Fe	54	39304	293766	6514	2.2	0.437913	<b>3984.5542</b>	ug/L
Fe	57	5552	110139	1294	1.2	0.181648	<b>4188.8371</b>	ug/L
Co	59	38	42416	536	1.3	0.073948	<b>42.6517</b>	ug/L
Ni	60	32	18501	290	1.6	0.032225	<b>83.5217</b>	ug/L
Ni	62	114	3124	34	1.1	0.005235	<b>86.9694</b>	ug/L
Cu	65	49	21401	491	2.3	0.094596	<b>79.3787</b>	ug/L
Cu	63	51	43115	812	1.9	0.190834	<b>81.5147</b>	ug/L
Zn	66	439	120225	3154	2.6	0.530579	<b>794.6382</b>	ug/L
Zn	68	213	90708	1765	1.9	0.400933	<b>789.8157</b>	ug/L
Ge	74	202077	225688	6180	2.7	225687.759077		ug/L
As	75	-111	17441	138	0.8	0.077862	<b>84.7271</b>	ug/L
As-1	75	9698	26664	273	1.0	0.070195	<b>84.5500</b>	ug/L
Se	77	129	1496	51	3.4	0.000257	<b>77.8399</b>	ug/L
Se	82	20	1871	64	3.4	0.000355	<b>80.9854</b>	ug/L
Sr	88	76	595359	8262	1.4	0.114396	<b>204.1722</b>	ug/L
Mo	98	130	25576	496	1.9	0.004884	<b>42.1472</b>	ug/L
Ag	107	40	26140	240	0.9	0.005014	<b>21.1849</b>	ug/L
Ag	109	40	25380	277	1.1	0.004868	<b>21.2447</b>	ug/L
Cd	111	11	2736	84	3.1	0.000523	<b>9.4718</b>	ug/L
Cd	114	77	6314	58	0.9	0.001195	<b>9.3801</b>	ug/L
In	115	4192305	5203776	40106	0.8	5203775.638191		ug/L



Sn	120	978	26581	685	2.6	0.004874	<b>22.7869</b>	ug/L
Sb	121	126	6430	273	4.2	0.001206	<b>11.5026</b>	ug/L
Cs	133	15	60558	287	0.5	0.011634	<b>19.1712</b>	ug/L
Ba	138	60	542580	3932	0.7	0.104253	<b>216.0856</b>	ug/L
Ce	140	18	21374	51	0.2	0.004103	<b>7.7045</b>	ug/L
Tm	169	1270088	1407150	7294	0.5	1407150.181700		ug/L
Tl	205	10	9964	57	0.6	0.007074	<b>6.4460</b>	ug/L
Pb	208	58	44838	366	0.8	0.031819	<b>21.5128</b>	ug/L
Bi	209	101	333288	1758	0.5	0.236775	<b>187.9656</b>	ug/L
Th	232	30	7552	239	3.2	0.005344	<b>4.1701</b>	ug/L
U	238	6	10845	181	1.7	0.007702	<b>4.4992</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	108.953
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	111.684
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	124.127
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	110.792
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV6**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 19:45:00

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV6.129

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3171	6	0.2	0.005647	<b>2.3580</b>	ug/L
Be	9	25	298	17	5.8	0.000490	<b>0.9360</b>	ug/L
B	11	322	24483	246	1.0	0.043564	<b>49.1753</b>	ug/L
Na	23	3977	3578945	24109	0.7	6.450186	<b>499.8293</b>	ug/L
Mg	24	111	951219	3606	0.4	1.716116	<b>192.4931</b>	ug/L
Al	27	1010	327991	4106	1.3	0.589907	<b>48.0953</b>	ug/L
K	39	430753	1371924	13059	1.0	1.656433	<b>92.4055</b>	ug/L
Ca	44	32562	307835	2405	0.8	0.493537	<b>935.5822</b>	ug/L
Sc	45	525930	554233	2984	0.5	554232.773549		ug/L
Ti	47	944	4380	54	1.2	0.006108	<b>4.7869</b>	ug/L
Ti	48	-2694	36701	563	1.5	0.071338	<b>5.0441</b>	ug/L
V	51	197	46271	78	0.2	0.083114	<b>4.9546</b>	ug/L
Cr	52	7265	105596	607	0.6	0.176718	<b>12.3040</b>	ug/L
Cr	53	117	11629	170	1.5	0.020761	<b>12.7330</b>	ug/L
Mn	55	280	29619	318	1.1	0.052911	<b>2.4942</b>	ug/L
Fe	54	39304	188702	1916	1.0	0.265760	<b>242.3155</b>	ug/L
Fe	57	5552	66200	1020	1.5	0.108888	<b>251.1771</b>	ug/L
Co	59	38	24299	351	1.4	0.043771	<b>2.5235</b>	ug/L
Ni	60	32	11050	196	1.8	0.019877	<b>5.1516</b>	ug/L
Ni	62	114	1839	41	2.2	0.003102	<b>5.1783</b>	ug/L
Cu	65	49	13115	168	1.3	0.058865	<b>4.9412</b>	ug/L
Cu	63	51	25718	526	2.0	0.115649	<b>4.9406</b>	ug/L
Zn	66	439	7700	217	2.8	0.032527	<b>4.9362</b>	ug/L
Zn	68	213	5817	177	3.0	0.025158	<b>5.0211</b>	ug/L
Ge	74	202077	221886	2349	1.1	221886.052534		ug/L
As	75	-111	10314	322	3.1	0.047045	<b>5.1323</b>	ug/L
As-1	75	9698	19218	71	0.4	0.038626	<b>4.7390</b>	ug/L
Se	77	129	1769	28	1.6	0.000316	<b>9.5780</b>	ug/L
Se	82	20	2264	91	4.0	0.000439	<b>10.0099</b>	ug/L
Sr	88	76	132814	2750	2.1	0.026004	<b>4.6383</b>	ug/L
Mo	98	130	3657	123	3.4	0.000685	<b>0.5956</b>	ug/L
Ag	107	40	12036	76	0.6	0.002349	<b>0.9939</b>	ug/L
Ag	109	40	11703	161	1.4	0.002283	<b>0.9984</b>	ug/L
Cd	111	11	1379	36	2.6	0.000268	<b>0.4815</b>	ug/L
Cd	114	77	3277	28	0.9	0.000624	<b>0.4909</b>	ug/L
In	115	4192305	5103893	14281	0.3	5103892.677553		ug/L

Sn	120	978	27767	478	1.7	0.005207	<b>2.4321</b>	ug/L
Sb	121	126	5424	182	3.4	0.001033	<b>0.9869</b>	ug/L
Cs	133	15	73616	426	0.6	0.014420	<b>2.3759</b>	ug/L
Ba	138	60	53563	814	1.5	0.010480	<b>2.1803</b>	ug/L
Ce	140	18	12780	53	0.4	0.002500	<b>0.4693</b>	ug/L
> Tm	169	1270088	1394155	3490	0.3	1394154.784893		ug/L
Tl	205	10	3761	50	1.3	0.002690	<b>0.2450</b>	ug/L
Pb	208	58	50680	84	0.2	0.036306	<b>2.4548</b>	ug/L
Bi	209	101	43668	291	0.7	0.031242	<b>2.4883</b>	ug/L
Th	232	30	8989	353	3.9	0.006424	<b>0.4990</b>	ug/L
U	238	6	11655	41	0.3	0.008355	<b>0.4881</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.381
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.803
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	121.744
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	109.768
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB6**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 19:48:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB6.130

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	44	9	19.7	0.000007	<b>0.0118</b>	ug/L
Be	9	25	37	7	19.7	0.000022	<b>0.0610</b>	ug/L
B	11	322	766	86	11.3	0.000830	<b>0.9879</b>	ug/L
Na	23	3977	6215	472	7.6	0.004138	<b>1.9897</b>	ug/L
Mg	24	111	313	120	38.1	0.000379	<b>0.3703</b>	ug/L
Al	27	1010	1009	26	2.6	-0.000021	<b>0.1327</b>	ug/L
K	39	430753	421569	398	0.1	-0.025803	<b>-0.3669</b>	ug/L
Ca	44	32562	29732	333	1.1	-0.005968	<b>-7.7158</b>	ug/L
Sc	45	525930	531491	4692	0.9	531491.377001		ug/L
Ti	47	944	946	36	3.8	-0.000015	<b>0.0366</b>	ug/L
Ti	48	-2694	-2448	31	1.3	0.000515	<b>0.0266</b>	ug/L
V	51	197	190	16	8.2	-0.000016	<b>0.0053</b>	ug/L
Cr	52	7265	7716	217	2.8	0.000704	<b>0.0360</b>	ug/L
Cr	53	117	111	8	7.1	-0.000014	<b>-0.0155</b>	ug/L
Mn	55	280	282	10	3.4	-0.000001	<b>0.0008</b>	ug/L
Fe	54	39304	39446	238	0.6	-0.000510	<b>0.8118</b>	ug/L
Fe	57	5552	5914	93	1.6	0.000569	<b>1.5061</b>	ug/L
Co	59	38	39	5	11.8	0.000001	<b>-0.0028</b>	ug/L
Ni	60	32	41	1	1.7	0.000018	<b>0.0042</b>	ug/L
Ni	62	114	153	13	8.2	0.000071	<b>0.1778</b>	ug/L
Cu	65	49	52	2	2.9	0.000010	<b>0.0052</b>	ug/L
Cu	63	51	86	16	18.2	0.000161	<b>0.0086</b>	ug/L
Zn	66	439	417	19	4.7	-0.000177	<b>0.0425</b>	ug/L
Zn	68	213	211	13	6.0	-0.000041	<b>0.0613</b>	ug/L
Ge	74	202077	208966	937	0.4	208966.083979		ug/L
As	75	-111	-175	76	43.2	-0.000290	<b>0.0014</b>	ug/L
As-1	75	9698	9738	54	0.6	-0.001391	<b>0.0287</b>	ug/L
Se	77	129	158	19	11.8	0.000001	<b>0.0092</b>	ug/L
Se	82	20	18	2	8.4	-0.000001	<b>0.0160</b>	ug/L
Sr	88	76	79	5	5.7	-0.000002	<b>-0.0041</b>	ug/L
Mo	98	130	301	83	27.5	0.000030	<b>0.0306</b>	ug/L
Ag	107	40	68	12	18.4	0.000004	<b>0.0046</b>	ug/L
Ag	109	40	69	19	27.1	0.000004	<b>0.0053</b>	ug/L
Cd	111	11	20	4	20.5	0.000001	<b>-0.0033</b>	ug/L
Cd	114	77	64	19	29.8	-0.000005	<b>-0.0015</b>	ug/L
In	115	4192305	4936980	92505	1.9	4936979.856180		ug/L

Sn	120	978	792	618	78.1	-0.000072	<b>-0.0011</b>	ug/L
Sb	121	126	811	63	7.8	0.000134	<b>0.1392</b>	ug/L
Cs	133	15	56	37	65.6	0.000008	<b>0.0019</b>	ug/L
Ba	138	60	102	47	45.9	0.000006	<b>0.0103</b>	ug/L
Ce	140	18	27	17	61.9	0.000001	<b>0.0001</b>	ug/L
> Tm	169	1270088	1337329	12016	0.9	1337329.348347		ug/L
Tl	205	10	15	5	35.0	0.000003	<b>0.0001</b>	ug/L
Pb	208	58	85	15	17.3	0.000018	<b>-0.0002</b>	ug/L
Bi	209	101	867	230	26.6	0.000570	<b>0.0545</b>	ug/L
Th	232	30	301	67	22.2	0.000202	<b>0.0267</b>	ug/L
U	238	6	14	2	12.4	0.000006	<b>-0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.057
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	103.409
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.763
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	105.294
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: 1232024-02RE2**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:52:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 146

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\1232024-02RE2.131

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	1784	17	0.9	0.003025	<b>1.2673</b>	ug/L
Be	9	25	147	10	6.9	0.000209	<b>0.4095</b>	ug/L
B	11	322	2814	70	2.5	0.004277	<b>4.8751</b>	ug/L
Na	23	3977	71903510	1258189	1.7	124.911909	<b>9648.8367</b>	ug/L
Mg	24	111	25948088	312741	1.2	45.084167	<b>5048.7094</b>	ug/L
Al	27	1010	108354	1799	1.7	0.186328	<b>15.2833</b>	ug/L
K	39	430753	10369613	212746	2.1	17.195614	<b>949.3638</b>	ug/L
Ca	44	32562	7709001	194410	2.5	13.330064	<b>25176.9194</b>	ug/L
Sc	45	525930	575612	10832	1.9	575611.796992		ug/L
Ti	47	944	1796	33	1.8	0.001325	<b>1.0759</b>	ug/L
Ti	48	-2694	25904	7115	27.5	0.050224	<b>3.5483</b>	ug/L
V	51	197	18233	518	2.8	0.031298	<b>1.8696</b>	ug/L
Cr	52	7265	28261	539	1.9	0.035288	<b>2.4465</b>	ug/L
Cr	53	117	2675	33	1.2	0.004426	<b>2.7086</b>	ug/L
Mn	55	280	510580	6934	1.4	0.886553	<b>41.7792</b>	ug/L
Fe	54	39304	63008	566	0.9	0.034749	<b>32.7914</b>	ug/L
Fe	57	5552	21854	120	0.6	0.027419	<b>63.3951</b>	ug/L
Co	59	38	21065	351	1.7	0.036528	<b>2.1054</b>	ug/L
Ni	60	32	3585	163	4.6	0.006166	<b>1.5978</b>	ug/L
Ni	62	114	911	14	1.5	0.001366	<b>2.3143</b>	ug/L
Cu	65	49	3541	98	2.8	0.015969	<b>1.3437</b>	ug/L
Cu	63	51	6752	82	1.2	0.030655	<b>1.3108</b>	ug/L
Zn	66	439	596978	14584	2.4	2.730317	<b>408.6284</b>	ug/L
Zn	68	213	445680	10865	2.4	2.038923	<b>401.3731</b>	ug/L
Ge	74	202077	218461	3738	1.7	218461.221527		ug/L
As	75	-111	9805	48	0.5	0.045436	<b>4.9579</b>	ug/L
As-1	75	9698	19037	203	1.1	0.039158	<b>4.8017</b>	ug/L
Se	77	129	199	25	12.3	0.000009	<b>0.2410</b>	ug/L
Se	82	20	100	1	0.6	0.000015	<b>0.3858</b>	ug/L
Sr	88	76	4162346	50327	1.2	0.829750	<b>148.1160</b>	ug/L
Mo	98	130	6272	204	3.3	0.001219	<b>1.0558</b>	ug/L
Ag	107	40	58921	1000	1.7	0.011737	<b>4.9552</b>	ug/L
Ag	109	40	56968	919	1.6	0.011347	<b>4.9478</b>	ug/L
Cd	111	11	3980	78	1.9	0.000791	<b>1.4344</b>	ug/L
Cd	114	77	9254	122	1.3	0.001826	<b>1.4322</b>	ug/L
In	115	4192305	5016219	13557	0.3	5016218.639176		ug/L

Sn	120	978	35618	265	0.7	0.006867	<b>3.1974</b>	ug/L
Sb	121	126	19697	153	0.8	0.003897	<b>3.6889</b>	ug/L
Cs	133	15	202	11	5.3	0.000037	<b>0.0067</b>	ug/L
Ba	138	60	1112704	7582	0.7	0.221806	<b>45.9637</b>	ug/L
Ce	140	18	2587	29	1.1	0.000512	<b>0.0959</b>	ug/L
Tm	169	1270088	1380955	3455	0.3	1380954.955459		ug/L
Tl	205	10	35575	210	0.6	0.025754	<b>2.3474</b>	ug/L
Pb	208	58	33673	204	0.6	0.024338	<b>1.6452</b>	ug/L
Bi	209	101	364	180	49.5	0.000184	<b>0.0239</b>	ug/L
Th	232	30	112	21	18.9	0.000057	<b>0.0157</b>	ug/L
U	238	6	14035	103	0.7	0.010159	<b>0.5936</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	109.446
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	108.108
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	119.653
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.729
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-DUP3**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 19:56:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 147

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-DUP3.132

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	1867	24	1.3	0.003145	<b>1.3175</b>	ug/L
Be	9	25	148	14	9.5	0.000208	<b>0.4085</b>	ug/L
B	11	322	2859	91	3.2	0.004319	<b>4.9220</b>	ug/L
Na	23	3977	74589948	1307580	1.8	128.623494	<b>9935.4889</b>	ug/L
Mg	24	111	26612762	181480	0.7	45.899433	<b>5140.0003</b>	ug/L
Al	27	1010	110216	1341	1.2	0.188180	<b>15.4339</b>	ug/L
K	39	430753	10637974	175212	1.6	17.526951	<b>967.6364</b>	ug/L
Ca	44	32562	7947650	134571	1.7	13.644679	<b>25771.0590</b>	ug/L
Sc	45	525930	579917	9856	1.7	579916.880606		ug/L
Ti	47	944	1733	26	1.5	0.001194	<b>0.9744</b>	ug/L
Ti	48	-2694	20338	10517	51.7	0.040278	<b>2.8436</b>	ug/L
V	51	197	18930	365	1.9	0.032276	<b>1.9279</b>	ug/L
Cr	52	7265	28717	680	2.4	0.035707	<b>2.4757</b>	ug/L
Cr	53	117	2843	17	0.6	0.004682	<b>2.8657</b>	ug/L
Mn	55	280	526191	9754	1.9	0.906990	<b>42.7422</b>	ug/L
Fe	54	39304	64951	1428	2.2	0.037275	<b>35.0819</b>	ug/L
Fe	57	5552	22057	504	2.3	0.027477	<b>63.5290</b>	ug/L
Co	59	38	21533	591	2.7	0.037063	<b>2.1363</b>	ug/L
Ni	60	32	3735	157	4.2	0.006378	<b>1.6528</b>	ug/L
Ni	62	114	926	21	2.3	0.001382	<b>2.3405</b>	ug/L
Cu	65	49	3478	120	3.5	0.015500	<b>1.3044</b>	ug/L
Cu	63	51	6909	115	1.7	0.031026	<b>1.3267</b>	ug/L
Zn	66	439	617084	11998	1.9	2.791866	<b>417.8385</b>	ug/L
Zn	68	213	460121	5820	1.3	2.082151	<b>409.8814</b>	ug/L
Ge	74	202077	220887	3920	1.8	220887.179777		ug/L
As	75	-111	10085	220	2.2	0.046206	<b>5.0413</b>	ug/L
As-1	75	9698	19524	218	1.1	0.040407	<b>4.9487</b>	ug/L
Se	77	129	184	6	3.0	0.000007	<b>0.1669</b>	ug/L
Se	82	20	108	26	23.9	0.000017	<b>0.4282</b>	ug/L
Sr	88	76	4312779	70416	1.6	0.874290	<b>156.0668</b>	ug/L
Mo	98	130	6557	99	1.5	0.001298	<b>1.1241</b>	ug/L
Ag	107	40	59181	701	1.2	0.011988	<b>5.0615</b>	ug/L
Ag	109	40	56853	931	1.6	0.011517	<b>5.0217</b>	ug/L
Cd	111	11	3928	83	2.1	0.000794	<b>1.4395</b>	ug/L
Cd	114	77	9186	52	0.6	0.001844	<b>1.4461</b>	ug/L
In	115	4192305	4932647	62111	1.3	4932647.127539		ug/L

Sn	120	978	35296	105	0.3	0.006923	<b>3.2230</b>	ug/L
Sb	121	126	19456	209	1.1	0.003914	<b>3.7056</b>	ug/L
Cs	133	15	179	10	5.6	0.000033	<b>0.0060</b>	ug/L
Ba	138	60	1099050	10010	0.9	0.222831	<b>46.1760</b>	ug/L
Ce	140	18	2571	26	1.0	0.000517	<b>0.0969</b>	ug/L
Tm	169	1270088	1367174	8184	0.6	1367173.639914		ug/L
Tl	205	10	35808	113	0.3	0.026184	<b>2.3867</b>	ug/L
Pb	208	58	33902	311	0.9	0.024752	<b>1.6732</b>	ug/L
Bi	209	101	225	86	38.0	0.000085	<b>0.0161</b>	ug/L
Th	232	30	85	14	17.1	0.000039	<b>0.0143</b>	ug/L
U	238	6	14343	118	0.8	0.010486	<b>0.6128</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	110.265
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	109.309
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	117.660
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	107.644
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MS3**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 20:00:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 148

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MS3.133

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	2991	74	2.5	0.005214	<b>2.1781</b>	ug/L
Be	9	25	257	11	4.2	0.000408	<b>0.7822</b>	ug/L
B	11	322	22240	883	4.0	0.038695	<b>43.6847</b>	ug/L
Na	23	3977	72462834	3250594	4.5	128.050018	<b>9891.1984</b>	ug/L
Mg	24	111	29182281	1257002	4.3	51.575634	<b>5775.6033</b>	ug/L
Al	27	1010	1326561	47135	3.6	2.342909	<b>190.6186</b>	ug/L
K	39	430753	14078147	608071	4.3	24.061092	<b>1327.9827</b>	ug/L
Ca	44	32562	7703775	340951	4.4	13.552545	<b>25597.0675</b>	ug/L
Sc	45	525930	565712	18277	3.2	565712.374865		ug/L
Ti	47	944	4494	184	4.1	0.006148	<b>4.8184</b>	ug/L
Ti	48	-2694	56447	2295	4.1	0.104976	<b>7.4272</b>	ug/L
V	51	197	36013	1201	3.3	0.063285	<b>3.7741</b>	ug/L
Cr	52	7265	104114	4522	4.3	0.170184	<b>11.8486</b>	ug/L
Cr	53	117	11634	441	3.8	0.020343	<b>12.4762</b>	ug/L
Mn	55	280	605089	26282	4.3	1.068827	<b>50.3687</b>	ug/L
Fe	54	39304	178164	6858	3.8	0.240164	<b>219.1000</b>	ug/L
Fe	57	5552	68158	2396	3.5	0.109918	<b>253.5501</b>	ug/L
Co	59	38	38849	1721	4.4	0.068590	<b>3.9559</b>	ug/L
Ni	60	32	11793	707	6.0	0.020774	<b>5.3840</b>	ug/L
Ni	62	114	2184	109	5.0	0.003644	<b>6.0722</b>	ug/L
Cu	65	49	13186	521	3.9	0.061456	<b>5.1585</b>	ug/L
Cu	63	51	25796	1137	4.4	0.120438	<b>5.1451</b>	ug/L
Zn	66	439	614748	26956	4.4	2.873847	<b>430.1060</b>	ug/L
Zn	68	213	455118	28856	6.3	2.126794	<b>418.6681</b>	ug/L
Ge	74	202077	213804	10580	4.9	213803.565893		ug/L
As	75	-111	17320	480	2.8	0.081621	<b>8.8802</b>	ug/L
As-1	75	9698	26277	565	2.1	0.075023	<b>9.0232</b>	ug/L
Se	77	129	864	62	7.2	0.000152	<b>4.6028</b>	ug/L
Se	82	20	973	19	2.0	0.000201	<b>4.6171</b>	ug/L
Sr	88	76	4089065	203469	5.0	0.866028	<b>154.5920</b>	ug/L
Mo	98	130	16956	287	1.7	0.003563	<b>3.0758</b>	ug/L
Ag	107	40	64426	2281	3.5	0.013640	<b>5.7585</b>	ug/L
Ag	109	40	62295	1231	2.0	0.013193	<b>5.7521</b>	ug/L
Cd	111	11	4708	99	2.1	0.000995	<b>1.8063</b>	ug/L
Cd	114	77	11032	248	2.2	0.002320	<b>1.8182</b>	ug/L
In	115	4192305	4719821	155852	3.3	4719821.359117		ug/L

Sn	120	978	43033	1224	2.8	0.008885	<b>4.1274</b>	ug/L
Sb	121	126	20270	404	2.0	0.004266	<b>4.0371</b>	ug/L
Cs	133	15	26826	502	1.9	0.005682	<b>0.9366</b>	ug/L
Ba	138	60	1210692	17692	1.5	0.256601	<b>53.1726</b>	ug/L
Ce	140	18	11904	218	1.8	0.002519	<b>0.4728</b>	ug/L
Tm	169	1270088	1318568	14880	1.1	1318568.261252		ug/L
Tl	205	10	36628	828	2.3	0.027769	<b>2.5311</b>	ug/L
Pb	208	58	51130	1203	2.4	0.038728	<b>2.6187</b>	ug/L
Bi	209	101	143372	1579	1.1	0.108666	<b>8.6316</b>	ug/L
Th	232	30	2979	226	7.6	0.002237	<b>0.1812</b>	ug/L
U	238	6	17993	387	2.2	0.013641	<b>0.7973</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	107.564
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	105.803
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	112.583
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	103.817
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121446-MSD3**

**Sample Description:**

**Batch ID: B121446**

Sample Date/Time: Friday, August 17, 2012 20:03:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 149

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121446-MSD3.134

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	3154	93	2.9	0.005269	<b>2.2010</b>	ug/L
Be	9	25	264	9	3.6	0.000400	<b>0.7677</b>	ug/L
B	11	322	22908	369	1.6	0.038206	<b>43.1334</b>	ug/L
Na	23	3977	76178478	1811310	2.4	129.080627	<b>9970.7941</b>	ug/L
Mg	24	111	30295579	671084	2.2	51.338664	<b>5749.0681</b>	ug/L
Al	27	1010	1361806	16321	1.2	2.305997	<b>187.6175</b>	ug/L
K	39	430753	14796041	29748	0.2	24.257456	<b>1338.8119</b>	ug/L
Ca	44	32562	8175105	78127	1.0	13.792048	<b>26049.3605</b>	ug/L
Sc	45	525930	590164	11054	1.9	590164.326525		ug/L
Ti	47	944	4608	73	1.6	0.006012	<b>4.7129</b>	ug/L
Ti	48	-2694	51690	9901	19.2	0.092595	<b>6.5500</b>	ug/L
V	51	197	38052	738	1.9	0.064103	<b>3.8227</b>	ug/L
Cr	52	7265	107458	2111	2.0	0.168267	<b>11.7149</b>	ug/L
Cr	53	117	12010	420	3.5	0.020125	<b>12.3426</b>	ug/L
Mn	55	280	635101	1867	0.3	1.075860	<b>50.7002</b>	ug/L
Fe	54	39304	184381	2322	1.3	0.237714	<b>216.8777</b>	ug/L
Fe	57	5552	71534	1109	1.6	0.110660	<b>255.2615</b>	ug/L
Co	59	38	40916	485	1.2	0.069265	<b>3.9949</b>	ug/L
Ni	60	32	12131	212	1.8	0.020500	<b>5.3131</b>	ug/L
Ni	62	114	2276	66	2.9	0.003642	<b>6.0692</b>	ug/L
Cu	65	49	13797	69	0.5	0.061462	<b>5.1590</b>	ug/L
Cu	63	51	26782	356	1.3	0.119516	<b>5.1058</b>	ug/L
Zn	66	439	649042	3065	0.5	2.900341	<b>434.0705</b>	ug/L
Zn	68	213	483694	3434	0.7	2.161983	<b>425.5940</b>	ug/L
Ge	74	202077	223633	2211	1.0	223632.722613		ug/L
As	75	-111	18417	306	1.7	0.082917	<b>9.0207</b>	ug/L
As-1	75	9698	27512	310	1.1	0.075050	<b>9.0265</b>	ug/L
Se	77	129	889	24	2.7	0.000153	<b>4.6218</b>	ug/L
Se	82	20	1038	27	2.6	0.000210	<b>4.8010</b>	ug/L
Sr	88	76	4395775	64022	1.5	0.908002	<b>162.0850</b>	ug/L
Mo	98	130	17705	374	2.1	0.003626	<b>3.1305</b>	ug/L
Ag	107	40	66499	359	0.5	0.013726	<b>5.7948</b>	ug/L
Ag	109	40	64257	676	1.1	0.013263	<b>5.7824</b>	ug/L
Cd	111	11	4855	122	2.5	0.001000	<b>1.8157</b>	ug/L
Cd	114	77	11334	123	1.1	0.002323	<b>1.8206</b>	ug/L
In	115	4192305	4841528	39803	0.8	4841528.282140		ug/L

Sn	120	978	43887	304	0.7	0.008832	<b>4.1028</b>	ug/L
Sb	121	126	20674	269	1.3	0.004240	<b>4.0130</b>	ug/L
Cs	133	15	26758	159	0.6	0.005523	<b>0.9104</b>	ug/L
Ba	138	60	1227241	2855	0.2	0.253476	<b>52.5253</b>	ug/L
Ce	140	18	11816	255	2.2	0.002437	<b>0.4574</b>	ug/L
Tm	169	1270088	1336699	2664	0.2	1336698.865203		ug/L
Tl	205	10	38077	272	0.7	0.028478	<b>2.5958</b>	ug/L
Pb	208	58	52088	594	1.1	0.038921	<b>2.6318</b>	ug/L
Bi	209	101	146034	2380	1.6	0.109172	<b>8.6717</b>	ug/L
Th	232	30	3264	137	4.2	0.002419	<b>0.1950</b>	ug/L
U	238	6	18480	125	0.7	0.013820	<b>0.8078</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.213
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	110.667
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	115.486
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	105.245
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:07:42

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV7.135

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	7020	114	1.6	0.012002	<b>5.0021</b>	ug/L
Be	9	25	634	20	3.2	0.001043	<b>1.9691</b>	ug/L
B	11	322	52419	524	1.0	0.089566	<b>101.0478</b>	ug/L
Na	23	3977	7584661	92506	1.2	13.043763	<b>1009.0629</b>	ug/L
Mg	24	111	10346558	142303	1.4	17.801645	<b>1993.6994</b>	ug/L
Al	27	1010	3685210	4174	0.1	6.338510	<b>515.4706</b>	ug/L
K	39	430753	11423800	113044	1.0	18.834124	<b>1039.7247</b>	ug/L
Ca	44	32562	625492	2056	0.3	1.014225	<b>1918.8839</b>	ug/L
Sc	45	525930	581325	9670	1.7	581324.887937		ug/L
Ti	47	944	8490	44	0.5	0.012812	<b>9.9884</b>	ug/L
Ti	48	-2694	84825	1309	1.5	0.151044	<b>10.6909</b>	ug/L
V	51	197	100002	392	0.4	0.171686	<b>10.2279</b>	ug/L
Cr	52	7265	216911	1704	0.8	0.359356	<b>25.0336</b>	ug/L
Cr	53	117	24540	84	0.3	0.042001	<b>25.7667</b>	ug/L
Mn	55	280	306037	2048	0.7	0.525974	<b>24.7871</b>	ug/L
Fe	54	39304	360702	3878	1.1	0.545791	<b>496.2995</b>	ug/L
Fe	57	5552	138326	3212	2.3	0.227383	<b>524.3012</b>	ug/L
Co	59	38	53276	870	1.6	0.091592	<b>5.2835</b>	ug/L
Ni	60	32	23690	369	1.6	0.040697	<b>10.5479</b>	ug/L
Ni	62	114	3814	76	2.0	0.006345	<b>10.5278</b>	ug/L
Cu	65	49	27872	398	1.4	0.119662	<b>10.0401</b>	ug/L
Cu	63	51	55381	840	1.5	0.237967	<b>10.1643</b>	ug/L
Zn	66	439	78664	802	1.0	0.336207	<b>50.3782</b>	ug/L
Zn	68	213	59265	868	1.5	0.253871	<b>50.0366</b>	ug/L
Ge	74	202077	232477	2291	1.0	232476.825748		ug/L
As	75	-111	22127	581	2.6	0.095746	<b>10.4112</b>	ug/L
As-1	75	9698	30693	790	2.6	0.084061	<b>10.0871</b>	ug/L
Se	77	129	3715	29	0.8	0.000721	<b>21.9060</b>	ug/L
Se	82	20	4747	114	2.4	0.000956	<b>21.7460</b>	ug/L
Sr	88	76	284649	3079	1.1	0.057566	<b>10.2724</b>	ug/L
Mo	98	130	30616	359	1.2	0.006163	<b>5.3169</b>	ug/L
Ag	107	40	24079	527	2.2	0.004861	<b>2.0540</b>	ug/L
Ag	109	40	23244	201	0.9	0.004693	<b>2.0481</b>	ug/L
Cd	111	11	2831	47	1.7	0.000570	<b>1.0323</b>	ug/L
Cd	114	77	6393	170	2.7	0.001275	<b>1.0005</b>	ug/L
In	115	4192305	4943578	50530	1.0	4943577.607098		ug/L

Sn	120	978	53474	1215	2.3	0.010583	<b>4.9098</b>	ug/L
Sb	121	126	9790	327	3.3	0.001951	<b>1.8529</b>	ug/L
Cs	133	15	141722	1458	1.0	0.028664	<b>4.7224</b>	ug/L
Ba	138	60	490867	4102	0.8	0.099281	<b>20.5785</b>	ug/L
Ce	140	18	24603	147	0.6	0.004973	<b>0.9337</b>	ug/L
Tm	169	1270088	1342929	5098	0.4	1342928.524634		ug/L
Tl	205	10	7644	78	1.0	0.005684	<b>0.5179</b>	ug/L
Pb	208	58	104250	418	0.4	0.077584	<b>5.2474</b>	ug/L
Bi	209	101	413582	2664	0.6	0.307896	<b>24.4398</b>	ug/L
Th	232	30	19833	700	3.5	0.014746	<b>1.1306</b>	ug/L
U	238	6	23864	137	0.6	0.017766	<b>1.0387</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	110.533
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	115.044
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	117.920
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	105.735
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:11:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB7.136

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	7	14.4	0.000018	<b>0.0161</b>	ug/L
Be	9	25	30	6	20.3	0.000007	<b>0.0331</b>	ug/L
B	11	322	812	69	8.5	0.000849	<b>1.0096</b>	ug/L
Na	23	3977	11972	7786	65.0	0.013960	<b>2.7482</b>	ug/L
Mg	24	111	2520	3830	152.0	0.004312	<b>0.8106</b>	ug/L
Al	27	1010	1325	541	40.8	0.000463	<b>0.1720</b>	ug/L
K	39	430753	438935	1341	0.3	-0.029254	<b>-0.5572</b>	ug/L
Ca	44	32562	29181	315	1.1	-0.009410	<b>-14.2148</b>	ug/L
Sc	45	525930	555792	4153	0.7	555791.707658		ug/L
Ti	47	944	850	6	0.7	-0.000266	<b>-0.1579</b>	ug/L
Ti	48	-2694	-2121	75	3.5	0.001306	<b>0.0827</b>	ug/L
V	51	197	340	19	5.7	0.000238	<b>0.0204</b>	ug/L
Cr	52	7265	8093	299	3.7	0.000746	<b>0.0389</b>	ug/L
Cr	53	117	156	13	8.5	0.000059	<b>0.0293</b>	ug/L
Mn	55	280	340	64	18.9	0.000080	<b>0.0046</b>	ug/L
Fe	54	39304	40198	168	0.4	-0.002406	<b>-0.9079</b>	ug/L
Fe	57	5552	6032	99	1.6	0.000298	<b>0.8807</b>	ug/L
Co	59	38	62	32	52.5	0.000039	<b>-0.0006</b>	ug/L
Ni	60	32	43	13	30.5	0.000018	<b>0.0042</b>	ug/L
Ni	62	114	153	12	7.9	0.000060	<b>0.1590</b>	ug/L
Cu	65	49	71	20	28.3	0.000084	<b>0.0115</b>	ug/L
Cu	63	51	102	46	44.6	0.000215	<b>0.0109</b>	ug/L
Zn	66	439	568	251	44.3	0.000423	<b>0.1322</b>	ug/L
Zn	68	213	317	168	53.0	0.000397	<b>0.1476</b>	ug/L
Ge	74	202077	218592	2053	0.9	218592.304725		ug/L
As	75	-111	-104	48	45.8	0.000076	<b>0.0410</b>	ug/L
As-1	75	9698	9748	69	0.7	-0.003397	<b>-0.2074</b>	ug/L
Se	77	129	165	8	4.9	0.000005	<b>0.1072</b>	ug/L
Se	82	20	42	8	17.9	0.000004	<b>0.1369</b>	ug/L
Sr	88	76	497	689	138.5	0.000087	<b>0.0119</b>	ug/L
Mo	98	130	757	166	21.9	0.000130	<b>0.1173</b>	ug/L
Ag	107	40	146	71	48.4	0.000022	<b>0.0119</b>	ug/L
Ag	109	40	167	95	56.6	0.000026	<b>0.0148</b>	ug/L
Cd	111	11	31	12	39.2	0.000004	<b>0.0013</b>	ug/L
Cd	114	77	69	24	34.3	-0.000004	<b>-0.0001</b>	ug/L
In	115	4192305	4686755	20537	0.4	4686754.500307		ug/L



Sn	120	978	1039	527	50.7	-0.000012	<b>0.0269</b>	ug/L
Sb	121	126	1150	30	2.6	0.000215	<b>0.2159</b>	ug/L
Cs	133	15	125	169	135.2	0.000023	<b>0.0044</b>	ug/L
Ba	138	60	723	1114	154.1	0.000139	<b>0.0378</b>	ug/L
Ce	140	18	28	23	80.0	0.000002	<b>0.0002</b>	ug/L
Tm	169	1270088	1274055	1206	0.1	1274054.648930		ug/L
Tl	205	10	29	20	68.9	0.000015	<b>0.0011</b>	ug/L
Pb	208	58	108	60	56.1	0.000039	<b>0.0012</b>	ug/L
Bi	209	101	2403	268	11.2	0.001806	<b>0.1526</b>	ug/L
Th	232	30	382	51	13.4	0.000276	<b>0.0323</b>	ug/L
U	238	6	25	15	60.9	0.000015	<b>0.0002</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	105.678
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	108.173
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	111.794
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	100.312
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: rinse****Sample Description:****Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:15:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.137

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	43	12	26.9	-0.000003	<b>0.0074</b>	ug/L
Be	9	25	33	5	13.5	0.000008	<b>0.0349</b>	ug/L
B	11	322	913	47	5.2	0.000895	<b>1.0618</b>	ug/L
Na	23	3977	42112	55686	132.2	0.061761	<b>6.4400</b>	ug/L
Mg	24	111	12923	21601	167.1	0.021052	<b>2.6852</b>	ug/L
Al	27	1010	2728	2310	84.7	0.002573	<b>0.3436</b>	ug/L
K	39	430753	447891	11616	2.6	-0.080388	<b>-3.3772</b>	ug/L
Ca	44	32562	31410	3744	11.9	-0.010123	<b>-15.5612</b>	ug/L
Sc	45	525930	606560	14686	2.4	606559.880510		ug/L
Ti	47	944	837	24	2.9	-0.000415	<b>-0.2738</b>	ug/L
Ti	48	-2694	-2169	43	2.0	0.001545	<b>0.0996</b>	ug/L
V	51	197	297	35	11.8	0.000115	<b>0.0131</b>	ug/L
Cr	52	7265	8907	82	0.9	0.000878	<b>0.0481</b>	ug/L
Cr	53	117	152	6	4.2	0.000028	<b>0.0103</b>	ug/L
Mn	55	280	629	167	26.6	0.000505	<b>0.0246</b>	ug/L
Fe	54	39304	84460	92	0.1	0.064567	<b>59.8362</b>	ug/L
Fe	57	5552	6840	96	1.4	0.000727	<b>1.8694</b>	ug/L
Co	59	38	58	23	38.9	0.000023	<b>-0.0015</b>	ug/L
Ni	60	32	44	6	13.0	0.000012	<b>0.0029</b>	ug/L
Ni	62	114	166	9	5.5	0.000057	<b>0.1547</b>	ug/L
Cu	65	49	63	1	1.8	0.000023	<b>0.0064</b>	ug/L
Cu	63	51	78	17	21.4	0.000075	<b>0.0049</b>	ug/L
Zn	66	439	362	120	33.1	-0.000653	<b>-0.0288</b>	ug/L
Zn	68	213	224	127	56.4	-0.000116	<b>0.0465</b>	ug/L
Ge	74	202077	237604	5586	2.4	237604.452518		ug/L
As	75	-111	-198	35	17.6	-0.000287	<b>0.0017</b>	ug/L
As-1	75	9698	10167	126	1.2	-0.005195	<b>-0.4190</b>	ug/L
Se	77	129	166	8	5.0	0.000004	<b>0.0861</b>	ug/L
Se	82	20	3	14	448.0	-0.000004	<b>-0.0530</b>	ug/L
Sr	88	76	475	627	132.0	0.000081	<b>0.0107</b>	ug/L
Mo	98	130	319	129	40.4	0.000035	<b>0.0353</b>	ug/L
Ag	107	40	96	4	4.2	0.000011	<b>0.0072</b>	ug/L
Ag	109	40	90	4	4.0	0.000009	<b>0.0075</b>	ug/L
Cd	111	11	20	4	18.0	0.000002	<b>-0.0030</b>	ug/L
Cd	114	77	67	6	9.6	-0.000004	<b>-0.0006</b>	ug/L
In	115	4192305	4790724	38249	0.8	4790723.544691		ug/L

Sn	120	978	1247	885	71.0	0.000027	<b>0.0446</b>	ug/L
Sb	121	126	717	121	16.9	0.000120	<b>0.1255</b>	ug/L
Cs	133	15	25	14	54.5	0.000002	<b>0.0009</b>	ug/L
Ba	138	60	142	70	49.0	0.000015	<b>0.0122</b>	ug/L
Ce	140	18	28	3	10.7	0.000002	<b>0.0001</b>	ug/L
> Tm	169	1270088	1306785	7766	0.6	1306785.424051		ug/L
Tl	205	10	20	6	28.9	0.000007	<b>0.0004</b>	ug/L
Pb	208	58	84	7	7.9	0.000019	<b>-0.0002</b>	ug/L
Bi	209	101	1229	396	32.3	0.000860	<b>0.0776</b>	ug/L
Th	232	30	428	97	22.6	0.000304	<b>0.0345</b>	ug/L
U	238	6	33	28	84.0	0.000021	<b>0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.331
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	117.581
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.274
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.889
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: rinse**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:19:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.138

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	39	3	7.8	-0.000010	<b>0.0048</b>	ug/L
Be	9	25	29	7	24.1	0.000001	<b>0.0218</b>	ug/L
B	11	322	783	10	1.3	0.000686	<b>0.8260</b>	ug/L
Na	23	3977	9313	46	0.5	0.007881	<b>2.2788</b>	ug/L
Mg	24	111	394	8	2.1	0.000441	<b>0.3772</b>	ug/L
Al	27	1010	1401	55	3.9	0.000402	<b>0.1671</b>	ug/L
K	39	430753	438208	1040	0.2	-0.092403	<b>-4.0397</b>	ug/L
Ca	44	32562	29018	23	0.1	-0.013797	<b>-22.4997</b>	ug/L
Sc	45	525930	603171	9642	1.6	603171.103417		ug/L
Ti	47	944	867	40	4.6	-0.000359	<b>-0.2302</b>	ug/L
Ti	48	-2694	-2198	18	0.8	0.001477	<b>0.0948</b>	ug/L
V	51	197	265	23	8.6	0.000066	<b>0.0102</b>	ug/L
Cr	52	7265	8884	89	1.0	0.000918	<b>0.0510</b>	ug/L
Cr	53	117	146	7	4.7	0.000020	<b>0.0050</b>	ug/L
Mn	55	280	517	23	4.5	0.000325	<b>0.0161</b>	ug/L
Fe	54	39304	84892	1344	1.6	0.066058	<b>61.1879</b>	ug/L
Fe	57	5552	6861	106	1.5	0.000821	<b>2.0882</b>	ug/L
Co	59	38	49	5	9.4	0.000009	<b>-0.0023</b>	ug/L
Ni	60	32	46	6	12.1	0.000017	<b>0.0040</b>	ug/L
Ni	62	114	168	19	11.4	0.000063	<b>0.1650</b>	ug/L
Cu	65	49	66	2	2.6	0.000040	<b>0.0078</b>	ug/L
Cu	63	51	70	9	12.2	0.000045	<b>0.0036</b>	ug/L
Zn	66	439	288	16	5.7	-0.000948	<b>-0.0729</b>	ug/L
Zn	68	213	134	4	2.7	-0.000483	<b>-0.0256</b>	ug/L
Ge	74	202077	235273	754	0.3	235272.553077		ug/L
As	75	-111	-228	25	11.1	-0.000420	<b>-0.0127</b>	ug/L
As-1	75	9698	10221	159	1.6	-0.004547	<b>-0.3428</b>	ug/L
Se	77	129	166	2	1.2	0.000004	<b>0.0830</b>	ug/L
Se	82	20	7	16	236.5	-0.000003	<b>-0.0356</b>	ug/L
Sr	88	76	120	8	6.5	0.000007	<b>-0.0025</b>	ug/L
Mo	98	130	206	86	41.8	0.000011	<b>0.0147</b>	ug/L
Ag	107	40	71	11	15.5	0.000005	<b>0.0050</b>	ug/L
Ag	109	40	70	16	23.2	0.000005	<b>0.0057</b>	ug/L
Cd	111	11	17	3	18.3	0.000001	<b>-0.0043</b>	ug/L
Cd	114	77	62	5	7.7	-0.000006	<b>-0.0016</b>	ug/L
In	115	4192305	4814792	56657	1.2	4814791.975613		ug/L

Sn	120	978	1027	806	78.5	-0.000021	<b>0.0225</b>	ug/L
Sb	121	126	412	54	13.0	0.000055	<b>0.0649</b>	ug/L
Cs	133	15	24	2	7.2	0.000001	<b>0.0009</b>	ug/L
Ba	138	60	100	8	7.8	0.000007	<b>0.0103</b>	ug/L
Ce	140	18	22	3	11.3	0.000000	<b>-0.0001</b>	ug/L
> Tm	169	1270088	1314358	8996	0.7	1314357.717423		ug/L
Tl	205	10	18	5	25.5	0.000006	<b>0.0003</b>	ug/L
Pb	208	58	85	14	16.1	0.000018	<b>-0.0002</b>	ug/L
Bi	209	101	533	177	33.1	0.000325	<b>0.0351</b>	ug/L
Th	232	30	138	55	40.0	0.000081	<b>0.0176</b>	ug/L
U	238	6	15	2	11.5	0.000007	<b>-0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.686
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	116.427
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.848
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.486
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: rinse**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:22:52

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.139

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	40	3	7.7	-0.000006	<b>0.0065</b>	ug/L
Be	9	25	32	8	26.3	0.000009	<b>0.0363</b>	ug/L
B	11	322	749	5	0.6	0.000698	<b>0.8398</b>	ug/L
Na	23	3977	8623	365	4.2	0.007507	<b>2.2498</b>	ug/L
Mg	24	111	400	42	10.5	0.000485	<b>0.3822</b>	ug/L
Al	27	1010	1314	79	6.0	0.000374	<b>0.1648</b>	ug/L
K	39	430753	432052	6759	1.6	-0.063281	<b>-2.4337</b>	ug/L
Ca	44	32562	29215	84	0.3	-0.010783	<b>-16.8095</b>	ug/L
Sc	45	525930	572910	37723	6.6	572910.131633		ug/L
Ti	47	944	855	50	5.9	-0.000301	<b>-0.1851</b>	ug/L
Ti	48	-2694	-2257	9	0.4	0.001172	<b>0.0732</b>	ug/L
V	51	197	241	2	0.9	0.000047	<b>0.0091</b>	ug/L
Cr	52	7265	8525	376	4.4	0.001081	<b>0.0623</b>	ug/L
Cr	53	117	134	3	2.1	0.000012	<b>0.0002</b>	ug/L
Mn	55	280	501	26	5.2	0.000344	<b>0.0170</b>	ug/L
Fe	54	39304	79638	3327	4.2	0.064417	<b>59.6994</b>	ug/L
Fe	57	5552	6337	596	9.4	0.000490	<b>1.3253</b>	ug/L
Co	59	38	42	4	9.5	0.000002	<b>-0.0027</b>	ug/L
Ni	60	32	42	3	7.2	0.000014	<b>0.0032</b>	ug/L
Ni	62	114	158	18	11.2	0.000059	<b>0.1571</b>	ug/L
Cu	65	49	53	10	18.2	-0.000005	<b>0.0040</b>	ug/L
Cu	63	51	78	6	7.1	0.000097	<b>0.0059</b>	ug/L
Zn	66	439	276	21	7.6	-0.000935	<b>-0.0709</b>	ug/L
Zn	68	213	123	14	11.0	-0.000501	<b>-0.0293</b>	ug/L
Ge	74	202077	223593	13473	6.0	223592.662934		ug/L
As	75	-111	-171	34	19.9	-0.000218	<b>0.0092</b>	ug/L
As-1	75	9698	9946	293	2.9	-0.003452	<b>-0.2139</b>	ug/L
Se	77	129	150	6	3.9	0.000002	<b>0.0204</b>	ug/L
Se	82	20	20	10	48.3	-0.000001	<b>0.0285</b>	ug/L
Sr	88	76	108	13	12.0	0.000005	<b>-0.0028</b>	ug/L
Mo	98	130	167	62	36.8	0.000005	<b>0.0089</b>	ug/L
Ag	107	40	53	8	15.2	0.000002	<b>0.0035</b>	ug/L
Ag	109	40	51	4	6.9	0.000001	<b>0.0040</b>	ug/L
Cd	111	11	22	2	6.8	0.000002	<b>-0.0018</b>	ug/L
Cd	114	77	65	4	5.8	-0.000004	<b>-0.0007</b>	ug/L
In	115	4192305	4645298	200631	4.3	4645297.604347		ug/L

Sn	120	978	935	809	86.5	-0.000037	<b>0.0153</b>	ug/L
Sb	121	126	258	72	28.0	0.000025	<b>0.0365</b>	ug/L
Cs	133	15	20	1	5.9	0.000001	<b>0.0008</b>	ug/L
Ba	138	60	98	19	19.7	0.000007	<b>0.0104</b>	ug/L
Ce	140	18	27	6	21.4	0.000002	<b>0.0001</b>	ug/L
> Tm	169	1270088	1275863	51895	4.1	1275862.569907		ug/L
Tl	205	10	15	1	3.9	0.000004	<b>0.0001</b>	ug/L
Pb	208	58	84	5	5.8	0.000020	<b>-0.0000</b>	ug/L
Bi	209	101	324	136	42.2	0.000172	<b>0.0230</b>	ug/L
Th	232	30	93	38	40.9	0.000049	<b>0.0151</b>	ug/L
U	238	6	14	4	30.5	0.000006	<b>-0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.933
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.647
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.805
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	100.455
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: rinse**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:26:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.140

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	38	8	21.1	-0.000010	<b>0.0047</b>	ug/L
Be	9	25	28	3	12.4	0.000001	<b>0.0212</b>	ug/L
B	11	322	756	88	11.6	0.000669	<b>0.8066</b>	ug/L
Na	23	3977	9970	2198	22.0	0.009409	<b>2.3968</b>	ug/L
Mg	24	111	1020	1002	98.2	0.001534	<b>0.4996</b>	ug/L
Al	27	1010	1513	160	10.6	0.000652	<b>0.1874</b>	ug/L
K	39	430753	435540	5695	1.3	-0.078195	<b>-3.2562</b>	ug/L
Ca	44	32562	29219	294	1.0	-0.012207	<b>-19.4983</b>	ug/L
Sc	45	525930	588743	31550	5.4	588742.872579		ug/L
Ti	47	944	836	22	2.7	-0.000375	<b>-0.2427</b>	ug/L
Ti	48	-2694	-2263	14	0.6	0.001272	<b>0.0802</b>	ug/L
V	51	197	222	9	4.1	0.000004	<b>0.0065</b>	ug/L
Cr	52	7265	8780	321	3.7	0.001109	<b>0.0642</b>	ug/L
Cr	53	117	139	10	6.9	0.000014	<b>0.0017</b>	ug/L
Mn	55	280	519	15	2.8	0.000352	<b>0.0174</b>	ug/L
Fe	54	39304	82146	3110	3.8	0.064913	<b>60.1498</b>	ug/L
Fe	57	5552	6547	444	6.8	0.000563	<b>1.4930</b>	ug/L
Co	59	38	51	6	11.9	0.000014	<b>-0.0021</b>	ug/L
Ni	60	32	43	9	20.7	0.000013	<b>0.0030</b>	ug/L
Ni	62	114	163	12	7.1	0.000062	<b>0.1623</b>	ug/L
Cu	65	49	52	6	12.4	-0.000011	<b>0.0035</b>	ug/L
Cu	63	51	78	9	11.8	0.000093	<b>0.0057</b>	ug/L
Zn	66	439	288	14	5.0	-0.000892	<b>-0.0646</b>	ug/L
Zn	68	213	147	5	3.4	-0.000399	<b>-0.0092</b>	ug/L
Ge	74	202077	225680	8966	4.0	225679.719870		ug/L
As	75	-111	-193	29	15.3	-0.000307	<b>-0.0005</b>	ug/L
As-1	75	9698	10108	216	2.1	-0.003175	<b>-0.1813</b>	ug/L
Se	77	129	146	2	1.2	0.000000	<b>-0.0182</b>	ug/L
Se	82	20	11	9	87.6	-0.000003	<b>-0.0171</b>	ug/L
Sr	88	76	149	39	26.1	0.000014	<b>-0.0013</b>	ug/L
Mo	98	130	146	58	40.0	-0.000000	<b>0.0046</b>	ug/L
Ag	107	40	39	11	28.3	-0.000001	<b>0.0023</b>	ug/L
Ag	109	40	49	10	19.9	0.000001	<b>0.0039</b>	ug/L
Cd	111	11	17	6	32.8	0.000001	<b>-0.0040</b>	ug/L
Cd	114	77	60	7	11.4	-0.000006	<b>-0.0016</b>	ug/L
In	115	4192305	4688497	131520	2.8	4688497.457559		ug/L

Sn	120	978	942	849	90.2	-0.000036	<b>0.0158</b>	ug/L
Sb	121	126	208	43	20.5	0.000014	<b>0.0260</b>	ug/L
Cs	133	15	17	3	18.5	0.000000	<b>0.0007</b>	ug/L
Ba	138	60	120	7	6.0	0.000011	<b>0.0113</b>	ug/L
Ce	140	18	29	1	2.0	0.000002	<b>0.0002</b>	ug/L
> Tm	169	1270088	1292839	32943	2.5	1292838.694682		ug/L
Tl	205	10	16	2	14.1	0.000005	<b>0.0002</b>	ug/L
Pb	208	58	88	15	16.8	0.000022	<b>0.0001</b>	ug/L
Bi	209	101	271	77	28.5	0.000129	<b>0.0196</b>	ug/L
Th	232	30	64	22	34.9	0.000026	<b>0.0133</b>	ug/L
U	238	6	14	6	39.8	0.000006	<b>-0.0003</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.943
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.680
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.836
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.791
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:30:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV8.141

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6592	358	5.4	0.011888	<b>4.9547</b>	ug/L
Be	9	25	599	37	6.2	0.001042	<b>1.9664</b>	ug/L
B	11	322	48899	3066	6.3	0.088096	<b>99.3900</b>	ug/L
Na	23	3977	7164520	355823	5.0	12.995658	<b>1005.3476</b>	ug/L
Mg	24	111	9884535	570183	5.8	17.934231	<b>2008.5460</b>	ug/L
Al	27	1010	3459722	186816	5.4	6.276560	<b>510.4339</b>	ug/L
K	39	430753	10710039	657514	6.1	18.610348	<b>1027.3839</b>	ug/L
Ca	44	32562	590268	33950	5.8	1.009070	<b>1909.1488</b>	ug/L
Sc	45	525930	551157	31728	5.8	551157.128164		ug/L
Ti	47	944	8142	491	6.0	0.012975	<b>10.1152</b>	ug/L
Ti	48	-2694	78156	4566	5.8	0.146921	<b>10.3988</b>	ug/L
V	51	197	93438	4685	5.0	0.169206	<b>10.0802</b>	ug/L
Cr	52	7265	204134	13471	6.6	0.356466	<b>24.8322</b>	ug/L
Cr	53	117	23047	1468	6.4	0.041588	<b>25.5136</b>	ug/L
Mn	55	280	285825	18988	6.6	0.517913	<b>24.4072</b>	ug/L
Fe	54	39304	335518	23852	7.1	0.533715	<b>485.3463</b>	ug/L
Fe	57	5552	127877	8953	7.0	0.221347	<b>510.3891</b>	ug/L
Co	59	38	49142	3256	6.6	0.089063	<b>5.1375</b>	ug/L
Ni	60	32	21758	1543	7.1	0.039397	<b>10.2111</b>	ug/L
Ni	62	114	3622	221	6.1	0.006355	<b>10.5444</b>	ug/L
Cu	65	49	25676	1569	6.1	0.116567	<b>9.7805</b>	ug/L
Cu	63	51	51128	3029	5.9	0.232358	<b>9.9248</b>	ug/L
Zn	66	439	72888	4072	5.6	0.329485	<b>49.3725</b>	ug/L
Zn	68	213	55410	3354	6.1	0.251035	<b>49.4784</b>	ug/L
Ge	74	202077	219802	13033	5.9	219801.810269		ug/L
As	75	-111	20815	1209	5.8	0.095258	<b>10.3584</b>	ug/L
As-1	75	9698	28709	1534	5.3	0.082657	<b>9.9218</b>	ug/L
Se	77	129	3426	246	7.2	0.000682	<b>20.7262</b>	ug/L
Se	82	20	4518	306	6.8	0.000935	<b>21.2827</b>	ug/L
Sr	88	76	266040	16002	6.0	0.055355	<b>9.8777</b>	ug/L
Mo	98	130	28507	2289	8.0	0.005898	<b>5.0883</b>	ug/L
Ag	107	40	23019	1356	5.9	0.004782	<b>2.0205</b>	ug/L
Ag	109	40	22138	1313	5.9	0.004598	<b>2.0070</b>	ug/L
Cd	111	11	2692	154	5.7	0.000558	<b>1.0101</b>	ug/L
Cd	114	77	6316	388	6.1	0.001296	<b>1.0173</b>	ug/L
In	115	4192305	4803714	264621	5.5	4803713.509117		ug/L

Sn	120	978	51882	2903	5.6	0.010567	<b>4.9025</b>	ug/L
Sb	121	126	9165	784	8.5	0.001876	<b>1.7823</b>	ug/L
Cs	133	15	140977	5084	3.6	0.029365	<b>4.8378</b>	ug/L
Ba	138	60	488271	19258	3.9	0.101691	<b>21.0778</b>	ug/L
Ce	140	18	24501	907	3.7	0.005100	<b>0.9576</b>	ug/L
> Tm	169	1270088	1331113	47027	3.5	1331113.210799		ug/L
Tl	205	10	7493	351	4.7	0.005620	<b>0.5121</b>	ug/L
Pb	208	58	101308	4338	4.3	0.076048	<b>5.1436</b>	ug/L
Bi	209	101	399024	22668	5.7	0.299533	<b>23.7762</b>	ug/L
Th	232	30	17425	1445	8.3	0.013052	<b>1.0021</b>	ug/L
U	238	6	23072	982	4.3	0.017325	<b>1.0129</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.797
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.771
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.584
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.805
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCB8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:34:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB8.142

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	40	2	3.8	-0.000002	<b>0.0081</b>	ug/L
Be	9	25	29	7	24.1	0.000006	<b>0.0303</b>	ug/L
B	11	322	724	73	10.0	0.000699	<b>0.8408</b>	ug/L
Na	23	3977	5802	257	4.4	0.002946	<b>1.8976</b>	ug/L
Mg	24	111	334	170	51.0	0.000395	<b>0.3720</b>	ug/L
Al	27	1010	1019	64	6.3	-0.000073	<b>0.1284</b>	ug/L
K	39	430753	435475	3086	0.7	-0.030472	<b>-0.6244</b>	ug/L
Ca	44	32562	29413	322	1.1	-0.008653	<b>-12.7854</b>	ug/L
Sc	45	525930	552243	3789	0.7	552243.188240		ug/L
Ti	47	944	870	36	4.1	-0.000220	<b>-0.1225</b>	ug/L
Ti	48	-2694	-2314	74	3.2	0.000932	<b>0.0562</b>	ug/L
V	51	197	246	63	25.6	0.000073	<b>0.0106</b>	ug/L
Cr	52	7265	8098	153	1.9	0.000851	<b>0.0463</b>	ug/L
Cr	53	117	129	27	20.7	0.000012	<b>-0.0001</b>	ug/L
Mn	55	280	443	257	58.1	0.000273	<b>0.0137</b>	ug/L
Fe	54	39304	41283	545	1.3	0.000030	<b>1.3014</b>	ug/L
Fe	57	5552	6166	140	2.3	0.000609	<b>1.5984</b>	ug/L
Co	59	38	64	38	59.1	0.000045	<b>-0.0003</b>	ug/L
Ni	60	32	40	12	30.0	0.000012	<b>0.0028</b>	ug/L
Ni	62	114	143	19	13.3	0.000043	<b>0.1314</b>	ug/L
Cu	65	49	66	14	21.4	0.000061	<b>0.0096</b>	ug/L
Cu	63	51	96	26	27.2	0.000187	<b>0.0097</b>	ug/L
Zn	66	439	406	21	5.2	-0.000324	<b>0.0205</b>	ug/L
Zn	68	213	208	9	4.2	-0.000108	<b>0.0481</b>	ug/L
Ge	74	202077	219998	7436	3.4	219998.426331		ug/L
As	75	-111	-92	65	70.8	0.000126	<b>0.0465</b>	ug/L
As-1	75	9698	9580	162	1.7	-0.004428	<b>-0.3287</b>	ug/L
Se	77	129	156	16	10.1	0.000002	<b>0.0424</b>	ug/L
Se	82	20	42	6	14.3	0.000004	<b>0.1359</b>	ug/L
Sr	88	76	104	37	35.0	0.000004	<b>-0.0030</b>	ug/L
Mo	98	130	682	149	21.9	0.000114	<b>0.1028</b>	ug/L
Ag	107	40	82	32	39.1	0.000008	<b>0.0061</b>	ug/L
Ag	109	40	79	23	28.7	0.000007	<b>0.0066</b>	ug/L
Cd	111	11	16	5	33.1	0.000001	<b>-0.0044</b>	ug/L
Cd	114	77	69	6	8.8	-0.000004	<b>-0.0002</b>	ug/L
In	115	4192305	4707654	20282	0.4	4707653.544339		ug/L

Sn	120	978	985	680	69.0	-0.000024	<b>0.0210</b>	ug/L
Sb	121	126	1068	59	5.6	0.000197	<b>0.1984</b>	ug/L
Cs	133	15	35	18	51.8	0.000004	<b>0.0013</b>	ug/L
Ba	138	60	88	37	42.0	0.000004	<b>0.0099</b>	ug/L
Ce	140	18	18	3	14.2	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1284544	4846	0.4	1284544.044466		ug/L
Tl	205	10	15	0	0.0	0.000004	<b>0.0001</b>	ug/L
Pb	208	58	68	4	5.9	0.000007	<b>-0.0009</b>	ug/L
Bi	209	101	2030	333	16.4	0.001500	<b>0.1283</b>	ug/L
Th	232	30	446	106	23.8	0.000324	<b>0.0360</b>	ug/L
U	238	6	13	2	12.1	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.003
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.869
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.293
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.138
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BLK1**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 20:38:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 201

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BLK1.143

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	38	4	11.5	-0.000004	<b>0.0073</b>	ug/L
Be	9	25	26	7	25.2	0.000002	<b>0.0232</b>	ug/L
B	11	322	513	28	5.5	0.000349	<b>0.4459</b>	ug/L
Na	23	3977	4038	770	19.1	-0.000008	<b>1.6695</b>	ug/L
Mg	24	111	590	488	82.7	0.000890	<b>0.4275</b>	ug/L
Al	27	1010	1181	95	8.0	0.000291	<b>0.1581</b>	ug/L
K	39	430753	431546	1848	0.4	-0.011072	<b>0.4455</b>	ug/L
Ca	44	32562	29505	137	0.5	-0.006673	<b>-9.0461</b>	ug/L
Sc	45	525930	534131	3866	0.7	534130.612674		ug/L
Ti	47	944	889	31	3.4	-0.000131	<b>-0.0537</b>	ug/L
Ti	48	-2694	-2391	12	0.5	0.000645	<b>0.0358</b>	ug/L
V	51	197	202	7	3.5	0.000004	<b>0.0065</b>	ug/L
Cr	52	7265	7469	71	1.0	0.000170	<b>-0.0012</b>	ug/L
Cr	53	117	107	17	15.6	-0.000021	<b>-0.0202</b>	ug/L
Mn	55	280	218	6	2.8	-0.000124	<b>-0.0050</b>	ug/L
Fe	54	39304	23306	491	2.1	-0.031101	<b>-26.9338</b>	ug/L
Fe	57	5552	5606	74	1.3	-0.000061	<b>0.0552</b>	ug/L
Co	59	38	48	7	15.5	0.000017	<b>-0.0019</b>	ug/L
Ni	60	32	33	4	12.5	0.000001	<b>-0.0002</b>	ug/L
Ni	62	114	154	8	5.0	0.000072	<b>0.1786</b>	ug/L
Cu	65	49	58	9	14.7	0.000033	<b>0.0072</b>	ug/L
Cu	63	51	68	10	14.2	0.000068	<b>0.0046</b>	ug/L
Zn	66	439	278	25	8.8	-0.000859	<b>-0.0597</b>	ug/L
Zn	68	213	101	7	6.5	-0.000576	<b>-0.0440</b>	ug/L
Ge	74	202077	211946	2707	1.3	211946.462335		ug/L
As	75	-111	-215	36	16.9	-0.000466	<b>-0.0177</b>	ug/L
As-1	75	9698	9046	69	0.8	-0.005301	<b>-0.4316</b>	ug/L
Se	77	129	151	20	13.0	0.000001	<b>0.0101</b>	ug/L
Se	82	20	15	5	34.6	-0.000002	<b>0.0046</b>	ug/L
Sr	88	76	111	79	71.2	0.000005	<b>-0.0028</b>	ug/L
Mo	98	130	225	66	29.4	0.000017	<b>0.0193</b>	ug/L
Ag	107	40	61	18	29.1	0.000004	<b>0.0042</b>	ug/L
Ag	109	40	47	12	24.7	0.000000	<b>0.0036</b>	ug/L
Cd	111	11	16	1	7.1	0.000001	<b>-0.0042</b>	ug/L
Cd	114	77	63	7	11.0	-0.000005	<b>-0.0011</b>	ug/L
In	115	4192305	4694910	28371	0.6	4694910.224807		ug/L

Sn	120	978	432	416	96.3	-0.000142	<b>-0.0331</b>	ug/L
Sb	121	126	339	23	6.8	0.000042	<b>0.0525</b>	ug/L
Cs	133	15	31	23	73.8	0.000003	<b>0.0011</b>	ug/L
Ba	138	60	118	139	118.2	0.000011	<b>0.0112</b>	ug/L
Ce	140	18	17	2	11.8	-0.000001	<b>-0.0003</b>	ug/L
> Tm	169	1270088	1283881	4795	0.4	1283880.729691		ug/L
Tl	205	10	17	2	12.0	0.000006	<b>0.0003</b>	ug/L
Pb	208	58	76	2	2.0	0.000013	<b>-0.0005</b>	ug/L
Bi	209	101	226	79	34.9	0.000096	<b>0.0170</b>	ug/L
Th	232	30	24	1	4.9	-0.000005	<b>0.0110</b>	ug/L
U	238	6	12	3	22.0	0.000005	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	101.559
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.884
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.989
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.086
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BLK2**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 20:41:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BLK2.144

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	42	6	13.0	0.000003	<b>0.0100</b>	ug/L
Be	9	25	29	6	18.8	0.000007	<b>0.0332</b>	ug/L
B	11	322	487	22	4.5	0.000284	<b>0.3721</b>	ug/L
Na	23	3977	3432	98	2.9	-0.001252	<b>1.5734</b>	ug/L
Mg	24	111	123	7	5.9	0.000014	<b>0.3294</b>	ug/L
Al	27	1010	719	31	4.3	-0.000597	<b>0.0858</b>	ug/L
K	39	430753	433204	3026	0.7	-0.022394	<b>-0.1788</b>	ug/L
Ca	44	32562	29433	248	0.8	-0.007785	<b>-11.1460</b>	ug/L
Sc	45	525930	544059	16564	3.0	544059.240442		ug/L
Ti	47	944	861	9	1.0	-0.000212	<b>-0.1166</b>	ug/L
Ti	48	-2694	-2370	27	1.1	0.000763	<b>0.0442</b>	ug/L
V	51	197	219	26	11.8	0.000028	<b>0.0080</b>	ug/L
Cr	52	7265	7716	132	1.7	0.000373	<b>0.0130</b>	ug/L
Cr	53	117	119	4	3.3	-0.000003	<b>-0.0090</b>	ug/L
Mn	55	280	293	92	31.3	0.000005	<b>0.0010</b>	ug/L
Fe	54	39304	28434	455	1.6	-0.022449	<b>-19.0866</b>	ug/L
Fe	57	5552	5879	293	5.0	0.000246	<b>0.7606</b>	ug/L
Co	59	38	54	9	15.9	0.000028	<b>-0.0012</b>	ug/L
Ni	60	32	28	5	19.4	-0.000008	<b>-0.0025</b>	ug/L
Ni	62	114	149	3	2.0	0.000059	<b>0.1570</b>	ug/L
Cu	65	49	47	6	11.6	-0.000026	<b>0.0022</b>	ug/L
Cu	63	51	64	23	35.9	0.000037	<b>0.0033</b>	ug/L
Zn	66	439	297	19	6.4	-0.000826	<b>-0.0547</b>	ug/L
Zn	68	213	104	3	2.9	-0.000583	<b>-0.0453</b>	ug/L
Ge	74	202077	220822	2554	1.2	220821.977921		ug/L
As	75	-111	-116	55	47.5	0.000023	<b>0.0353</b>	ug/L
As-1	75	9698	9411	213	2.3	-0.005375	<b>-0.4402</b>	ug/L
Se	77	129	119	6	4.9	-0.000006	<b>-0.2019</b>	ug/L
Se	82	20	13	24	189.0	-0.000002	<b>-0.0089</b>	ug/L
Sr	88	76	73	24	33.0	-0.000003	<b>-0.0043</b>	ug/L
Mo	98	130	155	41	26.3	0.000001	<b>0.0060</b>	ug/L
Ag	107	40	31	6	17.6	-0.000003	<b>0.0015</b>	ug/L
Ag	109	40	38	5	12.3	-0.000001	<b>0.0028</b>	ug/L
Cd	111	11	18	5	25.5	0.000001	<b>-0.0038</b>	ug/L
Cd	114	77	78	3	4.2	-0.000002	<b>0.0011</b>	ug/L
In	115	4192305	4754479	84219	1.8	4754479.077495		ug/L



Sn	120	978	429	397	92.5	-0.000143	<b>-0.0339</b>	ug/L
Sb	121	126	257	10	3.7	0.000024	<b>0.0353</b>	ug/L
Cs	133	15	19	8	41.8	0.000000	<b>0.0007</b>	ug/L
Ba	138	60	52	3	5.1	-0.000003	<b>0.0083</b>	ug/L
Ce	140	18	19	1	6.2	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1300875	8493	0.7	1300874.939090		ug/L
Tl	205	10	9	3	29.4	-0.000001	<b>-0.0003</b>	ug/L
Pb	208	58	103	19	18.1	0.000033	<b>0.0009</b>	ug/L
Bi	209	101	255	66	26.0	0.000116	<b>0.0185</b>	ug/L
Th	232	30	33	6	16.9	0.000002	<b>0.0115</b>	ug/L
U	238	6	10	4	40.3	0.000003	<b>-0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.447
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	109.276
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.410
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.424
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BLK3**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 20:45:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 203

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BLK3.145

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	36	2	5.7	-0.000008	<b>0.0053</b>	ug/L
Be	9	25	28	3	9.1	0.000004	<b>0.0266</b>	ug/L
B	11	322	467	23	4.9	0.000240	<b>0.3232</b>	ug/L
Na	23	3977	3369	28	0.8	-0.001406	<b>1.5615</b>	ug/L
Mg	24	111	114	6	5.2	-0.000004	<b>0.3274</b>	ug/L
Al	27	1010	608	13	2.2	-0.000809	<b>0.0686</b>	ug/L
K	39	430753	434309	2929	0.7	-0.025620	<b>-0.3568</b>	ug/L
Ca	44	32562	29207	177	0.6	-0.008557	<b>-12.6056</b>	ug/L
Sc	45	525930	547409	2498	0.5	547408.951384		ug/L
Ti	47	944	861	24	2.8	-0.000223	<b>-0.1252</b>	ug/L
Ti	48	-2694	-2387	24	1.0	0.000762	<b>0.0441</b>	ug/L
V	51	197	187	14	7.2	-0.000033	<b>0.0043</b>	ug/L
Cr	52	7265	7796	164	2.1	0.000429	<b>0.0168</b>	ug/L
Cr	53	117	103	6	5.8	-0.000034	<b>-0.0278</b>	ug/L
Mn	55	280	247	6	2.6	-0.000081	<b>-0.0030</b>	ug/L
Fe	54	39304	28761	229	0.8	-0.022191	<b>-18.8527</b>	ug/L
Fe	57	5552	5992	117	2.0	0.000390	<b>1.0941</b>	ug/L
Co	59	38	45	8	17.6	0.000010	<b>-0.0023</b>	ug/L
Ni	60	32	35	7	18.6	0.000004	<b>0.0007</b>	ug/L
Ni	62	114	149	11	7.5	0.000057	<b>0.1540</b>	ug/L
Cu	65	49	51	6	10.9	-0.000010	<b>0.0036</b>	ug/L
Cu	63	51	74	4	5.5	0.000083	<b>0.0053</b>	ug/L
Zn	66	439	265	19	7.2	-0.000961	<b>-0.0749</b>	ug/L
Zn	68	213	100	10	9.6	-0.000595	<b>-0.0477</b>	ug/L
Ge	74	202077	219314	2220	1.0	219314.412613		ug/L
As	75	-111	-160	38	23.5	-0.000179	<b>0.0134</b>	ug/L
As-1	75	9698	9414	90	1.0	-0.005061	<b>-0.4032</b>	ug/L
Se	77	129	127	7	5.2	-0.000004	<b>-0.1418</b>	ug/L
Se	82	20	11	18	168.1	-0.000002	<b>-0.0145</b>	ug/L
Sr	88	76	84	10	11.4	-0.000000	<b>-0.0038</b>	ug/L
Mo	98	130	127	30	23.2	-0.000004	<b>0.0014</b>	ug/L
Ag	107	40	40	6	14.1	-0.000001	<b>0.0024</b>	ug/L
Ag	109	40	34	7	21.1	-0.000002	<b>0.0025</b>	ug/L
Cd	111	11	17	2	13.3	0.000001	<b>-0.0039</b>	ug/L
Cd	114	77	63	11	18.3	-0.000005	<b>-0.0012</b>	ug/L
In	115	4192305	4701253	32113	0.7	4701253.109335		ug/L

Sn	120	978	410	371	90.4	-0.000146	<b>-0.0353</b>	ug/L
Sb	121	126	180	32	17.5	0.000008	<b>0.0204</b>	ug/L
Cs	133	15	15	2	14.2	-0.000001	<b>0.0006</b>	ug/L
Ba	138	60	31	5	16.4	-0.000008	<b>0.0074</b>	ug/L
Ce	140	18	18	3	14.7	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1287480	3176	0.2	1287480.062272		ug/L
Tl	205	10	14	4	31.1	0.000003	<b>0.0001</b>	ug/L
Pb	208	58	95	3	3.4	0.000028	<b>0.0005</b>	ug/L
Bi	209	101	159	49	30.6	0.000044	<b>0.0128</b>	ug/L
Th	232	30	27	9	34.0	-0.000002	<b>0.0112</b>	ug/L
U	238	6	13	3	22.9	0.000006	<b>-0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.084
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.530
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.140
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.369
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BLK4**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 20:49:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 204

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BLK4.146

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	38	9	23.2	-0.000006	<b>0.0062</b>	ug/L
Be	9	25	29	8	28.4	0.000007	<b>0.0320</b>	ug/L
B	11	322	441	17	3.9	0.000192	<b>0.2688</b>	ug/L
Na	23	3977	3836	71	1.8	-0.000570	<b>1.6261</b>	ug/L
Mg	24	111	153	27	17.4	0.000067	<b>0.3353</b>	ug/L
Al	27	1010	834	9	1.1	-0.000401	<b>0.1018</b>	ug/L
K	39	430753	434247	1833	0.4	-0.027731	<b>-0.4732</b>	ug/L
Ca	44	32562	29322	211	0.7	-0.008481	<b>-12.4607</b>	ug/L
Sc	45	525930	548793	4476	0.8	548792.539396		ug/L
Ti	47	944	906	49	5.5	-0.000145	<b>-0.0643</b>	ug/L
Ti	48	-2694	-2372	18	0.8	0.000799	<b>0.0467</b>	ug/L
V	51	197	189	19	10.1	-0.000030	<b>0.0045</b>	ug/L
Cr	52	7265	7939	94	1.2	0.000653	<b>0.0325</b>	ug/L
Cr	53	117	110	16	14.5	-0.000020	<b>-0.0197</b>	ug/L
Mn	55	280	264	9	3.4	-0.000051	<b>-0.0016</b>	ug/L
Fe	54	39304	28693	720	2.5	-0.022454	<b>-19.0907</b>	ug/L
Fe	57	5552	5916	135	2.3	0.000223	<b>0.7079</b>	ug/L
Co	59	38	42	4	8.9	0.000005	<b>-0.0026</b>	ug/L
Ni	60	32	34	9	26.4	0.000001	<b>-0.0001</b>	ug/L
Ni	62	114	161	16	10.0	0.000078	<b>0.1887</b>	ug/L
Cu	65	49	49	4	8.9	-0.000016	<b>0.0031</b>	ug/L
Cu	63	51	66	8	11.5	0.000050	<b>0.0038</b>	ug/L
Zn	66	439	337	18	5.2	-0.000623	<b>-0.0243</b>	ug/L
Zn	68	213	142	7	4.6	-0.000398	<b>-0.0089</b>	ug/L
Ge	74	202077	217465	1451	0.7	217464.664512		ug/L
As	75	-111	-201	46	23.0	-0.000376	<b>-0.0079</b>	ug/L
As-1	75	9698	9261	81	0.9	-0.005402	<b>-0.4434</b>	ug/L
Se	77	129	138	10	7.1	-0.000001	<b>-0.0671</b>	ug/L
Se	82	20	7	12	177.7	-0.000003	<b>-0.0355</b>	ug/L
Sr	88	76	64	7	10.3	-0.000004	<b>-0.0045</b>	ug/L
Mo	98	130	105	25	24.1	-0.000009	<b>-0.0026</b>	ug/L
Ag	107	40	30	3	8.3	-0.000003	<b>0.0015</b>	ug/L
Ag	109	40	27	9	33.9	-0.000004	<b>0.0018</b>	ug/L
Cd	111	11	19	3	13.9	0.000002	<b>-0.0032</b>	ug/L
Cd	114	77	71	12	16.4	-0.000003	<b>0.0002</b>	ug/L
In	115	4192305	4669580	34481	0.7	4669579.794177		ug/L

Sn	120	978	411	435	105.8	-0.000145	<b>-0.0348</b>	ug/L
Sb	121	126	149	20	13.1	0.000002	<b>0.0144</b>	ug/L
Cs	133	15	18	7	39.8	0.000000	<b>0.0007</b>	ug/L
Ba	138	60	44	7	16.9	-0.000005	<b>0.0080</b>	ug/L
Ce	140	18	23	3	13.5	0.000001	<b>-0.0000</b>	ug/L
> Tm	169	1270088	1282436	3754	0.3	1282436.303837		ug/L
Tl	205	10	13	3	24.1	0.000002	<b>-0.0000</b>	ug/L
Pb	208	58	104	5	4.6	0.000035	<b>0.0010</b>	ug/L
Bi	209	101	138	32	23.4	0.000028	<b>0.0115</b>	ug/L
Th	232	30	23	4	17.8	-0.000005	<b>0.0110</b>	ug/L
U	238	6	14	6	44.9	0.000006	<b>-0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	104.347
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.615
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.385
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	100.972
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCV9**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 20:53:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCV9.147

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6774	113	1.7	0.011709	<b>4.8804</b>	ug/L
Be	9	25	632	26	4.0	0.001052	<b>1.9856</b>	ug/L
B	11	322	51177	1024	2.0	0.088424	<b>99.7599</b>	ug/L
Na	23	3977	7484302	109322	1.5	13.013330	<b>1006.7125</b>	ug/L
Mg	24	111	10347782	97487	0.9	18.003428	<b>2016.2944</b>	ug/L
Al	27	1010	3611983	52261	1.4	6.282044	<b>510.8798</b>	ug/L
K	39	430753	11152207	191488	1.7	18.584262	<b>1025.9452</b>	ug/L
Ca	44	32562	617363	4205	0.7	1.012236	<b>1915.1274</b>	ug/L
Sc	45	525930	574792	8116	1.4	574791.894717		ug/L
Ti	47	944	8384	62	0.7	0.012792	<b>9.9733</b>	ug/L
Ti	48	-2694	84296	1230	1.5	0.151776	<b>10.7428</b>	ug/L
V	51	197	98189	1919	2.0	0.170445	<b>10.1540</b>	ug/L
Cr	52	7265	211100	2288	1.1	0.353466	<b>24.6231</b>	ug/L
Cr	53	117	24303	354	1.5	0.042070	<b>25.8091</b>	ug/L
Mn	55	280	299268	1233	0.4	0.520175	<b>24.5138</b>	ug/L
Fe	54	39304	357703	5740	1.6	0.547618	<b>497.9564</b>	ug/L
Fe	57	5552	136888	379	0.3	0.227632	<b>524.8764</b>	ug/L
Co	59	38	52122	970	1.9	0.090617	<b>5.2272</b>	ug/L
Ni	60	32	23335	62	0.3	0.040544	<b>10.5082</b>	ug/L
Ni	62	114	3853	90	2.3	0.006488	<b>10.7641</b>	ug/L
Cu	65	49	27575	348	1.3	0.120272	<b>10.0912</b>	ug/L
Cu	63	51	54364	261	0.5	0.237361	<b>10.1385</b>	ug/L
Zn	66	439	77709	312	0.4	0.337493	<b>50.5707</b>	ug/L
Zn	68	213	58793	488	0.8	0.255908	<b>50.4376</b>	ug/L
Ge	74	202077	228836	4004	1.7	228835.548288		ug/L
As	75	-111	21597	188	0.9	0.094952	<b>10.3252</b>	ug/L
As-1	75	9698	29953	412	1.4	0.082951	<b>9.9564</b>	ug/L
Se	77	129	3622	21	0.6	0.000707	<b>21.4877</b>	ug/L
Se	82	20	4744	110	2.3	0.000962	<b>21.8820</b>	ug/L
Sr	88	76	282258	5725	2.0	0.057474	<b>10.2561</b>	ug/L
Mo	98	130	29540	564	1.9	0.005987	<b>5.1657</b>	ug/L
Ag	107	40	23694	166	0.7	0.004817	<b>2.0355</b>	ug/L
Ag	109	40	23054	311	1.3	0.004687	<b>2.0455</b>	ug/L
Cd	111	11	2784	32	1.1	0.000565	<b>1.0224</b>	ug/L
Cd	114	77	6304	108	1.7	0.001266	<b>0.9933</b>	ug/L
In	115	4192305	4909294	62722	1.3	4909293.966810		ug/L

Sn	120	978	52844	578	1.1	0.010531	<b>4.8861</b>	ug/L
Sb	121	126	9387	580	6.2	0.001883	<b>1.7888</b>	ug/L
Cs	133	15	142790	449	0.3	0.029085	<b>4.7916</b>	ug/L
Ba	138	60	493032	1380	0.3	0.100423	<b>20.8150</b>	ug/L
Ce	140	18	24581	215	0.9	0.005003	<b>0.9394</b>	ug/L
> Tm	169	1270088	1343786	8372	0.6	1343786.109918		ug/L
Tl	205	10	7638	109	1.4	0.005676	<b>0.5172</b>	ug/L
Pb	208	58	104448	379	0.4	0.077683	<b>5.2542</b>	ug/L
Bi	209	101	407487	4252	1.0	0.303165	<b>24.0644</b>	ug/L
Th	232	30	17958	705	3.9	0.013341	<b>1.0240</b>	ug/L
U	238	6	23720	303	1.3	0.017646	<b>1.0317</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.290
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	113.242
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.102
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	105.803
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCB9

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 20:56:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCB9.148

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	33	7	22.1	-0.000014	<b>0.0030</b>	ug/L
Be	9	25	26	3	12.5	0.000000	<b>0.0198</b>	ug/L
B	11	322	691	113	16.4	0.000651	<b>0.7868</b>	ug/L
Na	23	3977	5437	259	4.8	0.002382	<b>1.8540</b>	ug/L
Mg	24	111	399	308	77.2	0.000522	<b>0.3863</b>	ug/L
Al	27	1010	1068	84	7.9	0.000034	<b>0.1371</b>	ug/L
K	39	430753	432686	1077	0.2	-0.027878	<b>-0.4813</b>	ug/L
Ca	44	32562	29385	99	0.3	-0.008182	<b>-11.8965</b>	ug/L
Sc	45	525930	546951	6426	1.2	546951.098364		ug/L
Ti	47	944	881	41	4.6	-0.000185	<b>-0.0954</b>	ug/L
Ti	48	-2694	-2379	25	1.0	0.000772	<b>0.0448</b>	ug/L
V	51	197	183	9	4.8	-0.000039	<b>0.0040</b>	ug/L
Cr	52	7265	7771	88	1.1	0.000397	<b>0.0146</b>	ug/L
Cr	53	117	113	5	4.1	-0.000015	<b>-0.0165</b>	ug/L
Mn	55	280	289	12	4.2	-0.000004	<b>0.0006</b>	ug/L
Fe	54	39304	40807	1089	2.7	-0.000123	<b>1.1624</b>	ug/L
Fe	57	5552	6157	151	2.5	0.000701	<b>1.8100</b>	ug/L
Co	59	38	39	10	24.5	-0.000001	<b>-0.0029</b>	ug/L
Ni	60	32	29	4	15.4	-0.000007	<b>-0.0022</b>	ug/L
Ni	62	114	141	12	8.2	0.000041	<b>0.1285</b>	ug/L
Cu	65	49	61	12	19.5	0.000037	<b>0.0076</b>	ug/L
Cu	63	51	75	6	8.1	0.000091	<b>0.0056</b>	ug/L
Zn	66	439	415	36	8.6	-0.000269	<b>0.0287</b>	ug/L
Zn	68	213	210	31	14.8	-0.000089	<b>0.0518</b>	ug/L
Ge	74	202077	218429	3827	1.8	218429.155302		ug/L
As	75	-111	-124	17	13.6	-0.000017	<b>0.0310</b>	ug/L
As-1	75	9698	9688	117	1.2	-0.003635	<b>-0.2354</b>	ug/L
Se	77	129	161	6	3.4	0.000004	<b>0.0795</b>	ug/L
Se	82	20	40	16	38.3	0.000004	<b>0.1298</b>	ug/L
Sr	88	76	120	79	66.0	0.000008	<b>-0.0024</b>	ug/L
Mo	98	130	650	120	18.5	0.000108	<b>0.0978</b>	ug/L
Ag	107	40	74	31	42.2	0.000006	<b>0.0054</b>	ug/L
Ag	109	40	74	21	27.7	0.000006	<b>0.0062</b>	ug/L
Cd	111	11	19	6	32.0	0.000002	<b>-0.0032</b>	ug/L
Cd	114	77	68	14	20.9	-0.000004	<b>-0.0003</b>	ug/L
In	115	4192305	4674932	54639	1.2	4674931.988380		ug/L

Sn	120	978	846	468	55.3	-0.000053	<b>0.0077</b>	ug/L
Sb	121	126	1085	44	4.1	0.000202	<b>0.2033</b>	ug/L
Cs	133	15	34	15	44.7	0.000004	<b>0.0012</b>	ug/L
Ba	138	60	91	32	35.2	0.000005	<b>0.0100</b>	ug/L
Ce	140	18	20	5	25.1	-0.000000	<b>-0.0002</b>	ug/L
> Tm	169	1270088	1282856	10079	0.8	1282855.705773		ug/L
Tl	205	10	10	2	20.1	0.000000	<b>-0.0002</b>	ug/L
Pb	208	58	66	14	20.7	0.000005	<b>-0.0010</b>	ug/L
Bi	209	101	2028	347	17.1	0.001499	<b>0.1283</b>	ug/L
Th	232	30	463	118	25.6	0.000337	<b>0.0369</b>	ug/L
U	238	6	11	5	41.7	0.000004	<b>-0.0005</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.997
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	108.092
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.512
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.005
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS1**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:00:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 205

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS1.149

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	396	44	11.1	0.000715	<b>0.3062</b>	ug/L
Be	9	25	60	7	11.7	0.000073	<b>0.1553</b>	ug/L
B	11	322	1416	56	4.0	0.002211	<b>2.5457</b>	ug/L
Na	23	3977	186121	6169	3.3	0.363603	<b>29.7518</b>	ug/L
Mg	24	111	25531	1325	5.2	0.050678	<b>6.0026</b>	ug/L
Al	27	1010	12412	606	4.9	0.022824	<b>1.9900</b>	ug/L
K	39	430753	484868	6194	1.3	0.148398	<b>9.2400</b>	ug/L
Ca	44	32562	44812	732	1.6	0.027489	<b>55.4672</b>	ug/L
Sc	45	525930	501502	18595	3.7	501501.777517		ug/L
Ti	47	944	1187	7	0.6	0.000574	<b>0.4937</b>	ug/L
Ti	48	-2694	437	144	33.0	0.005988	<b>0.4143</b>	ug/L
V	51	197	2684	75	2.8	0.004980	<b>0.3028</b>	ug/L
Cr	52	7265	9284	291	3.1	0.004702	<b>0.3146</b>	ug/L
Cr	53	117	347	25	7.3	0.000471	<b>0.2817</b>	ug/L
Mn	55	280	1300	103	7.9	0.002059	<b>0.0979</b>	ug/L
Fe	54	39304	31758	1199	3.8	-0.011399	<b>-9.0642</b>	ug/L
Fe	57	5552	7422	258	3.5	0.004244	<b>9.9759</b>	ug/L
Co	59	38	1784	109	6.1	0.003483	<b>0.1982</b>	ug/L
Ni	60	32	810	34	4.2	0.001555	<b>0.4028</b>	ug/L
Ni	62	114	241	21	8.6	0.000263	<b>0.4947</b>	ug/L
Cu	65	49	532	34	6.4	0.002473	<b>0.2118</b>	ug/L
Cu	63	51	1040	64	6.2	0.005050	<b>0.2174</b>	ug/L
Zn	66	439	966	35	3.6	0.002761	<b>0.4821</b>	ug/L
Zn	68	213	579	33	5.7	0.001902	<b>0.4438</b>	ug/L
Ge	74	202077	196082	9369	4.8	196081.867508		ug/L
As	75	-111	597	69	11.6	0.003596	<b>0.4226</b>	ug/L
As-1	75	9698	9733	125	1.3	0.001718	<b>0.3947</b>	ug/L
Se	77	129	193	31	15.9	0.000014	<b>0.3837</b>	ug/L
Se	82	20	105	11	10.2	0.000019	<b>0.4841</b>	ug/L
Sr	88	76	2458	139	5.6	0.000548	<b>0.0942</b>	ug/L
Mo	98	130	402	63	15.6	0.000062	<b>0.0578</b>	ug/L
Ag	107	40	452	33	7.3	0.000095	<b>0.0427</b>	ug/L
Ag	109	40	433	40	9.3	0.000090	<b>0.0427</b>	ug/L
Cd	111	11	71	8	10.6	0.000014	<b>0.0192</b>	ug/L
Cd	114	77	173	32	18.6	0.000022	<b>0.0196</b>	ug/L
In	115	4192305	4335076	134258	3.1	4335075.877970		ug/L

Sn	120	978	5656	616	10.9	0.001070	<b>0.5252</b>	ug/L
Sb	121	126	631	55	8.8	0.000115	<b>0.1214</b>	ug/L
Cs	133	15	2587	76	2.9	0.000593	<b>0.0984</b>	ug/L
Ba	138	60	1897	97	5.1	0.000423	<b>0.0966</b>	ug/L
Ce	140	18	432	13	3.0	0.000095	<b>0.0178</b>	ug/L
> Tm	169	1270088	1225841	38615	3.2	1225840.791564		ug/L
Tl	205	10	288	25	8.7	0.000227	<b>0.0205</b>	ug/L
Pb	208	58	1051	13	1.2	0.000812	<b>0.0535</b>	ug/L
Bi	209	101	1496	50	3.3	0.001140	<b>0.0998</b>	ug/L
Th	232	30	346	100	28.9	0.000259	<b>0.0310</b>	ug/L
U	238	6	431	25	5.7	0.000347	<b>0.0196</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	95.355
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	97.033
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	103.406
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	96.516
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS2**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:04:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 206

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS2.150

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	430	36	8.4	0.000712	<b>0.3049</b>	ug/L
Be	9	25	62	8	12.2	0.000066	<b>0.1431</b>	ug/L
B	11	322	1456	35	2.4	0.002053	<b>2.3670</b>	ug/L
Na	23	3977	204581	1787	0.9	0.366828	<b>30.0008</b>	ug/L
Mg	24	111	27913	255	0.9	0.050869	<b>6.0240</b>	ug/L
Al	27	1010	13403	254	1.9	0.022609	<b>1.9726</b>	ug/L
K	39	430753	501319	2840	0.6	0.098370	<b>6.4811</b>	ug/L
Ca	44	32562	46459	81	0.2	0.023106	<b>47.1893</b>	ug/L
Sc	45	525930	546463	2767	0.5	546463.236643		ug/L
Ti	47	944	1147	28	2.4	0.000304	<b>0.2840</b>	ug/L
Ti	48	-2694	694	83	11.9	0.006393	<b>0.4430</b>	ug/L
V	51	197	2950	55	1.9	0.005026	<b>0.3055</b>	ug/L
Cr	52	7265	9921	98	1.0	0.004343	<b>0.2896</b>	ug/L
Cr	53	117	383	13	3.4	0.000480	<b>0.2875</b>	ug/L
Mn	55	280	1428	8	0.5	0.002082	<b>0.0989</b>	ug/L
Fe	54	39304	34738	324	0.9	-0.011162	<b>-8.8497</b>	ug/L
Fe	57	5552	8472	128	1.5	0.004946	<b>11.5954</b>	ug/L
Co	59	38	2069	34	1.6	0.003713	<b>0.2115</b>	ug/L
Ni	60	32	965	9	0.9	0.001706	<b>0.4419</b>	ug/L
Ni	62	114	308	36	11.6	0.000348	<b>0.6341</b>	ug/L
Cu	65	49	603	23	3.8	0.002544	<b>0.2178</b>	ug/L
Cu	63	51	1123	61	5.4	0.004939	<b>0.2126</b>	ug/L
Zn	66	439	1039	18	1.8	0.002631	<b>0.4626</b>	ug/L
Zn	68	213	646	8	1.2	0.001932	<b>0.4496</b>	ug/L
Ge	74	202077	216381	1298	0.6	216381.253200		ug/L
As	75	-111	578	66	11.4	0.003221	<b>0.3819</b>	ug/L
As-1	75	9698	9984	289	2.9	-0.001844	<b>-0.0246</b>	ug/L
Se	77	129	230	12	5.1	0.000018	<b>0.5237</b>	ug/L
Se	82	20	95	4	4.7	0.000015	<b>0.3918</b>	ug/L
Sr	88	76	2804	73	2.6	0.000578	<b>0.0994</b>	ug/L
Mo	98	130	365	26	7.2	0.000046	<b>0.0448</b>	ug/L
Ag	107	40	503	15	3.0	0.000098	<b>0.0439</b>	ug/L
Ag	109	40	483	33	6.8	0.000093	<b>0.0440</b>	ug/L
Cd	111	11	74	6	7.6	0.000013	<b>0.0182</b>	ug/L
Cd	114	77	187	13	7.2	0.000021	<b>0.0194</b>	ug/L
In	115	4192305	4705631	29456	0.6	4705631.056207		ug/L

Sn	120	978	5822	285	4.9	0.001004	<b>0.4948</b>	ug/L
Sb	121	126	532	42	7.9	0.000083	<b>0.0909</b>	ug/L
Cs	133	15	2722	7	0.3	0.000575	<b>0.0954</b>	ug/L
Ba	138	60	2048	56	2.7	0.000421	<b>0.0962</b>	ug/L
Ce	140	18	516	11	2.2	0.000105	<b>0.0196</b>	ug/L
> Tm	169	1270088	1284666	1516	0.1	1284666.354989		ug/L
Tl	205	10	321	13	4.0	0.000242	<b>0.0218</b>	ug/L
Pb	208	58	1141	29	2.5	0.000842	<b>0.0556</b>	ug/L
Bi	209	101	1494	35	2.4	0.001083	<b>0.0953</b>	ug/L
Th	232	30	387	83	21.5	0.000278	<b>0.0325</b>	ug/L
U	238	6	457	8	1.7	0.000351	<b>0.0199</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	103.904
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.079
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.244
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.148
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS3**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:08:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 207

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS3.151

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	414	16	3.8	0.000708	<b>0.3034</b>	ug/L
Be	9	25	69	2	2.5	0.000084	<b>0.1759</b>	ug/L
B	11	322	1400	80	5.7	0.002033	<b>2.3443</b>	ug/L
Na	23	3977	199884	5550	2.8	0.370153	<b>30.2577</b>	ug/L
Mg	24	111	27404	1166	4.3	0.051552	<b>6.1005</b>	ug/L
Al	27	1010	13007	423	3.2	0.022656	<b>1.9764</b>	ug/L
K	39	430753	498628	8961	1.8	0.123426	<b>7.8629</b>	ug/L
Ca	44	32562	45922	559	1.2	0.024906	<b>50.5888</b>	ug/L
Sc	45	525930	529335	19990	3.8	529335.238940		ug/L
Ti	47	944	1173	23	2.0	0.000423	<b>0.3762</b>	ug/L
Ti	48	-2694	671	224	33.5	0.006381	<b>0.4422</b>	ug/L
V	51	197	2829	172	6.1	0.004970	<b>0.3022</b>	ug/L
Cr	52	7265	9734	439	4.5	0.004572	<b>0.3056</b>	ug/L
Cr	53	117	370	18	4.7	0.000478	<b>0.2861</b>	ug/L
Mn	55	280	1419	111	7.8	0.002147	<b>0.1020</b>	ug/L
Fe	54	39304	34149	1094	3.2	-0.010209	<b>-7.9848</b>	ug/L
Fe	57	5552	8034	522	6.5	0.004611	<b>10.8227</b>	ug/L
Co	59	38	1995	118	5.9	0.003694	<b>0.2104</b>	ug/L
Ni	60	32	929	71	7.6	0.001693	<b>0.4383</b>	ug/L
Ni	62	114	262	26	10.1	0.000277	<b>0.5182</b>	ug/L
Cu	65	49	608	51	8.4	0.002629	<b>0.2249</b>	ug/L
Cu	63	51	1101	87	7.9	0.004947	<b>0.2130</b>	ug/L
Zn	66	439	986	37	3.7	0.002490	<b>0.4416</b>	ug/L
Zn	68	213	678	5	0.7	0.002155	<b>0.4936</b>	ug/L
Ge	74	202077	211564	10197	4.8	211563.791757		ug/L
As	75	-111	610	115	18.8	0.003426	<b>0.4041</b>	ug/L
As-1	75	9698	9978	417	4.2	-0.000810	<b>0.0971</b>	ug/L
Se	77	129	226	16	7.0	0.000019	<b>0.5322</b>	ug/L
Se	82	20	110	17	15.2	0.000019	<b>0.4760</b>	ug/L
Sr	88	76	2689	203	7.5	0.000567	<b>0.0974</b>	ug/L
Mo	98	130	318	41	12.9	0.000038	<b>0.0376</b>	ug/L
Ag	107	40	471	41	8.7	0.000093	<b>0.0420</b>	ug/L
Ag	109	40	468	55	11.7	0.000092	<b>0.0436</b>	ug/L
Cd	111	11	86	4	4.2	0.000016	<b>0.0235</b>	ug/L
Cd	114	77	191	21	10.8	0.000023	<b>0.0208</b>	ug/L
In	115	4192305	4593901	136738	3.0	4593900.919153		ug/L

Sn	120	978	5836	429	7.3	0.001036	<b>0.5097</b>	ug/L
Sb	121	126	442	24	5.5	0.000066	<b>0.0750</b>	ug/L
Cs	133	15	2699	79	2.9	0.000584	<b>0.0968</b>	ug/L
Ba	138	60	2000	31	1.5	0.000421	<b>0.0963</b>	ug/L
Ce	140	18	506	15	2.9	0.000106	<b>0.0198</b>	ug/L
> Tm	169	1270088	1268556	31333	2.5	1268555.769252		ug/L
Tl	205	10	299	27	9.2	0.000228	<b>0.0205</b>	ug/L
Pb	208	58	1063	19	1.7	0.000792	<b>0.0522</b>	ug/L
Bi	209	101	1364	21	1.5	0.000996	<b>0.0884</b>	ug/L
Th	232	30	383	83	21.7	0.000280	<b>0.0326</b>	ug/L
U	238	6	467	5	1.1	0.000364	<b>0.0206</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.647
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.695
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.579
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	99.879
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS4**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:12:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 208

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS4.152

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	427	28	6.5	0.000731	<b>0.3129</b>	ug/L
Be	9	25	80	3	4.3	0.000104	<b>0.2147</b>	ug/L
B	11	322	1416	76	5.3	0.002064	<b>2.3790</b>	ug/L
Na	23	3977	194912	10562	5.4	0.360370	<b>29.5021</b>	ug/L
Mg	24	111	26383	1384	5.2	0.049589	<b>5.8806</b>	ug/L
Al	27	1010	12670	737	5.8	0.021993	<b>1.9225</b>	ug/L
K	39	430753	494641	10604	2.1	0.115574	<b>7.4298</b>	ug/L
Ca	44	32562	45758	853	1.9	0.024558	<b>49.9317</b>	ug/L
Sc	45	525930	529722	25709	4.9	529721.599484		ug/L
Ti	47	944	1158	35	3.0	0.000392	<b>0.3524</b>	ug/L
Ti	48	-2694	510	116	22.7	0.006079	<b>0.4208</b>	ug/L
V	51	197	2843	194	6.8	0.004990	<b>0.3034</b>	ug/L
Cr	52	7265	9733	512	5.3	0.004562	<b>0.3049</b>	ug/L
Cr	53	117	383	26	6.7	0.000502	<b>0.3008</b>	ug/L
Mn	55	280	1375	66	4.8	0.002064	<b>0.0981</b>	ug/L
Fe	54	39304	33493	1482	4.4	-0.011477	<b>-9.1352</b>	ug/L
Fe	57	5552	8074	398	4.9	0.004691	<b>11.0070</b>	ug/L
Co	59	38	1928	26	1.4	0.003572	<b>0.2033</b>	ug/L
Ni	60	32	889	45	5.0	0.001619	<b>0.4193</b>	ug/L
Ni	62	114	278	49	17.5	0.000308	<b>0.5687</b>	ug/L
Cu	65	49	594	57	9.6	0.002575	<b>0.2204</b>	ug/L
Cu	63	51	1054	87	8.2	0.004748	<b>0.2045</b>	ug/L
Zn	66	439	972	50	5.1	0.002446	<b>0.4350</b>	ug/L
Zn	68	213	624	18	2.9	0.001915	<b>0.4462</b>	ug/L
Ge	74	202077	210660	12085	5.7	210659.986839		ug/L
As	75	-111	557	85	15.4	0.003183	<b>0.3778</b>	ug/L
As-1	75	9698	9853	140	1.4	-0.001144	<b>0.0578</b>	ug/L
Se	77	129	217	11	5.0	0.000018	<b>0.5062</b>	ug/L
Se	82	20	99	8	7.6	0.000017	<b>0.4352</b>	ug/L
Sr	88	76	2592	159	6.1	0.000559	<b>0.0960</b>	ug/L
Mo	98	130	308	30	9.9	0.000037	<b>0.0371</b>	ug/L
Ag	107	40	473	13	2.8	0.000096	<b>0.0432</b>	ug/L
Ag	109	40	463	27	5.8	0.000094	<b>0.0442</b>	ug/L
Cd	111	11	92	6	6.6	0.000018	<b>0.0268</b>	ug/L
Cd	114	77	180	20	11.1	0.000022	<b>0.0196</b>	ug/L
In	115	4192305	4491679	198663	4.4	4491678.942768		ug/L



Sn	120	978	5884	420	7.1	0.001076	<b>0.5280</b>	ug/L
Sb	121	126	417	32	7.6	0.000063	<b>0.0718</b>	ug/L
Cs	133	15	2695	101	3.7	0.000597	<b>0.0989</b>	ug/L
Ba	138	60	1899	27	1.4	0.000409	<b>0.0937</b>	ug/L
Ce	140	18	489	38	7.7	0.000104	<b>0.0195</b>	ug/L
> Tm	169	1270088	1256709	39106	3.1	1256708.927442		ug/L
Tl	205	10	332	20	5.9	0.000257	<b>0.0231</b>	ug/L
Pb	208	58	1131	27	2.4	0.000855	<b>0.0564</b>	ug/L
Bi	209	101	1343	30	2.2	0.000989	<b>0.0878</b>	ug/L
Th	232	30	366	81	22.0	0.000269	<b>0.0318</b>	ug/L
U	238	6	455	6	1.4	0.000358	<b>0.0202</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	100.721
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	104.247
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	107.141
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	98.947
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS5**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:15:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 209

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS5.153

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	85	8	9.2	0.000097	<b>0.0493</b>	ug/L
Be	9	25	45	2	3.8	0.000045	<b>0.1032</b>	ug/L
B	11	322	501	50	10.1	0.000407	<b>0.5113</b>	ug/L
Na	23	3977	21175	486	2.3	0.035515	<b>4.4130</b>	ug/L
Mg	24	111	2546	61	2.4	0.004968	<b>0.8841</b>	ug/L
Al	27	1010	1751	66	3.7	0.001645	<b>0.2681</b>	ug/L
K	39	430753	421165	177	0.0	0.037960	<b>3.1495</b>	ug/L
Ca	44	32562	30743	347	1.1	0.000636	<b>4.7553</b>	ug/L
Sc	45	525930	491556	8924	1.8	491555.683105		ug/L
Ti	47	944	925	37	4.0	0.000086	<b>0.1149</b>	ug/L
Ti	48	-2694	-2142	39	1.8	0.000764	<b>0.0443</b>	ug/L
V	51	197	447	18	4.0	0.000535	<b>0.0382</b>	ug/L
Cr	52	7265	7333	169	2.3	0.001105	<b>0.0639</b>	ug/L
Cr	53	117	131	7	5.6	0.000044	<b>0.0201</b>	ug/L
Mn	55	280	360	25	7.1	0.000202	<b>0.0103</b>	ug/L
Fe	54	39304	27750	621	2.2	-0.018282	<b>-15.3071</b>	ug/L
Fe	57	5552	5233	61	1.2	0.000093	<b>0.4094</b>	ug/L
Co	59	38	215	23	10.6	0.000365	<b>0.0183</b>	ug/L
Ni	60	32	126	2	1.2	0.000197	<b>0.0507</b>	ug/L
Ni	62	114	147	10	6.7	0.000083	<b>0.1981</b>	ug/L
Cu	65	49	112	11	9.4	0.000348	<b>0.0336</b>	ug/L
Cu	63	51	159	10	6.3	0.000587	<b>0.0268</b>	ug/L
Zn	66	439	384	33	8.6	-0.000151	<b>0.0464</b>	ug/L
Zn	68	213	189	16	8.4	-0.000057	<b>0.0581</b>	ug/L
Ge	74	202077	190097	5013	2.6	190096.852894		ug/L
As	75	-111	-44	20	46.3	0.000319	<b>0.0674</b>	ug/L
As-1	75	9698	9076	161	1.8	-0.000230	<b>0.1653</b>	ug/L
Se	77	129	136	10	7.4	0.000001	<b>0.0078</b>	ug/L
Se	82	20	19	5	27.0	-0.000000	<b>0.0368</b>	ug/L
Sr	88	76	295	5	1.8	0.000051	<b>0.0054</b>	ug/L
Mo	98	130	121	31	25.2	-0.000003	<b>0.0026</b>	ug/L
Ag	107	40	96	6	6.3	0.000013	<b>0.0083</b>	ug/L
Ag	109	40	78	4	4.6	0.000009	<b>0.0073</b>	ug/L
Cd	111	11	35	3	8.8	0.000006	<b>0.0043</b>	ug/L
Cd	114	77	88	7	8.3	0.000002	<b>0.0045</b>	ug/L
In	115	4192305	4256836	85836	2.0	4256836.006795		ug/L

Sn	120	978	997	345	34.6	0.000000	<b>0.0324</b>	ug/L
Sb	121	126	152	16	10.2	0.000006	<b>0.0180</b>	ug/L
Cs	133	15	289	14	4.7	0.000064	<b>0.0112</b>	ug/L
Ba	138	60	214	10	4.5	0.000036	<b>0.0164</b>	ug/L
Ce	140	18	70	16	22.6	0.000012	<b>0.0021</b>	ug/L
Tm	169	1270088	1196549	21928	1.8	1196548.743626		ug/L
Tl	205	10	49	10	21.3	0.000033	<b>0.0028</b>	ug/L
Pb	208	58	196	15	7.7	0.000118	<b>0.0066</b>	ug/L
Bi	209	101	301	27	8.8	0.000171	<b>0.0229</b>	ug/L
Th	232	30	104	1	1.0	0.000064	<b>0.0162</b>	ug/L
U	238	6	67	3	3.8	0.000051	<b>0.0023</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	93.464
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	94.072
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	101.539
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	94.210
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS6**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:19:37

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 210

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS6.154

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	118	10	8.7	0.000144	<b>0.0685</b>	ug/L
Be	9	25	48	11	22.4	0.000041	<b>0.0958</b>	ug/L
B	11	322	612	40	6.6	0.000518	<b>0.6362</b>	ug/L
Na	23	3977	42296	2075	4.9	0.070579	<b>7.1210</b>	ug/L
Mg	24	111	5440	324	6.0	0.009835	<b>1.4291</b>	ug/L
Al	27	1010	2993	206	6.9	0.003606	<b>0.4276</b>	ug/L
K	39	430753	440958	6743	1.5	-0.003504	<b>0.8629</b>	ug/L
Ca	44	32562	32741	400	1.2	-0.001353	<b>0.9994</b>	ug/L
Sc	45	525930	541273	26118	4.8	541272.752321		ug/L
Ti	47	944	941	13	1.4	-0.000054	<b>0.0059</b>	ug/L
Ti	48	-2694	-1768	45	2.6	0.001849	<b>0.1212</b>	ug/L
V	51	197	729	27	3.7	0.000975	<b>0.0644</b>	ug/L
Cr	52	7265	8230	227	2.8	0.001403	<b>0.0847</b>	ug/L
Cr	53	117	174	15	8.6	0.000099	<b>0.0538</b>	ug/L
Mn	55	280	481	10	2.0	0.000358	<b>0.0177</b>	ug/L
Fe	54	39304	31488	489	1.6	-0.016497	<b>-13.6885</b>	ug/L
Fe	57	5552	6447	445	6.9	0.001347	<b>3.2987</b>	ug/L
Co	59	38	448	31	6.9	0.000755	<b>0.0407</b>	ug/L
Ni	60	32	226	16	7.1	0.000356	<b>0.0920</b>	ug/L
Ni	62	114	179	15	8.4	0.000114	<b>0.2479</b>	ug/L
Cu	65	49	176	12	6.5	0.000574	<b>0.0525</b>	ug/L
Cu	63	51	307	13	4.2	0.001162	<b>0.0514</b>	ug/L
Zn	66	439	424	4	0.9	-0.000215	<b>0.0368</b>	ug/L
Zn	68	213	215	8	3.8	-0.000060	<b>0.0576</b>	ug/L
Ge	74	202077	216715	6617	3.1	216714.542462		ug/L
As	75	-111	-36	83	230.5	0.000387	<b>0.0747</b>	ug/L
As-1	75	9698	9585	234	2.4	-0.003756	<b>-0.2496</b>	ug/L
Se	77	129	158	16	10.3	0.000004	<b>0.0788</b>	ug/L
Se	82	20	18	17	93.4	-0.000001	<b>0.0212</b>	ug/L
Sr	88	76	603	12	2.0	0.000113	<b>0.0165</b>	ug/L
Mo	98	130	145	29	20.3	0.000000	<b>0.0052</b>	ug/L
Ag	107	40	136	15	10.9	0.000020	<b>0.0112</b>	ug/L
Ag	109	40	127	6	4.3	0.000018	<b>0.0114</b>	ug/L
Cd	111	11	42	5	10.9	0.000007	<b>0.0061</b>	ug/L
Cd	114	77	110	20	18.6	0.000005	<b>0.0071</b>	ug/L
In	115	4192305	4591517	131634	2.9	4591516.685176		ug/L

Sn	120	978	1649	518	31.4	0.000124	<b>0.0894</b>	ug/L
Sb	121	126	169	38	22.6	0.000007	<b>0.0190</b>	ug/L
Cs	133	15	535	39	7.4	0.000113	<b>0.0192</b>	ug/L
Ba	138	60	407	8	2.1	0.000074	<b>0.0244</b>	ug/L
Ce	140	18	128	11	8.6	0.000024	<b>0.0043</b>	ug/L
> Tm	169	1270088	1274513	30079	2.4	1274512.741051		ug/L
Tl	205	10	77	12	16.1	0.000053	<b>0.0046</b>	ug/L
Pb	208	58	315	1	0.2	0.000201	<b>0.0122</b>	ug/L
Bi	209	101	377	31	8.1	0.000216	<b>0.0265</b>	ug/L
Th	232	30	106	26	24.7	0.000060	<b>0.0159</b>	ug/L
U	238	6	113	7	5.8	0.000084	<b>0.0042</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	102.917
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.244
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.522
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	100.348
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS7**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:23:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 211

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS7.155

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	154	21	13.6	0.000201	<b>0.0925</b>	ug/L
Be	9	25	49	13	25.7	0.000042	<b>0.0976</b>	ug/L
B	11	322	714	42	5.9	0.000668	<b>0.8051</b>	ug/L
Na	23	3977	64073	1457	2.3	0.107234	<b>9.9520</b>	ug/L
Mg	24	111	8492	57	0.7	0.015005	<b>2.0080</b>	ug/L
Al	27	1010	4319	61	1.4	0.005818	<b>0.6074</b>	ug/L
K	39	430753	452224	2963	0.7	-0.008714	<b>0.5756</b>	ug/L
Ca	44	32562	34578	334	1.0	0.000045	<b>3.6399</b>	ug/L
Sc	45	525930	558130	5429	1.0	558130.407482		ug/L
Ti	47	944	972	18	1.8	-0.000054	<b>0.0061</b>	ug/L
Ti	48	-2694	-1397	21	1.5	0.002619	<b>0.1757</b>	ug/L
V	51	197	1030	12	1.2	0.001472	<b>0.0939</b>	ug/L
Cr	52	7265	8565	74	0.9	0.001534	<b>0.0939</b>	ug/L
Cr	53	117	214	8	3.5	0.000162	<b>0.0925</b>	ug/L
Mn	55	280	628	2	0.3	0.000594	<b>0.0288</b>	ug/L
Fe	54	39304	32867	166	0.5	-0.015841	<b>-13.0936</b>	ug/L
Fe	57	5552	6852	77	1.1	0.001720	<b>4.1594</b>	ug/L
Co	59	38	635	27	4.3	0.001065	<b>0.0586</b>	ug/L
Ni	60	32	329	27	8.1	0.000529	<b>0.1367</b>	ug/L
Ni	62	114	189	22	11.9	0.000123	<b>0.2638</b>	ug/L
Cu	65	49	227	10	4.6	0.000771	<b>0.0691</b>	ug/L
Cu	63	51	394	5	1.3	0.001504	<b>0.0659</b>	ug/L
Zn	66	439	503	16	3.1	0.000072	<b>0.0796</b>	ug/L
Zn	68	213	262	26	10.0	0.000118	<b>0.0927</b>	ug/L
Ge	74	202077	224225	3584	1.6	224225.335905		ug/L
As	75	-111	75	78	103.8	0.000886	<b>0.1289</b>	ug/L
As-1	75	9698	9894	43	0.4	-0.003859	<b>-0.2618</b>	ug/L
Se	77	129	171	21	12.2	0.000005	<b>0.1261</b>	ug/L
Se	82	20	30	10	32.4	0.000001	<b>0.0746</b>	ug/L
Sr	88	76	931	24	2.6	0.000177	<b>0.0279</b>	ug/L
Mo	98	130	151	17	11.5	0.000001	<b>0.0053</b>	ug/L
Ag	107	40	176	18	10.4	0.000027	<b>0.0143</b>	ug/L
Ag	109	40	185	19	10.4	0.000029	<b>0.0162</b>	ug/L
Cd	111	11	40	4	8.9	0.000006	<b>0.0046</b>	ug/L
Cd	114	77	118	8	6.9	0.000006	<b>0.0077</b>	ug/L
In	115	4192305	4760867	53536	1.1	4760867.180253		ug/L

Sn	120	978	2090	410	19.6	0.000205	<b>0.1268</b>	ug/L
Sb	121	126	166	6	3.9	0.000005	<b>0.0171</b>	ug/L
Cs	133	15	844	42	5.0	0.000174	<b>0.0293</b>	ug/L
Ba	138	60	625	25	4.0	0.000117	<b>0.0332</b>	ug/L
Ce	140	18	167	11	6.7	0.000031	<b>0.0057</b>	ug/L
> Tm	169	1270088	1305001	10675	0.8	1305000.863986		ug/L
Tl	205	10	117	11	9.4	0.000082	<b>0.0072</b>	ug/L
Pb	208	58	429	37	8.6	0.000282	<b>0.0177</b>	ug/L
Bi	209	101	500	16	3.2	0.000304	<b>0.0334</b>	ug/L
Th	232	30	151	32	21.5	0.000092	<b>0.0184</b>	ug/L
U	238	6	160	18	11.3	0.000118	<b>0.0062</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.122
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.960
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.562
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.749
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121388-BS8**

**Sample Description:**

**Batch ID: B121388**

Sample Date/Time: Friday, August 17, 2012 21:27:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 212

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121388-BS8.156

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	220	17	7.9	0.000349	<b>0.1539</b>	ug/L
Be	9	25	53	3	4.8	0.000055	<b>0.1217</b>	ug/L
B	11	322	820	58	7.0	0.000964	<b>1.1395</b>	ug/L
Na	23	3977	96581	7653	7.9	0.178091	<b>15.4244</b>	ug/L
Mg	24	111	12979	952	7.3	0.024745	<b>3.0986</b>	ug/L
Al	27	1010	6388	447	7.0	0.010364	<b>0.9770</b>	ug/L
K	39	430753	453283	12689	2.8	0.054312	<b>4.0513</b>	ug/L
Ca	44	32562	37411	758	2.0	0.010192	<b>22.8022</b>	ug/L
Sc	45	525930	520017	36509	7.0	520016.951500		ug/L
Ti	47	944	1040	39	3.8	0.000214	<b>0.2145</b>	ug/L
Ti	48	-2694	-970	72	7.5	0.003244	<b>0.2200</b>	ug/L
V	51	197	1481	42	2.8	0.002479	<b>0.1539</b>	ug/L
Cr	52	7265	8390	578	6.9	0.002322	<b>0.1488</b>	ug/L
Cr	53	117	249	25	10.1	0.000258	<b>0.1512</b>	ug/L
Mn	55	280	774	60	7.7	0.000959	<b>0.0460</b>	ug/L
Fe	54	39304	28218	1802	6.4	-0.020453	<b>-17.2761</b>	ug/L
Fe	57	5552	6515	683	10.5	0.001952	<b>4.6930</b>	ug/L
Co	59	38	1008	80	7.9	0.001865	<b>0.1048</b>	ug/L
Ni	60	32	469	17	3.6	0.000843	<b>0.2181</b>	ug/L
Ni	62	114	201	16	7.8	0.000171	<b>0.3422</b>	ug/L
Cu	65	49	298	37	12.2	0.001204	<b>0.1054</b>	ug/L
Cu	63	51	561	9	1.5	0.002488	<b>0.1080</b>	ug/L
Zn	66	439	593	55	9.2	0.000707	<b>0.1747</b>	ug/L
Zn	68	213	374	27	7.3	0.000763	<b>0.2196</b>	ug/L
Ge	74	202077	206199	20881	10.1	206199.048853		ug/L
As	75	-111	235	67	28.4	0.001681	<b>0.2150</b>	ug/L
As-1	75	9698	9434	490	5.2	-0.002091	<b>-0.0537</b>	ug/L
Se	77	129	178	8	4.6	0.000010	<b>0.2581</b>	ug/L
Se	82	20	57	9	15.7	0.000008	<b>0.2234</b>	ug/L
Sr	88	76	1312	110	8.4	0.000277	<b>0.0457</b>	ug/L
Mo	98	130	167	19	11.6	0.000006	<b>0.0104</b>	ug/L
Ag	107	40	258	18	7.0	0.000049	<b>0.0233</b>	ug/L
Ag	109	40	238	26	10.8	0.000044	<b>0.0226</b>	ug/L
Cd	111	11	58	6	10.2	0.000010	<b>0.0131</b>	ug/L
Cd	114	77	127	12	9.4	0.000010	<b>0.0107</b>	ug/L
In	115	4192305	4441651	287733	6.5	4441651.136736		ug/L

Sn	120	978	2887	597	20.7	0.000413	<b>0.2225</b>	ug/L
Sb	121	126	211	25	11.8	0.000017	<b>0.0291</b>	ug/L
Cs	133	15	1349	57	4.2	0.000300	<b>0.0501</b>	ug/L
Ba	138	60	987	69	7.0	0.000208	<b>0.0520</b>	ug/L
Ce	140	18	253	20	7.7	0.000053	<b>0.0098</b>	ug/L
> Tm	169	1270088	1252132	50865	4.1	1252132.317841		ug/L
Tl	205	10	178	7	4.1	0.000134	<b>0.0120</b>	ug/L
Pb	208	58	579	14	2.4	0.000417	<b>0.0268</b>	ug/L
Bi	209	101	598	2	0.3	0.000398	<b>0.0409</b>	ug/L
Th	232	30	160	76	47.3	0.000106	<b>0.0194</b>	ug/L
U	238	6	247	18	7.3	0.000192	<b>0.0106</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	98.876
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	102.040
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	105.948
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	98.586
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCVA

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 21:30:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCVA.157

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6964	42	0.6	0.011745	<b>4.8953</b>	ug/L
Be	9	25	644	19	3.0	0.001047	<b>1.9759</b>	ug/L
B	11	322	52614	591	1.1	0.088687	<b>100.0567</b>	ug/L
Na	23	3977	7638669	56398	0.7	12.956797	<b>1002.3463</b>	ug/L
Mg	24	111	10575601	86239	0.8	17.948999	<b>2010.1996</b>	ug/L
Al	27	1010	3712455	42028	1.1	6.299163	<b>512.2716</b>	ug/L
K	39	430753	11493286	116699	1.0	18.688299	<b>1031.6827</b>	ug/L
Ca	44	32562	635412	8636	1.4	1.016504	<b>1923.1872</b>	ug/L
Sc	45	525930	589203	3358	0.6	589203.195763		ug/L
Ti	47	944	8580	20	0.2	0.012766	<b>9.9530</b>	ug/L
Ti	48	-2694	85238	761	0.9	0.149788	<b>10.6019</b>	ug/L
V	51	197	101490	1353	1.3	0.171876	<b>10.2391</b>	ug/L
Cr	52	7265	219670	656	0.3	0.359020	<b>25.0102</b>	ug/L
Cr	53	117	24748	88	0.4	0.041783	<b>25.6329</b>	ug/L
Mn	55	280	311689	2798	0.9	0.528465	<b>24.9044</b>	ug/L
Fe	54	39304	365723	4600	1.3	0.545960	<b>496.4525</b>	ug/L
Fe	57	5552	140387	1291	0.9	0.227718	<b>525.0732</b>	ug/L
Co	59	38	53163	587	1.1	0.090158	<b>5.2008</b>	ug/L
Ni	60	32	23863	112	0.5	0.040441	<b>10.4817</b>	ug/L
Ni	62	114	3848	29	0.7	0.006315	<b>10.4782</b>	ug/L
Cu	65	49	28015	347	1.2	0.118117	<b>9.9105</b>	ug/L
Cu	63	51	55473	305	0.5	0.234119	<b>10.0000</b>	ug/L
Zn	66	439	79184	762	1.0	0.332368	<b>49.8039</b>	ug/L
Zn	68	213	59911	484	0.8	0.252060	<b>49.6802</b>	ug/L
Ge	74	202077	236700	2214	0.9	236699.710504		ug/L
As	75	-111	22235	345	1.6	0.094501	<b>10.2763</b>	ug/L
As-1	75	9698	30570	168	0.5	0.081173	<b>9.7472</b>	ug/L
Se	77	129	3712	46	1.2	0.000715	<b>21.7315</b>	ug/L
Se	82	20	4864	86	1.8	0.000972	<b>22.1299</b>	ug/L
Sr	88	76	291976	2526	0.9	0.058653	<b>10.4665</b>	ug/L
Mo	98	130	29837	666	2.2	0.005964	<b>5.1458</b>	ug/L
Ag	107	40	24067	315	1.3	0.004826	<b>2.0394</b>	ug/L
Ag	109	40	23256	87	0.4	0.004664	<b>2.0355</b>	ug/L
Cd	111	11	2803	15	0.5	0.000561	<b>1.0152</b>	ug/L
Cd	114	77	6473	154	2.4	0.001282	<b>1.0064</b>	ug/L
In	115	4192305	4976772	40515	0.8	4976771.899104		ug/L

Sn	120	978	53269	832	1.6	0.010470	<b>4.8577</b>	ug/L
Sb	121	126	9131	405	4.4	0.001805	<b>1.7155</b>	ug/L
Cs	133	15	142939	953	0.7	0.028718	<b>4.7312</b>	ug/L
Ba	138	60	498641	1045	0.2	0.100183	<b>20.7654</b>	ug/L
Ce	140	18	24875	132	0.5	0.004994	<b>0.9377</b>	ug/L
Tm	169	1270088	1368121	8994	0.7	1368121.344488		ug/L
Tl	205	10	7699	86	1.1	0.005619	<b>0.5120</b>	ug/L
Pb	208	58	106025	712	0.7	0.077455	<b>5.2387</b>	ug/L
Bi	209	101	413297	2707	0.7	0.302022	<b>23.9736</b>	ug/L
Th	232	30	18556	552	3.0	0.013540	<b>1.0391</b>	ug/L
U	238	6	24343	344	1.4	0.017789	<b>1.0400</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.031
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	117.134
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	118.712
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	107.719
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCBA**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 21:34:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCBA.158

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	48	3	6.7	0.000011	<b>0.0134</b>	ug/L
Be	9	25	50	4	8.1	0.000041	<b>0.0972</b>	ug/L
B	11	322	625	72	11.5	0.000500	<b>0.6165</b>	ug/L
Na	23	3977	5515	181	3.3	0.002242	<b>1.8433</b>	ug/L
Mg	24	111	590	329	55.7	0.000832	<b>0.4210</b>	ug/L
Al	27	1010	1139	165	14.5	0.000103	<b>0.1427</b>	ug/L
K	39	430753	430245	2924	0.7	-0.054027	<b>-1.9234</b>	ug/L
Ca	44	32562	29384	231	0.8	-0.009667	<b>-14.7014</b>	ug/L
Sc	45	525930	562470	9215	1.6	562469.840464		ug/L
Ti	47	944	883	15	1.7	-0.000226	<b>-0.1272</b>	ug/L
Ti	48	-2694	-2348	44	1.9	0.000947	<b>0.0572</b>	ug/L
V	51	197	194	15	7.7	-0.000030	<b>0.0045</b>	ug/L
Cr	52	7265	7930	254	3.2	0.000290	<b>0.0072</b>	ug/L
Cr	53	117	121	6	5.0	-0.000006	<b>-0.0110</b>	ug/L
Mn	55	280	327	36	11.0	0.000049	<b>0.0031</b>	ug/L
Fe	54	39304	42150	820	1.9	0.000204	<b>1.4593</b>	ug/L
Fe	57	5552	6228	256	4.1	0.000514	<b>1.3803</b>	ug/L
Co	59	38	61	6	9.4	0.000036	<b>-0.0008</b>	ug/L
Ni	60	32	59	14	24.7	0.000044	<b>0.0110</b>	ug/L
Ni	62	114	170	11	6.2	0.000087	<b>0.2034</b>	ug/L
Cu	65	49	63	4	6.9	0.000039	<b>0.0077</b>	ug/L
Cu	63	51	96	19	19.5	0.000173	<b>0.0091</b>	ug/L
Zn	66	439	426	19	4.5	-0.000281	<b>0.0268</b>	ug/L
Zn	68	213	203	4	1.7	-0.000153	<b>0.0393</b>	ug/L
Ge	74	202077	225376	4335	1.9	225375.809263		ug/L
As	75	-111	-153	45	29.2	-0.000130	<b>0.0187</b>	ug/L
As-1	75	9698	9694	151	1.6	-0.004977	<b>-0.3934</b>	ug/L
Se	77	129	176	14	7.7	0.000007	<b>0.1680</b>	ug/L
Se	82	20	35	6	17.1	0.000003	<b>0.1024</b>	ug/L
Sr	88	76	107	9	8.3	0.000005	<b>-0.0029</b>	ug/L
Mo	98	130	671	138	20.7	0.000110	<b>0.1000</b>	ug/L
Ag	107	40	90	37	40.7	0.000010	<b>0.0068</b>	ug/L
Ag	109	40	85	37	43.7	0.000008	<b>0.0071</b>	ug/L
Cd	111	11	30	8	26.0	0.000004	<b>0.0010</b>	ug/L
Cd	114	77	82	15	18.1	-0.000001	<b>0.0019</b>	ug/L
In	115	4192305	4731249	60912	1.3	4731249.239213		ug/L

Sn	120	978	798	400	50.1	-0.000065	<b>0.0022</b>	ug/L
Sb	121	126	1049	53	5.1	0.000192	<b>0.1934</b>	ug/L
Cs	133	15	32	6	17.4	0.000003	<b>0.0012</b>	ug/L
Ba	138	60	93	10	10.5	0.000005	<b>0.0101</b>	ug/L
Ce	140	18	32	3	9.9	0.000003	<b>0.0003</b>	ug/L
> Tm	169	1270088	1291881	16128	1.2	1291881.235930		ug/L
Tl	205	10	26	3	13.3	0.000013	<b>0.0009</b>	ug/L
Pb	208	58	110	11	10.0	0.000039	<b>0.0012</b>	ug/L
Bi	209	101	2064	303	14.7	0.001516	<b>0.1296</b>	ug/L
Th	232	30	468	116	24.7	0.000338	<b>0.0371</b>	ug/L
U	238	6	30	4	12.0	0.000018	<b>0.0004</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.948
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	111.530
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.856
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.716
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BLK1**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 21:38:32

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 213

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BLK1.159

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	58	2	3.4	0.000022	<b>0.1803</b>	ug/L
Be	9	25	48	10	20.4	0.000034	<b>0.8318</b>	ug/L
B	11	322	469	15	3.2	0.000174	<b>2.4837</b>	ug/L
Na	23	3977	17505	575	3.3	0.021766	<b>33.5109</b>	ug/L
Mg	24	111	1003	1337	133.3	0.001529	<b>4.9901</b>	ug/L
Al	27	1010	1815	337	18.6	0.001134	<b>2.2659</b>	ug/L
K	39	430753	428749	4416	1.0	-0.101238	<b>-45.2695</b>	ug/L
Ca	44	32562	29310	278	0.9	-0.012838	<b>-206.8982</b>	ug/L
Sc	45	525930	598135	30113	5.0	598134.880864		ug/L
Ti	47	944	880	5	0.5	-0.000321	<b>-2.0103</b>	ug/L
Ti	48	-2694	-2157	21	1.0	0.001509	<b>0.9707</b>	ug/L
V	51	197	212	12	5.9	-0.000019	<b>0.0517</b>	ug/L
Cr	52	7265	8699	314	3.6	0.000741	<b>0.3859</b>	ug/L
Cr	53	117	140	18	13.1	0.000012	<b>0.0034</b>	ug/L
Mn	55	280	452	26	5.7	0.000225	<b>0.1139</b>	ug/L
Fe	54	39304	72368	4015	5.5	0.046236	<b>432.1011</b>	ug/L
Fe	57	5552	6641	545	8.2	0.000535	<b>14.2729</b>	ug/L
Co	59	38	63	5	8.2	0.000033	<b>-0.0096</b>	ug/L
Ni	60	32	50	7	14.1	0.000024	<b>0.0585</b>	ug/L
Ni	62	114	152	13	8.9	0.000038	<b>1.2269</b>	ug/L
Cu	65	49	60	9	15.6	0.000014	<b>0.0562</b>	ug/L
Cu	63	51	72	7	9.7	0.000056	<b>0.0411</b>	ug/L
Zn	66	439	313	18	5.7	-0.000835	<b>-0.5604</b>	ug/L
Zn	68	213	140	12	8.6	-0.000453	<b>-0.1985</b>	ug/L
Ge	74	202077	234025	11376	4.9	234025.181627		ug/L
As	75	-111	-203	25	12.1	-0.000316	<b>-0.0146</b>	ug/L
As-1	75	9698	10052	197	2.0	-0.004998	<b>-3.9583</b>	ug/L
Se	77	129	167	13	7.5	0.000004	<b>0.9522</b>	ug/L
Se	82	20	8	14	174.5	-0.000003	<b>-0.3019</b>	ug/L
Sr	88	76	101	3	2.5	0.000003	<b>-0.0320</b>	ug/L
Mo	98	130	264	90	34.3	0.000024	<b>0.2526</b>	ug/L
Ag	107	40	66	9	13.6	0.000004	<b>0.0456</b>	ug/L
Ag	109	40	66	11	16.1	0.000004	<b>0.0531</b>	ug/L
Cd	111	11	32	2	7.3	0.000004	<b>0.0147</b>	ug/L
Cd	114	77	77	9	12.2	-0.000002	<b>0.0100</b>	ug/L
In	115	4192305	4793383	117504	2.5	4793383.198800		ug/L

Sn	120	978	883	641	72.6	-0.000051	<b>0.0861</b>	ug/L
Sb	121	126	635	103	16.2	0.000102	<b>1.0905</b>	ug/L
Cs	133	15	27	5	18.4	0.000002	<b>0.0099</b>	ug/L
Ba	138	60	74	14	18.2	0.000001	<b>0.0923</b>	ug/L
Ce	140	18	37	3	8.8	0.000003	<b>0.0048</b>	ug/L
> Tm	169	1270088	1319836	30180	2.3	1319836.131696		ug/L
Tl	205	10	27	5	18.4	0.000013	<b>0.0095</b>	ug/L
Pb	208	58	111	15	13.3	0.000038	<b>0.0117</b>	ug/L
Bi	209	101	786	226	28.8	0.000514	<b>0.5008</b>	ug/L
Th	232	30	485	138	28.4	0.000343	<b>0.3739</b>	ug/L
U	238	6	28	8	29.4	0.000017	<b>0.0029</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.729
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.810
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.338
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.917
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BLK2**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 21:42:18

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 214

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BLK2.160

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	5	8.8	0.000010	<b>0.1296</b>	ug/L
Be	9	25	43	5	12.1	0.000024	<b>0.6474</b>	ug/L
B	11	322	429	35	8.1	0.000096	<b>1.6066</b>	ug/L
Na	23	3977	88150	4270	4.8	0.137954	<b>123.2453</b>	ug/L
Mg	24	111	639	650	101.8	0.000856	<b>4.2371</b>	ug/L
Al	27	1010	2054	131	6.4	0.001473	<b>2.5412</b>	ug/L
K	39	430753	427662	4416	1.0	-0.112457	<b>-51.4566</b>	ug/L
Ca	44	32562	29205	348	1.2	-0.013650	<b>-222.2255</b>	ug/L
Sc	45	525930	605723	24035	4.0	605723.110232		ug/L
Ti	47	944	904	26	2.9	-0.000302	<b>-1.8627</b>	ug/L
Ti	48	-2694	-2129	22	1.0	0.001604	<b>1.0375</b>	ug/L
V	51	197	209	16	7.8	-0.000028	<b>0.0463</b>	ug/L
Cr	52	7265	8728	258	3.0	0.000600	<b>0.2880</b>	ug/L
Cr	53	117	140	22	15.5	0.000010	<b>-0.0090</b>	ug/L
Mn	55	280	446	32	7.2	0.000204	<b>0.1042</b>	ug/L
Fe	54	39304	72796	3325	4.6	0.045449	<b>424.9646</b>	ug/L
Fe	57	5552	6680	521	7.8	0.000461	<b>12.5773</b>	ug/L
Co	59	38	56	6	11.2	0.000020	<b>-0.0166</b>	ug/L
Ni	60	32	58	9	15.9	0.000035	<b>0.0862</b>	ug/L
Ni	62	114	178	24	13.7	0.000077	<b>1.8753</b>	ug/L
Cu	65	49	60	9	15.4	0.000014	<b>0.0559</b>	ug/L
Cu	63	51	65	3	3.9	0.000019	<b>0.0253</b>	ug/L
Zn	66	439	325	1	0.3	-0.000804	<b>-0.5143</b>	ug/L
Zn	68	213	171	20	11.9	-0.000333	<b>0.0392</b>	ug/L
Ge	74	202077	238019	8929	3.8	238019.134513		ug/L
As	75	-111	-162	75	46.5	-0.000126	<b>0.1915</b>	ug/L
As-1	75	9698	10196	188	1.8	-0.005098	<b>-4.0759</b>	ug/L
Se	77	129	151	20	13.2	0.000001	<b>-0.0187</b>	ug/L
Se	82	20	13	18	142.9	-0.000002	<b>-0.0645</b>	ug/L
Sr	88	76	101	6	5.5	0.000003	<b>-0.0320</b>	ug/L
Mo	98	130	161	59	36.6	0.000002	<b>0.0695</b>	ug/L
Ag	107	40	53	5	9.8	0.000002	<b>0.0344</b>	ug/L
Ag	109	40	60	13	21.6	0.000003	<b>0.0481</b>	ug/L
Cd	111	11	39	2	5.1	0.000006	<b>0.0432</b>	ug/L
Cd	114	77	80	6	7.8	-0.000002	<b>0.0156</b>	ug/L
In	115	4192305	4769335	87064	1.8	4769335.321620		ug/L



Sn	120	978	1026	989	96.4	-0.000021	<b>0.2263</b>	ug/L
Sb	121	126	359	60	16.7	0.000045	<b>0.5524</b>	ug/L
Cs	133	15	56	50	89.3	0.000008	<b>0.0199</b>	ug/L
Ba	138	60	176	163	93.0	0.000023	<b>0.1369</b>	ug/L
Ce	140	18	41	3	7.5	0.000004	<b>0.0065</b>	ug/L
> Tm	169	1270088	1323117	41058	3.1	1323117.003304		ug/L
Tl	205	10	24	4	16.6	0.000011	<b>0.0074</b>	ug/L
Pb	208	58	106	21	20.1	0.000035	<b>0.0094</b>	ug/L
Bi	209	101	385	68	17.7	0.000211	<b>0.2603</b>	ug/L
Th	232	30	188	61	32.6	0.000118	<b>0.2033</b>	ug/L
U	238	6	23	8	34.5	0.000013	<b>0.0006</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.172
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	117.786
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.764
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.175
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BLK3**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 21:46:04

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 215

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BLK3.161

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	10	20.3	0.000007	<b>0.1178</b>	ug/L
Be	9	25	43	8	17.6	0.000021	<b>0.5982</b>	ug/L
B	11	322	414	12	2.9	0.000047	<b>1.0492</b>	ug/L
Na	23	3977	55963	603	1.1	0.081565	<b>79.6953</b>	ug/L
Mg	24	111	291	45	15.4	0.000252	<b>3.5603</b>	ug/L
Al	27	1010	1571	53	3.3	0.000582	<b>1.8167</b>	ug/L
K	39	430753	432829	2542	0.6	-0.129658	<b>-60.9428</b>	ug/L
Ca	44	32562	29617	251	0.8	-0.014732	<b>-242.6634</b>	ug/L
Sc	45	525930	628002	13498	2.1	628001.738936		ug/L
Ti	47	944	905	6	0.6	-0.000354	<b>-2.2671</b>	ug/L
Ti	48	-2694	-2128	29	1.4	0.001732	<b>1.1285</b>	ug/L
V	51	197	243	53	21.8	0.000014	<b>0.0711</b>	ug/L
Cr	52	7265	9060	75	0.8	0.000620	<b>0.3015</b>	ug/L
Cr	53	117	156	2	1.5	0.000026	<b>0.0899</b>	ug/L
Mn	55	280	501	80	16.0	0.000267	<b>0.1341</b>	ug/L
Fe	54	39304	74514	961	1.3	0.043935	<b>411.2298</b>	ug/L
Fe	57	5552	7077	184	2.6	0.000711	<b>18.3316</b>	ug/L
Co	59	38	61	15	24.0	0.000025	<b>-0.0141</b>	ug/L
Ni	60	32	47	10	22.0	0.000015	<b>0.0359</b>	ug/L
Ni	62	114	182	10	5.5	0.000074	<b>1.8270</b>	ug/L
Cu	65	49	63	8	12.6	0.000014	<b>0.0561</b>	ug/L
Cu	63	51	77	11	14.0	0.000059	<b>0.0424</b>	ug/L
Zn	66	439	435	18	4.2	-0.000414	<b>0.0703</b>	ug/L
Zn	68	213	249	7	3.0	-0.000047	<b>0.6007</b>	ug/L
Ge	74	202077	247548	4052	1.6	247548.383632		ug/L
As	75	-111	-258	29	11.1	-0.000492	<b>-0.2058</b>	ug/L
As-1	75	9698	10200	101	1.0	-0.006778	<b>-6.0536</b>	ug/L
Se	77	129	176	9	4.9	0.000005	<b>1.1732</b>	ug/L
Se	82	20	-2	10	576.0	-0.000005	<b>-0.7470</b>	ug/L
Sr	88	76	113	14	12.6	0.000005	<b>-0.0290</b>	ug/L
Mo	98	130	128	36	28.2	-0.000005	<b>0.0027</b>	ug/L
Ag	107	40	47	5	10.0	0.000000	<b>0.0278</b>	ug/L
Ag	109	40	53	2	2.9	0.000001	<b>0.0399</b>	ug/L
Cd	111	11	32	10	32.9	0.000004	<b>0.0110</b>	ug/L
Cd	114	77	75	10	12.7	-0.000003	<b>0.0028</b>	ug/L
In	115	4192305	4944466	46676	0.9	4944465.528717		ug/L

Sn	120	978	915	943	103.0	-0.000049	<b>0.0971</b>	ug/L
Sb	121	126	274	41	15.1	0.000025	<b>0.3652</b>	ug/L
Cs	133	15	28	2	5.4	0.000002	<b>0.0100</b>	ug/L
Ba	138	60	92	11	12.0	0.000004	<b>0.0985</b>	ug/L
Ce	140	18	35	2	6.7	0.000003	<b>0.0036</b>	ug/L
> Tm	169	1270088	1357413	11093	0.8	1357412.639397		ug/L
Tl	205	10	26	11	40.7	0.000012	<b>0.0081</b>	ug/L
Pb	208	58	102	13	12.9	0.000029	<b>0.0057</b>	ug/L
Bi	209	101	251	73	29.2	0.000105	<b>0.1764</b>	ug/L
Th	232	30	113	41	36.4	0.000059	<b>0.1589</b>	ug/L
U	238	6	29	5	15.8	0.000017	<b>0.0029</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.408
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	122.502
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.941
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.875
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BLK4**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 21:49:50

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 216

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BLK4.162

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	48	3	6.3	0.000009	<b>0.1250</b>	ug/L
Be	9	25	43	6	13.7	0.000028	<b>0.7118</b>	ug/L
B	11	322	396	27	6.9	0.000080	<b>1.4279</b>	ug/L
Na	23	3977	126539	3988	3.2	0.213282	<b>181.4224</b>	ug/L
Mg	24	111	281	34	12.0	0.000278	<b>3.5895</b>	ug/L
Al	27	1010	1528	61	4.0	0.000747	<b>1.9510</b>	ug/L
K	39	430753	419349	4838	1.2	-0.086908	<b>-37.3672</b>	ug/L
Ca	44	32562	29477	123	0.4	-0.010443	<b>-161.6636</b>	ug/L
Sc	45	525930	572938	14957	2.6	572937.774492		ug/L
Ti	47	944	937	20	2.1	-0.000159	<b>-0.7547</b>	ug/L
Ti	48	-2694	-2198	20	0.9	0.001283	<b>0.8104</b>	ug/L
V	51	197	209	7	3.1	-0.000010	<b>0.0572</b>	ug/L
Cr	52	7265	8142	230	2.8	0.000398	<b>0.1471</b>	ug/L
Cr	53	117	141	7	5.0	0.000025	<b>0.0789</b>	ug/L
Mn	55	280	424	39	9.2	0.000208	<b>0.1062</b>	ug/L
Fe	54	39304	66998	2300	3.4	0.042191	<b>395.4095</b>	ug/L
Fe	57	5552	5976	202	3.4	-0.000127	<b>-0.9914</b>	ug/L
Co	59	38	60	6	9.5	0.000032	<b>-0.0099</b>	ug/L
Ni	60	32	48	8	16.3	0.000023	<b>0.0556</b>	ug/L
Ni	62	114	153	6	4.2	0.000050	<b>1.4377</b>	ug/L
Cu	65	49	60	2	2.6	0.000026	<b>0.0658</b>	ug/L
Cu	63	51	66	9	13.6	0.000042	<b>0.0352</b>	ug/L
Zn	66	439	340	40	11.9	-0.000655	<b>-0.2917</b>	ug/L
Zn	68	213	165	12	7.0	-0.000316	<b>0.0721</b>	ug/L
Ge	74	202077	223990	6413	2.9	223990.313585		ug/L
As	75	-111	-174	71	40.6	-0.000229	<b>0.0794</b>	ug/L
As-1	75	9698	9818	86	0.9	-0.004130	<b>-2.9367</b>	ug/L
Se	77	129	163	26	16.0	0.000004	<b>0.9995</b>	ug/L
Se	82	20	18	25	140.8	-0.000001	<b>0.1931</b>	ug/L
Sr	88	76	90	11	12.1	0.000001	<b>-0.0350</b>	ug/L
Mo	98	130	96	27	27.6	-0.000010	<b>-0.0407</b>	ug/L
Ag	107	40	49	7	14.0	0.000001	<b>0.0316</b>	ug/L
Ag	109	40	47	6	13.8	0.000001	<b>0.0367</b>	ug/L
Cd	111	11	30	4	13.3	0.000004	<b>0.0119</b>	ug/L
Cd	114	77	84	18	21.3	-0.000000	<b>0.0257</b>	ug/L
In	115	4192305	4646494	108320	2.3	4646493.832084		ug/L

Sn	120	978	723	632	87.4	-0.000077	<b>-0.0341</b>	ug/L
Sb	121	126	180	20	11.3	0.000009	<b>0.2087</b>	ug/L
Cs	133	15	35	2	6.5	0.000004	<b>0.0131</b>	ug/L
Ba	138	60	83	22	25.9	0.000004	<b>0.0973</b>	ug/L
Ce	140	18	42	3	6.3	0.000005	<b>0.0074</b>	ug/L
> Tm	169	1270088	1289929	19067	1.5	1289929.447762		ug/L
Tl	205	10	33	5	16.0	0.000018	<b>0.0139</b>	ug/L
Pb	208	58	102	3	2.9	0.000033	<b>0.0084</b>	ug/L
Bi	209	101	174	82	46.9	0.000056	<b>0.1376</b>	ug/L
Th	232	30	85	26	30.9	0.000043	<b>0.1462</b>	ug/L
U	238	6	24	2	9.5	0.000014	<b>0.0015</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.938
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.844
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.834
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.562
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCVB

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 21:53:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCVB.163

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6983	61	0.9	0.011749	<b>4.8969</b>	ug/L
Be	9	25	661	25	3.7	0.001073	<b>2.0243</b>	ug/L
B	11	322	51623	1507	2.9	0.086775	<b>97.9006</b>	ug/L
Na	23	3977	7555688	71848	1.0	12.785442	<b>989.1123</b>	ug/L
Mg	24	111	10445679	103127	1.0	17.684832	<b>1980.6191</b>	ug/L
Al	27	1010	3657216	31838	0.9	6.190074	<b>503.4024</b>	ug/L
K	39	430753	11411137	186031	1.6	18.502873	<b>1021.4568</b>	ug/L
Ca	44	32562	632546	3152	0.5	1.009061	<b>1909.1312</b>	ug/L
Sc	45	525930	590674	6890	1.2	590674.065101		ug/L
Ti	47	944	8659	113	1.3	0.012863	<b>10.0286</b>	ug/L
Ti	48	-2694	84657	1620	1.9	0.148465	<b>10.5082</b>	ug/L
V	51	197	100288	824	0.8	0.169427	<b>10.0934</b>	ug/L
Cr	52	7265	217094	605	0.3	0.353761	<b>24.6437</b>	ug/L
Cr	53	117	24662	365	1.5	0.041535	<b>25.4809</b>	ug/L
Mn	55	280	305443	3846	1.3	0.516582	<b>24.3445</b>	ug/L
Fe	54	39304	361456	4043	1.1	0.537293	<b>488.5919</b>	ug/L
Fe	57	5552	139123	2160	1.6	0.224974	<b>518.7491</b>	ug/L
Co	59	38	52898	485	0.9	0.089487	<b>5.1620</b>	ug/L
Ni	60	32	23466	555	2.4	0.039668	<b>10.2812</b>	ug/L
Ni	62	114	3834	2	0.1	0.006276	<b>10.4139</b>	ug/L
Cu	65	49	27667	46	0.2	0.116899	<b>9.8083</b>	ug/L
Cu	63	51	55028	481	0.9	0.232733	<b>9.9408</b>	ug/L
Zn	66	439	78560	369	0.5	0.330442	<b>49.5156</b>	ug/L
Zn	68	213	59175	880	1.5	0.249475	<b>49.1714</b>	ug/L
Ge	74	202077	236194	1721	0.7	236194.418488		ug/L
As	75	-111	22286	279	1.3	0.094904	<b>10.3199</b>	ug/L
As-1	75	9698	30512	82	0.3	0.081198	<b>9.7501</b>	ug/L
Se	77	129	3596	46	1.3	0.000691	<b>21.0011</b>	ug/L
Se	82	20	4832	74	1.5	0.000965	<b>21.9627</b>	ug/L
Sr	88	76	284862	7037	2.5	0.057158	<b>10.1997</b>	ug/L
Mo	98	130	29526	299	1.0	0.005896	<b>5.0869</b>	ug/L
Ag	107	40	24094	422	1.8	0.004827	<b>2.0395</b>	ug/L
Ag	109	40	23413	503	2.1	0.004690	<b>2.0469</b>	ug/L
Cd	111	11	2816	41	1.5	0.000563	<b>1.0189</b>	ug/L
Cd	114	77	6481	149	2.3	0.001282	<b>1.0065</b>	ug/L
In	115	4192305	4981923	37346	0.7	4981922.666644		ug/L

Sn	120	978	53563	48	0.1	0.010519	<b>4.8803</b>	ug/L
Sb	121	126	9138	313	3.4	0.001805	<b>1.7152</b>	ug/L
Cs	133	15	143749	293	0.2	0.028851	<b>4.7531</b>	ug/L
Ba	138	60	500013	1995	0.4	0.100356	<b>20.8011</b>	ug/L
Ce	140	18	25068	55	0.2	0.005028	<b>0.9440</b>	ug/L
Tm	169	1270088	1369165	8485	0.6	1369165.490662		ug/L
Tl	205	10	7845	65	0.8	0.005722	<b>0.5214</b>	ug/L
Pb	208	58	105424	311	0.3	0.076956	<b>5.2049</b>	ug/L
Bi	209	101	411954	2823	0.7	0.300804	<b>23.8771</b>	ug/L
Th	232	30	17763	840	4.7	0.012948	<b>0.9942</b>	ug/L
U	238	6	24179	184	0.8	0.017655	<b>1.0322</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.310
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	116.884
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	118.835
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	107.801
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCBB**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 21:57:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCBB.164

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	59	13	21.3	0.000031	<b>0.0216</b>	ug/L
Be	9	25	46	12	25.7	0.000035	<b>0.0856</b>	ug/L
B	11	322	677	120	17.7	0.000605	<b>0.7339</b>	ug/L
Na	23	3977	9909	8350	84.3	0.010303	<b>2.4658</b>	ug/L
Mg	24	111	5920	9715	164.1	0.010496	<b>1.5031</b>	ug/L
Al	27	1010	2786	3026	108.6	0.003107	<b>0.3870</b>	ug/L
K	39	430753	430476	5901	1.4	-0.045527	<b>-1.4546</b>	ug/L
Ca	44	32562	29515	447	1.5	-0.008878	<b>-13.2119</b>	ug/L
Sc	45	525930	556594	5432	1.0	556594.041681		ug/L
Ti	47	944	858	22	2.6	-0.000253	<b>-0.1486</b>	ug/L
Ti	48	-2694	-2337	25	1.1	0.000923	<b>0.0555</b>	ug/L
V	51	197	227	21	9.4	0.000034	<b>0.0083</b>	ug/L
Cr	52	7265	8151	179	2.2	0.000833	<b>0.0450</b>	ug/L
Cr	53	117	131	15	11.6	0.000014	<b>0.0014</b>	ug/L
Mn	55	280	458	145	31.6	0.000293	<b>0.0146</b>	ug/L
Fe	54	39304	41293	500	1.2	-0.000543	<b>0.7815</b>	ug/L
Fe	57	5552	6035	201	3.3	0.000289	<b>0.8597</b>	ug/L
Co	59	38	73	35	47.6	0.000059	<b>0.0005</b>	ug/L
Ni	60	32	52	8	15.5	0.000033	<b>0.0083</b>	ug/L
Ni	62	114	147	10	6.9	0.000049	<b>0.1407</b>	ug/L
Cu	65	49	76	10	13.2	0.000100	<b>0.0128</b>	ug/L
Cu	63	51	103	24	23.1	0.000208	<b>0.0106</b>	ug/L
Zn	66	439	448	29	6.6	-0.000172	<b>0.0432</b>	ug/L
Zn	68	213	254	32	12.6	0.000081	<b>0.0854</b>	ug/L
Ge	74	202077	224222	2305	1.0	224221.988609		ug/L
As	75	-111	-113	51	45.4	0.000048	<b>0.0380</b>	ug/L
As-1	75	9698	9785	166	1.7	-0.004353	<b>-0.3199</b>	ug/L
Se	77	129	176	11	6.2	0.000007	<b>0.1765</b>	ug/L
Se	82	20	38	6	14.7	0.000003	<b>0.1153</b>	ug/L
Sr	88	76	122	44	36.2	0.000008	<b>-0.0023</b>	ug/L
Mo	98	130	697	87	12.5	0.000117	<b>0.1058</b>	ug/L
Ag	107	40	82	21	25.2	0.000008	<b>0.0061</b>	ug/L
Ag	109	40	83	24	28.9	0.000008	<b>0.0070</b>	ug/L
Cd	111	11	37	5	14.3	0.000005	<b>0.0038</b>	ug/L
Cd	114	77	81	8	9.8	-0.000001	<b>0.0019</b>	ug/L
In	115	4192305	4694322	63814	1.4	4694322.387809		ug/L

Sn	120	978	801	453	56.6	-0.000063	<b>0.0029</b>	ug/L
Sb	121	126	1062	56	5.2	0.000196	<b>0.1978</b>	ug/L
Cs	133	15	43	3	5.8	0.000006	<b>0.0016</b>	ug/L
Ba	138	60	106	30	28.5	0.000008	<b>0.0107</b>	ug/L
Ce	140	18	39	3	8.3	0.000004	<b>0.0006</b>	ug/L
> Tm	169	1270088	1292070	13732	1.1	1292069.976946		ug/L
Tl	205	10	24	2	6.5	0.000011	<b>0.0007</b>	ug/L
Pb	208	58	111	1	0.9	0.000040	<b>0.0013</b>	ug/L
Bi	209	101	2114	286	13.5	0.001555	<b>0.1327</b>	ug/L
Th	232	30	494	120	24.4	0.000358	<b>0.0386</b>	ug/L
U	238	6	55	32	58.1	0.000038	<b>0.0015</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.830
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.959
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.975
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.731
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS1**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:01:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 217

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS1.165

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	47	9	19.6	-0.000000	<b>0.0866</b>	ug/L
Be	9	25	112	7	6.2	0.000129	<b>2.6160</b>	ug/L
B	11	322	1523	36	2.4	0.001786	<b>20.6563</b>	ug/L
Na	23	3977	454102	8492	1.9	0.707071	<b>562.7843</b>	ug/L
Mg	24	111	42168	1264	3.0	0.066148	<b>77.3486</b>	ug/L
Al	27	1010	16216	450	2.8	0.023600	<b>20.5316</b>	ug/L
K	39	430753	554114	1154	0.2	0.053049	<b>39.8165</b>	ug/L
Ca	44	32562	54258	396	0.7	0.023477	<b>478.9093</b>	ug/L
Sc	45	525930	635406	3136	0.5	635405.901694		ug/L
Ti	47	944	1412	33	2.4	0.000426	<b>3.7866</b>	ug/L
Ti	48	-2694	3284	69	2.1	0.010289	<b>7.1909</b>	ug/L
V	51	197	5054	92	1.8	0.007580	<b>4.5758</b>	ug/L
Cr	52	7265	12500	273	2.2	0.005857	<b>3.9520</b>	ug/L
Cr	53	117	572	25	4.3	0.000678	<b>4.0914</b>	ug/L
Mn	55	280	1816	60	3.3	0.002326	<b>1.1044</b>	ug/L
Fe	54	39304	84591	1639	1.9	0.058394	<b>542.3735</b>	ug/L
Fe	57	5552	10361	341	3.3	0.005748	<b>134.4444</b>	ug/L
Co	59	38	4734	42	0.9	0.007378	<b>4.2302</b>	ug/L
Ni	60	32	1406	39	2.8	0.002152	<b>5.5746</b>	ug/L
Ni	62	114	382	10	2.5	0.000385	<b>6.9585</b>	ug/L
Cu	65	49	1276	11	0.8	0.004921	<b>4.1715</b>	ug/L
Cu	63	51	2483	73	2.9	0.009788	<b>4.1973</b>	ug/L
Zn	66	439	4122	12	0.3	0.014509	<b>22.4007</b>	ug/L
Zn	68	213	2950	138	4.7	0.010875	<b>22.0988</b>	ug/L
Ge	74	202077	247253	6823	2.8	247252.898094		ug/L
As	75	-111	665	84	12.7	0.003242	<b>3.8427</b>	ug/L
As-1	75	9698	11137	187	1.7	-0.002919	<b>-1.5118</b>	ug/L
Se	77	129	316	15	4.7	0.000033	<b>9.7090</b>	ug/L
Se	82	20	199	8	3.8	0.000035	<b>8.4312</b>	ug/L
Sr	88	76	5728	110	1.9	0.001137	<b>1.9925</b>	ug/L
Mo	98	130	5230	167	3.2	0.001024	<b>8.8715</b>	ug/L
Ag	107	40	3205	143	4.5	0.000637	<b>2.7141</b>	ug/L
Ag	109	40	3009	46	1.5	0.000597	<b>2.6374</b>	ug/L
Cd	111	11	442	21	4.8	0.000087	<b>1.5186</b>	ug/L
Cd	114	77	1083	21	1.9	0.000200	<b>1.5941</b>	ug/L
In	115	4192305	4958121	58200	1.2	4958121.434357		ug/L

Sn	120	978	4804	640	13.3	0.000735	<b>3.7082</b>	ug/L
Sb	121	126	968	119	12.3	0.000165	<b>1.6827</b>	ug/L
Cs	133	15	50	29	57.9	0.000006	<b>0.0172</b>	ug/L
Ba	138	60	8365	47	0.6	0.001673	<b>3.5562</b>	ug/L
Ce	140	18	43	9	21.3	0.000004	<b>0.0067</b>	ug/L
> Tm	169	1270088	1360817	5677	0.4	1360816.670444		ug/L
Tl	205	10	378	16	4.1	0.000270	<b>0.2440</b>	ug/L
Pb	208	58	2288	77	3.3	0.001636	<b>1.0925</b>	ug/L
Bi	209	101	824	231	28.0	0.000525	<b>0.5099</b>	ug/L
Th	232	30	555	113	20.3	0.000384	<b>0.4055</b>	ug/L
U	238	6	1655	40	2.4	0.001211	<b>0.7018</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	120.816
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	122.356
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.267
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.143
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS2**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:05:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 218

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS2.166

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	9	18.6	-0.000002	<b>0.0775</b>	ug/L
Be	9	25	98	17	17.7	0.000108	<b>2.2087</b>	ug/L
B	11	322	1561	99	6.4	0.001852	<b>21.4032</b>	ug/L
Na	23	3977	515338	12006	2.3	0.806395	<b>639.4940</b>	ug/L
Mg	24	111	42516	786	1.8	0.066944	<b>78.2401</b>	ug/L
Al	27	1010	16360	269	1.6	0.023923	<b>20.7941</b>	ug/L
K	39	430753	554147	2801	0.5	0.056421	<b>41.6764</b>	ug/L
Ca	44	32562	54678	466	0.9	0.024464	<b>497.5514</b>	ug/L
Sc	45	525930	633104	12208	1.9	633104.289686		ug/L
Ti	47	944	1391	32	2.3	0.000402	<b>3.5973</b>	ug/L
Ti	48	-2694	3492	94	2.7	0.010637	<b>7.4370</b>	ug/L
V	51	197	5120	169	3.3	0.007712	<b>4.6543</b>	ug/L
Cr	52	7265	12455	313	2.5	0.005858	<b>3.9527</b>	ug/L
Cr	53	117	554	19	3.4	0.000653	<b>3.9367</b>	ug/L
Mn	55	280	1849	40	2.2	0.002389	<b>1.1340</b>	ug/L
Fe	54	39304	85866	623	0.7	0.060927	<b>565.3413</b>	ug/L
Fe	57	5552	10872	270	2.5	0.006616	<b>154.4394</b>	ug/L
Co	59	38	4781	71	1.5	0.007481	<b>4.2892</b>	ug/L
Ni	60	32	1476	24	1.7	0.002271	<b>5.8836</b>	ug/L
Ni	62	114	394	23	5.7	0.000406	<b>7.3030</b>	ug/L
Cu	65	49	1312	17	1.3	0.005019	<b>4.2538</b>	ug/L
Cu	63	51	2557	59	2.3	0.010000	<b>4.2877</b>	ug/L
Zn	66	439	4209	51	1.2	0.014709	<b>22.6990</b>	ug/L
Zn	68	213	3103	102	3.3	0.011390	<b>23.1115</b>	ug/L
Ge	74	202077	249384	1277	0.5	249383.680738		ug/L
As	75	-111	719	63	8.7	0.003432	<b>4.0485</b>	ug/L
As-1	75	9698	11296	108	1.0	-0.002695	<b>-1.2471</b>	ug/L
Se	77	129	309	8	2.5	0.000031	<b>9.1991</b>	ug/L
Se	82	20	196	20	10.1	0.000035	<b>8.2897</b>	ug/L
Sr	88	76	5632	87	1.5	0.001113	<b>1.9496</b>	ug/L
Mo	98	130	5236	97	1.9	0.001020	<b>8.8444</b>	ug/L
Ag	107	40	3214	100	3.1	0.000636	<b>2.7116</b>	ug/L
Ag	109	40	3089	80	2.6	0.000611	<b>2.6954</b>	ug/L
Cd	111	11	465	1	0.2	0.000091	<b>1.5950</b>	ug/L
Cd	114	77	1052	34	3.2	0.000193	<b>1.5362</b>	ug/L
In	115	4192305	4979995	71932	1.4	4979994.725721		ug/L

Sn	120	978	5058	961	19.0	0.000782	<b>3.9283</b>	ug/L
Sb	121	126	686	23	3.3	0.000108	<b>1.1417</b>	ug/L
Cs	133	15	36	5	14.7	0.000004	<b>0.0124</b>	ug/L
Ba	138	60	8511	119	1.4	0.001695	<b>3.6012</b>	ug/L
Ce	140	18	41	4	9.8	0.000004	<b>0.0060</b>	ug/L
Tm	169	1270088	1372177	9934	0.7	1372176.655898		ug/L
Tl	205	10	364	27	7.4	0.000258	<b>0.2324</b>	ug/L
Pb	208	58	2330	60	2.6	0.001652	<b>1.1036</b>	ug/L
Bi	209	101	337	118	35.0	0.000166	<b>0.2249</b>	ug/L
Th	232	30	189	58	30.8	0.000114	<b>0.2005</b>	ug/L
U	238	6	1723	0	0.0	0.001251	<b>0.7251</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	120.378
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	123.410
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	118.789
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.038
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS3**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:08:47

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 219

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS3.167

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	49	6	11.4	0.000004	<b>0.1026</b>	ug/L
Be	9	25	115	13	11.0	0.000138	<b>2.7685</b>	ug/L
B	11	322	1482	40	2.7	0.001758	<b>20.3412</b>	ug/L
Na	23	3977	477362	7893	1.7	0.755841	<b>600.4506</b>	ug/L
Mg	24	111	41489	491	1.2	0.066139	<b>77.3388</b>	ug/L
Al	27	1010	16149	371	2.3	0.023909	<b>20.7825</b>	ug/L
K	39	430753	548592	6050	1.1	0.058341	<b>42.7349</b>	ug/L
Ca	44	32562	54107	495	0.9	0.024618	<b>500.4487</b>	ug/L
Sc	45	525930	625306	4094	0.7	625306.306439		ug/L
Ti	47	944	1383	40	2.9	0.000416	<b>3.7104</b>	ug/L
Ti	48	-2694	3380	85	2.5	0.010527	<b>7.3590</b>	ug/L
V	51	197	5049	122	2.4	0.007701	<b>4.6478</b>	ug/L
Cr	52	7265	12191	288	2.4	0.005683	<b>3.8302</b>	ug/L
Cr	53	117	568	19	3.4	0.000686	<b>4.1389</b>	ug/L
Mn	55	280	1855	48	2.6	0.002435	<b>1.1554</b>	ug/L
Fe	54	39304	85032	1565	1.8	0.061246	<b>568.2401</b>	ug/L
Fe	57	5552	10654	99	0.9	0.006483	<b>151.3754</b>	ug/L
Co	59	38	4709	123	2.6	0.007458	<b>4.2760</b>	ug/L
Ni	60	32	1423	53	3.7	0.002215	<b>5.7378</b>	ug/L
Ni	62	114	376	16	4.3	0.000385	<b>6.9592</b>	ug/L
Cu	65	49	1249	27	2.1	0.004823	<b>4.0888</b>	ug/L
Cu	63	51	2445	72	2.9	0.009662	<b>4.1431</b>	ug/L
Zn	66	439	4025	212	5.3	0.014147	<b>21.8582</b>	ug/L
Zn	68	213	2924	94	3.2	0.010802	<b>21.9555</b>	ug/L
Ge	74	202077	246640	1251	0.5	246639.655605		ug/L
As	75	-111	650	45	6.9	0.003186	<b>3.7811</b>	ug/L
As-1	75	9698	11149	328	2.9	-0.002788	<b>-1.3567</b>	ug/L
Se	77	129	313	25	8.1	0.000032	<b>9.5040</b>	ug/L
Se	82	20	200	17	8.4	0.000035	<b>8.4730</b>	ug/L
Sr	88	76	5617	221	3.9	0.001112	<b>1.9485</b>	ug/L
Mo	98	130	5179	231	4.5	0.001011	<b>8.7643</b>	ug/L
Ag	107	40	3209	30	0.9	0.000637	<b>2.7133</b>	ug/L
Ag	109	40	3095	96	3.1	0.000613	<b>2.7070</b>	ug/L
Cd	111	11	455	20	4.5	0.000089	<b>1.5631</b>	ug/L
Cd	114	77	1047	30	2.9	0.000192	<b>1.5336</b>	ug/L
In	115	4192305	4968242	29425	0.6	4968242.096514		ug/L

Sn	120	978	4835	780	16.1	0.000740	<b>3.7318</b>	ug/L
Sb	121	126	570	59	10.4	0.000085	<b>0.9248</b>	ug/L
Cs	133	15	35	11	30.9	0.000003	<b>0.0121</b>	ug/L
Ba	138	60	8305	195	2.4	0.001657	<b>3.5234</b>	ug/L
Ce	140	18	52	6	10.7	0.000006	<b>0.0100</b>	ug/L
> Tm	169	1270088	1364809	23404	1.7	1364808.504015		ug/L
Tl	205	10	372	26	7.0	0.000265	<b>0.2392</b>	ug/L
Pb	208	58	2249	85	3.8	0.001602	<b>1.0695</b>	ug/L
Bi	209	101	247	105	42.7	0.000100	<b>0.1728</b>	ug/L
Th	232	30	119	30	24.9	0.000064	<b>0.1623</b>	ug/L
U	238	6	1681	40	2.4	0.001227	<b>0.7109</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	118.895
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	122.052
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.509
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.458
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS4**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:12:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 220

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS4.168

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	44	6	12.6	0.000001	<b>0.0917</b>	ug/L
Be	9	25	111	12	10.4	0.000146	<b>2.9249</b>	ug/L
B	11	322	1363	45	3.3	0.001752	<b>20.2824</b>	ug/L
Na	23	3977	433181	13226	3.1	0.744122	<b>591.3998</b>	ug/L
Mg	24	111	38736	1089	2.8	0.067009	<b>78.3122</b>	ug/L
Al	27	1010	14780	332	2.2	0.023732	<b>20.6387</b>	ug/L
K	39	430753	531014	9497	1.8	0.102698	<b>67.1971</b>	ug/L
Ca	44	32562	52345	1296	2.5	0.028931	<b>581.9071</b>	ug/L
Sc	45	525930	576393	21544	3.7	576393.311321		ug/L
Ti	47	944	1334	27	2.1	0.000521	<b>4.5244</b>	ug/L
Ti	48	-2694	2712	100	3.7	0.009828	<b>6.8640</b>	ug/L
V	51	197	4611	214	4.6	0.007625	<b>4.6023</b>	ug/L
Cr	52	7265	11483	370	3.2	0.006112	<b>4.1295</b>	ug/L
Cr	53	117	510	32	6.3	0.000665	<b>4.0079</b>	ug/L
Mn	55	280	1643	66	4.0	0.002319	<b>1.1008</b>	ug/L
Fe	54	39304	76630	3375	4.4	0.058207	<b>540.6727</b>	ug/L
Fe	57	5552	9398	381	4.1	0.005748	<b>134.4389</b>	ug/L
Co	59	38	4327	183	4.2	0.007434	<b>4.2625</b>	ug/L
Ni	60	32	1243	36	2.9	0.002098	<b>5.4344</b>	ug/L
Ni	62	114	350	15	4.2	0.000391	<b>7.0607</b>	ug/L
Cu	65	49	1185	57	4.8	0.005072	<b>4.2980</b>	ug/L
Cu	63	51	2249	120	5.3	0.009821	<b>4.2113</b>	ug/L
Zn	66	439	3803	86	2.3	0.014880	<b>22.9555</b>	ug/L
Zn	68	213	2739	23	0.8	0.011235	<b>22.8061</b>	ug/L
Ge	74	202077	223121	7633	3.4	223120.928865		ug/L
As	75	-111	689	98	14.2	0.003648	<b>4.2824</b>	ug/L
As-1	75	9698	10710	197	1.8	0.000028	<b>1.9579</b>	ug/L
Se	77	129	274	8	3.0	0.000028	<b>8.1146</b>	ug/L
Se	82	20	189	30	15.8	0.000036	<b>8.5207</b>	ug/L
Sr	88	76	5088	259	5.1	0.001066	<b>1.8659</b>	ug/L
Mo	98	130	4747	131	2.8	0.000981	<b>8.5043</b>	ug/L
Ag	107	40	2941	90	3.1	0.000618	<b>2.6342</b>	ug/L
Ag	109	40	2942	173	5.9	0.000618	<b>2.7249</b>	ug/L
Cd	111	11	405	11	2.7	0.000084	<b>1.4657</b>	ug/L
Cd	114	77	1005	39	3.9	0.000196	<b>1.5610</b>	ug/L
In	115	4192305	4690171	120951	2.6	4690170.532091		ug/L



Sn	120	978	4456	592	13.3	0.000716	<b>3.6202</b>	ug/L
Sb	121	126	481	31	6.5	0.000072	<b>0.8106</b>	ug/L
Cs	133	15	30	3	10.1	0.000003	<b>0.0112</b>	ug/L
Ba	138	60	8159	168	2.1	0.001726	<b>3.6647</b>	ug/L
Ce	140	18	35	7	18.7	0.000003	<b>0.0045</b>	ug/L
> Tm	169	1270088	1310194	23945	1.8	1310193.995643		ug/L
Tl	205	10	347	26	7.5	0.000257	<b>0.2320</b>	ug/L
Pb	208	58	2140	82	3.8	0.001587	<b>1.0596</b>	ug/L
Bi	209	101	179	57	32.0	0.000056	<b>0.1379</b>	ug/L
Th	232	30	89	23	26.2	0.000045	<b>0.1476</b>	ug/L
U	238	6	1641	29	1.8	0.001249	<b>0.7237</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	109.595
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.414
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.876
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.158
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS5**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:16:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 221

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS5.169

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	58	4	6.9	0.000023	<b>0.1820</b>	ug/L
Be	9	25	45	3	5.9	0.000028	<b>0.7264</b>	ug/L
B	11	322	475	22	4.7	0.000181	<b>2.5592</b>	ug/L
Na	23	3977	130811	6222	4.8	0.210444	<b>179.2302</b>	ug/L
Mg	24	111	4230	254	6.0	0.006837	<b>10.9341</b>	ug/L
Al	27	1010	2870	139	4.8	0.002864	<b>3.6728</b>	ug/L
K	39	430753	435391	6018	1.4	-0.092717	<b>-40.5709</b>	ug/L
Ca	44	32562	31902	192	0.6	-0.008677	<b>-128.3160</b>	ug/L
Sc	45	525930	600026	27156	4.5	600025.614286		ug/L
Ti	47	944	926	27	2.9	-0.000252	<b>-1.4732</b>	ug/L
Ti	48	-2694	-1717	42	2.5	0.002254	<b>1.4982</b>	ug/L
V	51	197	647	30	4.6	0.000705	<b>0.4824</b>	ug/L
Cr	52	7265	9015	354	3.9	0.001214	<b>0.7153</b>	ug/L
Cr	53	117	176	16	8.8	0.000073	<b>0.3733</b>	ug/L
Mn	55	280	586	28	4.7	0.000445	<b>0.2180</b>	ug/L
Fe	54	39304	73412	3023	4.1	0.047630	<b>444.7445</b>	ug/L
Fe	57	5552	7051	507	7.2	0.001187	<b>29.3146</b>	ug/L
Co	59	38	509	7	1.4	0.000776	<b>0.4198</b>	ug/L
Ni	60	32	177	20	11.0	0.000234	<b>0.6025</b>	ug/L
Ni	62	114	172	11	6.6	0.000072	<b>1.7931</b>	ug/L
Cu	65	49	177	13	7.4	0.000513	<b>0.4743</b>	ug/L
Cu	63	51	310	23	7.4	0.001070	<b>0.4741</b>	ug/L
Zn	66	439	641	10	1.5	0.000573	<b>1.5458</b>	ug/L
Zn	68	213	425	42	9.9	0.000766	<b>2.2024</b>	ug/L
Ge	74	202077	234297	13445	5.7	234296.859143		ug/L
As	75	-111	-137	82	59.8	-0.000024	<b>0.3015</b>	ug/L
As-1	75	9698	10181	159	1.6	-0.004469	<b>-3.3356</b>	ug/L
Se	77	129	182	29	15.8	0.000007	<b>1.8790</b>	ug/L
Se	82	20	26	9	35.3	0.000001	<b>0.5601</b>	ug/L
Sr	88	76	600	23	3.8	0.000107	<b>0.1543</b>	ug/L
Mo	98	130	642	80	12.5	0.000103	<b>0.9364</b>	ug/L
Ag	107	40	357	16	4.4	0.000065	<b>0.3030</b>	ug/L
Ag	109	40	357	16	4.3	0.000065	<b>0.3189</b>	ug/L
Cd	111	11	68	9	13.4	0.000012	<b>0.1531</b>	ug/L
Cd	114	77	163	4	2.2	0.000016	<b>0.1501</b>	ug/L
In	115	4192305	4777602	162802	3.4	4777602.036322		ug/L

Sn	120	978	1056	580	54.9	-0.000015	<b>0.2538</b>	ug/L
Sb	121	126	197	39	19.5	0.000011	<b>0.2304</b>	ug/L
Cs	133	15	27	6	20.6	0.000002	<b>0.0099</b>	ug/L
Ba	138	60	877	32	3.6	0.000169	<b>0.4403</b>	ug/L
Ce	140	18	31	8	25.8	0.000002	<b>0.0029</b>	ug/L
> Tm	169	1270088	1330828	40023	3.0	1330827.740487		ug/L
Tl	205	10	52	6	10.9	0.000032	<b>0.0264</b>	ug/L
Pb	208	58	318	28	8.7	0.000193	<b>0.1165</b>	ug/L
Bi	209	101	164	59	36.0	0.000043	<b>0.1272</b>	ug/L
Th	232	30	73	29	39.9	0.000031	<b>0.1376</b>	ug/L
U	238	6	197	17	8.7	0.000143	<b>0.0769</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.088
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.944
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	113.961
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.782
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS6**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:20:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 222

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS6.170

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	4	7.9	0.000007	<b>0.1152</b>	ug/L
Be	9	25	54	3	4.6	0.000039	<b>0.9320</b>	ug/L
B	11	322	579	31	5.4	0.000305	<b>3.9612</b>	ug/L
Na	23	3977	90583	1264	1.4	0.136022	<b>121.7533</b>	ug/L
Mg	24	111	8539	137	1.6	0.013324	<b>18.1977</b>	ug/L
Al	27	1010	4382	39	0.9	0.005028	<b>5.4317</b>	ug/L
K	39	430753	453477	1648	0.4	-0.100086	<b>-44.6348</b>	ug/L
Ca	44	32562	34350	23	0.1	-0.007451	<b>-105.1523</b>	ug/L
Sc	45	525930	631076	18398	2.9	631075.890457		ug/L
Ti	47	944	1003	29	2.9	-0.000204	<b>-1.1037</b>	ug/L
Ti	48	-2694	-1049	67	6.4	0.003456	<b>2.3496</b>	ug/L
V	51	197	1145	41	3.6	0.001440	<b>0.9204</b>	ug/L
Cr	52	7265	9705	68	0.7	0.001576	<b>0.9677</b>	ug/L
Cr	53	117	237	7	3.0	0.000153	<b>0.8701</b>	ug/L
Mn	55	280	747	9	1.2	0.000653	<b>0.3158</b>	ug/L
Fe	54	39304	77135	997	1.3	0.047533	<b>443.8633</b>	ug/L
Fe	57	5552	7668	139	1.8	0.001596	<b>38.7315</b>	ug/L
Co	59	38	1024	18	1.8	0.001551	<b>0.8670</b>	ug/L
Ni	60	32	311	9	2.9	0.000432	<b>1.1162</b>	ug/L
Ni	62	114	212	16	7.6	0.000120	<b>2.5850</b>	ug/L
Cu	65	49	318	29	9.1	0.001035	<b>0.9119</b>	ug/L
Cu	63	51	559	32	5.7	0.001988	<b>0.8659</b>	ug/L
Zn	66	439	1049	25	2.4	0.002034	<b>3.7325</b>	ug/L
Zn	68	213	725	16	2.2	0.001853	<b>4.3412</b>	ug/L
Ge	74	202077	249540	2600	1.0	249540.408479		ug/L
As	75	-111	-56	53	94.2	0.000323	<b>0.6784</b>	ug/L
As-1	75	9698	10600	113	1.1	-0.005509	<b>-4.5601</b>	ug/L
Se	77	129	194	14	7.3	0.000008	<b>2.2592</b>	ug/L
Se	82	20	42	6	13.6	0.000004	<b>1.2546</b>	ug/L
Sr	88	76	1220	19	1.6	0.000228	<b>0.3701</b>	ug/L
Mo	98	130	1120	45	4.0	0.000195	<b>1.7295</b>	ug/L
Ag	107	40	654	17	2.7	0.000123	<b>0.5449</b>	ug/L
Ag	109	40	651	14	2.2	0.000122	<b>0.5660</b>	ug/L
Cd	111	11	119	17	14.3	0.000021	<b>0.3303</b>	ug/L
Cd	114	77	270	22	8.0	0.000036	<b>0.3098</b>	ug/L
In	115	4192305	4952638	33261	0.7	4952637.696210		ug/L

Sn	120	978	1428	506	35.4	0.000055	<b>0.5742</b>	ug/L
Sb	121	126	184	20	10.7	0.000007	<b>0.1925</b>	ug/L
Cs	133	15	30	7	24.0	0.000002	<b>0.0105</b>	ug/L
Ba	138	60	1898	81	4.2	0.000369	<b>0.8542</b>	ug/L
Ce	140	18	38	4	9.5	0.000003	<b>0.0049</b>	ug/L
> Tm	169	1270088	1355681	11110	0.8	1355680.858566		ug/L
Tl	205	10	90	6	7.2	0.000059	<b>0.0509</b>	ug/L
Pb	208	58	506	16	3.2	0.000328	<b>0.2075</b>	ug/L
Bi	209	101	130	32	24.2	0.000016	<b>0.1061</b>	ug/L
Th	232	30	56	13	23.4	0.000018	<b>0.1272</b>	ug/L
U	238	6	358	15	4.3	0.000260	<b>0.1451</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.992
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	123.488
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.136
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.739
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS7**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:23:51

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 223

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS7.171

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	49	9	18.1	0.000007	<b>0.1157</b>	ug/L
Be	9	25	68	12	17.0	0.000066	<b>1.4300</b>	ug/L
B	11	322	674	43	6.4	0.000516	<b>6.3458</b>	ug/L
Na	23	3977	116502	6228	5.3	0.186637	<b>160.8442</b>	ug/L
Mg	24	111	12090	658	5.4	0.019941	<b>25.6073</b>	ug/L
Al	27	1010	5728	360	6.3	0.007624	<b>7.5423</b>	ug/L
K	39	430753	455429	9836	2.2	-0.058738	<b>-21.8320</b>	ug/L
Ca	44	32562	36735	366	1.0	-0.000557	<b>25.0260</b>	ug/L
Sc	45	525930	600275	39893	6.6	600275.456328		ug/L
Ti	47	944	1018	22	2.2	-0.000097	<b>-0.2681</b>	ug/L
Ti	48	-2694	-715	125	17.4	0.003918	<b>2.6768</b>	ug/L
V	51	197	1553	76	4.9	0.002216	<b>1.3819</b>	ug/L
Cr	52	7265	9608	426	4.4	0.002209	<b>1.4088</b>	ug/L
Cr	53	117	260	22	8.4	0.000212	<b>1.2266</b>	ug/L
Mn	55	280	864	41	4.7	0.000910	<b>0.4367</b>	ug/L
Fe	54	39304	73685	4196	5.7	0.048081	<b>448.8359</b>	ug/L
Fe	57	5552	7416	509	6.9	0.001800	<b>43.4439</b>	ug/L
Co	59	38	1346	115	8.5	0.002169	<b>1.2234</b>	ug/L
Ni	60	32	445	33	7.3	0.000682	<b>1.7640</b>	ug/L
Ni	62	114	214	31	14.6	0.000139	<b>2.9036</b>	ug/L
Cu	65	49	413	36	8.8	0.001532	<b>1.3294</b>	ug/L
Cu	63	51	754	45	6.0	0.002992	<b>1.2947</b>	ug/L
Zn	66	439	1342	44	3.3	0.003609	<b>6.0898</b>	ug/L
Zn	68	213	900	58	6.4	0.002819	<b>6.2421</b>	ug/L
Ge	74	202077	232805	16889	7.3	232805.292954		ug/L
As	75	-111	36	52	147.2	0.000697	<b>1.0834</b>	ug/L
As-1	75	9698	10351	128	1.2	-0.003390	<b>-2.0651</b>	ug/L
Se	77	129	201	8	3.9	0.000011	<b>3.1307</b>	ug/L
Se	82	20	61	22	35.7	0.000008	<b>2.2118</b>	ug/L
Sr	88	76	1651	131	7.9	0.000327	<b>0.5461</b>	ug/L
Mo	98	130	1480	90	6.1	0.000278	<b>2.4458</b>	ug/L
Ag	107	40	958	36	3.7	0.000191	<b>0.8334</b>	ug/L
Ag	109	40	934	26	2.8	0.000186	<b>0.8447</b>	ug/L
Cd	111	11	157	8	5.1	0.000030	<b>0.4932</b>	ug/L
Cd	114	77	359	22	6.3	0.000057	<b>0.4715</b>	ug/L
In	115	4192305	4782551	191440	4.0	4782551.377198		ug/L

Sn	120	978	2304	1450	62.9	0.000244	<b>1.4453</b>	ug/L
Sb	121	126	205	27	13.0	0.000013	<b>0.2475</b>	ug/L
Cs	133	15	31	6	18.7	0.000003	<b>0.0114</b>	ug/L
Ba	138	60	2441	71	2.9	0.000496	<b>1.1179</b>	ug/L
Ce	140	18	37	4	10.8	0.000004	<b>0.0052</b>	ug/L
> Tm	169	1270088	1330191	44741	3.4	1330190.801892		ug/L
Tl	205	10	125	10	8.0	0.000086	<b>0.0760</b>	ug/L
Pb	208	58	716	28	3.9	0.000492	<b>0.3190</b>	ug/L
Bi	209	101	111	33	29.2	0.000004	<b>0.0963</b>	ug/L
Th	232	30	59	23	39.1	0.000021	<b>0.1297</b>	ug/L
U	238	6	507	22	4.2	0.000377	<b>0.2135</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	114.136
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	115.206
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.079
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.732
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121387-BS8**

**Sample Description: 10x**

**Batch ID: B121387**

Sample Date/Time: Friday, August 17, 2012 22:27:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 224

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121387-BS8.172

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	49	3	5.2	0.000006	<b>0.1114</b>	ug/L
Be	9	25	70	12	17.3	0.000067	<b>1.4581</b>	ug/L
B	11	322	879	61	6.9	0.000836	<b>9.9462</b>	ug/L
Na	23	3977	239324	12437	5.2	0.386996	<b>315.5847</b>	ug/L
Mg	24	111	20454	1074	5.2	0.033508	<b>40.7996</b>	ug/L
Al	27	1010	8727	381	4.4	0.012478	<b>11.4885</b>	ug/L
K	39	430753	480085	9616	2.0	-0.026501	<b>-4.0537</b>	ug/L
Ca	44	32562	41341	797	1.9	0.006337	<b>155.2286</b>	ug/L
Sc	45	525930	606903	38269	6.3	606902.535872		ug/L
Ti	47	944	1116	41	3.6	0.000048	<b>0.8568</b>	ug/L
Ti	48	-2694	352	164	46.8	0.005691	<b>3.9329</b>	ug/L
V	51	197	2556	141	5.5	0.003840	<b>2.3493</b>	ug/L
Cr	52	7265	10475	337	3.2	0.003470	<b>2.2880</b>	ug/L
Cr	53	117	343	18	5.2	0.000345	<b>2.0445</b>	ug/L
Mn	55	280	1121	110	9.8	0.001313	<b>0.6270</b>	ug/L
Fe	54	39304	77796	3550	4.6	0.053550	<b>498.4387</b>	ug/L
Fe	57	5552	8195	527	6.4	0.002951	<b>69.9555</b>	ug/L
Co	59	38	2305	129	5.6	0.003728	<b>2.1234</b>	ug/L
Ni	60	32	728	73	10.0	0.001137	<b>2.9425</b>	ug/L
Ni	62	114	269	14	5.1	0.000228	<b>4.3701</b>	ug/L
Cu	65	49	632	43	6.9	0.002419	<b>2.0727</b>	ug/L
Cu	63	51	1235	55	4.5	0.004951	<b>2.1315</b>	ug/L
Zn	66	439	2081	64	3.1	0.006601	<b>10.5667</b>	ug/L
Zn	68	213	1501	73	4.8	0.005272	<b>11.0710</b>	ug/L
Ge	74	202077	237518	14336	6.0	237517.713132		ug/L
As	75	-111	209	17	8.2	0.001431	<b>1.8790</b>	ug/L
As-1	75	9698	10541	33	0.3	-0.003501	<b>-2.1966</b>	ug/L
Se	77	129	233	18	7.7	0.000017	<b>4.9393</b>	ug/L
Se	82	20	106	29	27.2	0.000017	<b>4.2607</b>	ug/L
Sr	88	76	2741	61	2.2	0.000548	<b>0.9411</b>	ug/L
Mo	98	130	2544	97	3.8	0.000494	<b>4.3079</b>	ug/L
Ag	107	40	1571	55	3.5	0.000315	<b>1.3564</b>	ug/L
Ag	109	40	1541	119	7.7	0.000308	<b>1.3777</b>	ug/L
Cd	111	11	222	20	8.9	0.000043	<b>0.7265</b>	ug/L
Cd	114	77	563	7	1.3	0.000098	<b>0.7941</b>	ug/L
In	115	4192305	4844336	197286	4.1	4844335.923185		ug/L

Sn	120	978	2556	495	19.4	0.000293	<b>1.6711</b>	ug/L
Sb	121	126	254	19	7.3	0.000022	<b>0.3366</b>	ug/L
Cs	133	15	36	5	12.4	0.000004	<b>0.0129</b>	ug/L
Ba	138	60	4088	41	1.0	0.000830	<b>1.8101</b>	ug/L
Ce	140	18	39	4	8.9	0.000004	<b>0.0057</b>	ug/L
> Tm	169	1270088	1335652	40834	3.1	1335651.660469		ug/L
Tl	205	10	201	33	16.6	0.000142	<b>0.1272</b>	ug/L
Pb	208	58	1152	56	4.9	0.000816	<b>0.5382</b>	ug/L
Bi	209	101	112	39	34.6	0.000004	<b>0.0965</b>	ug/L
Th	232	30	53	11	21.0	0.000016	<b>0.1262</b>	ug/L
U	238	6	870	39	4.5	0.000646	<b>0.3713</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	115.396
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	117.538
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	115.553
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	105.162
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCVC**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 22:31:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCVC.173

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6826	72	1.1	0.011658	<b>4.8591</b>	ug/L
Be	9	25	617	22	3.6	0.001013	<b>1.9136</b>	ug/L
B	11	322	51475	688	1.3	0.087867	<b>99.1319</b>	ug/L
Na	23	3977	7529596	54732	0.7	12.934770	<b>1000.6452</b>	ug/L
Mg	24	111	10415518	102791	1.0	17.902212	<b>2004.9606</b>	ug/L
Al	27	1010	3651803	49361	1.4	6.274707	<b>510.2833</b>	ug/L
K	39	430753	11184292	132137	1.2	18.405645	<b>1016.0948</b>	ug/L
Ca	44	32562	623482	5094	0.8	1.009756	<b>1910.4433</b>	ug/L
Sc	45	525930	581801	6731	1.2	581801.358208		ug/L
Ti	47	944	8470	138	1.6	0.012763	<b>9.9504</b>	ug/L
Ti	48	-2694	83630	3027	3.6	0.148838	<b>10.5346</b>	ug/L
V	51	197	99442	1158	1.2	0.170553	<b>10.1604</b>	ug/L
Cr	52	7265	215169	1942	0.9	0.356031	<b>24.8019</b>	ug/L
Cr	53	117	24341	262	1.1	0.041621	<b>25.5334</b>	ug/L
Mn	55	280	301782	5926	2.0	0.518151	<b>24.4184</b>	ug/L
Fe	54	39304	359269	4256	1.2	0.542780	<b>493.5685</b>	ug/L
Fe	57	5552	136792	3233	2.4	0.224554	<b>517.7820</b>	ug/L
Co	59	38	51826	481	0.9	0.089009	<b>5.1345</b>	ug/L
Ni	60	32	23262	188	0.8	0.039923	<b>10.3474</b>	ug/L
Ni	62	114	3791	55	1.5	0.006300	<b>10.4541</b>	ug/L
Cu	65	49	27789	327	1.2	0.118451	<b>9.9384</b>	ug/L
Cu	63	51	54056	271	0.5	0.230635	<b>9.8512</b>	ug/L
Zn	66	439	77913	1491	1.9	0.330598	<b>49.5390</b>	ug/L
Zn	68	213	58424	806	1.4	0.248488	<b>48.9771</b>	ug/L
Ge	74	202077	234125	1642	0.7	234125.238548		ug/L
As	75	-111	21635	161	0.7	0.092957	<b>10.1090</b>	ug/L
As-1	75	9698	30179	425	1.4	0.080906	<b>9.7157</b>	ug/L
Se	77	129	3632	54	1.5	0.000700	<b>21.2747</b>	ug/L
Se	82	20	4740	14	0.3	0.000949	<b>21.5997</b>	ug/L
Sr	88	76	280937	5371	1.9	0.056522	<b>10.0861</b>	ug/L
Mo	98	130	29442	571	1.9	0.005894	<b>5.0854</b>	ug/L
Ag	107	40	24051	59	0.2	0.004831	<b>2.0412</b>	ug/L
Ag	109	40	23249	181	0.8	0.004669	<b>2.0380</b>	ug/L
Cd	111	11	2779	71	2.6	0.000557	<b>1.0078</b>	ug/L
Cd	114	77	6378	100	1.6	0.001265	<b>0.9930</b>	ug/L
In	115	4192305	4968982	35614	0.7	4968982.031197		ug/L

Sn	120	978	53708	436	0.8	0.010575	<b>4.9065</b>	ug/L
Sb	121	126	9044	428	4.7	0.001790	<b>1.7013</b>	ug/L
Cs	133	15	144909	118	0.1	0.029160	<b>4.8040</b>	ug/L
Ba	138	60	503359	1884	0.4	0.101291	<b>20.9948</b>	ug/L
Ce	140	18	25385	362	1.4	0.005105	<b>0.9585</b>	ug/L
Tm	169	1270088	1365255	4211	0.3	1365255.428635		ug/L
Tl	205	10	7742	124	1.6	0.005663	<b>0.5160</b>	ug/L
Pb	208	58	105421	723	0.7	0.077172	<b>5.2195</b>	ug/L
Bi	209	101	412702	3714	0.9	0.302217	<b>23.9891</b>	ug/L
Th	232	30	17307	748	4.3	0.012654	<b>0.9719</b>	ug/L
U	238	6	23933	170	0.7	0.017525	<b>1.0246</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	110.623
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	115.860
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	118.526
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	107.493
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCBC**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 22:35:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCBC.174

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	53	13	23.9	0.000020	<b>0.0172</b>	ug/L
Be	9	25	40	8	19.8	0.000024	<b>0.0652</b>	ug/L
B	11	322	601	41	6.8	0.000459	<b>0.5702</b>	ug/L
Na	23	3977	5758	1201	20.9	0.002698	<b>1.8785</b>	ug/L
Mg	24	111	1982	2706	136.5	0.003313	<b>0.6987</b>	ug/L
Al	27	1010	1723	1034	60.0	0.001147	<b>0.2276</b>	ug/L
K	39	430753	426398	4169	1.0	-0.059100	<b>-2.2031</b>	ug/L
Ca	44	32562	29844	348	1.2	-0.008728	<b>-12.9268</b>	ug/L
Sc	45	525930	561130	6036	1.1	561130.111012		ug/L
Ti	47	944	885	14	1.5	-0.000219	<b>-0.1219</b>	ug/L
Ti	48	-2694	-2405	9	0.4	0.000835	<b>0.0493</b>	ug/L
V	51	197	193	29	15.1	-0.000031	<b>0.0044</b>	ug/L
Cr	52	7265	7857	68	0.9	0.000190	<b>0.0002</b>	ug/L
Cr	53	117	128	12	9.0	0.000007	<b>-0.0031</b>	ug/L
Mn	55	280	356	40	11.2	0.000103	<b>0.0057</b>	ug/L
Fe	54	39304	41950	934	2.2	0.000025	<b>1.2967</b>	ug/L
Fe	57	5552	5994	88	1.5	0.000125	<b>0.4833</b>	ug/L
Co	59	38	56	8	14.2	0.000028	<b>-0.0013</b>	ug/L
Ni	60	32	50	9	17.9	0.000029	<b>0.0071</b>	ug/L
Ni	62	114	160	17	10.6	0.000070	<b>0.1754</b>	ug/L
Cu	65	49	71	8	10.7	0.000076	<b>0.0108</b>	ug/L
Cu	63	51	87	13	14.9	0.000138	<b>0.0076</b>	ug/L
Zn	66	439	456	32	7.0	-0.000128	<b>0.0498</b>	ug/L
Zn	68	213	239	15	6.3	0.000021	<b>0.0735</b>	ug/L
Ge	74	202077	222932	3045	1.4	222931.978496		ug/L
As	75	-111	-154	20	13.2	-0.000140	<b>0.0176</b>	ug/L
As-1	75	9698	9834	245	2.5	-0.003884	<b>-0.2647</b>	ug/L
Se	77	129	176	11	6.2	0.000007	<b>0.1677</b>	ug/L
Se	82	20	44	8	17.6	0.000005	<b>0.1447</b>	ug/L
Sr	88	76	107	16	15.0	0.000004	<b>-0.0029</b>	ug/L
Mo	98	130	690	111	16.1	0.000115	<b>0.1036</b>	ug/L
Ag	107	40	79	22	27.4	0.000007	<b>0.0058</b>	ug/L
Ag	109	40	78	14	17.3	0.000007	<b>0.0065</b>	ug/L
Cd	111	11	32	5	15.6	0.000004	<b>0.0016</b>	ug/L
Cd	114	77	79	13	16.7	-0.000002	<b>0.0015</b>	ug/L
In	115	4192305	4730859	43903	0.9	4730858.718131		ug/L

Sn	120	978	753	396	52.6	-0.000075	<b>-0.0022</b>	ug/L
Sb	121	126	1054	40	3.7	0.000193	<b>0.1944</b>	ug/L
Cs	133	15	55	22	40.5	0.000008	<b>0.0020</b>	ug/L
Ba	138	60	143	75	52.4	0.000016	<b>0.0122</b>	ug/L
Ce	140	18	32	4	11.3	0.000003	<b>0.0003</b>	ug/L
> Tm	169	1270088	1294459	5536	0.4	1294458.640888		ug/L
Tl	205	10	23	3	10.8	0.000010	<b>0.0007</b>	ug/L
Pb	208	58	129	10	7.9	0.000054	<b>0.0022</b>	ug/L
Bi	209	101	2149	371	17.3	0.001580	<b>0.1347</b>	ug/L
Th	232	30	526	80	15.3	0.000383	<b>0.0405</b>	ug/L
U	238	6	28	3	10.8	0.000017	<b>0.0003</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	106.693
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	110.320
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.846
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.919
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BLK1**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 22:39:00

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 225

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BLK1.175

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	56	7	12.1	0.000021	<b>0.8783</b>	ug/L
Be	9	25	44	12	27.6	0.000028	<b>3.5681</b>	ug/L
B	11	322	429	6	1.5	0.000117	<b>9.2213</b>	ug/L
Na	23	3977	5899	151	2.6	0.002467	<b>93.0309</b>	ug/L
Mg	24	111	449	338	75.3	0.000558	<b>19.5168</b>	ug/L
Al	27	1010	2371	76	3.2	0.002111	<b>15.3008</b>	ug/L
K	39	430753	434652	2588	0.6	-0.080494	<b>-169.1496</b>	ug/L
Ca	44	32562	29741	161	0.5	-0.011372	<b>-896.0389</b>	ug/L
Sc	45	525930	588730	14961	2.5	588729.696579		ug/L
Ti	47	944	916	15	1.6	-0.000239	<b>-6.8644</b>	ug/L
Ti	48	-2694	-2319	26	1.1	0.001181	<b>3.6903</b>	ug/L
V	51	197	24888	2316	9.3	0.041854	<b>124.9067</b>	ug/L
Cr	52	7265	9745	478	4.9	0.002732	<b>8.8683</b>	ug/L
Cr	53	117	8498	880	10.3	0.014195	<b>435.1839</b>	ug/L
Mn	55	280	384	6	1.6	0.000121	<b>0.3264</b>	ug/L
Fe	54	39304	49357	849	1.7	0.009116	<b>477.1096</b>	ug/L
Fe	57	5552	6497	179	2.8	0.000480	<b>65.0975</b>	ug/L
Co	59	38	51	6	10.9	0.000014	<b>-0.1016</b>	ug/L
Ni	60	32	53	10	18.4	0.000029	<b>0.3551</b>	ug/L
Ni	62	114	153	7	4.3	0.000044	<b>6.6812</b>	ug/L
Cu	65	49	67	2	2.3	0.000049	<b>0.4283</b>	ug/L
Cu	63	51	86	17	20.2	0.000119	<b>0.3394</b>	ug/L
Zn	66	439	309	9	2.8	-0.000841	<b>-2.8488</b>	ug/L
Zn	68	213	150	8	5.0	-0.000405	<b>-0.5122</b>	ug/L
Ge	74	202077	232133	4079	1.8	232133.281000		ug/L
As	75	-111	-336	24	7.2	-0.000896	<b>-3.2150</b>	ug/L
As-1	75	9698	10041	132	1.3	-0.004732	<b>-18.2267</b>	ug/L
Se	77	129	1151	62	5.4	0.000218	<b>330.8118</b>	ug/L
Se	82	20	9	11	124.5	-0.000003	<b>-1.1272</b>	ug/L
Sr	88	76	87	9	10.0	0.000001	<b>-0.1801</b>	ug/L
Mo	98	130	244	78	31.9	0.000022	<b>1.1835</b>	ug/L
Ag	107	40	66	7	10.0	0.000005	<b>0.2400</b>	ug/L
Ag	109	40	69	7	10.1	0.000005	<b>0.2901</b>	ug/L
Cd	111	11	34	2	5.9	0.000005	<b>0.1415</b>	ug/L
Cd	114	77	72	7	9.9	-0.000003	<b>0.0301</b>	ug/L
In	115	4192305	4619560	35801	0.8	4619560.209642		ug/L

Sn	120	978	660	407	61.7	-0.000090	<b>-0.4724</b>	ug/L
Sb	121	126	486	76	15.6	0.000075	<b>4.1770</b>	ug/L
Cs	133	15	36	9	25.0	0.000004	<b>0.0674</b>	ug/L
Ba	138	60	109	64	59.2	0.000009	<b>0.5442</b>	ug/L
Ce	140	18	32	9	27.1	0.000003	<b>0.0173</b>	ug/L
> Tm	169	1270088	1283285	8552	0.7	1283284.906916		ug/L
Tl	205	10	61	9	15.6	0.000040	<b>0.1685</b>	ug/L
Pb	208	58	158	47	29.5	0.000077	<b>0.1913</b>	ug/L
Bi	209	101	830	132	15.9	0.000567	<b>2.7162</b>	ug/L
Th	232	30	272	54	20.0	0.000188	<b>1.2840</b>	ug/L
U	238	6	32	6	17.4	0.000020	<b>0.0243</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	111.941
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.874
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.191
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.039
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BLK2**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 22:42:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 226

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BLK2.176

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	48	7	14.6	0.000005	<b>0.5512</b>	ug/L
Be	9	25	35	6	16.7	0.000011	<b>2.0177</b>	ug/L
B	11	322	358	13	3.7	-0.000015	<b>1.7626</b>	ug/L
Na	23	3977	7176	397	5.5	0.004416	<b>100.5567</b>	ug/L
Mg	24	111	226	9	4.0	0.000166	<b>17.3217</b>	ug/L
Al	27	1010	1611	62	3.8	0.000771	<b>9.8522</b>	ug/L
K	39	430753	434783	2407	0.6	-0.093002	<b>-203.6392</b>	ug/L
Ca	44	32562	30178	66	0.2	-0.011518	<b>-909.7814</b>	ug/L
Sc	45	525930	598906	8811	1.5	598906.358324		ug/L
Ti	47	944	946	13	1.4	-0.000216	<b>-5.9593</b>	ug/L
Ti	48	-2694	-2409	21	0.9	0.001099	<b>3.3999</b>	ug/L
V	51	197	22244	929	4.2	0.036756	<b>109.7316</b>	ug/L
Cr	52	7265	9490	214	2.3	0.002030	<b>6.4233</b>	ug/L
Cr	53	117	7566	248	3.3	0.012410	<b>380.4133</b>	ug/L
Mn	55	280	380	18	4.8	0.000104	<b>0.2848</b>	ug/L
Fe	54	39304	49900	358	0.7	0.008591	<b>453.3239</b>	ug/L
Fe	57	5552	6520	119	1.8	0.000331	<b>47.8802</b>	ug/L
Co	59	38	57	5	8.0	0.000022	<b>-0.0773</b>	ug/L
Ni	60	32	51	13	25.1	0.000025	<b>0.3085</b>	ug/L
Ni	62	114	163	14	8.8	0.000057	<b>7.6888</b>	ug/L
Cu	65	49	58	3	4.3	0.000003	<b>0.2333</b>	ug/L
Cu	63	51	79	4	5.1	0.000079	<b>0.2541</b>	ug/L
Zn	66	439	303	9	3.0	-0.000907	<b>-3.3426</b>	ug/L
Zn	68	213	162	21	12.8	-0.000375	<b>-0.2210</b>	ug/L
Ge	74	202077	239543	3588	1.5	239542.687431		ug/L
As	75	-111	-309	223	72.3	-0.000738	<b>-2.3575</b>	ug/L
As-1	75	9698	10117	173	1.7	-0.005754	<b>-24.2432</b>	ug/L
Se	77	129	982	46	4.7	0.000182	<b>276.0461</b>	ug/L
Se	82	20	15	10	65.9	-0.000001	<b>0.4183</b>	ug/L
Sr	88	76	94	9	9.8	0.000002	<b>-0.1666</b>	ug/L
Mo	98	130	171	49	28.4	0.000006	<b>0.5005</b>	ug/L
Ag	107	40	51	3	5.6	0.000002	<b>0.1722</b>	ug/L
Ag	109	40	47	8	15.9	0.000001	<b>0.1887</b>	ug/L
Cd	111	11	33	5	13.8	0.000005	<b>0.1172</b>	ug/L
Cd	114	77	77	7	8.7	-0.000002	<b>0.0721</b>	ug/L
In	115	4192305	4607873	40371	0.9	4607873.352407		ug/L



Sn	120	978	548	455	83.0	-0.000115	<b>-1.0384</b>	ug/L
Sb	121	126	307	54	17.7	0.000036	<b>2.3537</b>	ug/L
Cs	133	15	29	8	26.0	0.000003	<b>0.0551</b>	ug/L
Ba	138	60	81	6	7.1	0.000003	<b>0.4817</b>	ug/L
Ce	140	18	38	3	6.7	0.000004	<b>0.0291</b>	ug/L
> Tm	169	1270088	1286064	7426	0.6	1286063.700966		ug/L
Tl	205	10	40	9	21.1	0.000024	<b>0.0959</b>	ug/L
Pb	208	58	121	15	12.0	0.000048	<b>0.0934</b>	ug/L
Bi	209	101	296	88	29.5	0.000150	<b>1.0631</b>	ug/L
Th	232	30	184	62	33.5	0.000120	<b>1.0238</b>	ug/L
U	238	6	30	7	21.9	0.000018	<b>0.0196</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	113.876
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	118.540
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.913
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	101.258
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BLK3**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 22:46:32

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 227

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BLK3.177

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	43	1	2.3	-0.000005	<b>0.3422</b>	ug/L
Be	9	25	47	10	21.6	0.000030	<b>3.7670</b>	ug/L
B	11	322	375	28	7.5	-0.000002	<b>2.5223</b>	ug/L
Na	23	3977	6336	130	2.0	0.002770	<b>94.2008</b>	ug/L
Mg	24	111	230	10	4.4	0.000163	<b>17.3012</b>	ug/L
Al	27	1010	1298	49	3.8	0.000197	<b>7.5184</b>	ug/L
K	39	430753	439348	2715	0.6	-0.102668	<b>-230.2916</b>	ug/L
Ca	44	32562	29841	102	0.3	-0.013255	<b>-1073.8544</b>	ug/L
Sc	45	525930	613353	8801	1.4	613352.771095		ug/L
Ti	47	944	930	21	2.3	-0.000279	<b>-8.4361</b>	ug/L
Ti	48	-2694	-2374	25	1.0	0.001250	<b>3.9356</b>	ug/L
V	51	197	32636	1805	5.5	0.052820	<b>157.5513</b>	ug/L
Cr	52	7265	10168	218	2.1	0.002765	<b>8.9816</b>	ug/L
Cr	53	117	11105	455	4.1	0.017880	<b>548.2602</b>	ug/L
Mn	55	280	409	36	8.8	0.000135	<b>0.3585</b>	ug/L
Fe	54	39304	51727	227	0.4	0.009613	<b>499.6450</b>	ug/L
Fe	57	5552	6769	283	4.2	0.000480	<b>65.0296</b>	ug/L
Co	59	38	59	12	19.8	0.000025	<b>-0.0708</b>	ug/L
Ni	60	32	56	4	6.3	0.000031	<b>0.3777</b>	ug/L
Ni	62	114	167	28	16.7	0.000056	<b>7.6587</b>	ug/L
Cu	65	49	65	10	15.9	0.000028	<b>0.3390</b>	ug/L
Cu	63	51	81	3	3.5	0.000085	<b>0.2671</b>	ug/L
Zn	66	439	312	25	7.9	-0.000876	<b>-3.1098</b>	ug/L
Zn	68	213	152	9	5.8	-0.000422	<b>-0.6870</b>	ug/L
Ge	74	202077	241153	6115	2.5	241152.961591		ug/L
As	75	-111	-480	204	42.4	-0.001452	<b>-6.2311</b>	ug/L
As-1	75	9698	10036	346	3.4	-0.006378	<b>-27.9122</b>	ug/L
Se	77	129	1378	27	1.9	0.000272	<b>411.9979</b>	ug/L
Se	82	20	16	13	79.7	-0.000001	<b>0.7111</b>	ug/L
Sr	88	76	92	3	2.7	0.000002	<b>-0.1691</b>	ug/L
Mo	98	130	120	39	32.9	-0.000005	<b>0.0321</b>	ug/L
Ag	107	40	53	1	2.2	0.000002	<b>0.1811</b>	ug/L
Ag	109	40	42	2	5.5	-0.000000	<b>0.1672</b>	ug/L
Cd	111	11	27	4	13.9	0.000003	<b>0.0176</b>	ug/L
Cd	114	77	80	10	12.6	-0.000001	<b>0.1059</b>	ug/L
In	115	4192305	4555227	24230	0.5	4555226.999748		ug/L

Sn	120	978	521	450	86.3	-0.000119	<b>-1.1411</b>	ug/L
Sb	121	126	213	49	23.0	0.000017	<b>1.4144</b>	ug/L
Cs	133	15	34	2	5.1	0.000004	<b>0.0642</b>	ug/L
Ba	138	60	84	1	1.2	0.000004	<b>0.4915</b>	ug/L
Ce	140	18	34	4	12.1	0.000003	<b>0.0231</b>	ug/L
> Tm	169	1270088	1281736	3190	0.2	1281735.580540		ug/L
Tl	205	10	38	4	11.5	0.000022	<b>0.0881</b>	ug/L
Pb	208	58	117	2	1.8	0.000046	<b>0.0839</b>	ug/L
Bi	209	101	233	62	26.6	0.000102	<b>0.8696</b>	ug/L
Th	232	30	78	22	28.2	0.000038	<b>0.7121</b>	ug/L
U	238	6	23	4	17.3	0.000013	<b>0.0054</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.622
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	119.337
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	108.657
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	100.917
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BLK4**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 22:50:18

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 228

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BLK4.178

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	53	9	15.9	0.000022	<b>0.8924</b>	ug/L
Be	9	25	41	10	24.5	0.000028	<b>3.6002</b>	ug/L
B	11	322	361	14	3.9	0.000040	<b>4.8795</b>	ug/L
Na	23	3977	6285	378	6.0	0.003778	<b>98.0953</b>	ug/L
Mg	24	111	447	226	50.5	0.000589	<b>19.6875</b>	ug/L
Al	27	1010	1393	151	10.9	0.000592	<b>9.1261</b>	ug/L
K	39	430753	425740	2734	0.6	-0.050097	<b>-85.3313</b>	ug/L
Ca	44	32562	30616	136	0.4	-0.006615	<b>-446.9094</b>	ug/L
Sc	45	525930	553907	15830	2.9	553906.524461		ug/L
Ti	47	944	1000	9	0.9	0.000010	<b>2.7868</b>	ug/L
Ti	48	-2694	-2327	46	2.0	0.000917	<b>2.7552</b>	ug/L
V	51	197	30568	587	1.9	0.054824	<b>163.5141</b>	ug/L
Cr	52	7265	9527	490	5.1	0.003379	<b>11.1236</b>	ug/L
Cr	53	117	10468	157	1.5	0.018682	<b>572.8563</b>	ug/L
Mn	55	280	517	222	43.0	0.000395	<b>0.9705</b>	ug/L
Fe	54	39304	47131	2314	4.9	0.010323	<b>531.8665</b>	ug/L
Fe	57	5552	5970	414	6.9	0.000213	<b>34.2856</b>	ug/L
Co	59	38	80	54	67.1	0.000070	<b>0.0614</b>	ug/L
Ni	60	32	55	8	14.2	0.000040	<b>0.4973</b>	ug/L
Ni	62	114	140	27	19.5	0.000037	<b>6.0518</b>	ug/L
Cu	65	49	78	16	20.7	0.000115	<b>0.7031</b>	ug/L
Cu	63	51	92	41	44.5	0.000165	<b>0.4385</b>	ug/L
Zn	66	439	356	67	18.8	-0.000538	<b>-0.5824</b>	ug/L
Zn	68	213	169	43	25.3	-0.000281	<b>0.7001</b>	ug/L
Ge	74	202077	217231	12277	5.7	217230.761555		ug/L
As	75	-111	-292	27	9.2	-0.000793	<b>-2.6577</b>	ug/L
As-1	75	9698	9756	143	1.5	-0.003006	<b>-8.0695</b>	ug/L
Se	77	129	1270	17	1.3	0.000265	<b>401.8255</b>	ug/L
Se	82	20	8	10	122.0	-0.000003	<b>-1.1412</b>	ug/L
Sr	88	76	198	98	49.6	0.000028	<b>0.0594</b>	ug/L
Mo	98	130	99	27	27.5	-0.000008	<b>-0.1004</b>	ug/L
Ag	107	40	49	8	17.2	0.000002	<b>0.1762</b>	ug/L
Ag	109	40	50	15	29.1	0.000002	<b>0.2175</b>	ug/L
Cd	111	11	29	6	21.0	0.000004	<b>0.0860</b>	ug/L
Cd	114	77	81	15	19.1	0.000000	<b>0.1571</b>	ug/L
In	115	4192305	4292752	94310	2.2	4292751.614133		ug/L

Sn	120	978	581	543	93.4	-0.000097	<b>-0.6237</b>	ug/L
Sb	121	126	173	21	12.3	0.000010	<b>1.1137</b>	ug/L
Cs	133	15	38	27	72.0	0.000005	<b>0.0743</b>	ug/L
Ba	138	60	99	55	55.7	0.000009	<b>0.5382</b>	ug/L
Ce	140	18	42	16	37.4	0.000006	<b>0.0437</b>	ug/L
> Tm	169	1270088	1219999	20757	1.7	1219999.001724		ug/L
Tl	205	10	32	6	17.4	0.000018	<b>0.0714</b>	ug/L
Pb	208	58	126	4	3.0	0.000057	<b>0.1227</b>	ug/L
Bi	209	101	190	37	19.2	0.000076	<b>0.7675</b>	ug/L
Th	232	30	62	14	23.1	0.000027	<b>0.6722</b>	ug/L
U	238	6	29	2	7.3	0.000019	<b>0.0210</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	105.319
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	107.499
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	102.396
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	96.056
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCVD

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 22:54:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCVD.179

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	6726	97	1.4	0.011914	<b>4.9655</b>	ug/L
Be	9	25	635	14	2.2	0.001084	<b>2.0458</b>	ug/L
B	11	322	49804	472	0.9	0.088150	<b>99.4508</b>	ug/L
Na	23	3977	7310187	175565	2.4	13.019645	<b>1007.2002</b>	ug/L
Mg	24	111	10008976	243724	2.4	17.834864	<b>1997.4192</b>	ug/L
Al	27	1010	3498835	56532	1.6	6.233061	<b>506.8974</b>	ug/L
K	39	430753	10826812	160534	1.5	18.474954	<b>1019.9171</b>	ug/L
Ca	44	32562	605235	8778	1.5	1.016640	<b>1923.4451</b>	ug/L
Sc	45	525930	561144	6745	1.2	561143.539843		ug/L
Ti	47	944	8166	120	1.5	0.012757	<b>9.9461</b>	ug/L
Ti	48	-2694	78133	813	1.0	0.144366	<b>10.2178</b>	ug/L
V	51	197	100696	1857	1.8	0.179065	<b>10.6672</b>	ug/L
Cr	52	7265	204412	1600	0.8	0.350477	<b>24.4148</b>	ug/L
Cr	53	117	24698	121	0.5	0.043794	<b>26.8672</b>	ug/L
Mn	55	280	290171	569	0.2	0.516625	<b>24.3465</b>	ug/L
Fe	54	39304	341711	3044	0.9	0.534272	<b>485.8517</b>	ug/L
Fe	57	5552	129863	2023	1.6	0.220892	<b>509.3407</b>	ug/L
Co	59	38	49798	166	0.3	0.088679	<b>5.1154</b>	ug/L
Ni	60	32	22180	613	2.8	0.039462	<b>10.2279</b>	ug/L
Ni	62	114	3598	49	1.3	0.006197	<b>10.2834</b>	ug/L
Cu	65	49	26345	302	1.1	0.119221	<b>10.0030</b>	ug/L
Cu	63	51	51743	421	0.8	0.234377	<b>10.0110</b>	ug/L
Zn	66	439	74583	1132	1.5	0.335956	<b>50.3408</b>	ug/L
Zn	68	213	56495	1144	2.0	0.255057	<b>50.2701</b>	ug/L
Ge	74	202077	220595	4338	2.0	220595.342255		ug/L
As	75	-111	21000	484	2.3	0.095750	<b>10.4117</b>	ug/L
As-1	75	9698	29455	314	1.1	0.085552	<b>10.2626</b>	ug/L
Se	77	129	3477	82	2.4	0.000714	<b>21.7088</b>	ug/L
Se	82	20	4560	97	2.1	0.000972	<b>22.1278</b>	ug/L
Sr	88	76	267308	1561	0.6	0.057266	<b>10.2190</b>	ug/L
Mo	98	130	27871	553	2.0	0.005942	<b>5.1263</b>	ug/L
Ag	107	40	22526	296	1.3	0.004818	<b>2.0357</b>	ug/L
Ag	109	40	21720	64	0.3	0.004645	<b>2.0275</b>	ug/L
Cd	111	11	2706	82	3.0	0.000577	<b>1.0455</b>	ug/L
Cd	114	77	5948	131	2.2	0.001256	<b>0.9860</b>	ug/L
In	115	4192305	4666378	12244	0.3	4666377.521301		ug/L

Sn	120	978	50046	607	1.2	0.010492	<b>4.8679</b>	ug/L
Sb	121	126	8746	361	4.1	0.001844	<b>1.7527</b>	ug/L
Cs	133	15	135837	1545	1.1	0.029106	<b>4.7952</b>	ug/L
Ba	138	60	474827	4819	1.0	0.101740	<b>21.0880</b>	ug/L
Ce	140	18	23794	238	1.0	0.005095	<b>0.9566</b>	ug/L
Tm	169	1270088	1308174	8821	0.7	1308174.389534		ug/L
Tl	205	10	7473	128	1.7	0.005705	<b>0.5198</b>	ug/L
Pb	208	58	100733	545	0.5	0.076957	<b>5.2050</b>	ug/L
Bi	209	101	392063	3505	0.9	0.299621	<b>23.7832</b>	ug/L
Th	232	30	16755	778	4.6	0.012786	<b>0.9818</b>	ug/L
U	238	6	23127	289	1.3	0.017675	<b>1.0333</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	106.695
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	109.164
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	111.308
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	102.999
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCBD**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 22:57:54

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCBD.180

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	51	5	9.2	0.000014	<b>0.0146</b>	ug/L
Be	9	25	38	5	12.1	0.000019	<b>0.0550</b>	ug/L
B	11	322	595	62	10.4	0.000416	<b>0.5212</b>	ug/L
Na	23	3977	5966	1219	20.4	0.002761	<b>1.8833</b>	ug/L
Mg	24	111	1268	1381	108.8	0.001992	<b>0.5509</b>	ug/L
Al	27	1010	1408	478	33.9	0.000518	<b>0.1765</b>	ug/L
K	39	430753	429874	2508	0.6	-0.076081	<b>-3.1396</b>	ug/L
Ca	44	32562	29665	167	0.6	-0.010645	<b>-16.5472</b>	ug/L
Sc	45	525930	578668	7599	1.3	578668.319128		ug/L
Ti	47	944	925	39	4.3	-0.000197	<b>-0.1048</b>	ug/L
Ti	48	-2694	-2297	151	6.6	0.001153	<b>0.0718</b>	ug/L
V	51	197	3128	299	9.5	0.005032	<b>0.3059</b>	ug/L
Cr	52	7265	8365	156	1.9	0.000646	<b>0.0319</b>	ug/L
Cr	53	117	1010	132	13.1	0.001524	<b>0.9279</b>	ug/L
Mn	55	280	449	189	42.1	0.000246	<b>0.0124</b>	ug/L
Fe	54	39304	42942	247	0.6	-0.000514	<b>0.8081</b>	ug/L
Fe	57	5552	6355	92	1.5	0.000426	<b>1.1758</b>	ug/L
Co	59	38	70	30	42.9	0.000050	<b>0.0000</b>	ug/L
Ni	60	32	55	14	25.3	0.000035	<b>0.0088</b>	ug/L
Ni	62	114	167	6	3.4	0.000072	<b>0.1790</b>	ug/L
Cu	65	49	76	13	16.5	0.000089	<b>0.0119</b>	ug/L
Cu	63	51	102	33	32.3	0.000189	<b>0.0098</b>	ug/L
Zn	66	439	445	21	4.7	-0.000244	<b>0.0324</b>	ug/L
Zn	68	213	253	15	5.9	0.000040	<b>0.0773</b>	ug/L
Ge	74	202077	231240	2785	1.2	231239.962206		ug/L
As	75	-111	-199	27	13.5	-0.000309	<b>-0.0007</b>	ug/L
As-1	75	9698	10070	204	2.0	-0.004434	<b>-0.3295</b>	ug/L
Se	77	129	227	6	2.8	0.000018	<b>0.5010</b>	ug/L
Se	82	20	39	8	20.9	0.000003	<b>0.1195</b>	ug/L
Sr	88	76	139	55	39.5	0.000011	<b>-0.0017</b>	ug/L
Mo	98	130	706	124	17.6	0.000119	<b>0.1074</b>	ug/L
Ag	107	40	92	25	26.7	0.000010	<b>0.0070</b>	ug/L
Ag	109	40	84	36	43.6	0.000008	<b>0.0071</b>	ug/L
Cd	111	11	29	2	6.0	0.000004	<b>0.0007</b>	ug/L
Cd	114	77	76	7	9.2	-0.000002	<b>0.0011</b>	ug/L
In	115	4192305	4700928	35357	0.8	4700928.360225		ug/L

Sn	120	978	767	426	55.6	-0.000070	<b>-0.0003</b>	ug/L
Sb	121	126	1096	42	3.8	0.000203	<b>0.2043</b>	ug/L
Cs	133	15	41	2	3.8	0.000005	<b>0.0015</b>	ug/L
Ba	138	60	107	31	29.5	0.000008	<b>0.0107</b>	ug/L
Ce	140	18	37	9	24.0	0.000004	<b>0.0005</b>	ug/L
> Tm	169	1270088	1301176	8293	0.6	1301175.661138		ug/L
Tl	205	10	31	4	11.5	0.000016	<b>0.0012</b>	ug/L
Pb	208	58	142	44	30.8	0.000063	<b>0.0029</b>	ug/L
Bi	209	101	2277	439	19.3	0.001669	<b>0.1417</b>	ug/L
Th	232	30	530	99	18.8	0.000383	<b>0.0405</b>	ug/L
U	238	6	40	18	44.7	0.000026	<b>0.0009</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	110.028
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	114.432
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	112.132
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.448
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS1**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:01:42

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 229

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS1.181

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	59	3	5.1	0.000022	<b>0.8918</b>	ug/L
Be	9	25	131	6	4.5	0.000166	<b>16.4893</b>	ug/L
B	11	322	2101	34	1.6	0.002809	<b>160.9710</b>	ug/L
Na	23	3977	229472	6472	2.8	0.365981	<b>1496.7707</b>	ug/L
Mg	24	111	51871	1147	2.2	0.084221	<b>487.9280</b>	ug/L
Al	27	1010	15680	186	1.2	0.023606	<b>102.6802</b>	ug/L
K	39	430753	688563	1444	0.2	0.302034	<b>885.6384</b>	ug/L
Ca	44	32562	49389	598	1.2	0.018490	<b>1923.6020</b>	ug/L
Sc	45	525930	614321	10908	1.8	614320.670822		ug/L
Ti	47	944	1676	21	1.3	0.000934	<b>38.6226</b>	ug/L
Ti	48	-2694	5452	26	0.5	0.013998	<b>49.0897</b>	ug/L
V	51	197	93329	2983	3.2	0.151526	<b>451.3800</b>	ug/L
Cr	52	7265	17171	257	1.5	0.014138	<b>48.6177</b>	ug/L
Cr	53	117	11173	676	6.1	0.017957	<b>550.6015</b>	ug/L
Mn	55	280	1797	70	3.9	0.002393	<b>5.6794</b>	ug/L
Fe	54	39304	57948	1257	2.2	0.019594	<b>952.2730</b>	ug/L
Fe	57	5552	9785	146	1.5	0.005373	<b>628.9438</b>	ug/L
Co	59	38	2311	90	3.9	0.003688	<b>10.5013</b>	ug/L
Ni	60	32	1048	55	5.2	0.001645	<b>21.2970</b>	ug/L
Ni	62	114	299	14	4.8	0.000271	<b>25.3845</b>	ug/L
Cu	65	49	652	46	7.1	0.002436	<b>10.4362</b>	ug/L
Cu	63	51	1236	48	3.9	0.004828	<b>10.3939</b>	ug/L
Zn	66	439	1485	10	0.6	0.003930	<b>32.8504</b>	ug/L
Zn	68	213	1051	51	4.9	0.003263	<b>35.5829</b>	ug/L
Ge	74	202077	243533	5610	2.3	243532.608438		ug/L
As	75	-111	717	25	3.5	0.003492	<b>20.5680</b>	ug/L
As-1	75	9698	11163	215	1.9	-0.002147	<b>-3.0153</b>	ug/L
Se	77	129	1467	77	5.3	0.000284	<b>430.3919</b>	ug/L
Se	82	20	167	15	9.0	0.000031	<b>37.2203</b>	ug/L
Sr	88	76	461	47	10.1	0.000081	<b>0.5329</b>	ug/L
Mo	98	130	2691	86	3.2	0.000546	<b>23.7680</b>	ug/L
Ag	107	40	438	43	9.8	0.000085	<b>1.9203</b>	ug/L
Ag	109	40	428	38	9.0	0.000082	<b>1.9642</b>	ug/L
Cd	111	11	110	6	5.0	0.000021	<b>1.6250</b>	ug/L
Cd	114	77	281	16	5.8	0.000042	<b>1.7795</b>	ug/L
In	115	4192305	4664376	13746	0.3	4664375.586910		ug/L

Sn	120	978	1143	421	36.8	0.000012	<b>1.8812</b>	ug/L
Sb	121	126	999	77	7.7	0.000184	<b>9.3153</b>	ug/L
Cs	133	15	32	11	33.9	0.000003	<b>0.0598</b>	ug/L
Ba	138	60	7777	98	1.3	0.001653	<b>17.5733</b>	ug/L
Ce	140	18	36	4	9.8	0.000003	<b>0.0241</b>	ug/L
> Tm	169	1270088	1311791	8466	0.6	1311790.991101		ug/L
Tl	205	10	336	11	3.2	0.000248	<b>1.1192</b>	ug/L
Pb	208	58	1388	4	0.3	0.001012	<b>3.3528</b>	ug/L
Bi	209	101	859	199	23.2	0.000574	<b>2.7444</b>	ug/L
Th	232	30	5313	166	3.1	0.004027	<b>15.8519</b>	ug/L
U	238	6	544	18	3.3	0.000410	<b>1.1652</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	116.806
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	120.515
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.260
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.283
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS2**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:05:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 230

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS2.182

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	45	6	14.0	-0.000003	<b>0.3794</b>	ug/L
Be	9	25	126	8	6.0	0.000153	<b>15.2641</b>	ug/L
B	11	322	2106	89	4.2	0.002726	<b>156.3041</b>	ug/L
Na	23	3977	232824	3395	1.5	0.361777	<b>1480.5384</b>	ug/L
Mg	24	111	52107	1752	3.4	0.082432	<b>477.9148</b>	ug/L
Al	27	1010	15546	357	2.3	0.022744	<b>99.1760</b>	ug/L
K	39	430753	697684	10053	1.4	0.287791	<b>846.3639</b>	ug/L
Ca	44	32562	49839	677	1.4	0.017149	<b>1797.0438</b>	ug/L
Sc	45	525930	630664	21410	3.4	630663.672631		ug/L
Ti	47	944	1717	77	4.5	0.000927	<b>38.3769</b>	ug/L
Ti	48	-2694	5666	137	2.4	0.014114	<b>49.5007</b>	ug/L
V	51	197	100440	3012	3.0	0.158911	<b>473.3629</b>	ug/L
Cr	52	7265	17737	452	2.5	0.014320	<b>49.2501</b>	ug/L
Cr	53	117	12939	531	4.1	0.020292	<b>622.2637</b>	ug/L
Mn	55	280	1829	59	3.2	0.002369	<b>5.6225</b>	ug/L
Fe	54	39304	59309	1615	2.7	0.019345	<b>941.0190</b>	ug/L
Fe	57	5552	9797	149	1.5	0.004985	<b>584.2163</b>	ug/L
Co	59	38	2384	92	3.9	0.003708	<b>10.5583</b>	ug/L
Ni	60	32	1071	36	3.4	0.001639	<b>21.2277</b>	ug/L
Ni	62	114	313	11	3.6	0.000280	<b>26.1386</b>	ug/L
Cu	65	49	664	29	4.4	0.002438	<b>10.4440</b>	ug/L
Cu	63	51	1241	53	4.2	0.004750	<b>10.2286</b>	ug/L
Zn	66	439	1543	69	4.4	0.004051	<b>33.7574</b>	ug/L
Zn	68	213	1126	70	6.2	0.003488	<b>37.7967</b>	ug/L
Ge	74	202077	247987	5509	2.2	247987.261850		ug/L
As	75	-111	771	71	9.2	0.003663	<b>21.4908</b>	ug/L
As-1	75	9698	11273	101	0.9	-0.002522	<b>-5.2208</b>	ug/L
Se	77	129	1568	46	3.0	0.000305	<b>463.1700</b>	ug/L
Se	82	20	173	9	5.4	0.000032	<b>38.7698</b>	ug/L
Sr	88	76	571	94	16.4	0.000104	<b>0.7431</b>	ug/L
Mo	98	130	2637	39	1.5	0.000534	<b>23.2606</b>	ug/L
Ag	107	40	476	21	4.3	0.000092	<b>2.0879</b>	ug/L
Ag	109	40	470	37	7.8	0.000091	<b>2.1586</b>	ug/L
Cd	111	11	107	3	2.5	0.000020	<b>1.5595</b>	ug/L
Cd	114	77	243	31	12.9	0.000034	<b>1.4544</b>	ug/L
In	115	4192305	4665531	42843	0.9	4665530.707165		ug/L

Sn	120	978	1056	346	32.7	-0.000007	<b>1.4364</b>	ug/L
Sb	121	126	776	55	7.0	0.000136	<b>7.0576</b>	ug/L
Cs	133	15	45	15	32.0	0.000006	<b>0.0827</b>	ug/L
Ba	138	60	7817	82	1.1	0.001661	<b>17.6571</b>	ug/L
Ce	140	18	44	5	11.5	0.000005	<b>0.0402</b>	ug/L
> Tm	169	1270088	1316763	3205	0.2	1316762.906748		ug/L
Tl	205	10	358	8	2.1	0.000264	<b>1.1922</b>	ug/L
Pb	208	58	1402	37	2.6	0.001019	<b>3.3759</b>	ug/L
Bi	209	101	375	137	36.6	0.000205	<b>1.2799</b>	ug/L
Th	232	30	5459	172	3.2	0.004123	<b>16.2145</b>	ug/L
U	238	6	536	27	5.0	0.000402	<b>1.1429</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.914
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	122.719
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	111.288
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.675
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS3**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:09:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 231

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS3.183

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	42	1	2.8	-0.000010	<b>0.2264</b>	ug/L
Be	9	25	138	12	8.5	0.000167	<b>16.6087</b>	ug/L
B	11	322	2119	67	3.2	0.002670	<b>153.1298</b>	ug/L
Na	23	3977	237512	6806	2.9	0.360342	<b>1474.9979</b>	ug/L
Mg	24	111	53636	1033	1.9	0.082887	<b>480.4631</b>	ug/L
Al	27	1010	15944	442	2.8	0.022780	<b>99.3220</b>	ug/L
K	39	430753	700525	11952	1.7	0.266324	<b>787.1696</b>	ug/L
Ca	44	32562	50222	696	1.4	0.015900	<b>1679.0862</b>	ug/L
Sc	45	525930	645559	17089	2.6	645559.476179		ug/L
Ti	47	944	1697	3	0.2	0.000835	<b>34.7831</b>	ug/L
Ti	48	-2694	5714	267	4.7	0.013970	<b>48.9911</b>	ug/L
V	51	197	103475	4484	4.3	0.159866	<b>476.2056</b>	ug/L
Cr	52	7265	17946	659	3.7	0.013981	<b>48.0709</b>	ug/L
Cr	53	117	13623	451	3.3	0.020879	<b>640.2505</b>	ug/L
Mn	55	280	1807	127	7.0	0.002265	<b>5.3775</b>	ug/L
Fe	54	39304	61123	2109	3.5	0.019938	<b>967.8748</b>	ug/L
Fe	57	5552	9815	332	3.4	0.004647	<b>545.3488</b>	ug/L
Co	59	38	2357	35	1.5	0.003580	<b>10.1881</b>	ug/L
Ni	60	32	1132	21	1.8	0.001693	<b>21.9214</b>	ug/L
Ni	62	114	323	7	2.2	0.000285	<b>26.5424</b>	ug/L
Cu	65	49	684	18	2.6	0.002477	<b>10.6092</b>	ug/L
Cu	63	51	1277	17	1.3	0.004827	<b>10.3935</b>	ug/L
Zn	66	439	1566	43	2.7	0.004054	<b>33.7777</b>	ug/L
Zn	68	213	1080	28	2.6	0.003240	<b>35.3559</b>	ug/L
Ge	74	202077	251511	3640	1.4	251511.177944		ug/L
As	75	-111	694	329	47.4	0.003295	<b>19.5008</b>	ug/L
As-1	75	9698	11389	487	4.3	-0.002719	<b>-6.3806</b>	ug/L
Se	77	129	1624	46	2.8	0.000319	<b>483.8678</b>	ug/L
Se	82	20	175	21	11.7	0.000033	<b>39.3261</b>	ug/L
Sr	88	76	463	6	1.3	0.000082	<b>0.5410</b>	ug/L
Mo	98	130	2628	21	0.8	0.000535	<b>23.2817</b>	ug/L
Ag	107	40	493	37	7.4	0.000097	<b>2.1774</b>	ug/L
Ag	109	40	470	50	10.7	0.000092	<b>2.1692</b>	ug/L
Cd	111	11	104	8	7.8	0.000020	<b>1.5047</b>	ug/L
Cd	114	77	275	15	5.3	0.000041	<b>1.7345</b>	ug/L
In	115	4192305	4645030	52760	1.1	4645030.405712		ug/L

Sn	120	978	1126	409	36.3	0.000009	<b>1.8055</b>	ug/L
Sb	121	126	683	45	6.6	0.000117	<b>6.1476</b>	ug/L
Cs	133	15	29	2	5.3	0.000003	<b>0.0536</b>	ug/L
Ba	138	60	7834	28	0.4	0.001672	<b>17.7737</b>	ug/L
Ce	140	18	39	7	18.2	0.000004	<b>0.0304</b>	ug/L
> Tm	169	1270088	1324102	7759	0.6	1324101.873330		ug/L
Tl	205	10	372	8	2.2	0.000274	<b>1.2348</b>	ug/L
Pb	208	58	1440	30	2.1	0.001042	<b>3.4537</b>	ug/L
Bi	209	101	247	72	29.3	0.000106	<b>0.8880</b>	ug/L
Th	232	30	5556	189	3.4	0.004173	<b>16.4060</b>	ug/L
U	238	6	542	5	0.9	0.000405	<b>1.1503</b>	ug/L

### Int Std % Recovery

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.746
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.463
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.799
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	104.253
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS4**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:13:01

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 232

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS4.184

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	48	5	11.0	-0.000000	<b>0.4386</b>	ug/L
Be	9	25	141	7	4.9	0.000173	<b>17.1367</b>	ug/L
B	11	322	2087	57	2.7	0.002640	<b>151.4413</b>	ug/L
Na	23	3977	233320	6134	2.6	0.356052	<b>1458.4320</b>	ug/L
Mg	24	111	52959	418	0.8	0.082323	<b>477.3055</b>	ug/L
Al	27	1010	15709	253	1.6	0.022561	<b>98.4316</b>	ug/L
K	39	430753	701696	3394	0.5	0.274544	<b>809.8358</b>	ug/L
Ca	44	32562	50346	633	1.3	0.016548	<b>1740.2527</b>	ug/L
Sc	45	525930	641666	4895	0.8	641665.942427		ug/L
Ti	47	944	1685	38	2.2	0.000831	<b>34.6507</b>	ug/L
Ti	48	-2694	5573	221	4.0	0.013807	<b>48.4154</b>	ug/L
V	51	197	102580	2564	2.5	0.159483	<b>475.0673</b>	ug/L
Cr	52	7265	17992	237	1.3	0.014226	<b>48.9227</b>	ug/L
Cr	53	117	13391	435	3.3	0.020646	<b>633.1104</b>	ug/L
Mn	55	280	1752	65	3.7	0.002198	<b>5.2186</b>	ug/L
Fe	54	39304	59367	1073	1.8	0.017782	<b>870.1221</b>	ug/L
Fe	57	5552	9857	226	2.3	0.004804	<b>563.3975</b>	ug/L
Co	59	38	2332	125	5.4	0.003561	<b>10.1350</b>	ug/L
Ni	60	32	1081	19	1.8	0.001625	<b>21.0421</b>	ug/L
Ni	62	114	315	19	6.0	0.000275	<b>25.6802</b>	ug/L
Cu	65	49	685	8	1.2	0.002513	<b>10.7588</b>	ug/L
Cu	63	51	1264	35	2.8	0.004828	<b>10.3944</b>	ug/L
Zn	66	439	1572	64	4.1	0.004152	<b>34.5082</b>	ug/L
Zn	68	213	1084	33	3.0	0.003307	<b>36.0114</b>	ug/L
Ge	74	202077	248830	5410	2.2	248829.782290		ug/L
As	75	-111	634	211	33.3	0.003085	<b>18.3622</b>	ug/L
As-1	75	9698	11297	360	3.2	-0.002596	<b>-5.6534</b>	ug/L
Se	77	129	1607	45	2.8	0.000316	<b>479.4260</b>	ug/L
Se	82	20	163	21	13.0	0.000030	<b>36.6101</b>	ug/L
Sr	88	76	485	23	4.7	0.000087	<b>0.5863</b>	ug/L
Mo	98	130	2610	32	1.2	0.000532	<b>23.1811</b>	ug/L
Ag	107	40	448	32	7.2	0.000087	<b>1.9760</b>	ug/L
Ag	109	40	457	62	13.5	0.000089	<b>2.1122</b>	ug/L
Cd	111	11	112	6	4.9	0.000022	<b>1.6791</b>	ug/L
Cd	114	77	257	4	1.4	0.000037	<b>1.5917</b>	ug/L
In	115	4192305	4632760	4039	0.1	4632759.822227		ug/L



Sn	120	978	1060	437	41.2	-0.000005	<b>1.5009</b>	ug/L
Sb	121	126	620	28	4.5	0.000104	<b>5.5235</b>	ug/L
Cs	133	15	33	2	6.4	0.000003	<b>0.0608</b>	ug/L
Ba	138	60	7667	78	1.0	0.001641	<b>17.4449</b>	ug/L
Ce	140	18	33	5	14.5	0.000003	<b>0.0185</b>	ug/L
> Tm	169	1270088	1317017	4552	0.3	1317017.436788		ug/L
Tl	205	10	365	35	9.5	0.000270	<b>1.2175</b>	ug/L
Pb	208	58	1377	40	2.9	0.001000	<b>3.3117</b>	ug/L
Bi	209	101	180	63	34.8	0.000057	<b>0.6911</b>	ug/L
Th	232	30	5339	237	4.4	0.004030	<b>15.8639</b>	ug/L
U	238	6	544	38	7.0	0.000408	<b>1.1596</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.006
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	123.136
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.506
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.695
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS5**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:16:47

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 233

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS5.185

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	47	6	12.9	-0.000001	<b>0.4220</b>	ug/L
Be	9	25	51	9	18.3	0.000032	<b>4.0232</b>	ug/L
B	11	322	542	16	2.9	0.000237	<b>15.9576</b>	ug/L
Na	23	3977	28282	1004	3.5	0.036692	<b>225.1928</b>	ug/L
Mg	24	111	5488	274	5.0	0.008374	<b>63.2763</b>	ug/L
Al	27	1010	2813	77	2.7	0.002482	<b>16.8105</b>	ug/L
K	39	430753	466509	3291	0.7	-0.088762	<b>-191.9470</b>	ug/L
Ca	44	32562	31633	205	0.6	-0.012390	<b>-992.1287</b>	ug/L
Sc	45	525930	638968	13505	2.1	638968.076166		ug/L
Ti	47	944	986	41	4.1	-0.000251	<b>-7.3311</b>	ug/L
Ti	48	-2694	-1534	24	1.5	0.002721	<b>9.1432</b>	ug/L
V	51	197	41549	1290	3.1	0.064645	<b>192.7515</b>	ug/L
Cr	52	7265	11165	176	1.6	0.003661	<b>12.1071</b>	ug/L
Cr	53	117	11941	378	3.2	0.018465	<b>566.1942</b>	ug/L
Mn	55	280	566	17	2.9	0.000354	<b>0.8748</b>	ug/L
Fe	54	39304	54235	722	1.3	0.010156	<b>524.2897</b>	ug/L
Fe	57	5552	7486	82	1.1	0.001161	<b>143.5445</b>	ug/L
Co	59	38	292	25	8.6	0.000384	<b>0.9664</b>	ug/L
Ni	60	32	152	17	10.9	0.000177	<b>2.2784</b>	ug/L
Ni	62	114	178	8	4.3	0.000062	<b>8.1358</b>	ug/L
Cu	65	49	113	15	13.2	0.000213	<b>1.1127</b>	ug/L
Cu	63	51	194	9	4.9	0.000523	<b>1.2024</b>	ug/L
Zn	66	439	411	11	2.6	-0.000528	<b>-0.5016</b>	ug/L
Zn	68	213	264	9	3.2	0.000004	<b>3.5119</b>	ug/L
Ge	74	202077	249895	4622	1.8	249894.793535		ug/L
As	75	-111	-469	116	24.8	-0.001324	<b>-5.5334</b>	ug/L
As-1	75	9698	10214	133	1.3	-0.007105	<b>-32.1925</b>	ug/L
Se	77	129	1446	52	3.6	0.000283	<b>429.1949</b>	ug/L
Se	82	20	19	9	47.9	-0.000001	<b>1.3078</b>	ug/L
Sr	88	76	122	7	5.3	0.000008	<b>-0.1118</b>	ug/L
Mo	98	130	424	29	6.9	0.000061	<b>2.8684</b>	ug/L
Ag	107	40	97	9	9.5	0.000012	<b>0.3829</b>	ug/L
Ag	109	40	98	2	2.1	0.000012	<b>0.4296</b>	ug/L
Cd	111	11	38	4	9.5	0.000006	<b>0.2217</b>	ug/L
Cd	114	77	99	7	6.7	0.000003	<b>0.2578</b>	ug/L
In	115	4192305	4608617	28947	0.6	4608617.397837		ug/L

Sn	120	978	527	423	80.2	-0.000119	<b>-1.1443</b>	ug/L
Sb	121	126	186	24	12.9	0.000010	<b>1.1202</b>	ug/L
Cs	133	15	34	17	49.6	0.000004	<b>0.0640</b>	ug/L
Ba	138	60	856	81	9.5	0.000171	<b>2.2232</b>	ug/L
Ce	140	18	37	14	37.2	0.000004	<b>0.0276</b>	ug/L
> Tm	169	1270088	1301869	11724	0.9	1301868.900824		ug/L
Tl	205	10	61	10	16.4	0.000039	<b>0.1664</b>	ug/L
Pb	208	58	251	9	3.4	0.000147	<b>0.4273</b>	ug/L
Bi	209	101	135	52	38.4	0.000024	<b>0.5613</b>	ug/L
Th	232	30	867	83	9.5	0.000642	<b>3.0065</b>	ug/L
U	238	6	73	10	13.7	0.000052	<b>0.1170</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	121.493
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	123.663
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.930
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.502
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS6**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:20:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 234

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS6.186

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	53	5	9.6	0.000010	<b>0.6494</b>	ug/L
Be	9	25	60	13	21.6	0.000049	<b>5.5833</b>	ug/L
B	11	322	668	35	5.2	0.000451	<b>28.0520</b>	ug/L
Na	23	3977	49950	1728	3.5	0.071921	<b>361.2324</b>	ug/L
Mg	24	111	10524	146	1.4	0.016535	<b>108.9676</b>	ug/L
Al	27	1010	4550	56	1.2	0.005321	<b>28.3485</b>	ug/L
K	39	430753	490963	4921	1.0	-0.037771	<b>-51.3452</b>	ug/L
Ca	44	32562	33628	315	0.9	-0.008402	<b>-615.5684</b>	ug/L
Sc	45	525930	628427	3662	0.6	628426.727408		ug/L
Ti	47	944	1975	55	2.8	0.001347	<b>54.6524</b>	ug/L
Ti	48	-2694	8682	341	3.9	0.018937	<b>66.5852</b>	ug/L
V	51	197	48882	1730	3.5	0.077407	<b>230.7412</b>	ug/L
Cr	52	7265	11806	314	2.7	0.004974	<b>16.6803</b>	ug/L
Cr	53	117	12415	265	2.1	0.019534	<b>598.9914</b>	ug/L
Mn	55	280	693	20	2.9	0.000571	<b>1.3871</b>	ug/L
Fe	54	39304	53731	178	0.3	0.010770	<b>552.1122</b>	ug/L
Fe	57	5552	7599	187	2.5	0.001535	<b>186.6130</b>	ug/L
Co	59	38	519	30	5.8	0.000754	<b>2.0335</b>	ug/L
Ni	60	32	260	1	0.3	0.000354	<b>4.5675</b>	ug/L
Ni	62	114	181	2	0.8	0.000072	<b>8.9987</b>	ug/L
Cu	65	49	169	13	7.5	0.000439	<b>2.0612</b>	ug/L
Cu	63	51	318	27	8.5	0.001028	<b>2.2808</b>	ug/L
Zn	66	439	543	46	8.5	0.000010	<b>3.5237</b>	ug/L
Zn	68	213	336	24	7.0	0.000296	<b>6.3805</b>	ug/L
Ge	74	202077	248965	8109	3.3	248964.685146		ug/L
As	75	-111	-358	231	64.7	-0.000905	<b>-3.2627</b>	ug/L
As-1	75	9698	10302	339	3.3	-0.006609	<b>-29.2763</b>	ug/L
Se	77	129	1510	33	2.2	0.000300	<b>454.1776</b>	ug/L
Se	82	20	31	14	44.5	0.000002	<b>4.2509</b>	ug/L
Sr	88	76	163	15	9.2	0.000018	<b>-0.0301</b>	ug/L
Mo	98	130	603	22	3.7	0.000101	<b>4.5854</b>	ug/L
Ag	107	40	122	11	9.2	0.000017	<b>0.5001</b>	ug/L
Ag	109	40	109	13	12.0	0.000014	<b>0.4839</b>	ug/L
Cd	111	11	47	5	11.0	0.000008	<b>0.4005</b>	ug/L
Cd	114	77	126	13	10.6	0.000009	<b>0.4974</b>	ug/L
In	115	4192305	4573869	21283	0.5	4573869.242999		ug/L

Sn	120	978	529	301	56.9	-0.000118	<b>-1.1099</b>	ug/L
Sb	121	126	206	10	4.9	0.000015	<b>1.3348</b>	ug/L
Cs	133	15	28	2	7.1	0.000002	<b>0.0531</b>	ug/L
Ba	138	60	1613	19	1.2	0.000339	<b>3.9547</b>	ug/L
Ce	140	18	33	8	23.7	0.000003	<b>0.0200</b>	ug/L
> Tm	169	1270088	1303201	6817	0.5	1303200.622081		ug/L
Tl	205	10	91	12	13.5	0.000062	<b>0.2712</b>	ug/L
Pb	208	58	368	14	3.9	0.000236	<b>0.7285</b>	ug/L
Bi	209	101	133	40	30.0	0.000022	<b>0.5532</b>	ug/L
Th	232	30	1087	11	1.0	0.000811	<b>3.6470</b>	ug/L
U	238	6	125	8	6.0	0.000091	<b>0.2327</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	119.489
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	123.203
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	109.102
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	102.607
Tl	205	

Pb	208
Bi	209
Th	232
U	238



# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS7**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:24:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 235

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS7.187

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	52	18	33.8	0.000007	<b>0.5826</b>	ug/L
Be	9	25	65	12	18.5	0.000055	<b>6.0869</b>	ug/L
B	11	322	832	13	1.6	0.000683	<b>41.1232</b>	ug/L
Na	23	3977	75320	703	0.9	0.109737	<b>507.2637</b>	ug/L
Mg	24	111	16469	1005	6.1	0.025456	<b>158.9158</b>	ug/L
Al	27	1010	7572	292	3.9	0.009878	<b>46.8743</b>	ug/L
K	39	430753	521236	1532	0.3	-0.007429	<b>32.3205</b>	ug/L
Ca	44	32562	35791	35	0.1	-0.006182	<b>-406.0215</b>	ug/L
Sc	45	525930	642412	14084	2.2	642412.427281		ug/L
Ti	47	944	1194	49	4.1	0.000063	<b>4.8406</b>	ug/L
Ti	48	-2694	275	98	35.8	0.005550	<b>19.1644</b>	ug/L
V	51	197	62068	1070	1.7	0.096249	<b>286.8308</b>	ug/L
Cr	52	7265	13079	245	1.9	0.006551	<b>22.1780</b>	ug/L
Cr	53	117	14703	292	2.0	0.022666	<b>695.0813</b>	ug/L
Mn	55	280	891	23	2.6	0.000855	<b>2.0559</b>	ug/L
Fe	54	39304	55740	1009	1.8	0.012038	<b>609.6547</b>	ug/L
Fe	57	5552	8086	238	2.9	0.002030	<b>243.6438</b>	ug/L
Co	59	38	743	33	4.5	0.001084	<b>2.9857</b>	ug/L
Ni	60	32	362	15	4.1	0.000503	<b>6.5013</b>	ug/L
Ni	62	114	206	18	8.7	0.000105	<b>11.6865</b>	ug/L
Cu	65	49	261	25	9.5	0.000794	<b>3.5505</b>	ug/L
Cu	63	51	439	8	1.8	0.001490	<b>3.2662</b>	ug/L
Zn	66	439	679	17	2.5	0.000522	<b>7.3504</b>	ug/L
Zn	68	213	461	11	2.3	0.000777	<b>11.1132</b>	ug/L
Ge	74	202077	252025	1692	0.7	252025.430621		ug/L
As	75	-111	-209	33	15.5	-0.000281	<b>0.1147</b>	ug/L
As-1	75	9698	10568	150	1.4	-0.006059	<b>-26.0389</b>	ug/L
Se	77	129	1740	17	0.9	0.000345	<b>523.1944</b>	ug/L
Se	82	20	47	19	40.2	0.000005	<b>8.1954</b>	ug/L
Sr	88	76	216	15	6.9	0.000029	<b>0.0675</b>	ug/L
Mo	98	130	785	24	3.1	0.000138	<b>6.2077</b>	ug/L
Ag	107	40	164	3	2.0	0.000026	<b>0.6826</b>	ug/L
Ag	109	40	172	14	8.2	0.000028	<b>0.7719</b>	ug/L
Cd	111	11	54	3	4.6	0.000009	<b>0.5391</b>	ug/L
Cd	114	77	123	7	5.9	0.000008	<b>0.4543</b>	ug/L
In	115	4192305	4632427	32491	0.7	4632426.851620		ug/L

Sn	120	978	628	259	41.3	-0.000098	<b>-0.6398</b>	ug/L
Sb	121	126	261	19	7.2	0.000026	<b>1.8723</b>	ug/L
Cs	133	15	72	73	100.2	0.000012	<b>0.1310</b>	ug/L
Ba	138	60	2469	312	12.6	0.000519	<b>5.8210</b>	ug/L
Ce	140	18	43	10	23.5	0.000005	<b>0.0388</b>	ug/L
> Tm	169	1270088	1310191	7995	0.6	1310191.134556		ug/L
Tl	205	10	127	9	6.8	0.000090	<b>0.3959</b>	ug/L
Pb	208	58	507	10	1.9	0.000341	<b>1.0840</b>	ug/L
Bi	209	101	162	60	36.8	0.000044	<b>0.6411</b>	ug/L
Th	232	30	1499	116	7.7	0.001121	<b>4.8217</b>	ug/L
U	238	6	183	8	4.4	0.000135	<b>0.3616</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	122.148
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	124.718
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	110.498
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.157
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: B121390-BS8**

**Sample Description: 50x**

**Batch ID: B121390**

Sample Date/Time: Friday, August 17, 2012 23:28:05

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 236

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\B121390-BS8.188

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	46	9	19.3	-0.000004	<b>0.3492</b>	ug/L
Be	9	25	86	14	15.8	0.000085	<b>8.9674</b>	ug/L
B	11	322	1179	48	4.1	0.001199	<b>70.1840</b>	ug/L
Na	23	3977	120992	1385	1.1	0.178299	<b>772.0226</b>	ug/L
Mg	24	111	26705	202	0.8	0.040809	<b>244.8754</b>	ug/L
Al	27	1010	8715	69	0.8	0.011467	<b>53.3328</b>	ug/L
K	39	430753	570138	2934	0.5	0.056786	<b>209.3894</b>	ug/L
Ca	44	32562	39790	214	0.5	-0.000793	<b>102.8868</b>	ug/L
Sc	45	525930	651194	15574	2.4	651193.833679		ug/L
Ti	47	944	1317	66	5.0	0.000229	<b>11.2809</b>	ug/L
Ti	48	-2694	1614	85	5.3	0.007600	<b>26.4291</b>	ug/L
V	51	197	66134	967	1.5	0.101200	<b>301.5670</b>	ug/L
Cr	52	7265	13956	173	1.2	0.007622	<b>25.9103</b>	ug/L
Cr	53	117	11554	160	1.4	0.017524	<b>537.3263</b>	ug/L
Mn	55	280	1089	10	0.9	0.001142	<b>2.7312</b>	ug/L
Fe	54	39304	56575	863	1.5	0.012158	<b>615.0981</b>	ug/L
Fe	57	5552	8513	283	3.3	0.002514	<b>299.4269</b>	ug/L
Co	59	38	1250	33	2.6	0.001849	<b>5.1953</b>	ug/L
Ni	60	32	592	32	5.3	0.000849	<b>10.9869</b>	ug/L
Ni	62	114	240	9	3.6	0.000153	<b>15.6666</b>	ug/L
Cu	65	49	383	18	4.7	0.001280	<b>5.5907</b>	ug/L
Cu	63	51	690	25	3.6	0.002484	<b>5.3905</b>	ug/L
Zn	66	439	938	26	2.7	0.001548	<b>15.0312</b>	ug/L
Zn	68	213	621	13	2.0	0.001411	<b>17.3592</b>	ug/L
Ge	74	202077	252335	7253	2.9	252334.581562		ug/L
As	75	-111	207	77	37.1	0.001373	<b>9.0838</b>	ug/L
As-1	75	9698	10928	161	1.5	-0.004672	<b>-17.8737</b>	ug/L
Se	77	129	1329	14	1.0	0.000258	<b>391.3372</b>	ug/L
Se	82	20	73	18	25.2	0.000011	<b>14.7858</b>	ug/L
Sr	88	76	284	10	3.7	0.000044	<b>0.2024</b>	ug/L
Mo	98	130	1313	37	2.8	0.000254	<b>11.2041</b>	ug/L
Ag	107	40	248	28	11.4	0.000045	<b>1.0760</b>	ug/L
Ag	109	40	224	18	8.1	0.000039	<b>1.0252</b>	ug/L
Cd	111	11	66	8	12.8	0.000012	<b>0.7699</b>	ug/L
Cd	114	77	164	20	12.5	0.000017	<b>0.8172</b>	ug/L
In	115	4192305	4598945	70093	1.5	4598944.807238		ug/L

Sn	120	978	685	343	50.1	-0.000085	<b>-0.3402</b>	ug/L
Sb	121	126	323	27	8.2	0.000040	<b>2.5285</b>	ug/L
Cs	133	15	31	3	9.7	0.000003	<b>0.0583</b>	ug/L
Ba	138	60	3912	41	1.0	0.000837	<b>9.1157</b>	ug/L
Ce	140	18	35	2	4.3	0.000003	<b>0.0244</b>	ug/L
Tm	169	1270088	1313664	5901	0.4	1313664.366389		ug/L
Tl	205	10	174	17	9.6	0.000125	<b>0.5579</b>	ug/L
Pb	208	58	792	26	3.2	0.000557	<b>1.8135</b>	ug/L
Bi	209	101	93	42	44.8	-0.000009	<b>0.4312</b>	ug/L
Th	232	30	2500	88	3.5	0.001880	<b>7.7043</b>	ug/L
U	238	6	293	13	4.5	0.000219	<b>0.6054</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	123.818
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	124.871
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	109.700
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	103.431
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: SEQ-CCVE**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 23:31:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCVE.189

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	13901	74	0.5	0.023391	<b>9.7406</b>	ug/L
Be	9	25	1268	50	3.9	0.002093	<b>3.9323</b>	ug/L
B	11	322	261927	910	0.3	0.441556	<b>497.9553</b>	ug/L
Na	23	3977	39661566	138254	0.3	66.947622	<b>5172.1527</b>	ug/L
Mg	24	111	54989550	769136	1.4	92.827990	<b>10394.9109</b>	ug/L
Al	27	1010	19002622	62865	0.3	32.078321	<b>2608.1796</b>	ug/L
K	39	430753	57936245	620726	1.1	96.994062	<b>5350.1068</b>	ug/L
Ca	44	32562	3373983	13458	0.4	5.633838	<b>10642.8628</b>	ug/L
Sc	45	525930	592439	8148	1.4	592438.825979		ug/L
Ti	47	944	40138	446	1.1	0.065962	<b>51.2264</b>	ug/L
Ti	48	-2694	404206	5368	1.3	0.687416	<b>48.6904</b>	ug/L
V	51	197	207691	859	0.4	0.350242	<b>20.8584</b>	ug/L
Cr	52	7265	1051802	3609	0.3	1.761732	<b>122.7776</b>	ug/L
Cr	53	117	125808	2685	2.1	0.212165	<b>130.1885</b>	ug/L
Mn	55	280	1512587	9784	0.6	2.553011	<b>120.3101</b>	ug/L
Fe	54	39304	1626958	4154	0.3	2.671801	<b>2424.5620</b>	ug/L
Fe	57	5552	667808	3034	0.5	1.116758	<b>2574.2686</b>	ug/L
Co	59	38	264796	1661	0.6	0.446958	<b>25.7940</b>	ug/L
Ni	60	32	117867	1792	1.5	0.198898	<b>51.5525</b>	ug/L
Ni	62	114	18390	290	1.6	0.030829	<b>50.9212</b>	ug/L
Cu	65	49	137489	1544	1.1	0.585548	<b>49.1122</b>	ug/L
Cu	63	51	272808	3596	1.3	1.162051	<b>49.6284</b>	ug/L
Zn	66	439	390812	8148	2.1	1.662811	<b>248.8889</b>	ug/L
Zn	68	213	298327	5593	1.9	1.269927	<b>250.0182</b>	ug/L
Ge	74	202077	234710	1922	0.8	234709.725415		ug/L
As	75	-111	107152	2494	2.3	0.457040	<b>49.5740</b>	ug/L
As-1	75	9698	114131	1814	1.6	0.438255	<b>51.7784</b>	ug/L
Se	77	129	7296	120	1.6	0.001449	<b>44.0493</b>	ug/L
Se	82	20	9664	298	3.1	0.001954	<b>44.4337</b>	ug/L
Sr	88	76	1426558	18740	1.3	0.289201	<b>51.6220</b>	ug/L
Mo	98	130	155004	2236	1.4	0.031394	<b>27.0651</b>	ug/L
Ag	107	40	120629	974	0.8	0.024444	<b>10.3173</b>	ug/L
Ag	109	40	116437	1203	1.0	0.023593	<b>10.2839</b>	ug/L
Cd	111	11	13770	133	1.0	0.002789	<b>5.0729</b>	ug/L
Cd	114	77	31742	330	1.0	0.006416	<b>5.0241</b>	ug/L
In	115	4192305	4933182	51820	1.1	4933181.524809		ug/L

Sn	120	978	104833	677	0.6	0.021018	<b>9.7196</b>	ug/L
Sb	121	126	19846	865	4.4	0.003994	<b>3.7810</b>	ug/L
Cs	133	15	281427	3906	1.4	0.057043	<b>9.3970</b>	ug/L
Ba	138	60	3071486	46364	1.5	0.622588	<b>128.9996</b>	ug/L
Ce	140	18	124504	1439	1.2	0.025234	<b>4.7387</b>	ug/L
Tm	169	1270088	1372243	16229	1.2	1372243.190307		ug/L
Tl	205	10	38344	233	0.6	0.027937	<b>2.5464</b>	ug/L
Pb	208	58	205383	1555	0.8	0.149632	<b>10.1218</b>	ug/L
Bi	209	101	1986218	9889	0.5	1.447425	<b>114.8573</b>	ug/L
Th	232	30	40523	657	1.6	0.029508	<b>2.2511</b>	ug/L
U	238	6	48208	384	0.8	0.035127	<b>2.0543</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
Sc	45	112.646
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
Ge	74	116.149
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
In	115	117.672
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
Tm	169	108.043
Tl	205	



Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

## Sample ID: SEQ-CCBE

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, August 17, 2012 23:35:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam

Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-CCBE.190

Calibration File: C:\Elandata\System\2012\8-12\1200644.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	50	10	19.5	0.000013	<b>0.0142</b>	ug/L
Be	9	25	41	7	16.9	0.000025	<b>0.0662</b>	ug/L
B	11	322	1454	555	38.2	0.001926	<b>2.2242</b>	ug/L
Na	23	3977	22477	24071	107.1	0.031722	<b>4.1201</b>	ug/L
Mg	24	111	20888	29600	141.7	0.036301	<b>4.3927</b>	ug/L
Al	27	1010	7456	9096	122.0	0.011111	<b>1.0378</b>	ug/L
K	39	430753	450914	25562	5.7	-0.031315	<b>-0.6709</b>	ug/L
Ca	44	32562	29865	924	3.1	-0.009735	<b>-14.8303</b>	ug/L
Sc	45	525930	572514	7909	1.4	572514.255451		ug/L
Ti	47	944	855	31	3.6	-0.000302	<b>-0.1861</b>	ug/L
Ti	48	-2694	-2178	143	6.5	0.001317	<b>0.0834</b>	ug/L
V	51	197	4645	401	8.6	0.007739	<b>0.4670</b>	ug/L
Cr	52	7265	8400	140	1.7	0.000860	<b>0.0469</b>	ug/L
Cr	53	117	1525	140	9.2	0.002442	<b>1.4912</b>	ug/L
Mn	55	280	543	262	48.3	0.000417	<b>0.0205</b>	ug/L
Fe	54	39304	42944	399	0.9	0.000289	<b>1.5362</b>	ug/L
Fe	57	5552	6339	50	0.8	0.000518	<b>1.3880</b>	ug/L
Co	59	38	93	52	55.9	0.000090	<b>0.0024</b>	ug/L
Ni	60	32	60	29	48.1	0.000045	<b>0.0113</b>	ug/L
Ni	62	114	157	3	1.6	0.000059	<b>0.1573</b>	ug/L
Cu	65	49	75	11	14.8	0.000087	<b>0.0118</b>	ug/L
Cu	63	51	117	29	24.9	0.000258	<b>0.0127</b>	ug/L
Zn	66	439	450	16	3.6	-0.000199	<b>0.0391</b>	ug/L
Zn	68	213	269	47	17.6	0.000126	<b>0.0941</b>	ug/L
Ge	74	202077	228227	2456	1.1	228226.843845		ug/L
As	75	-111	38	55	143.8	0.000719	<b>0.1107</b>	ug/L
As-1	75	9698	10117	248	2.5	-0.003652	<b>-0.2374</b>	ug/L
Se	77	129	251	6	2.4	0.000021	<b>0.6191</b>	ug/L
Se	82	20	71	18	24.5	0.000010	<b>0.2693</b>	ug/L
Sr	88	76	442	447	101.2	0.000074	<b>0.0094</b>	ug/L
Mo	98	130	2225	430	19.3	0.000431	<b>0.3765</b>	ug/L
Ag	107	40	162	27	16.7	0.000024	<b>0.0129</b>	ug/L
Ag	109	40	151	29	19.5	0.000022	<b>0.0130</b>	ug/L
Cd	111	11	39	1	1.5	0.000005	<b>0.0041</b>	ug/L
Cd	114	77	83	6	7.8	-0.000001	<b>0.0018</b>	ug/L
In	115	4192305	4811561	7728	0.2	4811560.927500		ug/L

Sn	120	978	1176	650	55.3	0.000011	<b>0.0372</b>	ug/L
Sb	121	126	1924	114	5.9	0.000370	<b>0.3614</b>	ug/L
Cs	133	15	130	78	60.4	0.000023	<b>0.0045</b>	ug/L
Ba	138	60	757	660	87.1	0.000143	<b>0.0386</b>	ug/L
Ce	140	18	61	25	41.6	0.000008	<b>0.0014</b>	ug/L
> Tm	169	1270088	1318482	4128	0.3	1318481.905678		ug/L
Tl	205	10	57	12	21.9	0.000036	<b>0.0030</b>	ug/L
Pb	208	58	158	19	11.7	0.000074	<b>0.0036</b>	ug/L
Bi	209	101	6534	1249	19.1	0.004876	<b>0.3962</b>	ug/L
Th	232	30	654	150	22.9	0.000473	<b>0.0473</b>	ug/L
U	238	6	35	3	8.6	0.000022	<b>0.0006</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	108.857
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	112.941
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	114.771
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	103.810
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** rinse  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 23:39:29  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.191  
 Calibration File: C:\Elandata\System\2012\8-12\1200644.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	49	5	10.3	0.000002	<b>0.0095</b>	ug/L
Be	9	25	44	14	31.6	0.000022	<b>0.0615</b>	ug/L
B	11	322	1119	175	15.7	0.001147	<b>1.3460</b>	ug/L
Na	23	3977	20160	15672	77.7	0.024110	<b>3.5321</b>	ug/L
Mg	24	111	14324	18953	132.3	0.022277	<b>2.8223</b>	ug/L
Al	27	1010	5856	5838	99.7	0.007278	<b>0.7261</b>	ug/L
K	39	430753	443801	13420	3.0	-0.121231	<b>-5.6295</b>	ug/L
Ca	44	32562	30299	279	0.9	-0.014272	<b>-23.3979</b>	ug/L
Sc	45	525930	636002	3863	0.6	636001.641286		ug/L
Ti	47	944	858	38	4.4	-0.000447	<b>-0.2985</b>	ug/L
Ti	48	-2694	-2258	91	4.0	0.001572	<b>0.1015</b>	ug/L
V	51	197	3558	201	5.6	0.005220	<b>0.3171</b>	ug/L
Cr	52	7265	9389	340	3.6	0.000947	<b>0.0530</b>	ug/L
Cr	53	117	1196	81	6.7	0.001659	<b>1.0110</b>	ug/L
Mn	55	280	710	190	26.7	0.000585	<b>0.0284</b>	ug/L
Fe	54	39304	88994	972	1.1	0.065192	<b>60.4026</b>	ug/L
Fe	57	5552	7272	75	1.0	0.000876	<b>2.2146</b>	ug/L
Co	59	38	80	34	42.1	0.000053	<b>0.0002</b>	ug/L
Ni	60	32	60	13	22.4	0.000034	<b>0.0084</b>	ug/L
Ni	62	114	166	8	4.8	0.000045	<b>0.1344</b>	ug/L
Cu	65	49	79	8	10.4	0.000079	<b>0.0111</b>	ug/L
Cu	63	51	99	19	19.3	0.000150	<b>0.0081</b>	ug/L
Zn	66	439	303	23	7.5	-0.000937	<b>-0.0713</b>	ug/L
Zn	68	213	184	41	22.1	-0.000303	<b>0.0097</b>	ug/L
Ge	74	202077	245708	2616	1.1	245708.119457		ug/L
As	75	-111	-202	24	11.9	-0.000273	<b>0.0032</b>	ug/L
As-1	75	9698	10674	157	1.5	-0.004551	<b>-0.3432</b>	ug/L
Se	77	129	213	7	3.0	0.000012	<b>0.3459</b>	ug/L
Se	82	20	8	7	81.0	-0.000003	<b>-0.0305</b>	ug/L
Sr	88	76	175	55	31.5	0.000017	<b>-0.0006</b>	ug/L
Mo	98	130	675	220	32.6	0.000105	<b>0.0955</b>	ug/L
Ag	107	40	78	11	14.1	0.000006	<b>0.0054</b>	ug/L
Ag	109	40	60	9	14.5	0.000003	<b>0.0046</b>	ug/L
Cd	111	11	33	2	4.6	0.000004	<b>0.0017</b>	ug/L
Cd	114	77	69	10	14.6	-0.000005	<b>-0.0008</b>	ug/L
In	115	4192305	4946985	40684	0.8	4946985.417386		ug/L

Sn	120	978	1054	592	56.2	-0.000021	<b>0.0226</b>	ug/L
Sb	121	126	1067	176	16.5	0.000185	<b>0.1877</b>	ug/L
Cs	133	15	36	8	23.1	0.000004	<b>0.0013</b>	ug/L
Ba	138	60	152	6	3.7	0.000016	<b>0.0124</b>	ug/L
Ce	140	18	43	8	18.5	0.000004	<b>0.0007</b>	ug/L
> Tm	169	1270088	1360945	4153	0.3	1360944.782479		ug/L
Tl	205	10	45	7	15.4	0.000025	<b>0.0021</b>	ug/L
Pb	208	58	127	18	14.3	0.000047	<b>0.0018</b>	ug/L
Bi	209	101	2280	388	17.0	0.001595	<b>0.1359</b>	ug/L
Th	232	30	817	156	19.1	0.000577	<b>0.0552</b>	ug/L
U	238	6	50	31	61.8	0.000032	<b>0.0012</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	120.929
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	121.591
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	118.002
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	107.154
Tl	205	

Pb	208
Bi	209
Th	232
U	238

# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 17, 2012 23:43:16  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\8-12\1200644.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200644-0060-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200644\rinse.192  
 Calibration File: C:\Elandata\System\2012\8-12\1200644.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200644\SEQ-ICB1.060

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Meas Int SD	Meas Int RSD	Net Int Mean	Conc Mean	Sample Unit
Li	7	39	47	3	5.6	0.000001	<b>0.0091</b>	ug/L
Be	9	25	44	12	27.3	0.000024	<b>0.0653</b>	ug/L
B	11	322	798	35	4.4	0.000670	<b>0.8075</b>	ug/L
Na	23	3977	8381	44	0.5	0.005907	<b>2.1263</b>	ug/L
Mg	24	111	506	100	19.8	0.000602	<b>0.3952</b>	ug/L
Al	27	1010	1519	51	3.3	0.000521	<b>0.1767</b>	ug/L
K	39	430753	428913	1528	0.4	-0.129783	<b>-6.1012</b>	ug/L
Ca	44	32562	30138	335	1.1	-0.013481	<b>-21.9040</b>	ug/L
Sc	45	525930	622300	3766	0.6	622299.733575		ug/L
Ti	47	944	801	7	0.8	-0.000508	<b>-0.3459</b>	ug/L
Ti	48	-2694	-2344	32	1.3	0.001354	<b>0.0861</b>	ug/L
V	51	197	2880	189	6.6	0.004255	<b>0.2596</b>	ug/L
Cr	52	7265	9063	158	1.7	0.000749	<b>0.0392</b>	ug/L
Cr	53	117	1000	42	4.2	0.001386	<b>0.8434</b>	ug/L
Mn	55	280	567	16	2.9	0.000380	<b>0.0187</b>	ug/L
Fe	54	39304	88887	907	1.0	0.068101	<b>63.0414</b>	ug/L
Fe	57	5552	7276	226	3.1	0.001135	<b>2.8119</b>	ug/L
Co	59	38	64	5	7.3	0.000031	<b>-0.0010</b>	ug/L
Ni	60	32	55	3	5.8	0.000028	<b>0.0069</b>	ug/L
Ni	62	114	155	2	1.3	0.000033	<b>0.1148</b>	ug/L
Cu	65	49	71	9	12.6	0.000052	<b>0.0088</b>	ug/L
Cu	63	51	77	10	12.8	0.000065	<b>0.0045</b>	ug/L
Zn	66	439	300	26	8.5	-0.000942	<b>-0.0720</b>	ug/L
Zn	68	213	180	10	5.6	-0.000314	<b>0.0076</b>	ug/L
Ge	74	202077	243750	1468	0.6	243749.610042		ug/L
As	75	-111	-178	23	13.1	-0.000182	<b>0.0130</b>	ug/L
As-1	75	9698	10641	123	1.2	-0.004338	<b>-0.3182</b>	ug/L
Se	77	129	197	6	3.0	0.000009	<b>0.2550</b>	ug/L
Se	82	20	21	7	34.8	-0.000001	<b>0.0284</b>	ug/L
Sr	88	76	133	9	6.4	0.000009	<b>-0.0022</b>	ug/L
Mo	98	130	377	139	36.8	0.000046	<b>0.0441</b>	ug/L
Ag	107	40	55	11	19.2	0.000002	<b>0.0035</b>	ug/L
Ag	109	40	57	6	10.2	0.000002	<b>0.0044</b>	ug/L
Cd	111	11	30	8	26.2	0.000003	<b>0.0004</b>	ug/L
Cd	114	77	72	9	13.0	-0.000004	<b>-0.0001</b>	ug/L
In	115	4192305	4917495	9994	0.2	4917494.909541		ug/L



Sn	120	978	879	611	69.4	-0.000054	<b>0.0071</b>	ug/L
Sb	121	126	560	79	14.1	0.000084	<b>0.0918</b>	ug/L
Cs	133	15	30	10	33.2	0.000003	<b>0.0011</b>	ug/L
Ba	138	60	129	21	16.5	0.000012	<b>0.0114</b>	ug/L
Ce	140	18	37	11	30.1	0.000003	<b>0.0005</b>	ug/L
> Tm	169	1270088	1356181	3036	0.2	1356181.185286		ug/L
Tl	205	10	43	8	17.6	0.000024	<b>0.0019</b>	ug/L
Pb	208	58	119	9	7.5	0.000042	<b>0.0014</b>	ug/L
Bi	209	101	792	251	31.6	0.000504	<b>0.0493</b>	ug/L
Th	232	30	259	68	26.5	0.000167	<b>0.0241</b>	ug/L
U	238	6	22	2	6.8	0.000012	<b>0.0000</b>	ug/L

**Int Std % Recovery**

Analyte	Mass	Int Std % Recovery
Li	7	
Be	9	
B	11	
Na	23	
Mg	24	
Al	27	
K	39	
Ca	44	
> Sc	45	118.324
Ti	47	
Ti	48	
V	51	
Cr	52	
Cr	53	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Ni	62	
Cu	65	
Cu	63	
Zn	66	
Zn	68	
> Ge	74	120.622
As	75	
As-1	75	
Se	77	
Se	82	
Sr	88	
Mo	98	
Ag	107	
Ag	109	
Cd	111	
Cd	114	
> In	115	117.298
Sn	120	
Sb	121	
Cs	133	
Ba	138	
Ce	140	
> Tm	169	106.778
Tl	205	

Pb	208
Bi	209
Th	232
U	238

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200624

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200624-ICB1	1200624	QC	1		-			
1200624-CAL1	1200624	QC	2	1227100	-			
1200624-CAL2	1200624	QC	3	1227099	-			
1200624-CAL3	1200624	QC	4	1227098	-			
1200624-CAL4	1200624	QC	5	1227097	-			
1200624-CAL5	1200624	QC	6	1227096	-			
1200624-CAL6	1200624	QC	7	1227095	-			
1200624-CAL7	1200624	QC	8	1227094	-			
1200624-ICB2	1200624	QC	9		-			
1200624-ICV1	1200624	QC	10	1222023	-			
1200624-ICV2	1200624	QC	11	1202047	-			
1200624-IBL1	1200624	QC	12		-			
1200624-IBL2	1200624	QC	13		-			
1200624-IBL3	1200624	QC	14		-			
1200624-IBL4	1200624	QC	15		-			
B121396-SRM2	B121396	QC	16		-			
B121396-SRM1	B121396	QC	17		-			
1200624-SCV1	1200624	QC	18	1131009	-			
1200624-SCV2	1200624	QC	19	1131010	-			
B121393-SRM1	B121393	QC	20		-			
B121393-SRM2	B121393	QC	21		-			
B121404-SRM2	B121404	QC	22		-			
B121404-SRM1	B121404	QC	23		-			
1200624-CCV1	1200624	QC	24	1227097	-			
1200624-CCB1	1200624	QC	25		-			
B121396-BLK1	B121396	QC	26		-			

## ANALYSIS SEQUENCE

BRL Report 1231002

1200624

## Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121396-BLK2	B121396	QC	27		-			
B121396-BLK3	B121396	QC	28		-			
B121396-BLK4	B121396	QC	29		-			
B121396-BS1	B121396	QC	30		-			
1230005-01RE3	B121396	Zn-W-ChelCol-ICPMS-TR	31			RTC-PE1001	8/14/2012	From B121276 by CMC on 08/06/12
1230005-01RE3	B121396	Pb-W-ChelCol-ICPMS-TR	32			RTC-PE1001	8/14/2012	From B121276 by CMC on 08/06/12
1230005-01RE3	B121396	Fe-W-ChelCol-ICPMS-TR	33			RTC-PE1001	8/14/2012	From B121276 by CMC on 08/06/12
1230005-01RE3	B121396	Cd-W-ChelCol-ICPMS-TR	34			RTC-PE1001	8/14/2012	From B121276 by CMC on 08/06/12
B121396-DUP2	B121396	QC	35		1230005-01RE3			
1230005-01RE4	B121396	Zn-W-ChelCol-ICPMS-TR	36			RTC-PE1001	8/14/2012	Added 8/14/2012 by TMU
1230005-01RE4	B121396	Pb-W-ChelCol-ICPMS-TR	37			RTC-PE1001	8/14/2012	Added 8/14/2012 by TMU
1230005-01RE4	B121396	Fe-W-ChelCol-ICPMS-TR	38			RTC-PE1001	8/14/2012	Added 8/14/2012 by TMU
1230005-01RE4	B121396	Cd-W-ChelCol-ICPMS-TR	39			RTC-PE1001	8/14/2012	Added 8/14/2012 by TMU
B121396-DUP3	B121396	QC	40		1230005-01RE4			
1200624-CCV2	1200624	QC	41	1227097	-			
1200624-CCB2	1200624	QC	42		-			
1229011-02RE1	B121396	Zn-W-ChelCol-ICPMS-TR	43			MWH-MO1001	8/8/2012	Max MRL: 1.0 ug/L
1229011-02RE1	B121396	Pb-W-ChelCol-ICPMS-TR	44			MWH-MO1001	8/8/2012	Max MRL: 0.5 ug/L
1229011-02RE1	B121396	Cd-W-ChelCol-ICPMS-TR	45			MWH-MO1001	8/8/2012	Max MRL: 0.25 ug/L
1229011-03RE1	B121396	Zn-W-ChelCol-ICPMS-TR	46			MWH-MO1001	8/8/2012	Max MRL: 1.0 ug/L
1229011-03RE1	B121396	Pb-W-ChelCol-ICPMS-TR	47			MWH-MO1001	8/8/2012	Max MRL: 0.5 ug/L
1229011-03RE1	B121396	Fe-W-ChelCol-ICPMS-TR	48			MWH-MO1001	1/1/1980	BatchQC
1229011-03RE1	B121396	Cd-W-ChelCol-ICPMS-TR	49			MWH-MO1001	8/8/2012	Max MRL: 0.25 ug/L
1229011-01RE1	B121396	Zn-W-ChelCol-ICPMS-TR	50			MWH-MO1001	8/8/2012	Max MRL: 1.0 ug/L
1229011-01RE1	B121396	Pb-W-ChelCol-ICPMS-TR	51			MWH-MO1001	8/8/2012	Max MRL: 0.5 ug/L
1229011-01RE1	B121396	Cd-W-ChelCol-ICPMS-TR	52			MWH-MO1001	8/8/2012	Max MRL: 0.25 ug/L

## ANALYSIS SEQUENCE

BRL Report 1231002

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## Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121396-DUP1	B121396	QC	53		1229011-03RE1			
B121396-MS1	B121396	QC	54		1229011-03RE1			
B121396-MSD1	B121396	QC	55		1229011-03RE1			
1200624-CCV3	1200624	QC	56	1227097	-			
1200624-CCB3	1200624	QC	57		-			
B121393-BLK1	B121393	QC	58		-			
B121393-BLK2	B121393	QC	59		-			
B121393-BLK3	B121393	QC	60		-			
B121393-BLK4	B121393	QC	61		-			
B121393-BS1	B121393	QC	62		-			
1228029-01RE1	B121393	Cu-W-ChelCol-ICPMS-TR	63			EHS-BL1101	8/3/2012	From B121229 by CMC on 08/06/12
1228029-02RE1	B121393	Cu-W-ChelCol-ICPMS-Diss	64			EHS-BL1101	8/3/2012	From B121229 by CMC on 08/06/12
1200624-CCV4	1200624	QC	65	1227097	-			
1200624-CCB4	1200624	QC	66		-			
1228029-03RE1	B121393	Cu-W-ChelCol-ICPMS-TR	67			EHS-BL1101	1/1/1980	BatchQC
1228029-03RE1	B121393	Cu-W-ChelCol-ICPMS-Diss	68			EHS-BL1101	8/3/2012	From B121229 by CMC on 08/06/12
B121393-DUP1	B121393	QC	69		1228029-03RE1			
B121393-MS1	B121393	QC	70		1228029-03RE1			
B121393-MSD1	B121393	QC	71		1228029-03RE1			
1228029-04RE1	B121393	Cu-W-ChelCol-ICPMS-Diss	72			EHS-BL1101	8/3/2012	From B121229 by CMC on 08/06/12
1200624-CCV5	1200624	QC	73	1227097	-			
1200624-CCB5	1200624	QC	74		-			
B121404-BLK1	B121404	QC	75		-			
B121404-BLK2	B121404	QC	76		-			
B121404-BLK3	B121404	QC	77		-			
B121404-BLK4	B121404	QC	78		-			

## ANALYSIS SEQUENCE

BRL Report 1231002

1200624

## Brooks Rand Labs

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121404-BS1	B121404	QC	79		-			
1231002-04	B121404	Pb-W-ChelCol-ICPMS-TR	80			UDE-SL1201	9/13/2012	
1231002-04	B121404	Cu-W-ChelCol-ICPMS-TR	81			UDE-SL1201	9/13/2012	
1231002-04	B121404	Cd-W-ChelCol-ICPMS-TR	82			UDE-SL1201	9/13/2012	
1231002-05	B121404	Pb-W-ChelCol-ICPMS-TR	83			UDE-SL1201	9/13/2012	
1231002-05	B121404	Cu-W-ChelCol-ICPMS-TR	84			UDE-SL1201	9/13/2012	
1231002-05	B121404	Cd-W-ChelCol-ICPMS-TR	85			UDE-SL1201	9/13/2012	
B121404-DUP1	B121404	QC	86		1231002-06			
B121404-MS1	B121404	QC	87		1231002-06			
B121404-MSD1	B121404	QC	88		1231002-06			
1200624-CCV6	1200624	QC	89	1227097	-			
1200624-CCB6	1200624	QC	90		-			
1231002-06	B121404	Zn-W-ChelCol-ICPMS-TR	91			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121404	V-W-ChelCol-ICPMS-TR	92			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121404	Pb-W-ChelCol-ICPMS-TR	93			UDE-SL1201	9/13/2012	
1231002-06	B121404	Ni-W-ChelCol-ICPMS-TR	94			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121404	Fe-W-ChelCol-ICPMS-TR	95			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121404	Cu-W-ChelCol-ICPMS-TR	96			UDE-SL1201	9/13/2012	
1231002-06	B121404	Co-W-ChelCol-ICPMS-TR	97			UDE-SL1201	1/1/1980	BatchQC
1231002-06	B121404	Cd-W-ChelCol-ICPMS-TR	98			UDE-SL1201	9/13/2012	
B121404-DUP2	B121404	QC	99		1231002-06			
B121404-MS2	B121404	QC	100		1231002-06			
B121404-MSD2	B121404	QC	101		1231002-06			
1231002-11	B121404	Pb-W-ChelCol-ICPMS-TR	102			UDE-SL1201	9/13/2012	
1231002-11	B121404	Cu-W-ChelCol-ICPMS-TR	103			UDE-SL1201	9/13/2012	
1231002-11	B121404	Cd-W-ChelCol-ICPMS-TR	104			UDE-SL1201	9/13/2012	

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200624

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200624-CCV7	1200624	QC	105	1227096	-			
1200624-CCB7	1200624	QC	106		-			
B121404-BS2	B121404	QC	107		-			
B121404-BS3	B121404	QC	108		-			
B121404-BS4	B121404	QC	109		-			
B121404-BS5	B121404	QC	110		-			
B121404-BS6	B121404	QC	111		-			
B121404-BS7	B121404	QC	112		-			
B121404-BS8	B121404	QC	113		-			
B121404-BS9	B121404	QC	114		-			
1200624-CCV8	1200624	QC	115	1216099	-			
1200624-CCB8	1200624	QC	116		-			

## ICP-MS Analysis Benchsheet

Batch No: B121404, B121396, B121393**BR-0063**Analyst: MEL Date: 8/10/2011Instrument ID: ICPMS2 cHNO3 ID: 1229020 cHCI ID: NACalibration recorded in LIMS Int Std: N/A SEQ: 1200624

A/S #	Batch	Sample ID	Dilution	Comments
1		warm up		
1		warm up		
1		warm up		
1		SEQ-ICB1		
2		SEQ-CAL1		1227100
3		SEQ-CAL2		1227099
4		SEQ-CAL3		1227098
5		SEQ-CAL4		1227097
6		SEQ-CAL5		1227096
7		SEQ-CAL6		1227095
8		SEQ-CAL7		1227094
1		SEQ-ICB2		
434		rinse		
101		SEQ-ICV1		1222023
434		rinse		
102		SEQ-ICV2		1222024
434		rinse		
1		SEQ-ICB3		
434		rinse		
103		SEQ-IBL1		
434		rinse		
104		SEQ-IBL2		
434		rinse		
105		SEQ-IBL3		
434		rinse		
106		SEQ-IBL4		
434		rinse		
107		SEQ-SCV1		cass-5 1131009; 1151023
434		rinse		
108		SEQ-SCV2		slew-3 1131010; 1214034
434		rinse		
5		SEQ-CCV1		1227097
434		rinse		
1		SEQ-CCB1		
434		rinse		
109	B121396	B121396-BLK1		
434		rinse		
110	B121396	B121396-BLK2		
434		rinse		
111	B121396	B121396-BLK3		
434		rinse		
112	B121396	B121396-BLK4		
434		rinse		
113	B121396	B121396-BS1	5x	
434		rinse		
114	B121396	1230005-01RE3	1000x	serial dil.
434		rinse		
115	B121396	B121396-DUP2	1000x	serial dil.



434		rinse		
116	B121396	1230005-01RE4	500x	serial dil.
434		rinse		
117	B121396	B121396-DUP3	500x	serial dil.
434		rinse		
5		SEQ-CCV2		1227097
434		rinse		
1		SEQ-CCB2		
434		rinse		
118	B121396	1229011-02RE1		
434		rinse		
119	B121396	1229011-03RE1		
434		rinse		
120	B121396	1229011-01RE1	5x	
434		rinse		
121	B121396	B121396-DUP1	5x	1229011-01RE1
434		rinse		
122	B121396	B121396-MS1	5x	10ul of 1227092 up to 5ml
434		rinse		
123	B121396	B121396-MSD1	5x	10ul of 1227092 up to 5ml
434		rinse		
5		SEQ-CCV3		1227097
434		rinse		
1		SEQ-CCB3		
434		rinse		
124	B121393	B121393-BLK1		
434		rinse		
125	B121393	B121393-BLK2		
434		rinse		
126	B121393	B121393-BLK3		
434		rinse		
127	B121393	B121393-BLK4		
434		rinse		
128	B121393	B121393-BS1	5x	
434		rinse		
129	B121393	1228029-01RE1		
434		rinse		
130	B121393	1228029-02RE1		
434		rinse		
5		SEQ-CCV4		1227097
434		rinse		
1		SEQ-CCB4		
434		rinse		
131	B121393	1228029-03RE1	5x	
434		rinse		
132	B121393	B121393-DUP1	5x	1228029-03RE1
434		rinse		
133	B121393	B121393-MS1	5x	10ul of 1227092 up to 5ml
434		rinse		
134	B121393	B121393-MSD1	5x	10ul of 1227092 up to 5ml
434		rinse		
135	B121393	1228029-04RE1	5x	
434		rinse		
5		SEQ-CCV5		1227097
434		rinse		
1		SEQ-CCB5		
434		rinse		
136	B121404	B121404-BLK1		
434		rinse		
137	B121404	B121404-BLK2		

434		rinse		
138	B121404	B121404-BLK3		
434		rinse		
139	B121404	B121404-BLK4		
434		rinse		
140	B121404	B121404-BS1	5x	
434		rinse		
141	B121404	1231002-04	10x	
434		rinse		
142	B121404	1231002-05	10x	
434		rinse		
143	B121404	B121404-DUP1	10x	1231002-05
434		rinse		
144	B121404	B121404-MS1	10x	10ul of 1227092 up to 5ml
434		rinse		
145	B121404	B121404-MSD1	10x	10ul of 1227092 up to 5ml
434		rinse		
5		SEQ-CCV6		1227097
434		rinse		
1		SEQ-CCB6		
434		rinse		
146	B121404	1231002-06	10x	
434		rinse		
147	B121404	B121404-DUP2	10x	1231002-06
434		rinse		
148	B121404	B121404-MS2	10x	10ul of 1227092 up to 5ml
434		rinse		
149	B121404	B121404-MSD2	10x	10ul of 1227092 up to 5ml
434		rinse		
150	B121404	1231002-11	10x	
434		rinse		
6		SEQ-CCV7		
434		rinse		
1		SEQ-CCB7		
434		rinse		
151	B121404	B121404-BS2		LOD1
434		rinse		
152	B121404	B121404-BS3		LOD2
434		rinse		
153	B121404	B121404-BS4		LOD3
434		rinse		
154	B121404	B121404-BS5		LOD4
434		rinse		
155	B121404	B121404-BS6		IPR1
434		rinse		
156	B121404	B121404-BS7		IPR2
434		rinse		
157	B121404	B121404-BS8		IPR3
434		rinse		
158	B121404	B121404-BS9		IPR4
434		rinse		
6		SEQ-CCV8		
434		rinse		
1		SEQ-CCB8		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		

Tube came loose on instrument data not usable from here  
TMA 8/14/12



## Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT

Batch ID:

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL1.021

Tuning File: C:\Elandata\Tuning\Default.tun

Optimization File: C:\Elandata\Optimize\Default.dac

Blank File:

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Calibration Type: External Calibration

## Calibration

Analyte	MassCurve Type	Slope	Intercept	Correlation Coefficient	Std 1 Conc
V-Precon	51Weighted Linear	44.426	-480.536	0.999934	25.000000
Fe-Precon	54Weighted Linear	6.291	-42.357	0.999518	50.000000
Fe-Precon	56Weighted Linear	125.561	-835.323	0.999171	50.000000
Fe-Precon	57Weighted Linear	3.212	-11.379	0.999308	50.000000
Co-Precon	59Weighted Linear	151.310	-62.970	0.999932	10.000000
Ni-Precon	60Weighted Linear	30.634	-23.129	0.999715	10.000000
Cu-Precon	63Weighted Linear	66.253	-62.429	0.999702	10.000000
Cu-Precon	65Weighted Linear	31.926	-31.814	0.999825	10.000000
Zn-Precon	66Weighted Linear	20.969	-109.095	0.998862	50.000000
Zn-Precon	68Weighted Linear	14.089	-68.209	0.999066	50.000000
Cd-Precon	111Weighted Linear	22.586	-1.302	0.999849	10.000000
Cd-Precon	114Weighted Linear	56.406	-15.400	0.999746	10.000000
Pb-Precon	208Weighted Linear	305.820	2934.303	0.998637	10.000000
Tb-Precon	159Linear Thru Zero				

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 17:19:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51		499			ng/L
Fe-Precon	54		138			ng/L
Fe-Precon	56		2645			ng/L
Fe-Precon	57		143			ng/L
Co-Precon	59		98			ng/L
Ni-Precon	60		66			ng/L
Cu-Precon	63		280			ng/L
Cu-Precon	65		139			ng/L
Zn-Precon	66		361			ng/L
Zn-Precon	68		284			ng/L
Cd-Precon	111		4			ng/L
Cd-Precon	114		41			ng/L
Pb-Precon	208		56266			ng/L
Tb-Precon	159		6			mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL1**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 17:32:20

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 2

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL1.021

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1132	633.224247	<b>25.0698</b>	ng/L
Fe-Precon	54	138	406	268.630352	<b>49.4374</b>	ng/L
Fe-Precon	56	2645	8080	5435.299830	<b>49.9407</b>	ng/L
Fe-Precon	57	143	288	145.573841	<b>48.8712</b>	ng/L
Co-Precon	59	98	1548	1450.291290	<b>10.0011</b>	ng/L
Ni-Precon	60	66	343	277.651152	<b>9.8184</b>	ng/L
Cu-Precon	63	280	889	609.419965	<b>10.1406</b>	ng/L
Cu-Precon	65	139	430	290.815712	<b>10.1055</b>	ng/L
Zn-Precon	66	361	1262	901.396928	<b>48.1906</b>	ng/L
Zn-Precon	68	284	897	613.006093	<b>48.3501</b>	ng/L
Cd-Precon	111	4	231	226.629849	<b>10.0919</b>	ng/L
Cd-Precon	114	41	599	557.907964	<b>10.1639</b>	ng/L
Pb-Precon	208	56266	62196	5929.571203	<b>9.7942</b>	ng/L
Tb-Precon	159	6	8	1.998271		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL2**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 17:45:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL2.022

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	2224	1725.072108	<b>49.6465</b>	ng/L
Fe-Precon	54	138	747	609.735283	<b>103.6627</b>	ng/L
Fe-Precon	56	2645	14656	12011.437787	<b>102.3147</b>	ng/L
Fe-Precon	57	143	470	327.155427	<b>105.4112</b>	ng/L
Co-Precon	59	98	3067	2969.172026	<b>20.0393</b>	ng/L
Ni-Precon	60	66	674	608.478126	<b>20.6176</b>	ng/L
Cu-Precon	63	280	1519	1238.653687	<b>19.6381</b>	ng/L
Cu-Precon	65	139	733	593.540742	<b>19.5876</b>	ng/L
Zn-Precon	66	361	2527	2166.287996	<b>108.5135</b>	ng/L
Zn-Precon	68	284	1732	1447.809308	<b>107.6013</b>	ng/L
Cd-Precon	111	4	443	439.057534	<b>19.4974</b>	ng/L
Cd-Precon	114	41	1111	1070.600728	<b>19.2531</b>	ng/L
Pb-Precon	208	56266	65351	9084.982043	<b>20.1121</b>	ng/L
Tb-Precon	159	6	11	4.484855		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL3**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 17:58:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL3.023

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	5598	5099.503650	<b>125.6022</b>	ng/L
Fe-Precon	54	138	1647	1508.981584	<b>246.6155</b>	ng/L
Fe-Precon	56	2645	32323	29678.225240	<b>243.0172</b>	ng/L
Fe-Precon	57	143	935	792.866982	<b>250.4222</b>	ng/L
Co-Precon	59	98	7532	7434.051684	<b>49.5475</b>	ng/L
Ni-Precon	60	66	1603	1536.994413	<b>50.9273</b>	ng/L
Cu-Precon	63	280	3486	3205.908721	<b>49.3311</b>	ng/L
Cu-Precon	65	139	1716	1576.541249	<b>50.3776</b>	ng/L
Zn-Precon	66	361	5357	4996.397485	<b>243.4820</b>	ng/L
Zn-Precon	68	284	3681	3396.684962	<b>245.9252</b>	ng/L
Cd-Precon	111	4	1146	1141.855516	<b>50.6145</b>	ng/L
Cd-Precon	114	41	2861	2820.048323	<b>50.2681</b>	ng/L
Pb-Precon	208	56266	75610	19343.201606	<b>53.6554</b>	ng/L
Tb-Precon	159	6	12	5.409531		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 18:11:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL4.024

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	11066	10566.864358	<b>248.6681</b>	ng/L
Fe-Precon	54	138	3097	2959.298496	<b>477.1717</b>	ng/L
Fe-Precon	56	2645	61559	58914.279533	<b>475.8601</b>	ng/L
Fe-Precon	57	143	1661	1518.274004	<b>476.2958</b>	ng/L
Co-Precon	59	98	15227	15128.902694	<b>100.4025</b>	ng/L
Ni-Precon	60	66	3072	3006.749134	<b>98.9048</b>	ng/L
Cu-Precon	63	280	6647	6367.579767	<b>97.0522</b>	ng/L
Cu-Precon	65	139	3230	3090.253021	<b>97.7907</b>	ng/L
Zn-Precon	66	361	10601	10240.026883	<b>493.5518</b>	ng/L
Zn-Precon	68	284	7122	6838.312993	<b>490.1991</b>	ng/L
Cd-Precon	111	4	2279	2274.796251	<b>100.7766</b>	ng/L
Cd-Precon	114	41	5718	5677.521214	<b>100.9267</b>	ng/L
Pb-Precon	208	56266	90882	34616.008986	<b>103.5959</b>	ng/L
Tb-Precon	159	6	10	3.560178		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL5**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 18:24:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL5.025

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	56328	55829.409381	<b>1267.4914</b>	ng/L
Fe-Precon	54	138	15881	15743.939903	<b>2509.5399</b>	ng/L
Fe-Precon	56	2645	314714	312068.819743	<b>2492.0432</b>	ng/L
Fe-Precon	57	143	8113	7970.421692	<b>2485.3336</b>	ng/L
Co-Precon	59	98	77032	76934.042518	<b>508.8704</b>	ng/L
Ni-Precon	60	66	15542	15476.674486	<b>505.9624</b>	ng/L
Cu-Precon	63	280	33873	33592.903971	<b>507.9811</b>	ng/L
Cu-Precon	65	139	16341	16201.225214	<b>508.4582</b>	ng/L
Zn-Precon	66	361	53531	53170.084025	<b>2540.8954</b>	ng/L
Zn-Precon	68	284	36128	35844.399518	<b>2548.9429</b>	ng/L
Cd-Precon	111	4	11456	11451.602785	<b>507.0895</b>	ng/L
Cd-Precon	114	41	28772	28731.072263	<b>509.6307</b>	ng/L
Pb-Precon	208	56266	211751	155484.153634	<b>498.8222</b>	ng/L
Tb-Precon	159	6	9	2.365372		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL6**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 18:38:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL6.026

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	111774	111275.554971	<b>2515.5393</b>	ng/L
Fe-Precon	54	138	31841	31703.721255	<b>5046.6587</b>	ng/L
Fe-Precon	56	2645	627660	625015.041220	<b>4984.4215</b>	ng/L
Fe-Precon	57	143	16189	16046.209577	<b>4999.9324</b>	ng/L
Co-Precon	59	98	151162	151064.209440	<b>998.7939</b>	ng/L
Ni-Precon	60	66	30407	30341.399411	<b>991.1938</b>	ng/L
Cu-Precon	63	280	68348	68067.861600	<b>1028.3334</b>	ng/L
Cu-Precon	65	139	32433	32293.849278	<b>1012.5183</b>	ng/L
Zn-Precon	66	361	103132	102771.086237	<b>4906.3778</b>	ng/L
Zn-Precon	68	284	69552	69267.767117	<b>4921.2088</b>	ng/L
Cd-Precon	111	4	22288	22283.592777	<b>986.6874</b>	ng/L
Cd-Precon	114	41	55913	55872.327915	<b>990.8034</b>	ng/L
Pb-Precon	208	56266	356967	300700.257887	<b>973.6638</b>	ng/L
Tb-Precon	159	6	16	9.870151		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 18:51:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CAL7.027

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	546783	546284.366586	<b>12307.2362</b>	ng/L
Fe-Precon	54	138	160609	160471.307713	<b>25516.7797</b>	ng/L
Fe-Precon	56	2645	3136170	3133525.371754	<b>25316.1935</b>	ng/L
Fe-Precon	57	143	82031	81888.524590	<b>25501.5861</b>	ng/L
Co-Precon	59	98	727192	727093.530404	<b>4833.2236</b>	ng/L
Ni-Precon	60	66	149624	149558.605117	<b>4882.8185</b>	ng/L
Cu-Precon	63	280	332342	332062.328365	<b>5012.9682</b>	ng/L
Cu-Precon	65	139	158967	158827.268589	<b>4975.8524</b>	ng/L
Zn-Precon	66	361	510746	510385.108268	<b>24447.6939</b>	ng/L
Zn-Precon	68	284	348595	348311.477862	<b>24726.6902</b>	ng/L
Cd-Precon	111	4	112368	112363.949738	<b>4975.0908</b>	ng/L
Cd-Precon	114	41	281004	280962.733579	<b>4981.3101</b>	ng/L
Pb-Precon	208	56266	1464474	1408208.072236	<b>4611.2603</b>	ng/L
Tb-Precon	159	6	18	11.414742		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB2**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 19:04:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB2.028

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	7079	6580.367542	<b>158.9352</b>	ng/L
Fe-Precon	54	138	4025	3886.978090	<b>624.6444</b>	ng/L
Fe-Precon	56	2645	79793	77147.752085	<b>628.8980</b>	ng/L
Fe-Precon	57	143	2138	1995.568781	<b>624.9135</b>	ng/L
Co-Precon	59	98	2017	1918.784820	<b>13.0921</b>	ng/L
Ni-Precon	60	66	763	697.622228	<b>23.5276</b>	ng/L
Cu-Precon	63	280	10350	10069.792945	<b>152.9320</b>	ng/L
Cu-Precon	65	139	4908	4768.280659	<b>150.3506</b>	ng/L
Zn-Precon	66	361	1964	1602.809250	<b>81.6897</b>	ng/L
Zn-Precon	68	284	1346	1061.905926	<b>80.2113</b>	ng/L
Cd-Precon	111	4	129	125.075644	<b>5.5955</b>	ng/L
Cd-Precon	114	41	365	324.024852	<b>6.0175</b>	ng/L
Pb-Precon	208	56266	69034	12767.337318	<b>32.2170</b>	ng/L
Tb-Precon	159	6	9	2.888316		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 19:17:34  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.029  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1040	541.512048	<b>23.0055</b>	ng/L
Fe-Precon	54	138	2555	2417.022692	<b>390.9663</b>	ng/L
Fe-Precon	56	2645	50407	47761.903746	<b>391.5395</b>	ng/L
Fe-Precon	57	143	1377	1234.829080	<b>388.0381</b>	ng/L
Co-Precon	59	98	54	-43.855161	<b>0.0467</b>	ng/L
Ni-Precon	60	66	134	68.226097	<b>2.9821</b>	ng/L
Cu-Precon	63	280	479	199.278362	<b>3.9501</b>	ng/L
Cu-Precon	65	139	231	91.636443	<b>3.8668</b>	ng/L
Zn-Precon	66	361	143	-217.897486	<b>-5.5055</b>	ng/L
Zn-Precon	68	284	134	-149.839190	<b>-5.7938</b>	ng/L
Cd-Precon	111	4	5	1.201063	<b>0.1108</b>	ng/L
Cd-Precon	114	41	20	-21.309844	<b>-0.1048</b>	ng/L
Pb-Precon	208	56266	27783	-28483.636532	<b>-103.1453</b>	ng/L
Tb-Precon	159	6	8	2.122947		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICV1**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 19:30:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 101

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICV1.030

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	24654	24155.008871	<b>554.5262</b>	ng/L
Fe-Precon	54	138	163625	163487.452624	<b>25996.2548</b>	ng/L
Fe-Precon	56	2645	3206598	3203953.255384	<b>25885.0610</b>	ng/L
Fe-Precon	57	143	84147	84004.045376	<b>26160.3065</b>	ng/L
Co-Precon	59	98	39214	39115.825408	<b>260.3354</b>	ng/L
Ni-Precon	60	66	15512	15446.559173	<b>504.9793</b>	ng/L
Cu-Precon	63	280	35289	35009.550624	<b>529.3635</b>	ng/L
Cu-Precon	65	139	16715	16575.560652	<b>520.1833</b>	ng/L
Zn-Precon	66	361	11050	10689.212728	<b>516.8450</b>	ng/L
Zn-Precon	68	284	7359	7074.731678	<b>506.9792</b>	ng/L
Cd-Precon	111	4	1158	1153.818846	<b>51.1442</b>	ng/L
Cd-Precon	114	41	3141	3100.347525	<b>55.2374</b>	ng/L
Pb-Precon	208	56266	146666	90399.752726	<b>286.9624</b>	ng/L
Tb-Precon	159	6	33	27.023469		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 19:43:58  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.031  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	435	-64.130741	<b>9.3729</b>	ng/L
Fe-Precon	54	138	3503	3364.992279	<b>541.6646</b>	ng/L
Fe-Precon	56	2645	69197	66551.937512	<b>543.3124</b>	ng/L
Fe-Precon	57	143	1858	1715.370301	<b>537.6667</b>	ng/L
Co-Precon	59	98	55	-42.736562	<b>0.0541</b>	ng/L
Ni-Precon	60	66	63	-3.134198	<b>0.6527</b>	ng/L
Cu-Precon	63	280	251	-29.204709	<b>0.5015</b>	ng/L
Cu-Precon	65	139	117	-22.272682	<b>0.2989</b>	ng/L
Zn-Precon	66	361	153	-207.950997	<b>-5.0291</b>	ng/L
Zn-Precon	68	284	126	-157.825493	<b>-6.3607</b>	ng/L
Cd-Precon	111	4	7	2.513176	<b>0.1689</b>	ng/L
Cd-Precon	114	41	21	-19.350837	<b>-0.0700</b>	ng/L
Pb-Precon	208	56266	28711	-27555.884803	<b>-100.1009</b>	ng/L
Tb-Precon	159	6	8	1.811259		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICV2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 19:57:09

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 102

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICV2.032

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	2854	2355.242902	<b>63.8311</b>	ng/L
Fe-Precon	54	138	16636	16498.572873	<b>2629.5036</b>	ng/L
Fe-Precon	56	2645	328176	325531.054389	<b>2635.1658</b>	ng/L
Fe-Precon	57	143	8524	8381.066053	<b>2613.1980</b>	ng/L
Co-Precon	59	98	4027	3928.480132	<b>26.4502</b>	ng/L
Ni-Precon	60	66	1626	1560.249067	<b>51.6864</b>	ng/L
Cu-Precon	63	280	4031	3751.277903	<b>57.5627</b>	ng/L
Cu-Precon	65	139	1883	1743.803127	<b>55.6166</b>	ng/L
Zn-Precon	66	361	1491	1129.848216	<b>59.0392</b>	ng/L
Zn-Precon	68	284	1014	730.383581	<b>56.6811</b>	ng/L
Cd-Precon	111	4	127	122.284307	<b>5.4719</b>	ng/L
Cd-Precon	114	41	352	310.941108	<b>5.7855</b>	ng/L
Pb-Precon	208	56266	81700	25433.377490	<b>73.7797</b>	ng/L
Tb-Precon	159	6	10	3.757583		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 20:10:21  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.033  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	240	-258.583032	<b>4.9960</b>	ng/L
Fe-Precon	54	138	864	726.575804	<b>122.2368</b>	ng/L
Fe-Precon	56	2645	16623	13977.901545	<b>118.6558</b>	ng/L
Fe-Precon	57	143	520	377.280994	<b>121.0190</b>	ng/L
Co-Precon	59	98	45	-53.212807	<b>-0.0155</b>	ng/L
Ni-Precon	60	66	40	-25.582860	<b>-0.0801</b>	ng/L
Cu-Precon	63	280	183	-96.854524	<b>-0.5196</b>	ng/L
Cu-Precon	65	139	84	-55.686358	<b>-0.7477</b>	ng/L
Zn-Precon	66	361	146	-215.545592	<b>-5.3928</b>	ng/L
Zn-Precon	68	284	149	-134.493286	<b>-4.7046</b>	ng/L
Cd-Precon	111	4	4	-0.028408	<b>0.0564</b>	ng/L
Cd-Precon	114	41	18	-22.752023	<b>-0.1303</b>	ng/L
Pb-Precon	208	56266	28446	-27820.726822	<b>-100.9700</b>	ng/L
Tb-Precon	159	6	8	2.299570		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB3**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 20:23:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB3.034

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	272	-226.563963	<b>5.7167</b>	ng/L
Fe-Precon	54	138	202	64.278820	<b>16.9518</b>	ng/L
Fe-Precon	56	2645	3985	1339.762036	<b>16.5737</b>	ng/L
Fe-Precon	57	143	179	36.094388	<b>14.7821</b>	ng/L
Co-Precon	59	98	72	-25.676636	<b>0.1675</b>	ng/L
Ni-Precon	60	66	57	-8.831216	<b>0.4667</b>	ng/L
Cu-Precon	63	280	270	-9.800761	<b>0.7944</b>	ng/L
Cu-Precon	65	139	120	-19.435855	<b>0.3877</b>	ng/L
Zn-Precon	66	361	281	-79.985331	<b>1.0992</b>	ng/L
Zn-Precon	68	284	229	-54.562710	<b>0.9685</b>	ng/L
Cd-Precon	111	4	8	3.228313	<b>0.2006</b>	ng/L
Cd-Precon	114	41	44	2.765757	<b>0.3221</b>	ng/L
Pb-Precon	208	56266	75380	19114.049735	<b>53.0433</b>	ng/L
Tb-Precon	159	6	7	0.845023		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 20:36:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.035

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	165	-333.785804	<b>3.3032</b>	ng/L
Fe-Precon	54	138	272	134.099977	<b>28.0512</b>	ng/L
Fe-Precon	56	2645	5438	2793.415068	<b>28.3153</b>	ng/L
Fe-Precon	57	143	216	72.995793	<b>26.2722</b>	ng/L
Co-Precon	59	98	53	-44.963417	<b>0.0393</b>	ng/L
Ni-Precon	60	66	43	-22.836544	<b>0.0095</b>	ng/L
Cu-Precon	63	280	156	-123.490889	<b>-0.9216</b>	ng/L
Cu-Precon	65	139	80	-59.869982	<b>-0.8788</b>	ng/L
Zn-Precon	66	361	143	-217.956260	<b>-5.5083</b>	ng/L
Zn-Precon	68	284	127	-156.585669	<b>-6.2727</b>	ng/L
Cd-Precon	111	4	5	0.846402	<b>0.0951</b>	ng/L
Cd-Precon	114	41	17	-23.819118	<b>-0.1493</b>	ng/L
Pb-Precon	208	56266	30903	-25363.823966	<b>-92.9078</b>	ng/L
Tb-Precon	159	6	8	1.333336		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 20:49:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 103

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-IBL1.036

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	196	-302.369827	<b>4.0104</b>	ng/L
Fe-Precon	54	138	131	-6.614902	<b>5.6818</b>	ng/L
Fe-Precon	56	2645	2565	-80.085004	<b>5.1052</b>	ng/L
Fe-Precon	57	143	137	-5.125710	<b>1.9471</b>	ng/L
Co-Precon	59	98	78	-19.847986	<b>0.2063</b>	ng/L
Ni-Precon	60	66	45	-20.485008	<b>0.0863</b>	ng/L
Cu-Precon	63	280	158	-122.223169	<b>-0.9025</b>	ng/L
Cu-Precon	65	139	85	-54.044732	<b>-0.6963</b>	ng/L
Zn-Precon	66	361	243	-117.847367	<b>-0.7140</b>	ng/L
Zn-Precon	68	284	214	-69.804898	<b>-0.1133</b>	ng/L
Cd-Precon	111	4	6	1.786820	<b>0.1367</b>	ng/L
Cd-Precon	114	41	19	-21.860959	<b>-0.1145</b>	ng/L
Pb-Precon	208	56266	76141	19874.090663	<b>55.5373</b>	ng/L
Tb-Precon	159	6	7	1.025110		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 21:03:07  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.037  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	119	-379.573886	<b>2.2726</b>	ng/L
Fe-Precon	54	138	176	38.421736	<b>12.8413</b>	ng/L
Fe-Precon	56	2645	3501	856.237296	<b>12.6681</b>	ng/L
Fe-Precon	57	143	167	24.578861	<b>11.1964</b>	ng/L
Co-Precon	59	98	49	-49.091559	<b>0.0119</b>	ng/L
Ni-Precon	60	66	35	-30.815806	<b>-0.2509</b>	ng/L
Cu-Precon	63	280	161	-119.075060	<b>-0.8550</b>	ng/L
Cu-Precon	65	139	67	-72.680480	<b>-1.2800</b>	ng/L
Zn-Precon	66	361	139	-221.970156	<b>-5.7005</b>	ng/L
Zn-Precon	68	284	136	-147.882456	<b>-5.6550</b>	ng/L
Cd-Precon	111	4	7	2.513832	<b>0.1689</b>	ng/L
Cd-Precon	114	41	17	-23.796721	<b>-0.1489</b>	ng/L
Pb-Precon	208	56266	32613	-23653.040897	<b>-87.2940</b>	ng/L
Tb-Precon	159	6	8	1.655414		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 21:16:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 104

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-IBL2.038

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	148	-351.261551	<b>2.9099</b>	ng/L
Fe-Precon	54	138	108	-29.635279	<b>2.0223</b>	ng/L
Fe-Precon	56	2645	2234	-410.462548	<b>2.4366</b>	ng/L
Fe-Precon	57	143	135	-7.986344	<b>1.0564</b>	ng/L
Co-Precon	59	98	72	-25.853241	<b>0.1663</b>	ng/L
Ni-Precon	60	66	51	-14.891900	<b>0.2689</b>	ng/L
Cu-Precon	63	280	168	-111.459052	<b>-0.7400</b>	ng/L
Cu-Precon	65	139	77	-62.082857	<b>-0.9481</b>	ng/L
Zn-Precon	66	361	161	-200.397161	<b>-4.6674</b>	ng/L
Zn-Precon	68	284	143	-140.505528	<b>-5.1314</b>	ng/L
Cd-Precon	111	4	7	2.829357	<b>0.1829</b>	ng/L
Cd-Precon	114	41	15	-26.141443	<b>-0.1904</b>	ng/L
Pb-Precon	208	56266	79643	23376.804079	<b>67.0312</b>	ng/L
Tb-Precon	159	6	7	0.484850		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 21:29:30  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.039  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	82	-416.333000	<b>1.4452</b>	ng/L
Fe-Precon	54	138	125	-12.720648	<b>4.7112</b>	ng/L
Fe-Precon	56	2645	2754	108.927256	<b>6.6319</b>	ng/L
Fe-Precon	57	143	140	-2.074527	<b>2.8972</b>	ng/L
Co-Precon	59	98	49	-49.046547	<b>0.0122</b>	ng/L
Ni-Precon	60	66	36	-29.925754	<b>-0.2219</b>	ng/L
Cu-Precon	63	280	145	-135.314530	<b>-1.1001</b>	ng/L
Cu-Precon	65	139	68	-70.990447	<b>-1.2271</b>	ng/L
Zn-Precon	66	361	120	-241.451174	<b>-6.6335</b>	ng/L
Zn-Precon	68	284	115	-168.530221	<b>-7.1205</b>	ng/L
Cd-Precon	111	4	7	2.524884	<b>0.1694</b>	ng/L
Cd-Precon	114	41	20	-21.067522	<b>-0.1005</b>	ng/L
Pb-Precon	208	56266	32968	-23297.969637	<b>-86.1289</b>	ng/L
Tb-Precon	159	6	10	3.761045		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 21:42:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 105

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-IBL3.040

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	116	-382.604223	<b>2.2044</b>	ng/L
Fe-Precon	54	138	106	-31.131381	<b>1.7845</b>	ng/L
Fe-Precon	56	2645	2011	-633.484908	<b>0.6352</b>	ng/L
Fe-Precon	57	143	136	-6.663419	<b>1.4683</b>	ng/L
Co-Precon	59	98	66	-31.806546	<b>0.1268</b>	ng/L
Ni-Precon	60	66	43	-22.556002	<b>0.0187</b>	ng/L
Cu-Precon	63	280	159	-121.256658	<b>-0.8879</b>	ng/L
Cu-Precon	65	139	79	-60.500253	<b>-0.8985</b>	ng/L
Zn-Precon	66	361	151	-210.544465	<b>-5.1533</b>	ng/L
Zn-Precon	68	284	139	-144.360129	<b>-5.4050</b>	ng/L
Cd-Precon	111	4	7	2.672493	<b>0.1760</b>	ng/L
Cd-Precon	114	41	17	-23.410381	<b>-0.1420</b>	ng/L
Pb-Precon	208	56266	82404	26137.741966	<b>76.0910</b>	ng/L
Tb-Precon	159	6	6	-0.619913		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 21:55:53  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.041  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	71	-427.671722	<b>1.1899</b>	ng/L
Fe-Precon	54	138	121	-16.506015	<b>4.1094</b>	ng/L
Fe-Precon	56	2645	2358	-286.793291	<b>3.4355</b>	ng/L
Fe-Precon	57	143	147	4.346295	<b>4.8965</b>	ng/L
Co-Precon	59	98	45	-53.046559	<b>-0.0144</b>	ng/L
Ni-Precon	60	66	33	-32.298057	<b>-0.2993</b>	ng/L
Cu-Precon	63	280	141	-138.743168	<b>-1.1519</b>	ng/L
Cu-Precon	65	139	64	-75.423391	<b>-1.3660</b>	ng/L
Zn-Precon	66	361	119	-242.046839	<b>-6.6620</b>	ng/L
Zn-Precon	68	284	128	-155.525737	<b>-6.1974</b>	ng/L
Cd-Precon	111	4	3	-1.440454	<b>-0.0061</b>	ng/L
Cd-Precon	114	41	18	-23.143604	<b>-0.1373</b>	ng/L
Pb-Precon	208	56266	33824	-22442.173552	<b>-83.3206</b>	ng/L
Tb-Precon	159	6	8	1.478789		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL4**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 22:09:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 106

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-IBL4.042

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	97	-401.302364	<b>1.7835</b>	ng/L
Fe-Precon	54	138	100	-37.559194	<b>0.7626</b>	ng/L
Fe-Precon	56	2645	2012	-632.721536	<b>0.6414</b>	ng/L
Fe-Precon	57	143	130	-12.561347	<b>-0.3681</b>	ng/L
Co-Precon	59	98	71	-27.335495	<b>0.1565</b>	ng/L
Ni-Precon	60	66	44	-22.050378	<b>0.0352</b>	ng/L
Cu-Precon	63	280	149	-131.082139	<b>-1.0362</b>	ng/L
Cu-Precon	65	139	76	-63.831884	<b>-1.0029</b>	ng/L
Zn-Precon	66	361	163	-198.243047	<b>-4.5642</b>	ng/L
Zn-Precon	68	284	141	-142.808516	<b>-5.2948</b>	ng/L
Cd-Precon	111	4	7	2.258212	<b>0.1576</b>	ng/L
Cd-Precon	114	41	16	-24.749293	<b>-0.1657</b>	ng/L
Pb-Precon	208	56266	86876	30609.313724	<b>90.7642</b>	ng/L
Tb-Precon	159	6	6	-0.020779		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 22:22:15  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.043  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	57	-441.396547	<b>0.8810</b>	ng/L
Fe-Precon	54	138	109	-28.295032	<b>2.2354</b>	ng/L
Fe-Precon	56	2645	2098	-547.123375	<b>1.3328</b>	ng/L
Fe-Precon	57	143	131	-11.449584	<b>-0.0220</b>	ng/L
Co-Precon	59	98	44	-53.940089	<b>-0.0204</b>	ng/L
Ni-Precon	60	66	33	-33.104980	<b>-0.3256</b>	ng/L
Cu-Precon	63	280	138	-141.617792	<b>-1.1952</b>	ng/L
Cu-Precon	65	139	66	-73.909960	<b>-1.3186</b>	ng/L
Zn-Precon	66	361	128	-233.520206	<b>-6.2537</b>	ng/L
Zn-Precon	68	284	120	-164.277584	<b>-6.8186</b>	ng/L
Cd-Precon	111	4	7	2.243356	<b>0.1570</b>	ng/L
Cd-Precon	114	41	18	-22.667630	<b>-0.1288</b>	ng/L
Pb-Precon	208	56266	34547	-21719.754021	<b>-80.9501</b>	ng/L
Tb-Precon	159	6	7	1.011257		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-SCV1**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 22:35:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 107

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-SCV1.044

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	60653	60154.602085	<b>1364.8480</b>	ng/L
Fe-Precon	54	138	10253	10115.591327	<b>1614.8041</b>	ng/L
Fe-Precon	56	2645	204592	201946.729317	<b>1636.9375</b>	ng/L
Fe-Precon	57	143	5739	5596.228162	<b>1746.0690</b>	ng/L
Co-Precon	59	98	14224	14125.528060	<b>94.2285</b>	ng/L
Ni-Precon	60	66	10465	10399.505543	<b>340.2276</b>	ng/L
Cu-Precon	63	280	24398	24117.990391	<b>364.9703</b>	ng/L
Cu-Precon	65	139	11861	11721.142372	<b>368.1311</b>	ng/L
Zn-Precon	66	361	15862	15500.682402	<b>747.2703</b>	ng/L
Zn-Precon	68	284	10615	10331.613940	<b>738.1406</b>	ng/L
Cd-Precon	111	4	71	67.187490	<b>3.0324</b>	ng/L
Cd-Precon	114	41	580	538.957978	<b>9.8279</b>	ng/L
Pb-Precon	208	56266	93673	37406.286678	<b>113.0680</b>	ng/L
Tb-Precon	159	6	2209	2202.803595		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 22:48:37  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.045  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	305	-193.447249	<b>6.4621</b>	ng/L
Fe-Precon	54	138	188	50.079333	<b>14.6945</b>	ng/L
Fe-Precon	56	2645	3693	1048.119144	<b>14.2180</b>	ng/L
Fe-Precon	57	143	166	23.390956	<b>10.8265</b>	ng/L
Co-Precon	59	98	51	-47.380750	<b>0.0232</b>	ng/L
Ni-Precon	60	66	57	-8.997499	<b>0.4613</b>	ng/L
Cu-Precon	63	280	218	-62.023772	<b>0.0061</b>	ng/L
Cu-Precon	65	139	101	-38.241931	<b>-0.2013</b>	ng/L
Zn-Precon	66	361	138	-223.414151	<b>-5.7697</b>	ng/L
Zn-Precon	68	284	125	-158.701690	<b>-6.4229</b>	ng/L
Cd-Precon	111	4	0	-3.813796	<b>-0.1112</b>	ng/L
Cd-Precon	114	41	11	-29.443690	<b>-0.2490</b>	ng/L
Pb-Precon	208	56266	35956	-20310.730083	<b>-76.3264</b>	ng/L
Tb-Precon	159	6	30	23.774961		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-SCV2**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 23:01:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 108

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-SCV2.046

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	133087	132587.826569	<b>2995.2613</b>	ng/L
Fe-Precon	54	138	4250	4112.319191	<b>660.4668</b>	ng/L
Fe-Precon	56	2645	84660	82014.626071	<b>668.2092</b>	ng/L
Fe-Precon	57	143	2520	2377.340965	<b>743.7878</b>	ng/L
Co-Precon	59	98	7017	6918.672340	<b>46.3256</b>	ng/L
Ni-Precon	60	66	41450	41384.425617	<b>1351.6729</b>	ng/L
Cu-Precon	63	280	105285	105004.977492	<b>1585.8486</b>	ng/L
Cu-Precon	65	139	50228	50088.393785	<b>1569.8867</b>	ng/L
Zn-Precon	66	361	3918	3556.604181	<b>175.2585</b>	ng/L
Zn-Precon	68	284	2316	2032.035137	<b>149.0675</b>	ng/L
Cd-Precon	111	4	858	853.382928	<b>37.8421</b>	ng/L
Cd-Precon	114	41	2446	2405.500453	<b>42.9188</b>	ng/L
Pb-Precon	208	56266	93091	36824.905733	<b>111.1602</b>	ng/L
Tb-Precon	159	6	1556	1549.387449		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 23:14:59  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.047  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	654	155.218700	<b>14.3103</b>	ng/L
Fe-Precon	54	138	148	10.725762	<b>8.4385</b>	ng/L
Fe-Precon	56	2645	2769	123.910666	<b>6.7529</b>	ng/L
Fe-Precon	57	143	155	11.941310	<b>7.2614</b>	ng/L
Co-Precon	59	98	43	-55.263033	<b>-0.0291</b>	ng/L
Ni-Precon	60	66	120	54.324599	<b>2.5283</b>	ng/L
Cu-Precon	63	280	395	114.717765	<b>2.6738</b>	ng/L
Cu-Precon	65	139	187	47.977102	<b>2.4992</b>	ng/L
Zn-Precon	66	361	121	-239.847578	<b>-6.5567</b>	ng/L
Zn-Precon	68	284	122	-162.133675	<b>-6.6665</b>	ng/L
Cd-Precon	111	4	2	-2.022372	<b>-0.0319</b>	ng/L
Cd-Precon	114	41	11	-29.554704	<b>-0.2509</b>	ng/L
Pb-Precon	208	56266	37790	-18476.917633	<b>-70.3089</b>	ng/L
Tb-Precon	159	6	19	13.250250		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 23:28:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV1.048

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	11867	11368.513346	<b>266.7125</b>	ng/L
Fe-Precon	54	138	3082	2944.126632	<b>474.7598</b>	ng/L
Fe-Precon	56	2645	60447	57802.099057	<b>472.6373</b>	ng/L
Fe-Precon	57	143	1649	1506.060831	<b>472.4929</b>	ng/L
Co-Precon	59	98	15188	15089.714201	<b>100.6373</b>	ng/L
Ni-Precon	60	66	3037	2970.803161	<b>97.7314</b>	ng/L
Cu-Precon	63	280	6673	6392.662583	<b>97.4308</b>	ng/L
Cu-Precon	65	139	3185	3045.191029	<b>96.3793</b>	ng/L
Zn-Precon	66	361	10649	10288.233115	<b>497.6418</b>	ng/L
Zn-Precon	68	284	7204	6920.612382	<b>496.0404</b>	ng/L
Cd-Precon	111	4	2238	2234.012295	<b>98.9709</b>	ng/L
Cd-Precon	114	41	5653	5612.232807	<b>99.7693</b>	ng/L
Pb-Precon	208	56266	126072	69805.104919	<b>219.3825</b>	ng/L
Tb-Precon	159	6	9	2.722081		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 23:41:22  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.049  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	118	-380.467524	<b>2.2525</b>	ng/L
Fe-Precon	54	138	237	99.310704	<b>22.5208</b>	ng/L
Fe-Precon	56	2645	4598	1952.782496	<b>21.5253</b>	ng/L
Fe-Precon	57	143	181	38.189685	<b>15.4345</b>	ng/L
Co-Precon	59	98	41	-56.956564	<b>-0.0404</b>	ng/L
Ni-Precon	60	66	49	-16.644283	<b>0.2117</b>	ng/L
Cu-Precon	63	280	197	-82.914702	<b>-0.3092</b>	ng/L
Cu-Precon	65	139	98	-41.047100	<b>-0.2892</b>	ng/L
Zn-Precon	66	361	129	-231.733250	<b>-6.1681</b>	ng/L
Zn-Precon	68	284	122	-161.589963	<b>-6.6279</b>	ng/L
Cd-Precon	111	4	4	0.160327	<b>0.0647</b>	ng/L
Cd-Precon	114	41	19	-21.416579	<b>-0.1067</b>	ng/L
Pb-Precon	208	56266	39412	-16854.065268	<b>-64.9836</b>	ng/L
Tb-Precon	159	6	7	0.401733		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, August 10, 2012 23:54:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB1.050

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	101	-397.963864	<b>1.8586</b>	ng/L
Fe-Precon	54	138	127	-10.781258	<b>5.0195</b>	ng/L
Fe-Precon	56	2645	2532	-112.671622	<b>4.8420</b>	ng/L
Fe-Precon	57	143	145	2.244083	<b>4.2419</b>	ng/L
Co-Precon	59	98	65	-33.500072	<b>0.1155</b>	ng/L
Ni-Precon	60	66	72	6.036448	<b>0.9521</b>	ng/L
Cu-Precon	63	280	281	1.440300	<b>0.9640</b>	ng/L
Cu-Precon	65	139	136	-3.417983	<b>0.8894</b>	ng/L
Zn-Precon	66	361	264	-97.541839	<b>0.2584</b>	ng/L
Zn-Precon	68	284	212	-72.028190	<b>-0.2711</b>	ng/L
Cd-Precon	111	4	6	2.191876	<b>0.1547</b>	ng/L
Cd-Precon	114	41	43	2.267894	<b>0.3132</b>	ng/L
Pb-Precon	208	56266	100991	44724.254335	<b>137.0814</b>	ng/L
Tb-Precon	159	6	8	1.655414		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 00:07:46  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.051  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	40	-458.910113	<b>0.4868</b>	ng/L
Fe-Precon	54	138	102	-35.682131	<b>1.0610</b>	ng/L
Fe-Precon	56	2645	2075	-570.131892	<b>1.1469</b>	ng/L
Fe-Precon	57	143	131	-11.948352	<b>-0.1773</b>	ng/L
Co-Precon	59	98	42	-55.817156	<b>-0.0328</b>	ng/L
Ni-Precon	60	66	37	-28.412320	<b>-0.1725</b>	ng/L
Cu-Precon	63	280	140	-139.487643	<b>-1.1631</b>	ng/L
Cu-Precon	65	139	67	-72.015545	<b>-1.2592</b>	ng/L
Zn-Precon	66	361	128	-232.751321	<b>-6.2168</b>	ng/L
Zn-Precon	68	284	130	-153.697156	<b>-6.0677</b>	ng/L
Cd-Precon	111	4	6	1.717318	<b>0.1337</b>	ng/L
Cd-Precon	114	41	19	-21.756291	<b>-0.1127</b>	ng/L
Pb-Precon	208	56266	39757	-16509.094608	<b>-63.8516</b>	ng/L
Tb-Precon	159	6	7	0.768832		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-BLK1**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 00:20:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 109

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-BLK1.052

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	93	-405.808088	<b>1.6821</b>	ng/L
Fe-Precon	54	138	754	616.949058	<b>104.8095</b>	ng/L
Fe-Precon	56	2645	15032	12386.761758	<b>105.8037</b>	ng/L
Fe-Precon	57	143	456	313.058737	<b>101.0218</b>	ng/L
Co-Precon	59	98	64	-34.414342	<b>0.1094</b>	ng/L
Ni-Precon	60	66	47	-18.607935	<b>0.1476</b>	ng/L
Cu-Precon	63	280	404	123.754290	<b>2.8102</b>	ng/L
Cu-Precon	65	139	194	54.669097	<b>2.7089</b>	ng/L
Zn-Precon	66	361	168	-193.221039	<b>-4.3237</b>	ng/L
Zn-Precon	68	284	148	-135.521822	<b>-4.7776</b>	ng/L
Cd-Precon	111	4	7	2.865398	<b>0.1845</b>	ng/L
Cd-Precon	114	41	19	-21.883669	<b>-0.1149</b>	ng/L
Pb-Precon	208	56266	103492	47225.438232	<b>145.2889</b>	ng/L
Tb-Precon	159	6	7	0.682251		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 00:34:07  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.053  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	44	-455.083233	<b>0.5729</b>	ng/L
Fe-Precon	54	138	125	-12.904255	<b>4.6820</b>	ng/L
Fe-Precon	56	2645	2481	-163.555514	<b>4.4310</b>	ng/L
Fe-Precon	57	143	148	5.697013	<b>5.3171</b>	ng/L
Co-Precon	59	98	43	-55.297675	<b>-0.0294</b>	ng/L
Ni-Precon	60	66	34	-32.097196	<b>-0.2927</b>	ng/L
Cu-Precon	63	280	137	-142.608046	<b>-1.2102</b>	ng/L
Cu-Precon	65	139	64	-75.028563	<b>-1.3536</b>	ng/L
Zn-Precon	66	361	113	-247.650483	<b>-6.9304</b>	ng/L
Zn-Precon	68	284	122	-161.693882	<b>-6.6352</b>	ng/L
Cd-Precon	111	4	9	4.467488	<b>0.2554</b>	ng/L
Cd-Precon	114	41	17	-23.668220	<b>-0.1466</b>	ng/L
Pb-Precon	208	56266	41624	-14642.854768	<b>-57.7277</b>	ng/L
Tb-Precon	159	6	9	3.213857		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-BLK2**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 00:47:18

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 110

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-BLK2.054

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	95	-403.802865	<b>1.7272</b>	ng/L
Fe-Precon	54	138	201	63.652280	<b>16.8522</b>	ng/L
Fe-Precon	56	2645	3996	1351.200178	<b>16.6661</b>	ng/L
Fe-Precon	57	143	178	35.495313	<b>14.5955</b>	ng/L
Co-Precon	59	98	63	-35.470611	<b>0.1024</b>	ng/L
Ni-Precon	60	66	61	-4.335944	<b>0.6135</b>	ng/L
Cu-Precon	63	280	381	100.740492	<b>2.4628</b>	ng/L
Cu-Precon	65	139	177	37.802805	<b>2.1806</b>	ng/L
Zn-Precon	66	361	919	558.174843	<b>31.6613</b>	ng/L
Zn-Precon	68	284	639	355.244848	<b>30.0551</b>	ng/L
Cd-Precon	111	4	9	4.429038	<b>0.2537</b>	ng/L
Cd-Precon	114	41	16	-24.556063	<b>-0.1623</b>	ng/L
Pb-Precon	208	56266	105298	49031.430454	<b>151.2151</b>	ng/L
Tb-Precon	159	6	4	-2.403465		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 01:00:29  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.055  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	38	-460.582849	<b>0.4491</b>	ng/L
Fe-Precon	54	138	100	-37.060489	<b>0.8419</b>	ng/L
Fe-Precon	56	2645	2008	-637.069849	<b>0.6062</b>	ng/L
Fe-Precon	57	143	132	-11.023667	<b>0.1107</b>	ng/L
Co-Precon	59	98	48	-50.514962	<b>0.0024</b>	ng/L
Ni-Precon	60	66	36	-29.873811	<b>-0.2202</b>	ng/L
Cu-Precon	63	280	144	-136.034875	<b>-1.1110</b>	ng/L
Cu-Precon	65	139	63	-76.223379	<b>-1.3910</b>	ng/L
Zn-Precon	66	361	112	-249.416708	<b>-7.0150</b>	ng/L
Zn-Precon	68	284	120	-163.650657	<b>-6.7741</b>	ng/L
Cd-Precon	111	4	6	2.156018	<b>0.1531</b>	ng/L
Cd-Precon	114	41	14	-27.237502	<b>-0.2099</b>	ng/L
Pb-Precon	208	56266	43877	-12389.411649	<b>-50.3332</b>	ng/L
Tb-Precon	159	6	8	1.800869		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-BLK3**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 01:13:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 111

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-BLK3.056

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	85	-413.967580	<b>1.4984</b>	ng/L
Fe-Precon	54	138	235	97.717688	<b>22.2675</b>	ng/L
Fe-Precon	56	2645	4520	1874.746325	<b>20.8949</b>	ng/L
Fe-Precon	57	143	195	52.008183	<b>19.7372</b>	ng/L
Co-Precon	59	98	57	-41.240416	<b>0.0641</b>	ng/L
Ni-Precon	60	66	81	15.553421	<b>1.2627</b>	ng/L
Cu-Precon	63	280	297	17.587815	<b>1.2077</b>	ng/L
Cu-Precon	65	139	133	-6.205949	<b>0.8021</b>	ng/L
Zn-Precon	66	361	199	-161.669850	<b>-2.8127</b>	ng/L
Zn-Precon	68	284	174	-109.484194	<b>-2.9296</b>	ng/L
Cd-Precon	111	4	7	3.000333	<b>0.1905</b>	ng/L
Cd-Precon	114	41	15	-25.844320	<b>-0.1852</b>	ng/L
Pb-Precon	208	56266	109106	52839.663858	<b>163.7116</b>	ng/L
Tb-Precon	159	6	6	0.103897		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 01:26:50  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.057  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	37	-462.182858	<b>0.4131</b>	ng/L
Fe-Precon	54	138	107	-30.899420	<b>1.8213</b>	ng/L
Fe-Precon	56	2645	2109	-535.550970	<b>1.4262</b>	ng/L
Fe-Precon	57	143	143	0.488203	<b>3.6952</b>	ng/L
Co-Precon	59	98	37	-60.838822	<b>-0.0662</b>	ng/L
Ni-Precon	60	66	35	-30.628781	<b>-0.2448</b>	ng/L
Cu-Precon	63	280	132	-147.449889	<b>-1.2833</b>	ng/L
Cu-Precon	65	139	61	-78.813898	<b>-1.4722</b>	ng/L
Zn-Precon	66	361	133	-227.604979	<b>-5.9704</b>	ng/L
Zn-Precon	68	284	125	-158.497285	<b>-6.4084</b>	ng/L
Cd-Precon	111	4	7	2.557190	<b>0.1709</b>	ng/L
Cd-Precon	114	41	17	-24.122749	<b>-0.1546</b>	ng/L
Pb-Precon	208	56266	46142	-10124.158878	<b>-42.8999</b>	ng/L
Tb-Precon	159	6	5	-0.827707		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-BLK4**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 01:40:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 112

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-BLK4.058

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	86	-412.966723	<b>1.5209</b>	ng/L
Fe-Precon	54	138	556	418.737027	<b>73.2998</b>	ng/L
Fe-Precon	56	2645	10317	7672.142565	<b>67.7223</b>	ng/L
Fe-Precon	57	143	349	206.238560	<b>67.7607</b>	ng/L
Co-Precon	59	98	70	-28.367583	<b>0.1496</b>	ng/L
Ni-Precon	60	66	50	-15.497963	<b>0.2491</b>	ng/L
Cu-Precon	63	280	380	100.185936	<b>2.4545</b>	ng/L
Cu-Precon	65	139	183	43.918940	<b>2.3721</b>	ng/L
Zn-Precon	66	361	172	-188.898845	<b>-4.1167</b>	ng/L
Zn-Precon	68	284	140	-144.114242	<b>-5.3875</b>	ng/L
Cd-Precon	111	4	6	1.858042	<b>0.1399</b>	ng/L
Cd-Precon	114	41	27	-13.883914	<b>0.0269</b>	ng/L
Pb-Precon	208	56266	116475	60208.561923	<b>187.8921</b>	ng/L
Tb-Precon	159	6	7	0.786151		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 01:53:12  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.059  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	26	-473.092014	<b>0.1676</b>	ng/L
Fe-Precon	54	138	108	-29.746100	<b>2.0047</b>	ng/L
Fe-Precon	56	2645	2113	-532.129622	<b>1.4539</b>	ng/L
Fe-Precon	57	143	138	-4.398420	<b>2.1736</b>	ng/L
Co-Precon	59	98	40	-57.721937	<b>-0.0455</b>	ng/L
Ni-Precon	60	66	34	-32.034855	<b>-0.2907</b>	ng/L
Cu-Precon	63	280	133	-146.999697	<b>-1.2765</b>	ng/L
Cu-Precon	65	139	63	-76.545494	<b>-1.4011</b>	ng/L
Zn-Precon	66	361	113	-248.014034	<b>-6.9478</b>	ng/L
Zn-Precon	68	284	110	-173.856826	<b>-7.4985</b>	ng/L
Cd-Precon	111	4	5	0.845865	<b>0.0951</b>	ng/L
Cd-Precon	114	41	18	-22.975512	<b>-0.1343</b>	ng/L
Pb-Precon	208	56266	46325	-9941.749096	<b>-42.3013</b>	ng/L
Tb-Precon	159	6	7	0.342858		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-BS1**

**Sample Description: 5x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 02:06:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 113

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-BS1.060

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	27854	27355.540679	<b>3132.8380</b>	ng/L
Fe-Precon	54	138	122373	122235.382143	<b>97192.1654</b>	ng/L
Fe-Precon	56	2645	2385782	2383137.438564	<b>96275.4049</b>	ng/L
Fe-Precon	57	143	63127	62984.474643	<b>98076.6836</b>	ng/L
Co-Precon	59	98	58560	58462.397180	<b>1944.6463</b>	ng/L
Ni-Precon	60	66	23973	23907.472496	<b>3905.8507</b>	ng/L
Cu-Precon	63	280	26426	26146.262648	<b>1977.9215</b>	ng/L
Cu-Precon	65	139	12513	12373.625606	<b>1942.8425</b>	ng/L
Zn-Precon	66	361	17058	16697.315451	<b>4022.8901</b>	ng/L
Zn-Precon	68	284	11209	10925.526037	<b>3901.4713</b>	ng/L
Cd-Precon	111	4	868	863.226850	<b>191.3896</b>	ng/L
Cd-Precon	114	41	2766	2725.126671	<b>242.9266</b>	ng/L
Pb-Precon	208	56266	151759	95492.482695	<b>1518.3694</b>	ng/L
Tb-Precon	159	6	47	41.264248		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 02:19:35  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.061  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	103	-396.010613	<b>1.9026</b>	ng/L
Fe-Precon	54	138	4184	4046.836095	<b>650.0570</b>	ng/L
Fe-Precon	56	2645	81902	79257.341938	<b>645.9378</b>	ng/L
Fe-Precon	57	143	2216	2073.771959	<b>649.2640</b>	ng/L
Co-Precon	59	98	44	-54.061294	<b>-0.0212</b>	ng/L
Ni-Precon	60	66	98	32.308637	<b>1.8097</b>	ng/L
Cu-Precon	63	280	166	-114.285401	<b>-0.7827</b>	ng/L
Cu-Precon	65	139	76	-63.170437	<b>-0.9822</b>	ng/L
Zn-Precon	66	361	125	-236.266679	<b>-6.3852</b>	ng/L
Zn-Precon	68	284	128	-156.097181	<b>-6.2380</b>	ng/L
Cd-Precon	111	4	7	2.856227	<b>0.1841</b>	ng/L
Cd-Precon	114	41	24	-16.503466	<b>-0.0196</b>	ng/L
Pb-Precon	208	56266	47369	-8897.261820	<b>-38.8739</b>	ng/L
Tb-Precon	159	6	6	0.301299		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1230005-01RE3**

**Sample Description: 1000x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 02:32:47

Diluted To Volume (mL): 1000.00

Aliquot Volume (mL): 1

Autosampler Position: 114

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1230005-01RE3.062

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	19582	19083.349781	<b>440367.2575</b>	ng/L
Fe-Precon	54	138	2248	2110.201059	<b>342191.0414</b>	ng/L
Fe-Precon	56	2645	44892	42246.966312	<b>346993.7002</b>	ng/L
Fe-Precon	57	143	1260	1117.012142	<b>351352.8669</b>	ng/L
Co-Precon	59	98	11161	11062.542103	<b>73869.2927</b>	ng/L
Ni-Precon	60	66	26118	26051.892612	<b>851170.7587</b>	ng/L
Cu-Precon	63	280	42056	41775.968274	<b>631493.2872</b>	ng/L
Cu-Precon	65	139	20161	20021.382377	<b>628114.8246</b>	ng/L
Zn-Precon	66	361	26627	26266.347444	<b>1262846.8679</b>	ng/L
Zn-Precon	68	284	18016	17732.089198	<b>1263398.7128</b>	ng/L
Cd-Precon	111	4	6289	6285.081721	<b>278336.2963</b>	ng/L
Cd-Precon	114	41	15765	15723.926476	<b>279034.0454</b>	ng/L
Pb-Precon	208	56266	153589	97322.394504	<b>309678.6141</b>	ng/L
Tb-Precon	159	6	8	1.593077		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 02:45:58  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.063  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	133	-365.946004	<b>2.5793</b>	ng/L
Fe-Precon	54	138	328	189.981340	<b>36.9346</b>	ng/L
Fe-Precon	56	2645	6251	3605.597529	<b>34.8756</b>	ng/L
Fe-Precon	57	143	255	112.578049	<b>38.5972</b>	ng/L
Co-Precon	59	98	43	-54.747023	<b>-0.0257</b>	ng/L
Ni-Precon	60	66	122	56.066581	<b>2.5852</b>	ng/L
Cu-Precon	63	280	211	-68.912519	<b>-0.0979</b>	ng/L
Cu-Precon	65	139	92	-47.776254	<b>-0.5000</b>	ng/L
Zn-Precon	66	361	123	-238.341043	<b>-6.4845</b>	ng/L
Zn-Precon	68	284	123	-161.035964	<b>-6.5885</b>	ng/L
Cd-Precon	111	4	5	0.602117	<b>0.0843</b>	ng/L
Cd-Precon	114	41	23	-17.778746	<b>-0.0422</b>	ng/L
Pb-Precon	208	56266	48330	-7936.589792	<b>-35.7215</b>	ng/L
Tb-Precon	159	6	8	2.119482		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-DUP2**

**Sample Description: 1000x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 02:59:09

Diluted To Volume (mL): 1000.00

Aliquot Volume (mL): 1

Autosampler Position: 115

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-DUP2.064

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	19212	18712.945521	<b>432029.7569</b>	ng/L
Fe-Precon	54	138	2069	1931.475040	<b>313779.0525</b>	ng/L
Fe-Precon	56	2645	41277	38632.282441	<b>317796.7946</b>	ng/L
Fe-Precon	57	143	1162	1019.078966	<b>320858.9202</b>	ng/L
Co-Precon	59	98	11087	10988.956511	<b>73380.1800</b>	ng/L
Ni-Precon	60	66	25539	25473.333720	<b>832284.7759</b>	ng/L
Cu-Precon	63	280	41575	41295.019333	<b>624234.0219</b>	ng/L
Cu-Precon	65	139	19650	19510.336700	<b>612107.6325</b>	ng/L
Zn-Precon	66	361	26211	25849.679978	<b>1242892.3190</b>	ng/L
Zn-Precon	68	284	17923	17639.171634	<b>1256803.7708</b>	ng/L
Cd-Precon	111	4	6195	6190.572692	<b>274151.8087</b>	ng/L
Cd-Precon	114	41	15573	15532.473103	<b>275639.8716</b>	ng/L
Pb-Precon	208	56266	154794	98527.383198	<b>313632.7021</b>	ng/L
Tb-Precon	159	6	7	1.312556		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 03:12:20  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.065  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	133	-365.499268	<b>2.5894</b>	ng/L
Fe-Precon	54	138	239	101.482199	<b>22.8660</b>	ng/L
Fe-Precon	56	2645	4491	1846.399550	<b>20.6660</b>	ng/L
Fe-Precon	57	143	185	42.868540	<b>16.8914</b>	ng/L
Co-Precon	59	98	41	-56.693350	<b>-0.0387</b>	ng/L
Ni-Precon	60	66	121	54.965344	<b>2.5492</b>	ng/L
Cu-Precon	63	280	267	-12.570523	<b>0.7525</b>	ng/L
Cu-Precon	65	139	128	-11.876019	<b>0.6245</b>	ng/L
Zn-Precon	66	361	129	-231.878636	<b>-6.1751</b>	ng/L
Zn-Precon	68	284	131	-152.474687	<b>-5.9809</b>	ng/L
Cd-Precon	111	4	7	2.876252	<b>0.1850</b>	ng/L
Cd-Precon	114	41	15	-25.503531	<b>-0.1791</b>	ng/L
Pb-Precon	208	56266	50729	-5537.058750	<b>-27.8476</b>	ng/L
Tb-Precon	159	6	7	0.443292		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1230005-01RE4**

**Sample Description: 500x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 03:25:32

Diluted To Volume (mL): 500.00

Aliquot Volume (mL): 1

Autosampler Position: 116

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1230005-01RE4.066

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	37962	37463.428151	<b>427043.9851</b>	ng/L
Fe-Precon	54	138	4113	3975.073752	<b>319324.4766</b>	ng/L
Fe-Precon	56	2645	80894	78248.932509	<b>318896.2882</b>	ng/L
Fe-Precon	57	143	2161	2018.203682	<b>315980.7113</b>	ng/L
Co-Precon	59	98	21823	21724.784326	<b>72369.8362</b>	ng/L
Ni-Precon	60	66	50822	50756.060816	<b>828796.2736</b>	ng/L
Cu-Precon	63	280	81605	81324.702306	<b>614213.6214</b>	ng/L
Cu-Precon	65	139	38467	38327.506762	<b>600753.5564</b>	ng/L
Zn-Precon	66	361	51896	51535.253073	<b>1236497.8077</b>	ng/L
Zn-Precon	68	284	35156	34871.655060	<b>1239950.5712</b>	ng/L
Cd-Precon	111	4	12671	12666.251133	<b>280434.6738</b>	ng/L
Cd-Precon	114	41	31880	31839.557388	<b>282369.6946</b>	ng/L
Pb-Precon	208	56266	189861	133594.968609	<b>214352.2928</b>	ng/L
Tb-Precon	159	6	6	0.301300		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 03:38:43  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.067  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	244	-254.839514	<b>5.0802</b>	ng/L
Fe-Precon	54	138	304	165.976736	<b>33.1186</b>	ng/L
Fe-Precon	56	2645	6152	3507.230417	<b>34.0810</b>	ng/L
Fe-Precon	57	143	245	102.222598	<b>35.3727</b>	ng/L
Co-Precon	59	98	34	-64.360926	<b>-0.0896</b>	ng/L
Ni-Precon	60	66	194	128.657216	<b>4.9548</b>	ng/L
Cu-Precon	63	280	471	191.252990	<b>3.8290</b>	ng/L
Cu-Precon	65	139	237	97.766079	<b>4.0588</b>	ng/L
Zn-Precon	66	361	126	-234.846686	<b>-6.3172</b>	ng/L
Zn-Precon	68	284	121	-162.760587	<b>-6.7110</b>	ng/L
Cd-Precon	111	4	7	2.463239	<b>0.1667</b>	ng/L
Cd-Precon	114	41	22	-18.912205	<b>-0.0623</b>	ng/L
Pb-Precon	208	56266	53303	-2962.971106	<b>-19.4010</b>	ng/L
Tb-Precon	159	6	7	0.727273		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-DUP3**

**Sample Description: 500x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 03:51:54

Diluted To Volume (mL): 500.00

Aliquot Volume (mL): 1

Autosampler Position: 117

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-DUP3.068

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	38572	38073.051314	<b>433905.0475</b>	ng/L
Fe-Precon	54	138	4046	3908.003892	<b>313993.4449</b>	ng/L
Fe-Precon	56	2645	80105	77459.654352	<b>315708.6679</b>	ng/L
Fe-Precon	57	143	2121	1978.156189	<b>309745.8163</b>	ng/L
Co-Precon	59	98	21880	21782.333331	<b>72561.0962</b>	ng/L
Ni-Precon	60	66	51085	51019.580920	<b>833097.3363</b>	ng/L
Cu-Precon	63	280	80991	80711.546274	<b>609586.2462</b>	ng/L
Cu-Precon	65	139	38569	38429.517517	<b>602351.1687</b>	ng/L
Zn-Precon	66	361	52092	51730.822607	<b>1241180.8009</b>	ng/L
Zn-Precon	68	284	35415	35130.717780	<b>1249144.2237</b>	ng/L
Cd-Precon	111	4	12559	12555.130318	<b>277974.6778</b>	ng/L
Cd-Precon	114	41	31583	31542.603242	<b>279737.4245</b>	ng/L
Pb-Precon	208	56266	193061	136794.528498	<b>219601.8613</b>	ng/L
Tb-Precon	159	6	8	1.863207		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 04:05:05  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.069  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	224	-274.421152	<b>4.6395</b>	ng/L
Fe-Precon	54	138	290	152.054201	<b>30.9054</b>	ng/L
Fe-Precon	56	2645	5768	3122.957577	<b>30.9771</b>	ng/L
Fe-Precon	57	143	227	84.005643	<b>29.7004</b>	ng/L
Co-Precon	59	98	44	-54.542697	<b>-0.0244</b>	ng/L
Ni-Precon	60	66	188	122.603533	<b>4.7572</b>	ng/L
Cu-Precon	63	280	347	67.195637	<b>1.9565</b>	ng/L
Cu-Precon	65	139	174	34.283062	<b>2.0703</b>	ng/L
Zn-Precon	66	361	118	-242.940307	<b>-6.7048</b>	ng/L
Zn-Precon	68	284	104	-180.277753	<b>-7.9543</b>	ng/L
Cd-Precon	111	4	7	3.024661	<b>0.1915</b>	ng/L
Cd-Precon	114	41	18	-22.463717	<b>-0.1252</b>	ng/L
Pb-Precon	208	56266	57538	1271.500657	<b>-5.5058</b>	ng/L
Tb-Precon	159	6	7	1.132469		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 04:18:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV2.070

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	12043	11544.185205	<b>270.6668</b>	ng/L
Fe-Precon	54	138	3015	2877.706157	<b>464.2010</b>	ng/L
Fe-Precon	56	2645	60750	58105.085386	<b>475.0846</b>	ng/L
Fe-Precon	57	143	1656	1513.801936	<b>474.9033</b>	ng/L
Co-Precon	59	98	15215	15117.325295	<b>100.8208</b>	ng/L
Ni-Precon	60	66	3040	2973.787689	<b>97.8288</b>	ng/L
Cu-Precon	63	280	6732	6452.298115	<b>98.3309</b>	ng/L
Cu-Precon	65	139	3279	3139.143329	<b>99.3221</b>	ng/L
Zn-Precon	66	361	10697	10336.262492	<b>499.9420</b>	ng/L
Zn-Precon	68	284	7273	6988.960408	<b>500.8915</b>	ng/L
Cd-Precon	111	4	2285	2281.030863	<b>101.0527</b>	ng/L
Cd-Precon	114	41	5674	5633.066326	<b>100.1386</b>	ng/L
Pb-Precon	208	56266	171585	115318.537164	<b>368.7317</b>	ng/L
Tb-Precon	159	6	7	0.969699		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 04:31:28  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.071  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	96	-402.365703	<b>1.7595</b>	ng/L
Fe-Precon	54	138	253	115.775425	<b>25.1382</b>	ng/L
Fe-Precon	56	2645	4827	2182.463155	<b>23.3805</b>	ng/L
Fe-Precon	57	143	199	56.226402	<b>21.0507</b>	ng/L
Co-Precon	59	98	42	-55.986858	<b>-0.0340</b>	ng/L
Ni-Precon	60	66	50	-15.951635	<b>0.2343</b>	ng/L
Cu-Precon	63	280	183	-96.774711	<b>-0.5184</b>	ng/L
Cu-Precon	65	139	99	-40.157056	<b>-0.2613</b>	ng/L
Zn-Precon	66	361	118	-243.085802	<b>-6.7118</b>	ng/L
Zn-Precon	68	284	110	-173.849927	<b>-7.4980</b>	ng/L
Cd-Precon	111	4	9	4.744247	<b>0.2677</b>	ng/L
Cd-Precon	114	41	19	-22.055626	<b>-0.1180</b>	ng/L
Pb-Precon	208	56266	57403	1136.099723	<b>-5.9501</b>	ng/L
Tb-Precon	159	6	8	1.818185		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 04:44:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB2.072

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	53	-445.469299	<b>0.7893</b>	ng/L
Fe-Precon	54	138	134	-3.581010	<b>6.1641</b>	ng/L
Fe-Precon	56	2645	2509	-136.211947	<b>4.6518</b>	ng/L
Fe-Precon	57	143	137	-5.122227	<b>1.9482</b>	ng/L
Co-Precon	59	98	60	-37.953789	<b>0.0859</b>	ng/L
Ni-Precon	60	66	61	-4.924706	<b>0.5942</b>	ng/L
Cu-Precon	63	280	254	-26.353016	<b>0.5445</b>	ng/L
Cu-Precon	65	139	116	-23.855066	<b>0.2493</b>	ng/L
Zn-Precon	66	361	238	-123.173300	<b>-0.9691</b>	ng/L
Zn-Precon	68	284	180	-103.727841	<b>-2.5210</b>	ng/L
Cd-Precon	111	4	6	2.037296	<b>0.1478</b>	ng/L
Cd-Precon	114	41	51	10.538928	<b>0.4599</b>	ng/L
Pb-Precon	208	56266	155179	98912.183418	<b>314.8954</b>	ng/L
Tb-Precon	159	6	4	-1.755846		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 04:57:51  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.073  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	24	-474.844392	<b>0.1281</b>	ng/L
Fe-Precon	54	138	114	-23.990149	<b>2.9197</b>	ng/L
Fe-Precon	56	2645	2051	-594.129253	<b>0.9531</b>	ng/L
Fe-Precon	57	143	127	-15.962295	<b>-1.4271</b>	ng/L
Co-Precon	59	98	32	-66.210278	<b>-0.1019</b>	ng/L
Ni-Precon	60	66	39	-26.649555	<b>-0.1149</b>	ng/L
Cu-Precon	63	280	149	-130.995815	<b>-1.0349</b>	ng/L
Cu-Precon	65	139	74	-65.213672	<b>-1.0462</b>	ng/L
Zn-Precon	66	361	116	-244.959313	<b>-6.8015</b>	ng/L
Zn-Precon	68	284	109	-175.217904	<b>-7.5951</b>	ng/L
Cd-Precon	111	4	7	2.594390	<b>0.1725</b>	ng/L
Cd-Precon	114	41	22	-18.588588	<b>-0.0565</b>	ng/L
Pb-Precon	208	56266	59205	2939.007236	<b>-0.0340</b>	ng/L
Tb-Precon	159	6	7	1.212123		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1229011-02RE1**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 05:11:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 118

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1229011-02RE1.074

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	434	-64.786626	<b>9.3582</b>	ng/L
Fe-Precon	54	138	415	277.777724	<b>50.8916</b>	ng/L
Fe-Precon	56	2645	8273	5628.364320	<b>51.2141</b>	ng/L
Fe-Precon	57	143	289	146.554120	<b>49.1765</b>	ng/L
Co-Precon	59	98	96	-2.122901	<b>0.3241</b>	ng/L
Ni-Precon	60	66	68	1.970640	<b>0.8193</b>	ng/L
Cu-Precon	63	280	356	76.055984	<b>2.0902</b>	ng/L
Cu-Precon	65	139	157	17.497351	<b>1.5445</b>	ng/L
Zn-Precon	66	361	8162	7800.763581	<b>378.5148</b>	ng/L
Zn-Precon	68	284	5619	5335.354716	<b>383.5248</b>	ng/L
Cd-Precon	111	4	8	4.142201	<b>0.2410</b>	ng/L
Cd-Precon	114	41	24	-16.529158	<b>-0.0200</b>	ng/L
Pb-Precon	208	56266	157406	101139.409079	<b>322.2039</b>	ng/L
Tb-Precon	159	6	7	1.295241		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 05:24:13  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.075  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	27	-472.160402	<b>0.1885</b>	ng/L
Fe-Precon	54	138	118	-19.955480	<b>3.5611</b>	ng/L
Fe-Precon	56	2645	2373	-271.868651	<b>3.5561</b>	ng/L
Fe-Precon	57	143	137	-5.530916	<b>1.8210</b>	ng/L
Co-Precon	59	98	38	-59.848349	<b>-0.0596</b>	ng/L
Ni-Precon	60	66	38	-27.830505	<b>-0.1535</b>	ng/L
Cu-Precon	63	280	145	-134.968123	<b>-1.0949</b>	ng/L
Cu-Precon	65	139	67	-72.507323	<b>-1.2746</b>	ng/L
Zn-Precon	66	361	118	-243.082322	<b>-6.7116</b>	ng/L
Zn-Precon	68	284	108	-176.305356	<b>-7.6723</b>	ng/L
Cd-Precon	111	4	6	2.050049	<b>0.1484</b>	ng/L
Cd-Precon	114	41	18	-22.774147	<b>-0.1307</b>	ng/L
Pb-Precon	208	56266	61077	4810.237342	<b>6.1063</b>	ng/L
Tb-Precon	159	6	7	0.865802		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1229011-03RE1**

**Sample Description:**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 05:37:24

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 119

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1229011-03RE1.076

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	115	-383.941093	<b>2.1743</b>	ng/L
Fe-Precon	54	138	412	274.164306	<b>50.3172</b>	ng/L
Fe-Precon	56	2645	8210	5564.703269	<b>50.6999</b>	ng/L
Fe-Precon	57	143	292	149.553035	<b>50.1102</b>	ng/L
Co-Precon	59	98	99	0.502177	<b>0.3415</b>	ng/L
Ni-Precon	60	66	58	-7.813059	<b>0.5000</b>	ng/L
Cu-Precon	63	280	461	181.302325	<b>3.6788</b>	ng/L
Cu-Precon	65	139	222	83.020598	<b>3.5969</b>	ng/L
Zn-Precon	66	361	9219	8857.501046	<b>429.1228</b>	ng/L
Zn-Precon	68	284	6298	6014.462420	<b>431.7253</b>	ng/L
Cd-Precon	111	4	10	5.723315	<b>0.3110</b>	ng/L
Cd-Precon	114	41	23	-17.786903	<b>-0.0423</b>	ng/L
Pb-Precon	208	56266	154915	98649.029490	<b>314.0319</b>	ng/L
Tb-Precon	159	6	7	1.212123		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 05:50:35  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.077  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	20	-478.865194	<b>0.0376</b>	ng/L
Fe-Precon	54	138	149	11.439264	<b>8.5519</b>	ng/L
Fe-Precon	56	2645	2918	272.918066	<b>7.9565</b>	ng/L
Fe-Precon	57	143	149	6.303073	<b>5.5058</b>	ng/L
Co-Precon	59	98	39	-59.370425	<b>-0.0564</b>	ng/L
Ni-Precon	60	66	32	-34.123170	<b>-0.3589</b>	ng/L
Cu-Precon	63	280	151	-128.460662	<b>-0.9967</b>	ng/L
Cu-Precon	65	139	67	-72.711621	<b>-1.2810</b>	ng/L
Zn-Precon	66	361	114	-246.601051	<b>-6.8801</b>	ng/L
Zn-Precon	68	284	117	-167.030813	<b>-7.0140</b>	ng/L
Cd-Precon	111	4	7	2.934926	<b>0.1876</b>	ng/L
Cd-Precon	114	41	16	-25.120028	<b>-0.1723</b>	ng/L
Pb-Precon	208	56266	62633	6366.832415	<b>11.2142</b>	ng/L
Tb-Precon	159	6	8	1.593076		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1229011-01RE1**

**Sample Description: 5x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 06:03:46

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 120

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1229011-01RE1.078

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	52030	51530.761518	<b>5853.6614</b>	ng/L
Fe-Precon	54	138	11815	11677.335335	<b>9315.3688</b>	ng/L
Fe-Precon	56	2645	239801	237155.611721	<b>9606.6518</b>	ng/L
Fe-Precon	57	143	6183	6039.959611	<b>9421.1793</b>	ng/L
Co-Precon	59	98	4808	4709.501254	<b>158.2078</b>	ng/L
Ni-Precon	60	66	4569	4503.307633	<b>738.7857</b>	ng/L
Cu-Precon	63	280	8847	8566.653398	<b>651.2209</b>	ng/L
Cu-Precon	65	139	4304	4164.663492	<b>657.2193</b>	ng/L
Zn-Precon	66	361	2471	2110.368233	<b>529.9854</b>	ng/L
Zn-Precon	68	284	1568	1284.319339	<b>479.9869</b>	ng/L
Cd-Precon	111	4	713	708.266792	<b>157.0845</b>	ng/L
Cd-Precon	114	41	1849	1807.703348	<b>161.6041</b>	ng/L
Pb-Precon	208	56266	165875	109608.491993	<b>1749.9730</b>	ng/L
Tb-Precon	159	6	298	291.428216		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 06:16:57  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.079  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	180	-319.167397	<b>3.6323</b>	ng/L
Fe-Precon	54	138	196	58.328918	<b>16.0059</b>	ng/L
Fe-Precon	56	2645	3823	1177.780231	<b>15.2653</b>	ng/L
Fe-Precon	57	143	181	38.110002	<b>15.4097</b>	ng/L
Co-Precon	59	98	38	-59.986886	<b>-0.0605</b>	ng/L
Ni-Precon	60	66	36	-29.607129	<b>-0.2115</b>	ng/L
Cu-Precon	63	280	144	-135.761300	<b>-1.1068</b>	ng/L
Cu-Precon	65	139	73	-66.644079	<b>-1.0910</b>	ng/L
Zn-Precon	66	361	115	-246.140383	<b>-6.8581</b>	ng/L
Zn-Precon	68	284	111	-172.554694	<b>-7.4061</b>	ng/L
Cd-Precon	111	4	5	1.115899	<b>0.1070</b>	ng/L
Cd-Precon	114	41	13	-27.742313	<b>-0.2188</b>	ng/L
Pb-Precon	208	56266	64981	8714.879081	<b>18.9191</b>	ng/L
Tb-Precon	159	6	11	4.380960		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-DUP1**

**Sample Description: 5x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 06:30:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 121

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-DUP1.080

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	52363	51863.933984	<b>5891.1586</b>	ng/L
Fe-Precon	54	138	11900	11762.149452	<b>9382.7831</b>	ng/L
Fe-Precon	56	2645	240440	237795.433193	<b>9632.4919</b>	ng/L
Fe-Precon	57	143	6181	6038.070594	<b>9418.2383</b>	ng/L
Co-Precon	59	98	4853	4754.795390	<b>159.7131</b>	ng/L
Ni-Precon	60	66	4596	4530.279236	<b>743.1879</b>	ng/L
Cu-Precon	63	280	8808	8528.462059	<b>648.3387</b>	ng/L
Cu-Precon	65	139	4270	4131.020363	<b>651.9504</b>	ng/L
Zn-Precon	66	361	2431	2069.770657	<b>520.2642</b>	ng/L
Zn-Precon	68	284	1536	1251.976320	<b>468.5090</b>	ng/L
Cd-Precon	111	4	711	706.603398	<b>156.7162</b>	ng/L
Cd-Precon	114	41	1870	1829.387702	<b>163.5262</b>	ng/L
Pb-Precon	208	56266	171472	115205.389628	<b>1841.8022</b>	ng/L
Tb-Precon	159	6	306	299.619274		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 06:43:18  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.081  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	182	-317.175913	<b>3.6771</b>	ng/L
Fe-Precon	54	138	190	52.309733	<b>15.0491</b>	ng/L
Fe-Precon	56	2645	3834	1189.477432	<b>15.3598</b>	ng/L
Fe-Precon	57	143	169	26.043890	<b>11.6526</b>	ng/L
Co-Precon	59	98	37	-60.679522	<b>-0.0652</b>	ng/L
Ni-Precon	60	66	37	-28.737872	<b>-0.1831</b>	ng/L
Cu-Precon	63	280	154	-126.212870	<b>-0.9627</b>	ng/L
Cu-Precon	65	139	72	-67.495945	<b>-1.1176</b>	ng/L
Zn-Precon	66	361	109	-252.104001	<b>-7.1437</b>	ng/L
Zn-Precon	68	284	101	-182.861350	<b>-8.1376</b>	ng/L
Cd-Precon	111	4	6	1.404608	<b>0.1198</b>	ng/L
Cd-Precon	114	41	17	-23.815520	<b>-0.1492</b>	ng/L
Pb-Precon	208	56266	65467	9200.201875	<b>20.5117</b>	ng/L
Tb-Precon	159	6	7	0.990478		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-MS1**

**Sample Description: 5x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 06:56:28

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 122

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-MS1.082

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	206337	205838.672068	<b>23220.3933</b>	ng/L
Fe-Precon	54	138	57604	57466.296285	<b>45710.6139</b>	ng/L
Fe-Precon	56	2645	1133380	1130735.160258	<b>45695.2264</b>	ng/L
Fe-Precon	57	143	29502	29359.739686	<b>45727.1670</b>	ng/L
Co-Precon	59	98	208821	208722.752290	<b>6938.4404</b>	ng/L
Ni-Precon	60	66	45294	45228.468428	<b>7385.7727</b>	ng/L
Cu-Precon	63	280	97151	96871.161459	<b>7315.3987</b>	ng/L
Cu-Precon	65	139	46459	46319.722578	<b>7259.2136</b>	ng/L
Zn-Precon	66	361	143963	143601.792606	<b>34410.6909</b>	ng/L
Zn-Precon	68	284	96789	96505.420942	<b>34272.1793</b>	ng/L
Cd-Precon	111	4	32373	32369.112789	<b>7166.1723</b>	ng/L
Cd-Precon	114	41	80675	80633.756772	<b>7148.9274</b>	ng/L
Pb-Precon	208	56266	586495	530228.101771	<b>8651.1454</b>	ng/L
Tb-Precon	159	6	299	292.855394		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 07:09:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.083

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1157	657.868186	<b>25.6246</b>	ng/L
Fe-Precon	54	138	657	519.289010	<b>89.2845</b>	ng/L
Fe-Precon	56	2645	12507	9861.999837	<b>85.4104</b>	ng/L
Fe-Precon	57	143	402	259.169210	<b>84.2420</b>	ng/L
Co-Precon	59	98	45	-53.147009	<b>-0.0151</b>	ng/L
Ni-Precon	60	66	131	64.797513	<b>2.8702</b>	ng/L
Cu-Precon	63	280	387	106.866013	<b>2.5553</b>	ng/L
Cu-Precon	65	139	177	37.673679	<b>2.1765</b>	ng/L
Zn-Precon	66	361	123	-237.818045	<b>-6.4595</b>	ng/L
Zn-Precon	68	284	111	-173.101734	<b>-7.4449</b>	ng/L
Cd-Precon	111	4	12	7.503557	<b>0.3899</b>	ng/L
Cd-Precon	114	41	19	-21.807475	<b>-0.1136</b>	ng/L
Pb-Precon	208	56266	68860	12593.802082	<b>31.6475</b>	ng/L
Tb-Precon	159	6	10	3.518620		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121396-MSD1**

**Sample Description: 5x**

**Batch ID: B121396**

Sample Date/Time: Saturday, August 11, 2012 07:22:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 123

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121396-MSD1.084

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	294210	293711.582951	<b>33110.1344</b>	ng/L
Fe-Precon	54	138	81401	81263.707633	<b>64625.9288</b>	ng/L
Fe-Precon	56	2645	1613412	1610767.356925	<b>65082.0597</b>	ng/L
Fe-Precon	57	143	41868	41725.238134	<b>64978.7051</b>	ng/L
Co-Precon	59	98	315821	315722.610651	<b>10494.5032</b>	ng/L
Ni-Precon	60	66	67668	67602.575711	<b>11037.5790</b>	ng/L
Cu-Precon	63	280	145121	144840.691205	<b>10935.5704</b>	ng/L
Cu-Precon	65	139	69129	68989.174346	<b>10809.5251</b>	ng/L
Zn-Precon	66	361	220939	220578.062994	<b>52842.9766</b>	ng/L
Zn-Precon	68	284	148613	148328.905680	<b>52663.3672</b>	ng/L
Cd-Precon	111	4	48763	48758.867046	<b>10794.5412</b>	ng/L
Cd-Precon	114	41	121477	121435.834517	<b>10765.7177</b>	ng/L
Pb-Precon	208	56266	788592	732325.429266	<b>11966.9882</b>	ng/L
Tb-Precon	159	6	316	310.102808		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 07:36:00  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.085  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1540	1041.164694	<b>34.2522</b>	ng/L
Fe-Precon	54	138	931	793.500218	<b>132.8757</b>	ng/L
Fe-Precon	56	2645	18582	15936.662020	<b>134.4773</b>	ng/L
Fe-Precon	57	143	570	427.813182	<b>136.7535</b>	ng/L
Co-Precon	59	98	57	-41.583292	<b>0.0618</b>	ng/L
Ni-Precon	60	66	175	108.971837	<b>4.3122</b>	ng/L
Cu-Precon	63	280	674	393.640670	<b>6.8837</b>	ng/L
Cu-Precon	65	139	317	177.836558	<b>6.5668</b>	ng/L
Zn-Precon	66	361	137	-223.618664	<b>-5.7795</b>	ng/L
Zn-Precon	68	284	128	-155.404612	<b>-6.1889</b>	ng/L
Cd-Precon	111	4	9	4.285960	<b>0.2474</b>	ng/L
Cd-Precon	114	41	23	-17.386942	<b>-0.0352</b>	ng/L
Pb-Precon	208	56266	72001	15734.449635	<b>41.9534</b>	ng/L
Tb-Precon	159	6	8	1.967101		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV3**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 07:49:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV3.086

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	11868	11369.382444	<b>266.7321</b>	ng/L
Fe-Precon	54	138	3019	2881.274213	<b>464.7682</b>	ng/L
Fe-Precon	56	2645	60037	57392.476556	<b>469.3286</b>	ng/L
Fe-Precon	57	143	1639	1496.441343	<b>469.4977</b>	ng/L
Co-Precon	59	98	14910	14811.935618	<b>98.7910</b>	ng/L
Ni-Precon	60	66	2960	2894.000918	<b>95.2243</b>	ng/L
Cu-Precon	63	280	6743	6463.476372	<b>98.4996</b>	ng/L
Cu-Precon	65	139	3230	3090.913400	<b>97.8114</b>	ng/L
Zn-Precon	66	361	10611	10249.880211	<b>495.8050</b>	ng/L
Zn-Precon	68	284	7106	6822.581799	<b>489.0826</b>	ng/L
Cd-Precon	111	4	2307	2302.877145	<b>102.0200</b>	ng/L
Cd-Precon	114	41	5689	5648.036193	<b>100.4040</b>	ng/L
Pb-Precon	208	56266	216499	160232.817199	<b>516.1149</b>	ng/L
Tb-Precon	159	6	11	5.129011		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 08:02:23  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.087  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	281	-217.850629	<b>5.9128</b>	ng/L
Fe-Precon	54	138	258	120.246393	<b>25.8489</b>	ng/L
Fe-Precon	56	2645	4961	2316.119981	<b>24.4601</b>	ng/L
Fe-Precon	57	143	201	58.294144	<b>21.6945</b>	ng/L
Co-Precon	59	98	43	-54.643128	<b>-0.0250</b>	ng/L
Ni-Precon	60	66	55	-10.559374	<b>0.4103</b>	ng/L
Cu-Precon	63	280	258	-21.445993	<b>0.6186</b>	ng/L
Cu-Precon	65	139	118	-21.250899	<b>0.3309</b>	ng/L
Zn-Precon	66	361	118	-243.085667	<b>-6.7118</b>	ng/L
Zn-Precon	68	284	111	-172.519955	<b>-7.4036</b>	ng/L
Cd-Precon	111	4	5	1.161460	<b>0.1091</b>	ng/L
Cd-Precon	114	41	18	-22.952646	<b>-0.1339</b>	ng/L
Pb-Precon	208	56266	75828	19561.197030	<b>54.5106</b>	ng/L
Tb-Precon	159	6	7	0.851950		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 08:15:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB3.088

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	292	-206.410428	<b>6.1703</b>	ng/L
Fe-Precon	54	138	152	14.677560	<b>9.0667</b>	ng/L
Fe-Precon	56	2645	2851	205.747809	<b>7.4139</b>	ng/L
Fe-Precon	57	143	157	14.666896	<b>8.1101</b>	ng/L
Co-Precon	59	98	67	-31.231655	<b>0.1306</b>	ng/L
Ni-Precon	60	66	66	0.076200	<b>0.7575</b>	ng/L
Cu-Precon	63	280	298	17.938544	<b>1.2130</b>	ng/L
Cu-Precon	65	139	147	7.588392	<b>1.2342</b>	ng/L
Zn-Precon	66	361	232	-128.849815	<b>-1.2409</b>	ng/L
Zn-Precon	68	284	205	-78.646489	<b>-0.7408</b>	ng/L
Cd-Precon	111	4	7	2.481408	<b>0.1675</b>	ng/L
Cd-Precon	114	41	41	0.345122	<b>0.2791</b>	ng/L
Pb-Precon	208	56266	191624	135357.272623	<b>434.4875</b>	ng/L
Tb-Precon	159	6	6	-0.585281		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 08:28:46  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.089  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	133	-365.932065	<b>2.5796</b>	ng/L
Fe-Precon	54	138	115	-22.237721	<b>3.1983</b>	ng/L
Fe-Precon	56	2645	2223	-422.351016	<b>2.3406</b>	ng/L
Fe-Precon	57	143	132	-10.071252	<b>0.4072</b>	ng/L
Co-Precon	59	98	43	-54.660442	<b>-0.0251</b>	ng/L
Ni-Precon	60	66	39	-26.642615	<b>-0.1147</b>	ng/L
Cu-Precon	63	280	172	-107.538625	<b>-0.6809</b>	ng/L
Cu-Precon	65	139	80	-59.333023	<b>-0.8620</b>	ng/L
Zn-Precon	66	361	115	-246.362027	<b>-6.8687</b>	ng/L
Zn-Precon	68	284	99	-184.360852	<b>-8.2441</b>	ng/L
Cd-Precon	111	4	6	1.499118	<b>0.1240</b>	ng/L
Cd-Precon	114	41	19	-22.130546	<b>-0.1193</b>	ng/L
Pb-Precon	208	56266	75905	19638.200715	<b>54.7632</b>	ng/L
Tb-Precon	159	6	7	1.201734		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-BLK1**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 08:41:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 124

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-BLK1.090

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	190	-309.279144	<b>3.8548</b>	ng/L
Fe-Precon	54	138	209	71.666380	<b>18.1262</b>	ng/L
Fe-Precon	56	2645	4040	1394.779573	<b>17.0181</b>	ng/L
Fe-Precon	57	143	186	43.893757	<b>17.2106</b>	ng/L
Co-Precon	59	98	65	-32.907870	<b>0.1194</b>	ng/L
Ni-Precon	60	66	82	15.816705	<b>1.2713</b>	ng/L
Cu-Precon	63	280	309	29.515639	<b>1.3878</b>	ng/L
Cu-Precon	65	139	151	11.287156	<b>1.3500</b>	ng/L
Zn-Precon	66	361	183	-178.290348	<b>-3.6087</b>	ng/L
Zn-Precon	68	284	152	-132.321710	<b>-4.5505</b>	ng/L
Cd-Precon	111	4	7	3.095387	<b>0.1947</b>	ng/L
Cd-Precon	114	41	23	-17.951581	<b>-0.0452</b>	ng/L
Pb-Precon	208	56266	204103	147836.841379	<b>475.4383</b>	ng/L
Tb-Precon	159	6	6	0.263203		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 08:55:08  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.091  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	96	-403.072196	<b>1.7436</b>	ng/L
Fe-Precon	54	138	103	-34.244869	<b>1.2895</b>	ng/L
Fe-Precon	56	2645	2114	-530.806748	<b>1.4646</b>	ng/L
Fe-Precon	57	143	124	-18.684415	<b>-2.2747</b>	ng/L
Co-Precon	59	98	41	-57.140100	<b>-0.0416</b>	ng/L
Ni-Precon	60	66	36	-29.555185	<b>-0.2098</b>	ng/L
Cu-Precon	63	280	157	-122.635158	<b>-0.9087</b>	ng/L
Cu-Precon	65	139	71	-68.032759	<b>-1.1345</b>	ng/L
Zn-Precon	66	361	128	-233.485385	<b>-6.2520</b>	ng/L
Zn-Precon	68	284	117	-167.158989	<b>-7.0231</b>	ng/L
Cd-Precon	111	4	8	3.612599	<b>0.2176</b>	ng/L
Cd-Precon	114	41	20	-20.575943	<b>-0.0918</b>	ng/L
Pb-Precon	208	56266	78131	21864.564012	<b>62.0689</b>	ng/L
Tb-Precon	159	6	8	1.963639		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-BLK2**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 09:08:20

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 125

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-BLK2.092

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	154	-344.792040	<b>3.0555</b>	ng/L
Fe-Precon	54	138	399	261.107810	<b>48.2416</b>	ng/L
Fe-Precon	56	2645	7823	5177.835686	<b>47.5750</b>	ng/L
Fe-Precon	57	143	277	134.709123	<b>45.4882</b>	ng/L
Co-Precon	59	98	61	-37.004891	<b>0.0922</b>	ng/L
Ni-Precon	60	66	85	19.144885	<b>1.3800</b>	ng/L
Cu-Precon	63	280	278	-1.894838	<b>0.9137</b>	ng/L
Cu-Precon	65	139	124	-15.598535	<b>0.5079</b>	ng/L
Zn-Precon	66	361	205	-156.360395	<b>-2.5584</b>	ng/L
Zn-Precon	68	284	170	-113.730515	<b>-3.2310</b>	ng/L
Cd-Precon	111	4	11	6.238534	<b>0.3338</b>	ng/L
Cd-Precon	114	41	19	-21.903400	<b>-0.1153</b>	ng/L
Pb-Precon	208	56266	212724	156457.959113	<b>503.7279</b>	ng/L
Tb-Precon	159	6	7	0.768833		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 09:21:31  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.093  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	71	-427.848323	<b>1.1860</b>	ng/L
Fe-Precon	54	138	103	-34.968710	<b>1.1744</b>	ng/L
Fe-Precon	56	2645	2081	-563.750542	<b>1.1985</b>	ng/L
Fe-Precon	57	143	122	-21.025539	<b>-3.0037</b>	ng/L
Co-Precon	59	98	41	-56.703753	<b>-0.0387</b>	ng/L
Ni-Precon	60	66	33	-32.710187	<b>-0.3128</b>	ng/L
Cu-Precon	63	280	139	-140.606193	<b>-1.1800</b>	ng/L
Cu-Precon	65	139	67	-72.261429	<b>-1.2669</b>	ng/L
Zn-Precon	66	361	123	-238.205940	<b>-6.4781</b>	ng/L
Zn-Precon	68	284	116	-168.017801	<b>-7.0841</b>	ng/L
Cd-Precon	111	4	6	2.019804	<b>0.1471</b>	ng/L
Cd-Precon	114	41	17	-24.015920	<b>-0.1527</b>	ng/L
Pb-Precon	208	56266	80753	24486.164902	<b>70.6715</b>	ng/L
Tb-Precon	159	6	6	-0.277057		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-BLK3**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 09:34:42

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 126

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-BLK3.094

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	183	-316.205890	<b>3.6989</b>	ng/L
Fe-Precon	54	138	1145	1006.986298	<b>166.8135</b>	ng/L
Fe-Precon	56	2645	22558	19913.477737	<b>166.5993</b>	ng/L
Fe-Precon	57	143	639	496.201020	<b>158.0478</b>	ng/L
Co-Precon	59	98	65	-33.084441	<b>0.1183</b>	ng/L
Ni-Precon	60	66	97	30.850680	<b>1.7621</b>	ng/L
Cu-Precon	63	280	311	31.545430	<b>1.4184</b>	ng/L
Cu-Precon	65	139	145	5.974456	<b>1.1836</b>	ng/L
Zn-Precon	66	361	232	-129.459796	<b>-1.2701</b>	ng/L
Zn-Precon	68	284	179	-105.061520	<b>-2.6157</b>	ng/L
Cd-Precon	111	4	6	1.876244	<b>0.1407</b>	ng/L
Cd-Precon	114	41	19	-22.099927	<b>-0.1188</b>	ng/L
Pb-Precon	208	56266	219259	162992.719420	<b>525.1713</b>	ng/L
Tb-Precon	159	6	6	0.283985		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 09:47:53  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.095  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	56	-443.131613	<b>0.8419</b>	ng/L
Fe-Precon	54	138	128	-9.413195	<b>5.2370</b>	ng/L
Fe-Precon	56	2645	2720	75.102105	<b>6.3587</b>	ng/L
Fe-Precon	57	143	152	8.994095	<b>6.3437</b>	ng/L
Co-Precon	59	98	38	-59.799874	<b>-0.0593</b>	ng/L
Ni-Precon	60	66	38	-27.262545	<b>-0.1349</b>	ng/L
Cu-Precon	63	280	128	-151.740721	<b>-1.3480</b>	ng/L
Cu-Precon	65	139	70	-69.466570	<b>-1.1794</b>	ng/L
Zn-Precon	66	361	116	-245.541176	<b>-6.8294</b>	ng/L
Zn-Precon	68	284	112	-171.969414	<b>-7.3646</b>	ng/L
Cd-Precon	111	4	6	1.621423	<b>0.1294</b>	ng/L
Cd-Precon	114	41	19	-21.560548	<b>-0.1092</b>	ng/L
Pb-Precon	208	56266	83717	27450.497065	<b>80.3988</b>	ng/L
Tb-Precon	159	6	6	0.242425		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-BLK4**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 10:01:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 127

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-BLK4.096

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	94	-404.852308	<b>1.7036</b>	ng/L
Fe-Precon	54	138	349	211.694751	<b>40.3864</b>	ng/L
Fe-Precon	56	2645	6712	4066.718620	<b>38.6002</b>	ng/L
Fe-Precon	57	143	256	113.582651	<b>38.9100</b>	ng/L
Co-Precon	59	98	58	-39.692336	<b>0.0743</b>	ng/L
Ni-Precon	60	66	104	38.199685	<b>2.0020</b>	ng/L
Cu-Precon	63	280	314	34.249908	<b>1.4592</b>	ng/L
Cu-Precon	65	139	157	17.150524	<b>1.5337</b>	ng/L
Zn-Precon	66	361	278	-82.824976	<b>0.9633</b>	ng/L
Zn-Precon	68	284	214	-70.143973	<b>-0.1374</b>	ng/L
Cd-Precon	111	4	9	4.305002	<b>0.2482</b>	ng/L
Cd-Precon	114	41	21	-19.471910	<b>-0.0722</b>	ng/L
Pb-Precon	208	56266	219588	163321.342530	<b>526.2496</b>	ng/L
Tb-Precon	159	6	5	-0.945455		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 10:14:16  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.097  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	43	-455.502259	<b>0.5635</b>	ng/L
Fe-Precon	54	138	114	-23.224747	<b>3.0414</b>	ng/L
Fe-Precon	56	2645	2253	-392.365967	<b>2.5828</b>	ng/L
Fe-Precon	57	143	135	-7.598516	<b>1.1772</b>	ng/L
Co-Precon	59	98	42	-56.007641	<b>-0.0341</b>	ng/L
Ni-Precon	60	66	36	-29.814930	<b>-0.2182</b>	ng/L
Cu-Precon	63	280	132	-147.629871	<b>-1.2860</b>	ng/L
Cu-Precon	65	139	66	-73.546280	<b>-1.3072</b>	ng/L
Zn-Precon	66	361	126	-235.404247	<b>-6.3439</b>	ng/L
Zn-Precon	68	284	126	-158.265233	<b>-6.3919</b>	ng/L
Cd-Precon	111	4	6	1.821146	<b>0.1383</b>	ng/L
Cd-Precon	114	41	14	-27.195873	<b>-0.2091</b>	ng/L
Pb-Precon	208	56266	87189	30922.539538	<b>91.7920</b>	ng/L
Tb-Precon	159	6	6	0.083118		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-BS1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 10:27:27

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 128

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-BS1.098

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	27005	26505.836730	<b>3037.2072</b>	ng/L
Fe-Precon	54	138	119123	118985.195462	<b>94608.7624</b>	ng/L
Fe-Precon	56	2645	2340414	2337768.755137	<b>94443.1213</b>	ng/L
Fe-Precon	57	143	60774	60631.669706	<b>94413.6599</b>	ng/L
Co-Precon	59	98	56872	56773.748981	<b>1888.5253</b>	ng/L
Ni-Precon	60	66	22900	22834.428948	<b>3730.7131</b>	ng/L
Cu-Precon	63	280	26044	25764.583922	<b>1949.1169</b>	ng/L
Cu-Precon	65	139	12205	12065.926640	<b>1894.6531</b>	ng/L
Zn-Precon	66	361	16278	15917.146601	<b>3836.0755</b>	ng/L
Zn-Precon	68	284	11074	10790.007183	<b>3853.3782</b>	ng/L
Cd-Precon	111	4	840	835.676805	<b>185.2905</b>	ng/L
Cd-Precon	114	41	2671	2630.074730	<b>234.5010</b>	ng/L
Pb-Precon	208	56266	256957	200690.163396	<b>3244.3644</b>	ng/L
Tb-Precon	159	6	42	36.252974		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 10:40:38  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.099  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	121	-378.223339	<b>2.3030</b>	ng/L
Fe-Precon	54	138	3557	3418.982067	<b>550.2473</b>	ng/L
Fe-Precon	56	2645	70550	67904.602822	<b>554.2383</b>	ng/L
Fe-Precon	57	143	1879	1736.192688	<b>544.1502</b>	ng/L
Co-Precon	59	98	42	-55.768677	<b>-0.0325</b>	ng/L
Ni-Precon	60	66	89	23.127547	<b>1.5100</b>	ng/L
Cu-Precon	63	280	263	-17.142146	<b>0.6835</b>	ng/L
Cu-Precon	65	139	126	-13.919287	<b>0.5605</b>	ng/L
Zn-Precon	66	361	136	-225.301724	<b>-5.8601</b>	ng/L
Zn-Precon	68	284	119	-164.374444	<b>-6.8255</b>	ng/L
Cd-Precon	111	4	8	4.116418	<b>0.2399</b>	ng/L
Cd-Precon	114	41	29	-11.539271	<b>0.0684</b>	ng/L
Pb-Precon	208	56266	91664	35397.724512	<b>106.4770</b>	ng/L
Tb-Precon	159	6	7	0.564504		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1228029-01RE1**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 10:53:49

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 129

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1228029-01RE1.100

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	225	-274.209417	<b>4.6442</b>	ng/L
Fe-Precon	54	138	718	580.047169	<b>98.9432</b>	ng/L
Fe-Precon	56	2645	14422	11776.682765	<b>100.8759</b>	ng/L
Fe-Precon	57	143	440	297.547909	<b>96.1922</b>	ng/L
Co-Precon	59	98	250	152.210089	<b>1.3499</b>	ng/L
Ni-Precon	60	66	230	163.941621	<b>6.1066</b>	ng/L
Cu-Precon	63	280	607	326.820249	<b>5.8752</b>	ng/L
Cu-Precon	65	139	291	151.372179	<b>5.7378</b>	ng/L
Zn-Precon	66	361	38317	37956.071236	<b>1822.6774</b>	ng/L
Zn-Precon	68	284	26366	26082.110514	<b>1856.0521</b>	ng/L
Cd-Precon	111	4	10	6.212383	<b>0.3327</b>	ng/L
Cd-Precon	114	41	39	-1.934176	<b>0.2387</b>	ng/L
Pb-Precon	208	56266	236494	180227.099845	<b>581.7247</b>	ng/L
Tb-Precon	159	6	7	1.187880		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 11:07:00  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.101  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	40	-458.304052	<b>0.5004</b>	ng/L
Fe-Precon	54	138	261	123.931536	<b>26.4347</b>	ng/L
Fe-Precon	56	2645	5291	2646.341984	<b>27.1274</b>	ng/L
Fe-Precon	57	143	222	79.278313	<b>28.2285</b>	ng/L
Co-Precon	59	98	37	-61.472604	<b>-0.0704</b>	ng/L
Ni-Precon	60	66	38	-27.383753	<b>-0.1389</b>	ng/L
Cu-Precon	63	280	156	-123.653594	<b>-0.9241</b>	ng/L
Cu-Precon	65	139	71	-68.784314	<b>-1.1580</b>	ng/L
Zn-Precon	66	361	125	-236.200673	<b>-6.3820</b>	ng/L
Zn-Precon	68	284	118	-165.728608	<b>-6.9216</b>	ng/L
Cd-Precon	111	4	6	1.425976	<b>0.1208</b>	ng/L
Cd-Precon	114	41	18	-22.324624	<b>-0.1228</b>	ng/L
Pb-Precon	208	56266	94818	38551.733030	<b>116.8267</b>	ng/L
Tb-Precon	159	6	5	-1.513420		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1228029-02RE1**

**Sample Description:**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 11:20:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 130

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1228029-02RE1.102

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	300	-198.711100	<b>6.3436</b>	ng/L
Fe-Precon	54	138	1621	1483.773775	<b>242.6082</b>	ng/L
Fe-Precon	56	2645	32674	30028.807666	<b>248.3039</b>	ng/L
Fe-Precon	57	143	913	770.310007	<b>243.3985</b>	ng/L
Co-Precon	59	98	574	475.723119	<b>3.5002</b>	ng/L
Ni-Precon	60	66	9461	9395.285758	<b>307.4467</b>	ng/L
Cu-Precon	63	280	20077	19797.061100	<b>299.7518</b>	ng/L
Cu-Precon	65	139	9523	9383.210630	<b>294.9014</b>	ng/L
Zn-Precon	66	361	89345	88983.486093	<b>4266.4224</b>	ng/L
Zn-Precon	68	284	61295	61010.857548	<b>4335.1642</b>	ng/L
Cd-Precon	111	4	448	443.885131	<b>19.7111</b>	ng/L
Cd-Precon	114	41	1154	1112.957406	<b>20.0040</b>	ng/L
Pb-Precon	208	56266	255503	199236.599280	<b>644.1031</b>	ng/L
Tb-Precon	159	6	13	7.255422		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 11:33:22  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.103  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	40	-458.948189	<b>0.4859</b>	ng/L
Fe-Precon	54	138	211	73.560724	<b>18.4273</b>	ng/L
Fe-Precon	56	2645	4326	1681.307919	<b>19.3325</b>	ng/L
Fe-Precon	57	143	184	41.164526	<b>16.3608</b>	ng/L
Co-Precon	59	98	39	-59.460473	<b>-0.0570</b>	ng/L
Ni-Precon	60	66	56	-9.541198	<b>0.4435</b>	ng/L
Cu-Precon	63	280	222	-57.867813	<b>0.0688</b>	ng/L
Cu-Precon	65	139	106	-33.275522	<b>-0.0458</b>	ng/L
Zn-Precon	66	361	134	-226.880686	<b>-5.9357</b>	ng/L
Zn-Precon	68	284	119	-165.084352	<b>-6.8759</b>	ng/L
Cd-Precon	111	4	8	3.729449	<b>0.2228</b>	ng/L
Cd-Precon	114	41	21	-19.626597	<b>-0.0749</b>	ng/L
Pb-Precon	208	56266	96812	40545.990011	<b>123.3707</b>	ng/L
Tb-Precon	159	6	4	-2.240693		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 11:46:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV4.104

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	11067	10568.202153	<b>248.6982</b>	ng/L
Fe-Precon	54	138	2937	2799.149071	<b>451.7128</b>	ng/L
Fe-Precon	56	2645	57979	55334.535824	<b>452.7060</b>	ng/L
Fe-Precon	57	143	1574	1431.254652	<b>449.2001</b>	ng/L
Co-Precon	59	98	14335	14237.199897	<b>94.9708</b>	ng/L
Ni-Precon	60	66	2906	2840.473994	<b>93.4770</b>	ng/L
Cu-Precon	63	280	6528	6247.959562	<b>95.2467</b>	ng/L
Cu-Precon	65	139	3128	2988.239303	<b>94.5954</b>	ng/L
Zn-Precon	66	361	10380	10019.372004	<b>484.7658</b>	ng/L
Zn-Precon	68	284	7068	6784.097947	<b>486.3511</b>	ng/L
Cd-Precon	111	4	2251	2246.661374	<b>99.5309</b>	ng/L
Cd-Precon	114	41	5611	5569.816927	<b>99.0173</b>	ng/L
Pb-Precon	208	56266	281846	225579.247820	<b>730.5447</b>	ng/L
Tb-Precon	159	6	4	-1.877057		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 11:59:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.105

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	88	-410.753720	<b>1.5707</b>	ng/L
Fe-Precon	54	138	276	138.966090	<b>28.8248</b>	ng/L
Fe-Precon	56	2645	5305	2659.668249	<b>27.2350</b>	ng/L
Fe-Precon	57	143	220	77.030532	<b>27.5285</b>	ng/L
Co-Precon	59	98	44	-54.532310	<b>-0.0243</b>	ng/L
Ni-Precon	60	66	43	-22.323970	<b>0.0263</b>	ng/L
Cu-Precon	63	280	181	-99.271902	<b>-0.5561</b>	ng/L
Cu-Precon	65	139	88	-51.087095	<b>-0.6037</b>	ng/L
Zn-Precon	66	361	121	-240.342812	<b>-6.5804</b>	ng/L
Zn-Precon	68	284	113	-170.961588	<b>-7.2930</b>	ng/L
Cd-Precon	111	4	6	2.014953	<b>0.1468</b>	ng/L
Cd-Precon	114	41	21	-20.005829	<b>-0.0817</b>	ng/L
Pb-Precon	208	56266	97043	40776.301977	<b>124.1265</b>	ng/L
Tb-Precon	159	6	5	-1.066667		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 12:12:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB4.106

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	67	-431.706374	<b>1.0991</b>	ng/L
Fe-Precon	54	138	145	7.646934	<b>7.9490</b>	ng/L
Fe-Precon	56	2645	2731	86.003178	<b>6.4467</b>	ng/L
Fe-Precon	57	143	153	10.459023	<b>6.7998</b>	ng/L
Co-Precon	59	98	53	-45.486340	<b>0.0358</b>	ng/L
Ni-Precon	60	66	62	-3.421659	<b>0.6433</b>	ng/L
Cu-Precon	63	280	261	-18.883195	<b>0.6573</b>	ng/L
Cu-Precon	65	139	127	-12.003678	<b>0.6205</b>	ng/L
Zn-Precon	66	361	240	-120.801587	<b>-0.8555</b>	ng/L
Zn-Precon	68	284	198	-85.777482	<b>-1.2470</b>	ng/L
Cd-Precon	111	4	6	1.265731	<b>0.1137</b>	ng/L
Cd-Precon	114	41	49	8.335376	<b>0.4208</b>	ng/L
Pb-Precon	208	56266	256765	200498.573026	<b>648.2442</b>	ng/L
Tb-Precon	159	6	7	0.987014		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 12:26:09  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.107  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	33	-465.511004	<b>0.3382</b>	ng/L
Fe-Precon	54	138	136	-1.565384	<b>6.4845</b>	ng/L
Fe-Precon	56	2645	2749	104.021836	<b>6.5923</b>	ng/L
Fe-Precon	57	143	141	-1.807921	<b>2.9802</b>	ng/L
Co-Precon	59	98	44	-53.850046	<b>-0.0198</b>	ng/L
Ni-Precon	60	66	36	-29.891119	<b>-0.2207</b>	ng/L
Cu-Precon	63	280	141	-139.307517	<b>-1.1604</b>	ng/L
Cu-Precon	65	139	72	-67.644906	<b>-1.1223</b>	ng/L
Zn-Precon	66	361	130	-230.777056	<b>-6.1223</b>	ng/L
Zn-Precon	68	284	121	-162.843605	<b>-6.7168</b>	ng/L
Cd-Precon	111	4	5	0.236397	<b>0.0681</b>	ng/L
Cd-Precon	114	41	19	-22.133989	<b>-0.1194</b>	ng/L
Pb-Precon	208	56266	104138	47871.982108	<b>147.4105</b>	ng/L
Tb-Precon	159	6	7	0.827709		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1228029-03RE1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 12:39:20

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 131

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1228029-03RE1.108

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	13062	12563.525523	<b>1468.0564</b>	ng/L
Fe-Precon	54	138	100353	100215.623634	<b>79689.8135</b>	ng/L
Fe-Precon	56	2645	1980294	1977649.038408	<b>79899.1366</b>	ng/L
Fe-Precon	57	143	51651	51508.158022	<b>80209.4907</b>	ng/L
Co-Precon	59	98	1235	1137.325702	<b>39.4891</b>	ng/L
Ni-Precon	60	66	6583	6517.402026	<b>1067.5176</b>	ng/L
Cu-Precon	63	280	29934	29653.670810	<b>2242.6191</b>	ng/L
Cu-Precon	65	139	14138	13999.022633	<b>2197.3994</b>	ng/L
Zn-Precon	66	361	86456	86094.890852	<b>20640.4260</b>	ng/L
Zn-Precon	68	284	59009	58725.228446	<b>20864.6939</b>	ng/L
Cd-Precon	111	4	179	174.755709	<b>38.9756</b>	ng/L
Cd-Precon	114	41	591	550.521696	<b>50.1646</b>	ng/L
Pb-Precon	208	56266	265541	209274.767042	<b>3385.2133</b>	ng/L
Tb-Precon	159	6	642	636.187612		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 12:52:30  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.109  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	60	-439.187001	<b>0.9307</b>	ng/L
Fe-Precon	54	138	3060	2922.274338	<b>471.2859</b>	ng/L
Fe-Precon	56	2645	60237	57591.834538	<b>470.9389</b>	ng/L
Fe-Precon	57	143	1656	1513.678502	<b>474.8649</b>	ng/L
Co-Precon	59	98	43	-54.691615	<b>-0.0253</b>	ng/L
Ni-Precon	60	66	43	-22.504062	<b>0.0204</b>	ng/L
Cu-Precon	63	280	255	-24.685300	<b>0.5697</b>	ng/L
Cu-Precon	65	139	113	-26.227745	<b>0.1750</b>	ng/L
Zn-Precon	66	361	121	-239.695066	<b>-6.5494</b>	ng/L
Zn-Precon	68	284	119	-165.171017	<b>-6.8820</b>	ng/L
Cd-Precon	111	4	8	3.369300	<b>0.2068</b>	ng/L
Cd-Precon	114	41	21	-19.951114	<b>-0.0807</b>	ng/L
Pb-Precon	208	56266	104009	47742.287116	<b>146.9849</b>	ng/L
Tb-Precon	159	6	13	6.548931		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-DUP1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 13:05:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 132

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-DUP1.110

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	13011	12511.930326	<b>1462.2496</b>	ng/L
Fe-Precon	54	138	100932	100794.921307	<b>80150.2669</b>	ng/L
Fe-Precon	56	2645	1986390	1983745.576734	<b>80145.3546</b>	ng/L
Fe-Precon	57	143	52053	51910.347317	<b>80835.6492</b>	ng/L
Co-Precon	59	98	1229	1130.537175	<b>39.2635</b>	ng/L
Ni-Precon	60	66	6604	6537.928841	<b>1070.8679</b>	ng/L
Cu-Precon	63	280	30229	29949.428907	<b>2264.9394</b>	ng/L
Cu-Precon	65	139	14259	14119.431965	<b>2216.2570</b>	ng/L
Zn-Precon	66	361	86576	86214.473089	<b>20669.0604</b>	ng/L
Zn-Precon	68	284	58778	58494.247535	<b>20782.7230</b>	ng/L
Cd-Precon	111	4	201	196.956752	<b>43.8905</b>	ng/L
Cd-Precon	114	41	603	562.609759	<b>51.2361</b>	ng/L
Pb-Precon	208	56266	278460	222193.683071	<b>3597.1760</b>	ng/L
Tb-Precon	159	6	652	646.142527		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 13:18:52  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.111  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	61	-437.576577	<b>0.9670</b>	ng/L
Fe-Precon	54	138	3173	3035.406622	<b>489.2705</b>	ng/L
Fe-Precon	56	2645	63376	60731.206155	<b>496.2966</b>	ng/L
Fe-Precon	57	143	1686	1543.661301	<b>484.2008</b>	ng/L
Co-Precon	59	98	40	-58.206782	<b>-0.0487</b>	ng/L
Ni-Precon	60	66	44	-21.742149	<b>0.0453</b>	ng/L
Cu-Precon	63	280	257	-22.551738	<b>0.6019</b>	ng/L
Cu-Precon	65	139	111	-28.063118	<b>0.1175</b>	ng/L
Zn-Precon	66	361	126	-235.206792	<b>-6.3344</b>	ng/L
Zn-Precon	68	284	124	-159.622885	<b>-6.4882</b>	ng/L
Cd-Precon	111	4	7	2.597901	<b>0.1727</b>	ng/L
Cd-Precon	114	41	17	-23.536954	<b>-0.1443</b>	ng/L
Pb-Precon	208	56266	127813	71546.363588	<b>225.0963</b>	ng/L
Tb-Precon	159	6	12	5.350659		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-MS1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 13:32:02

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 133

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-MS1.112

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	238716	238217.506467	<b>26864.5003</b>	ng/L
Fe-Precon	54	138	165126	164988.127774	<b>131174.0821</b>	ng/L
Fe-Precon	56	2645	3284131	3281485.790433	<b>132556.5749</b>	ng/L
Fe-Precon	57	143	85625	85482.709591	<b>133103.6281</b>	ng/L
Co-Precon	59	98	303328	303229.882044	<b>10079.3164</b>	ng/L
Ni-Precon	60	66	68162	68096.667131	<b>11118.2225</b>	ng/L
Cu-Precon	63	280	167231	166950.755799	<b>12604.1760</b>	ng/L
Cu-Precon	65	139	80516	80376.577734	<b>12592.9308</b>	ng/L
Zn-Precon	66	361	300809	300448.331017	<b>71968.2419</b>	ng/L
Zn-Precon	68	284	203639	203354.752536	<b>72191.0136</b>	ng/L
Cd-Precon	111	4	46509	46505.002929	<b>10295.5801</b>	ng/L
Cd-Precon	114	41	115715	115674.536822	<b>10255.0230</b>	ng/L
Pb-Precon	208	56266	917379	861112.737277	<b>14080.0220</b>	ng/L
Tb-Precon	159	6	667	660.927850		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 13:45:13  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.113  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	933	434.315776	<b>20.5926</b>	ng/L
Fe-Precon	54	138	4287	4149.803984	<b>666.4257</b>	ng/L
Fe-Precon	56	2645	85282	82637.377737	<b>673.2394</b>	ng/L
Fe-Precon	57	143	2297	2154.134204	<b>674.2868</b>	ng/L
Co-Precon	59	98	52	-46.116659	<b>0.0316</b>	ng/L
Ni-Precon	60	66	111	45.413639	<b>2.2374</b>	ng/L
Cu-Precon	63	280	689	409.242694	<b>7.1192</b>	ng/L
Cu-Precon	65	139	312	172.447713	<b>6.3980</b>	ng/L
Zn-Precon	66	361	125	-236.391297	<b>-6.3912</b>	ng/L
Zn-Precon	68	284	119	-165.018565	<b>-6.8712</b>	ng/L
Cd-Precon	111	4	9	4.228406	<b>0.2448</b>	ng/L
Cd-Precon	114	41	23	-17.656064	<b>-0.0400</b>	ng/L
Pb-Precon	208	56266	131232	74965.660369	<b>236.3165</b>	ng/L
Tb-Precon	159	6	11	4.626849		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121393-MSD1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 13:58:23

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 134

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121393-MSD1.114

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	237422	236923.709055	<b>26718.8886</b>	ng/L
Fe-Precon	54	138	165793	165655.292897	<b>131704.3767</b>	ng/L
Fe-Precon	56	2645	3286675	3284030.250474	<b>132659.3368</b>	ng/L
Fe-Precon	57	143	85205	85062.556301	<b>132449.5019</b>	ng/L
Co-Precon	59	98	307355	307256.874810	<b>10213.1506</b>	ng/L
Ni-Precon	60	66	68738	68672.698238	<b>11212.2399</b>	ng/L
Cu-Precon	63	280	169114	168834.375922	<b>12746.3294</b>	ng/L
Cu-Precon	65	139	81299	81159.308672	<b>12715.5160</b>	ng/L
Zn-Precon	66	361	305489	305128.326091	<b>73088.8860</b>	ng/L
Zn-Precon	68	284	207126	206842.261245	<b>73428.6654</b>	ng/L
Cd-Precon	111	4	47301	47296.291990	<b>10470.7559</b>	ng/L
Cd-Precon	114	41	117751	117709.709272	<b>10435.4254</b>	ng/L
Pb-Precon	208	56266	927784	871517.493826	<b>14250.7344</b>	ng/L
Tb-Precon	159	6	699	692.663449		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 14:11:34  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.115  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1281	782.177530	<b>28.4227</b>	ng/L
Fe-Precon	54	138	4759	4621.213912	<b>741.3655</b>	ng/L
Fe-Precon	56	2645	94484	91839.554796	<b>747.5682</b>	ng/L
Fe-Precon	57	143	2477	2334.149400	<b>730.3390</b>	ng/L
Co-Precon	59	98	62	-35.907043	<b>0.0995</b>	ng/L
Ni-Precon	60	66	122	56.042422	<b>2.5844</b>	ng/L
Cu-Precon	63	280	1066	786.341130	<b>12.8110</b>	ng/L
Cu-Precon	65	139	503	363.416202	<b>12.3796</b>	ng/L
Zn-Precon	66	361	131	-230.281851	<b>-6.0986</b>	ng/L
Zn-Precon	68	284	119	-165.108546	<b>-6.8776</b>	ng/L
Cd-Precon	111	4	6	2.000264	<b>0.1462</b>	ng/L
Cd-Precon	114	41	20	-20.392508	<b>-0.0885</b>	ng/L
Pb-Precon	208	56266	140015	83748.356437	<b>265.1363</b>	ng/L
Tb-Precon	159	6	12	6.105638		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1228029-04RE1**

**Sample Description: 5x**

**Batch ID: B121393**

Sample Date/Time: Saturday, August 11, 2012 14:24:44

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 135

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1228029-04RE1.116

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	13874	13375.444712	<b>1559.4346</b>	ng/L
Fe-Precon	54	138	50679	50541.158540	<b>40206.1849</b>	ng/L
Fe-Precon	56	2645	1016836	1014190.927106	<b>40988.4096</b>	ng/L
Fe-Precon	57	143	26455	26312.720296	<b>40983.3380</b>	ng/L
Co-Precon	59	98	1051	952.692443	<b>33.3529</b>	ng/L
Ni-Precon	60	66	6218	6152.664486	<b>1007.9867</b>	ng/L
Cu-Precon	63	280	27406	27126.198562	<b>2051.8754</b>	ng/L
Cu-Precon	65	139	13096	12956.828272	<b>2034.1791</b>	ng/L
Zn-Precon	66	361	79839	79478.288872	<b>19056.0533</b>	ng/L
Zn-Precon	68	284	54200	53915.730716	<b>19157.8929</b>	ng/L
Cd-Precon	111	4	169	164.244774	<b>36.6487</b>	ng/L
Cd-Precon	114	41	567	525.949092	<b>47.9864</b>	ng/L
Pb-Precon	208	56266	344364	288097.786805	<b>4678.4751</b>	ng/L
Tb-Precon	159	6	709	703.054773		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 14:37:54  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.117  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	256	-242.870139	<b>5.3497</b>	ng/L
Fe-Precon	54	138	2085	1947.340196	<b>316.3011</b>	ng/L
Fe-Precon	56	2645	41142	38496.969334	<b>316.7038</b>	ng/L
Fe-Precon	57	143	1129	986.729015	<b>310.7860</b>	ng/L
Co-Precon	59	98	45	-53.431006	<b>-0.0170</b>	ng/L
Ni-Precon	60	66	49	-16.433041	<b>0.2186</b>	ng/L
Cu-Precon	63	280	432	152.493835	<b>3.2440</b>	ng/L
Cu-Precon	65	139	198	58.692675	<b>2.8349</b>	ng/L
Zn-Precon	66	361	122	-239.158388	<b>-6.5237</b>	ng/L
Zn-Precon	68	284	125	-159.321651	<b>-6.4669</b>	ng/L
Cd-Precon	111	4	6	2.093903	<b>0.1503</b>	ng/L
Cd-Precon	114	41	16	-25.121590	<b>-0.1723</b>	ng/L
Pb-Precon	208	56266	143124	86857.880918	<b>275.3400</b>	ng/L
Tb-Precon	159	6	12	5.818191		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV5**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 14:51:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV5.118

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	11176	10677.511655	<b>251.1586</b>	ng/L
Fe-Precon	54	138	3163	3025.816270	<b>487.7459</b>	ng/L
Fe-Precon	56	2645	62526	59881.232432	<b>489.4311</b>	ng/L
Fe-Precon	57	143	1681	1538.912799	<b>482.7222</b>	ng/L
Co-Precon	59	98	14796	14698.343341	<b>98.0359</b>	ng/L
Ni-Precon	60	66	2954	2888.751116	<b>95.0529</b>	ng/L
Cu-Precon	63	280	6733	6453.560568	<b>98.3499</b>	ng/L
Cu-Precon	65	139	3246	3106.387705	<b>98.2961</b>	ng/L
Zn-Precon	66	361	10602	10241.097032	<b>495.3844</b>	ng/L
Zn-Precon	68	284	7134	6849.768452	<b>491.0122</b>	ng/L
Cd-Precon	111	4	2297	2292.383125	<b>101.5553</b>	ng/L
Cd-Precon	114	41	5710	5668.739387	<b>100.7710</b>	ng/L
Pb-Precon	208	56266	387864	331597.970999	<b>1078.4379</b>	ng/L
Tb-Precon	159	6	7	0.990478		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 15:04:17  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.119  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	171	-327.988229	<b>3.4337</b>	ng/L
Fe-Precon	54	138	496	358.659016	<b>63.7492</b>	ng/L
Fe-Precon	56	2645	9752	7107.331099	<b>63.1601</b>	ng/L
Fe-Precon	57	143	336	193.499850	<b>63.7942</b>	ng/L
Co-Precon	59	98	47	-51.488141	<b>-0.0041</b>	ng/L
Ni-Precon	60	66	46	-19.338681	<b>0.1237</b>	ng/L
Cu-Precon	63	280	264	-15.493358	<b>0.7084</b>	ng/L
Cu-Precon	65	139	124	-15.387619	<b>0.5145</b>	ng/L
Zn-Precon	66	361	121	-240.256196	<b>-6.5763</b>	ng/L
Zn-Precon	68	284	115	-168.488800	<b>-7.1175</b>	ng/L
Cd-Precon	111	4	9	4.281074	<b>0.2472</b>	ng/L
Cd-Precon	114	41	17	-23.585784	<b>-0.1451</b>	ng/L
Pb-Precon	208	56266	140856	84589.415624	<b>267.8962</b>	ng/L
Tb-Precon	159	6	7	1.115153		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB5**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 15:17:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB5.120

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	186	-312.534682	<b>3.7816</b>	ng/L
Fe-Precon	54	138	190	51.991120	<b>14.9984</b>	ng/L
Fe-Precon	56	2645	3628	982.966445	<b>13.6918</b>	ng/L
Fe-Precon	57	143	162	19.737334	<b>9.6889</b>	ng/L
Co-Precon	59	98	64	-33.867178	<b>0.1131</b>	ng/L
Ni-Precon	60	66	68	2.122972	<b>0.8243</b>	ng/L
Cu-Precon	63	280	245	-34.727299	<b>0.4181</b>	ng/L
Cu-Precon	65	139	117	-22.199627	<b>0.3011</b>	ng/L
Zn-Precon	66	361	312	-49.464021	<b>2.5609</b>	ng/L
Zn-Precon	68	284	259	-24.998830	<b>3.0669</b>	ng/L
Cd-Precon	111	4	10	5.567259	<b>0.3041</b>	ng/L
Cd-Precon	114	41	29	-11.564131	<b>0.0680</b>	ng/L
Pb-Precon	208	56266	370202	313935.547094	<b>1020.4799</b>	ng/L
Tb-Precon	159	6	7	1.167100		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 15:30:41  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.121  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	82	-417.088062	<b>1.4282</b>	ng/L
Fe-Precon	54	138	199	61.314314	<b>16.4805</b>	ng/L
Fe-Precon	56	2645	3829	1183.593763	<b>15.3123</b>	ng/L
Fe-Precon	57	143	175	32.111456	<b>13.5419</b>	ng/L
Co-Precon	59	98	43	-54.726247	<b>-0.0256</b>	ng/L
Ni-Precon	60	66	32	-33.821875	<b>-0.3490</b>	ng/L
Cu-Precon	63	280	170	-109.436633	<b>-0.7095</b>	ng/L
Cu-Precon	65	139	76	-63.284708	<b>-0.9857</b>	ng/L
Zn-Precon	66	361	111	-249.901450	<b>-7.0382</b>	ng/L
Zn-Precon	68	284	107	-176.592870	<b>-7.6927</b>	ng/L
Cd-Precon	111	4	6	2.058458	<b>0.1488</b>	ng/L
Cd-Precon	114	41	22	-18.647825	<b>-0.0576</b>	ng/L
Pb-Precon	208	56266	138600	82333.089520	<b>260.4922</b>	ng/L
Tb-Precon	159	6	6	-0.162770		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BLK1**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 15:43:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 136

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BLK1.122

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	133	-365.460993	<b>2.5902</b>	ng/L
Fe-Precon	54	138	459	321.607804	<b>57.8592</b>	ng/L
Fe-Precon	56	2645	9170	6525.207032	<b>58.4581</b>	ng/L
Fe-Precon	57	143	303	160.293461	<b>53.4545</b>	ng/L
Co-Precon	59	98	79	-19.435861	<b>0.2090</b>	ng/L
Ni-Precon	60	66	59	-6.486636	<b>0.5433</b>	ng/L
Cu-Precon	63	280	331	50.803197	<b>1.7091</b>	ng/L
Cu-Precon	65	139	170	30.166495	<b>1.9414</b>	ng/L
Zn-Precon	66	361	236	-125.334570	<b>-1.0726</b>	ng/L
Zn-Precon	68	284	180	-104.206312	<b>-2.5550</b>	ng/L
Cd-Precon	111	4	7	2.865382	<b>0.1845</b>	ng/L
Cd-Precon	114	41	19	-21.400032	<b>-0.1064</b>	ng/L
Pb-Precon	208	56266	383070	326803.275966	<b>1062.7044</b>	ng/L
Tb-Precon	159	6	4	-1.877058		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 15:57:03  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.123  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	58	-440.904752	<b>0.8921</b>	ng/L
Fe-Precon	54	138	173	35.401813	<b>12.3612</b>	ng/L
Fe-Precon	56	2645	3564	919.538116	<b>13.1794</b>	ng/L
Fe-Precon	57	143	172	29.396219	<b>12.6964</b>	ng/L
Co-Precon	59	98	43	-55.263046	<b>-0.0291</b>	ng/L
Ni-Precon	60	66	31	-34.625350	<b>-0.3753</b>	ng/L
Cu-Precon	63	280	168	-112.193436	<b>-0.7511</b>	ng/L
Cu-Precon	65	139	77	-62.224907	<b>-0.9525</b>	ng/L
Zn-Precon	66	361	114	-247.477092	<b>-6.9221</b>	ng/L
Zn-Precon	68	284	119	-164.765769	<b>-6.8533</b>	ng/L
Cd-Precon	111	4	5	0.895433	<b>0.0973</b>	ng/L
Cd-Precon	114	41	16	-24.665347	<b>-0.1643</b>	ng/L
Pb-Precon	208	56266	141945	85678.573498	<b>271.4702</b>	ng/L
Tb-Precon	159	6	7	1.187884		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BLK2**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 16:10:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 137

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BLK2.124

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	100	-398.763795	<b>1.8406</b>	ng/L
Fe-Precon	54	138	395	257.363575	<b>47.6464</b>	ng/L
Fe-Precon	56	2645	7765	5119.747102	<b>47.1058</b>	ng/L
Fe-Precon	57	143	287	144.604120	<b>48.5693</b>	ng/L
Co-Precon	59	98	79	-18.961410	<b>0.2121</b>	ng/L
Ni-Precon	60	66	53	-13.160279	<b>0.3254</b>	ng/L
Cu-Precon	63	280	550	270.444307	<b>5.0243</b>	ng/L
Cu-Precon	65	139	255	115.667109	<b>4.6195</b>	ng/L
Zn-Precon	66	361	231	-130.007012	<b>-1.2963</b>	ng/L
Zn-Precon	68	284	199	-84.382095	<b>-1.1479</b>	ng/L
Cd-Precon	111	4	6	1.709223	<b>0.1333</b>	ng/L
Cd-Precon	114	41	18	-22.920718	<b>-0.1333</b>	ng/L
Pb-Precon	208	56266	384159	327892.576590	<b>1066.2789</b>	ng/L
Tb-Precon	159	6	8	1.977492		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 16:23:25  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.125  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	45	-453.361989	<b>0.6117</b>	ng/L
Fe-Precon	54	138	161	23.640468	<b>10.4915</b>	ng/L
Fe-Precon	56	2645	3138	492.825399	<b>9.7328</b>	ng/L
Fe-Precon	57	143	159	16.090317	<b>8.5533</b>	ng/L
Co-Precon	59	98	43	-55.148755	<b>-0.0284</b>	ng/L
Ni-Precon	60	66	41	-25.208837	<b>-0.0679</b>	ng/L
Cu-Precon	63	280	157	-122.811935	<b>-0.9114</b>	ng/L
Cu-Precon	65	139	71	-68.271751	<b>-1.1419</b>	ng/L
Zn-Precon	66	361	111	-250.507406	<b>-7.0672</b>	ng/L
Zn-Precon	68	284	125	-158.881708	<b>-6.4356</b>	ng/L
Cd-Precon	111	4	7	2.267843	<b>0.1580</b>	ng/L
Cd-Precon	114	41	19	-22.236507	<b>-0.1212</b>	ng/L
Pb-Precon	208	56266	147053	90786.239758	<b>288.2307</b>	ng/L
Tb-Precon	159	6	8	2.219917		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BLK3**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 16:36:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 138

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BLK3.126

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	100	-398.680715	<b>1.8425</b>	ng/L
Fe-Precon	54	138	1328	1190.767765	<b>196.0292</b>	ng/L
Fe-Precon	56	2645	27151	24506.503934	<b>203.6986</b>	ng/L
Fe-Precon	57	143	783	640.112540	<b>202.8582</b>	ng/L
Co-Precon	59	98	70	-28.142426	<b>0.1511</b>	ng/L
Ni-Precon	60	66	63	-2.552327	<b>0.6717</b>	ng/L
Cu-Precon	63	280	315	35.279808	<b>1.4748</b>	ng/L
Cu-Precon	65	139	163	23.100741	<b>1.7201</b>	ng/L
Zn-Precon	66	361	224	-136.677582	<b>-1.6158</b>	ng/L
Zn-Precon	68	284	183	-100.389695	<b>-2.2841</b>	ng/L
Cd-Precon	111	4	7	2.742410	<b>0.1791</b>	ng/L
Cd-Precon	114	41	20	-21.150945	<b>-0.1020</b>	ng/L
Pb-Precon	208	56266	389417	333150.568780	<b>1083.5326</b>	ng/L
Tb-Precon	159	6	7	0.464070		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 16:49:47  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.127  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	48	-451.256365	<b>0.6591</b>	ng/L
Fe-Precon	54	138	184	46.529418	<b>14.1302</b>	ng/L
Fe-Precon	56	2645	3616	970.906654	<b>13.5944</b>	ng/L
Fe-Precon	57	143	168	25.642113	<b>11.5275</b>	ng/L
Co-Precon	59	98	38	-60.038826	<b>-0.0609</b>	ng/L
Ni-Precon	60	66	26	-39.854797	<b>-0.5460</b>	ng/L
Cu-Precon	63	280	147	-133.042485	<b>-1.0658</b>	ng/L
Cu-Precon	65	139	76	-63.478655	<b>-0.9918</b>	ng/L
Zn-Precon	66	361	120	-240.962683	<b>-6.6101</b>	ng/L
Zn-Precon	68	284	110	-173.898480	<b>-7.5015</b>	ng/L
Cd-Precon	111	4	5	1.038007	<b>0.1036</b>	ng/L
Cd-Precon	114	41	16	-24.801204	<b>-0.1667</b>	ng/L
Pb-Precon	208	56266	151276	95009.450375	<b>302.0888</b>	ng/L
Tb-Precon	159	6	6	-0.547186		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BLK4**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 17:02:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 139

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BLK4.128

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	93	-406.071295	<b>1.6761</b>	ng/L
Fe-Precon	54	138	337	199.081297	<b>38.3813</b>	ng/L
Fe-Precon	56	2645	6781	4135.764216	<b>39.1579</b>	ng/L
Fe-Precon	57	143	247	103.985632	<b>35.9217</b>	ng/L
Co-Precon	59	98	72	-26.306926	<b>0.1633</b>	ng/L
Ni-Precon	60	66	51	-14.580193	<b>0.2791</b>	ng/L
Cu-Precon	63	280	304	24.255228	<b>1.3084</b>	ng/L
Cu-Precon	65	139	155	15.775808	<b>1.4906</b>	ng/L
Zn-Precon	66	361	238	-123.346954	<b>-0.9774</b>	ng/L
Zn-Precon	68	284	197	-87.260292	<b>-1.3522</b>	ng/L
Cd-Precon	111	4	9	5.008488	<b>0.2794</b>	ng/L
Cd-Precon	114	41	19	-21.365364	<b>-0.1058</b>	ng/L
Pb-Precon	208	56266	392149	335882.483366	<b>1092.4972</b>	ng/L
Tb-Precon	159	6	5	-0.890044		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 17:16:10  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.129  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	31	-468.059949	<b>0.2808</b>	ng/L
Fe-Precon	54	138	144	6.846866	<b>7.8218</b>	ng/L
Fe-Precon	56	2645	2711	66.308414	<b>6.2876</b>	ng/L
Fe-Precon	57	143	153	10.033063	<b>6.6672</b>	ng/L
Co-Precon	59	98	43	-55.173015	<b>-0.0285</b>	ng/L
Ni-Precon	60	66	30	-35.425346	<b>-0.4014</b>	ng/L
Cu-Precon	63	280	149	-130.895336	<b>-1.0334</b>	ng/L
Cu-Precon	65	139	67	-72.514243	<b>-1.2748</b>	ng/L
Zn-Precon	66	361	109	-252.464137	<b>-7.1609</b>	ng/L
Zn-Precon	68	284	102	-182.161737	<b>-8.0880</b>	ng/L
Cd-Precon	111	4	8	3.387117	<b>0.2076</b>	ng/L
Cd-Precon	114	41	19	-21.864590	<b>-0.1146</b>	ng/L
Pb-Precon	208	56266	152570	96303.418945	<b>306.3349</b>	ng/L
Tb-Precon	159	6	7	0.748054		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS1**

**Sample Description: 5x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 17:29:21

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 140

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS1.130

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	26338	25839.668505	<b>2962.2327</b>	ng/L
Fe-Precon	54	138	120025	119887.784714	<b>95326.1833</b>	ng/L
Fe-Precon	56	2645	2380519	2377873.927577	<b>96062.8299</b>	ng/L
Fe-Precon	57	143	62003	61860.370685	<b>96326.5940</b>	ng/L
Co-Precon	59	98	58556	58457.993357	<b>1944.5000</b>	ng/L
Ni-Precon	60	66	23391	23324.766620	<b>3810.7439</b>	ng/L
Cu-Precon	63	280	26626	26345.725450	<b>1992.9746</b>	ng/L
Cu-Precon	65	139	12735	12595.791670	<b>1977.6364</b>	ng/L
Zn-Precon	66	361	19339	18978.051316	<b>4569.0218</b>	ng/L
Zn-Precon	68	284	13018	12734.345556	<b>4543.3876</b>	ng/L
Cd-Precon	111	4	884	879.690435	<b>195.0343</b>	ng/L
Cd-Precon	114	41	2690	2649.262918	<b>236.2019</b>	ng/L
Pb-Precon	208	56266	443963	387696.347712	<b>6312.6044</b>	ng/L
Tb-Precon	159	6	47	40.581986		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 17:42:32  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.131  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	100	-399.141485	<b>1.8321</b>	ng/L
Fe-Precon	54	138	3717	3579.198021	<b>575.7168</b>	ng/L
Fe-Precon	56	2645	74528	71883.345689	<b>586.3758</b>	ng/L
Fe-Precon	57	143	2015	1872.383845	<b>586.5568</b>	ng/L
Co-Precon	59	98	43	-55.100260	<b>-0.0281</b>	ng/L
Ni-Precon	60	66	76	10.081538	<b>1.0841</b>	ng/L
Cu-Precon	63	280	282	2.214528	<b>0.9757</b>	ng/L
Cu-Precon	65	139	124	-15.723634	<b>0.5040</b>	ng/L
Zn-Precon	66	361	124	-236.955723	<b>-6.4182</b>	ng/L
Zn-Precon	68	284	114	-169.534676	<b>-7.1918</b>	ng/L
Cd-Precon	111	4	9	4.355615	<b>0.2505</b>	ng/L
Cd-Precon	114	41	30	-10.649840	<b>0.0842</b>	ng/L
Pb-Precon	208	56266	157252	100985.637834	<b>321.6993</b>	ng/L
Tb-Precon	159	6	7	0.831170		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-04**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 17:55:43

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 141

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1231002-04.132

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	15654	15155.699147	<b>3519.5902</b>	ng/L
Fe-Precon	54	138	3399	3261.929120	<b>5252.8070</b>	ng/L
Fe-Precon	56	2645	67135	64489.927020	<b>5266.5689</b>	ng/L
Fe-Precon	57	143	1802	1659.363654	<b>5202.2759</b>	ng/L
Co-Precon	59	98	2003	1904.414587	<b>129.9655</b>	ng/L
Ni-Precon	60	66	4096	4030.450018	<b>1323.2158</b>	ng/L
Cu-Precon	63	280	4057	3777.164138	<b>579.5340</b>	ng/L
Cu-Precon	65	139	1943	1803.403454	<b>574.8347</b>	ng/L
Zn-Precon	66	361	2179	1818.061586	<b>919.9828</b>	ng/L
Zn-Precon	68	284	1439	1155.244114	<b>868.3610</b>	ng/L
Cd-Precon	111	4	-159	-163.466371	<b>-71.8002</b>	ng/L
Cd-Precon	114	41	-210	-250.498215	<b>-41.6793</b>	ng/L
Pb-Precon	208	56266	384141	327874.079218	<b>10662.1820</b>	ng/L
Tb-Precon	159	6	1184	1177.457156		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 18:08:53  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.133  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	72	-426.985995	<b>1.2054</b>	ng/L
Fe-Precon	54	138	360	222.583163	<b>42.1173</b>	ng/L
Fe-Precon	56	2645	7230	4585.457748	<b>42.7902</b>	ng/L
Fe-Precon	57	143	263	120.329326	<b>41.0107</b>	ng/L
Co-Precon	59	98	45	-53.112381	<b>-0.0149</b>	ng/L
Ni-Precon	60	66	37	-28.606266	<b>-0.1788</b>	ng/L
Cu-Precon	63	280	165	-114.475836	<b>-0.7856</b>	ng/L
Cu-Precon	65	139	81	-58.155646	<b>-0.8251</b>	ng/L
Zn-Precon	66	361	112	-248.744676	<b>-6.9828</b>	ng/L
Zn-Precon	68	284	112	-171.477609	<b>-7.3297</b>	ng/L
Cd-Precon	111	4	7	3.096331	<b>0.1947</b>	ng/L
Cd-Precon	114	41	15	-25.537460	<b>-0.1797</b>	ng/L
Pb-Precon	208	56266	158508	102241.665702	<b>325.8209</b>	ng/L
Tb-Precon	159	6	14	7.400880		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-05**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 18:22:04

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 142

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1231002-05.134

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	15242	14743.107640	<b>3426.7191</b>	ng/L
Fe-Precon	54	138	3223	3085.776703	<b>4972.7783</b>	ng/L
Fe-Precon	56	2645	63880	61235.085702	<b>5003.6654</b>	ng/L
Fe-Precon	57	143	1737	1594.405865	<b>5000.0136</b>	ng/L
Co-Precon	59	98	2024	1925.951417	<b>131.3970</b>	ng/L
Ni-Precon	60	66	4031	3965.459255	<b>1302.0007</b>	ng/L
Cu-Precon	63	280	3898	3617.958152	<b>555.5040</b>	ng/L
Cu-Precon	65	139	1885	1745.850514	<b>556.8077</b>	ng/L
Zn-Precon	66	361	1953	1592.245945	<b>811.8378</b>	ng/L
Zn-Precon	68	284	1320	1036.209359	<b>783.8746</b>	ng/L
Cd-Precon	111	4	-174	-178.596248	<b>-78.4991</b>	ng/L
Cd-Precon	114	41	-218	-259.160324	<b>-43.2150</b>	ng/L
Pb-Precon	208	56266	391935	335668.231761	<b>10917.9418</b>	ng/L
Tb-Precon	159	6	1156	1149.444332		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 18:35:15  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.135  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	77	-421.313193	<b>1.3331</b>	ng/L
Fe-Precon	54	138	289	151.659362	<b>30.8426</b>	ng/L
Fe-Precon	56	2645	5554	2909.452691	<b>29.2526</b>	ng/L
Fe-Precon	57	143	224	81.075684	<b>28.7881</b>	ng/L
Co-Precon	59	98	43	-54.643112	<b>-0.0250</b>	ng/L
Ni-Precon	60	66	41	-24.762086	<b>-0.0533</b>	ng/L
Cu-Precon	63	280	165	-115.189244	<b>-0.7963</b>	ng/L
Cu-Precon	65	139	72	-67.430152	<b>-1.1156</b>	ng/L
Zn-Precon	66	361	126	-235.431748	<b>-6.3452</b>	ng/L
Zn-Precon	68	284	122	-162.327696	<b>-6.6802</b>	ng/L
Cd-Precon	111	4	7	2.778366	<b>0.1806</b>	ng/L
Cd-Precon	114	41	15	-25.766764	<b>-0.1838</b>	ng/L
Pb-Precon	208	56266	165708	109441.710594	<b>349.4473</b>	ng/L
Tb-Precon	159	6	17	10.358463		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-DUP1**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 18:48:26

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 143

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-DUP1.136

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	14970	14471.196082	<b>3365.5140</b>	ng/L
Fe-Precon	54	138	3195	3057.840144	<b>4928.3677</b>	ng/L
Fe-Precon	56	2645	63496	60851.189083	<b>4972.6569</b>	ng/L
Fe-Precon	57	143	1761	1618.382285	<b>5074.6702</b>	ng/L
Co-Precon	59	98	1992	1894.376238	<b>129.2982</b>	ng/L
Ni-Precon	60	66	4008	3941.916955	<b>1294.3158</b>	ng/L
Cu-Precon	63	280	3793	3512.918177	<b>539.6497</b>	ng/L
Cu-Precon	65	139	1885	1745.219701	<b>556.6101</b>	ng/L
Zn-Precon	66	361	1970	1609.039396	<b>819.8803</b>	ng/L
Zn-Precon	68	284	1281	997.613892	<b>756.4810</b>	ng/L
Cd-Precon	111	4	-166	-170.610552	<b>-74.9633</b>	ng/L
Cd-Precon	114	41	-248	-288.687072	<b>-48.4496</b>	ng/L
Pb-Precon	208	56266	394910	338643.801170	<b>11015.5831</b>	ng/L
Tb-Precon	159	6	1175	1168.598356		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 19:01:36  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.137  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	76	-423.024034	<b>1.2945</b>	ng/L
Fe-Precon	54	138	263	125.742970	<b>26.7227</b>	ng/L
Fe-Precon	56	2645	5064	2419.009651	<b>25.2911</b>	ng/L
Fe-Precon	57	143	208	65.134039	<b>23.8243</b>	ng/L
Co-Precon	59	98	45	-53.095079	<b>-0.0147</b>	ng/L
Ni-Precon	60	66	41	-24.363809	<b>-0.0403</b>	ng/L
Cu-Precon	63	280	159	-120.609330	<b>-0.8782</b>	ng/L
Cu-Precon	65	139	77	-62.609341	<b>-0.9646</b>	ng/L
Zn-Precon	66	361	140	-221.353580	<b>-5.6710</b>	ng/L
Zn-Precon	68	284	118	-166.164932	<b>-6.9526</b>	ng/L
Cd-Precon	111	4	4	-0.677243	<b>0.0276</b>	ng/L
Cd-Precon	114	41	16	-24.474498	<b>-0.1609</b>	ng/L
Pb-Precon	208	56266	169105	112838.266726	<b>360.5929</b>	ng/L
Tb-Precon	159	6	14	7.601747		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-MS1**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 19:14:47

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 144

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-MS1.138

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	244535	244036.587573	<b>55038.8287</b>	ng/L
Fe-Precon	54	138	64669	64531.262002	<b>102652.3696</b>	ng/L
Fe-Precon	56	2645	1291306	1288660.871804	<b>104146.5948</b>	ng/L
Fe-Precon	57	143	33646	33503.241218	<b>104356.1637</b>	ng/L
Co-Precon	59	98	311835	311736.757634	<b>20724.0725</b>	ng/L
Ni-Precon	60	66	65576	65510.256054	<b>21392.1591</b>	ng/L
Cu-Precon	63	280	142058	141777.833247	<b>21408.8443</b>	ng/L
Cu-Precon	65	139	68240	68100.802440	<b>21340.7906</b>	ng/L
Zn-Precon	66	361	218244	217883.280853	<b>104395.3997</b>	ng/L
Zn-Precon	68	284	146348	146063.731358	<b>103718.9981</b>	ng/L
Cd-Precon	111	4	46796	46791.579924	<b>20718.0451</b>	ng/L
Cd-Precon	114	41	116633	116592.481045	<b>20672.7834</b>	ng/L
Pb-Precon	208	56266	979742	923475.246571	<b>30206.4270</b>	ng/L
Tb-Precon	159	6	1115	1108.699775		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 19:27:57  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.139  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	604	105.402724	<b>13.1890</b>	ng/L
Fe-Precon	54	138	1903	1765.687842	<b>287.4239</b>	ng/L
Fe-Precon	56	2645	38150	35505.529467	<b>292.5411</b>	ng/L
Fe-Precon	57	143	1072	929.517895	<b>292.9718</b>	ng/L
Co-Precon	59	98	58	-40.087196	<b>0.0717</b>	ng/L
Ni-Precon	60	66	121	55.606021	<b>2.5702</b>	ng/L
Cu-Precon	63	280	617	336.827620	<b>6.0262</b>	ng/L
Cu-Precon	65	139	305	165.988078	<b>6.1956</b>	ng/L
Zn-Precon	66	361	134	-226.784020	<b>-5.9311</b>	ng/L
Zn-Precon	68	284	114	-169.472357	<b>-7.1873</b>	ng/L
Cd-Precon	111	4	9	4.401110	<b>0.2525</b>	ng/L
Cd-Precon	114	41	18	-22.406577	<b>-0.1242</b>	ng/L
Pb-Precon	208	56266	168260	111993.912590	<b>357.8222</b>	ng/L
Tb-Precon	159	6	16	10.230331		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-MSD1**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 19:41:08

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 145

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-MSD1.140

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	244261	243761.786021	<b>54976.9731</b>	ng/L
Fe-Precon	54	138	64837	64699.801597	<b>102920.2962</b>	ng/L
Fe-Precon	56	2645	1287059	1284414.499216	<b>103803.6023</b>	ng/L
Fe-Precon	57	143	33558	33415.428142	<b>104082.7357</b>	ng/L
Co-Precon	59	98	311143	311044.950374	<b>20678.0891</b>	ng/L
Ni-Precon	60	66	65549	65482.899603	<b>21383.2291</b>	ng/L
Cu-Precon	63	280	142716	142435.984411	<b>21508.1832</b>	ng/L
Cu-Precon	65	139	68262	68122.362145	<b>21347.5437</b>	ng/L
Zn-Precon	66	361	218470	218108.683590	<b>104503.3469</b>	ng/L
Zn-Precon	68	284	147322	147038.300366	<b>104410.7108</b>	ng/L
Cd-Precon	111	4	46744	46740.215914	<b>20695.3032</b>	ng/L
Cd-Precon	114	41	116339	116297.971339	<b>20620.5714</b>	ng/L
Pb-Precon	208	56266	992029	935762.426215	<b>30609.6224</b>	ng/L
Tb-Precon	159	6	1098	1092.210400		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 19:54:18  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.141  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	620	121.378310	<b>13.5486</b>	ng/L
Fe-Precon	54	138	2023	1885.715951	<b>306.5048</b>	ng/L
Fe-Precon	56	2645	40081	37436.398335	<b>308.1373</b>	ng/L
Fe-Precon	57	143	1128	985.123632	<b>310.2861</b>	ng/L
Co-Precon	59	98	57	-41.510572	<b>0.0623</b>	ng/L
Ni-Precon	60	66	136	70.217574	<b>3.0471</b>	ng/L
Cu-Precon	63	280	660	380.348400	<b>6.6831</b>	ng/L
Cu-Precon	65	139	315	175.952491	<b>6.5077</b>	ng/L
Zn-Precon	66	361	112	-248.945504	<b>-6.9924</b>	ng/L
Zn-Precon	68	284	110	-173.642142	<b>-7.4833</b>	ng/L
Cd-Precon	111	4	8	3.440048	<b>0.2099</b>	ng/L
Cd-Precon	114	41	21	-20.000088	<b>-0.0816</b>	ng/L
Pb-Precon	208	56266	167586	111319.153156	<b>355.6080</b>	ng/L
Tb-Precon	159	6	11	4.907367		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV6**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 20:07:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV6.142

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	10847	10348.178476	<b>243.7456</b>	ng/L
Fe-Precon	54	138	3049	2911.311623	<b>469.5432</b>	ng/L
Fe-Precon	56	2645	60564	57919.374564	<b>473.5845</b>	ng/L
Fe-Precon	57	143	1678	1535.437272	<b>481.6400</b>	ng/L
Co-Precon	59	98	14713	14614.704362	<b>97.4800</b>	ng/L
Ni-Precon	60	66	2962	2895.830683	<b>95.2840</b>	ng/L
Cu-Precon	63	280	6710	6430.523008	<b>98.0022</b>	ng/L
Cu-Precon	65	139	3289	3149.717164	<b>99.6533</b>	ng/L
Zn-Precon	66	361	10701	10340.086441	<b>500.1251</b>	ng/L
Zn-Precon	68	284	7254	6969.877992	<b>499.5371</b>	ng/L
Cd-Precon	111	4	2328	2324.015436	<b>102.9559</b>	ng/L
Cd-Precon	114	41	5636	5595.031410	<b>99.4643</b>	ng/L
Pb-Precon	208	56266	491346	435079.607712	<b>1418.0058</b>	ng/L
Tb-Precon	159	6	11	4.713429		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 20:20:42  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.143  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	108	-391.009643	<b>2.0152</b>	ng/L
Fe-Precon	54	138	342	204.489998	<b>39.2411</b>	ng/L
Fe-Precon	56	2645	6939	4293.775275	<b>40.4342</b>	ng/L
Fe-Precon	57	143	256	113.634584	<b>38.9261</b>	ng/L
Co-Precon	59	98	47	-50.653497	<b>0.0015</b>	ng/L
Ni-Precon	60	66	52	-13.416559	<b>0.3170</b>	ng/L
Cu-Precon	63	280	269	-10.416223	<b>0.7851</b>	ng/L
Cu-Precon	65	139	122	-17.351378	<b>0.4530</b>	ng/L
Zn-Precon	66	361	117	-244.304804	<b>-6.7702</b>	ng/L
Zn-Precon	68	284	114	-169.673196	<b>-7.2016</b>	ng/L
Cd-Precon	111	4	5	0.559324	<b>0.0824</b>	ng/L
Cd-Precon	114	41	16	-24.535905	<b>-0.1620</b>	ng/L
Pb-Precon	208	56266	177996	121729.411651	<b>389.7686</b>	ng/L
Tb-Precon	159	6	6	-0.401731		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB6**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 20:33:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB6.144

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	137	-361.748364	<b>2.6738</b>	ng/L
Fe-Precon	54	138	173	35.259996	<b>12.3387</b>	ng/L
Fe-Precon	56	2645	3216	571.484192	<b>10.3681</b>	ng/L
Fe-Precon	57	143	150	6.995813	<b>5.7215</b>	ng/L
Co-Precon	59	98	74	-23.879185	<b>0.1795</b>	ng/L
Ni-Precon	60	66	61	-4.328987	<b>0.6137</b>	ng/L
Cu-Precon	63	280	241	-38.967265	<b>0.3541</b>	ng/L
Cu-Precon	65	139	104	-34.993092	<b>-0.0996</b>	ng/L
Zn-Precon	66	361	304	-57.018730	<b>2.1991</b>	ng/L
Zn-Precon	68	284	233	-51.074735	<b>1.2161</b>	ng/L
Cd-Precon	111	4	9	4.638797	<b>0.2630</b>	ng/L
Cd-Precon	114	41	32	-8.814135	<b>0.1168</b>	ng/L
Pb-Precon	208	56266	474225	417958.593334	<b>1361.8244</b>	ng/L
Tb-Precon	159	6	8	1.883987		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 20:47:05  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.145  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	43	-455.772430	<b>0.5574</b>	ng/L
Fe-Precon	54	138	189	51.343467	<b>14.8954</b>	ng/L
Fe-Precon	56	2645	3525	880.487761	<b>12.8640</b>	ng/L
Fe-Precon	57	143	174	31.124465	<b>13.2345</b>	ng/L
Co-Precon	59	98	44	-54.140959	<b>-0.0217</b>	ng/L
Ni-Precon	60	66	33	-33.191559	<b>-0.3285</b>	ng/L
Cu-Precon	63	280	185	-95.202403	<b>-0.4947</b>	ng/L
Cu-Precon	65	139	93	-46.553691	<b>-0.4617</b>	ng/L
Zn-Precon	66	361	121	-239.961890	<b>-6.5622</b>	ng/L
Zn-Precon	68	284	116	-168.104423	<b>-7.0902</b>	ng/L
Cd-Precon	111	4	6	2.190662	<b>0.1546</b>	ng/L
Cd-Precon	114	41	13	-27.714709	<b>-0.2183</b>	ng/L
Pb-Precon	208	56266	185034	128767.349906	<b>412.8631</b>	ng/L
Tb-Precon	159	6	5	-1.520348		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-06**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 21:00:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 146

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1231002-06.146

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	13979	13479.838505	<b>3142.3675</b>	ng/L
Fe-Precon	54	138	7839	7701.538718	<b>12310.4329</b>	ng/L
Fe-Precon	56	2645	157785	155139.830688	<b>12588.6384</b>	ng/L
Fe-Precon	57	143	4169	4025.963274	<b>12571.2765</b>	ng/L
Co-Precon	59	98	2177	2079.250418	<b>141.5865</b>	ng/L
Ni-Precon	60	66	3982	3916.026655	<b>1285.8644</b>	ng/L
Cu-Precon	63	280	4377	4096.775189	<b>627.7749</b>	ng/L
Cu-Precon	65	139	2132	1992.059789	<b>633.9264</b>	ng/L
Zn-Precon	66	361	4574	4213.367967	<b>2067.1148</b>	ng/L
Zn-Precon	68	284	3079	2794.658533	<b>2031.9562</b>	ng/L
Cd-Precon	111	4	-161	-165.633211	<b>-72.7596</b>	ng/L
Cd-Precon	114	41	-205	-246.160026	<b>-40.9102</b>	ng/L
Pb-Precon	208	56266	450248	393981.706721	<b>12831.4586</b>	ng/L
Tb-Precon	159	6	1038	1031.650286		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 21:13:26  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.147  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	86	-412.641145	<b>1.5283</b>	ng/L
Fe-Precon	54	138	442	304.334144	<b>55.1132</b>	ng/L
Fe-Precon	56	2645	8608	5962.592093	<b>53.9137</b>	ng/L
Fe-Precon	57	143	317	173.942230	<b>57.7044</b>	ng/L
Co-Precon	59	98	51	-46.992856	<b>0.0258</b>	ng/L
Ni-Precon	60	66	40	-25.686753	<b>-0.0835</b>	ng/L
Cu-Precon	63	280	227	-52.679314	<b>0.1472</b>	ng/L
Cu-Precon	65	139	106	-33.933543	<b>-0.0664</b>	ng/L
Zn-Precon	66	361	117	-244.315210	<b>-6.7706</b>	ng/L
Zn-Precon	68	284	120	-163.376943	<b>-6.7547</b>	ng/L
Cd-Precon	111	4	6	1.714069	<b>0.1335</b>	ng/L
Cd-Precon	114	41	14	-27.105054	<b>-0.2075</b>	ng/L
Pb-Precon	208	56266	195703	139436.898094	<b>447.8745</b>	ng/L
Tb-Precon	159	6	18	11.982705		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-DUP2**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 21:26:36

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 147

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-DUP2.148

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	13926	13427.114324	<b>3130.4997</b>	ng/L
Fe-Precon	54	138	7866	7728.444291	<b>12353.2046</b>	ng/L
Fe-Precon	56	2645	158974	156329.344650	<b>12684.7191</b>	ng/L
Fe-Precon	57	143	4219	4076.027905	<b>12727.1653</b>	ng/L
Co-Precon	59	98	2147	2048.526295	<b>139.5444</b>	ng/L
Ni-Precon	60	66	3939	3873.425529	<b>1271.9580</b>	ng/L
Cu-Precon	63	280	4375	4094.674908	<b>627.4579</b>	ng/L
Cu-Precon	65	139	2124	1984.623871	<b>631.5973</b>	ng/L
Zn-Precon	66	361	4600	4238.443754	<b>2079.1238</b>	ng/L
Zn-Precon	68	284	3094	2809.724771	<b>2042.6497</b>	ng/L
Cd-Precon	111	4	-148	-152.761692	<b>-67.0606</b>	ng/L
Cd-Precon	114	41	-215	-256.249817	<b>-42.6990</b>	ng/L
Pb-Precon	208	56266	468338	412071.919770	<b>13425.0766</b>	ng/L
Tb-Precon	159	6	1046	1039.436264		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 21:39:46  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.149  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	73	-426.272565	<b>1.2214</b>	ng/L
Fe-Precon	54	138	451	313.630383	<b>56.5911</b>	ng/L
Fe-Precon	56	2645	8572	5927.080605	<b>53.6269</b>	ng/L
Fe-Precon	57	143	319	176.151650	<b>58.3924</b>	ng/L
Co-Precon	59	98	43	-55.010225	<b>-0.0275</b>	ng/L
Ni-Precon	60	66	41	-24.263382	<b>-0.0370</b>	ng/L
Cu-Precon	63	280	200	-79.562006	<b>-0.2586</b>	ng/L
Cu-Precon	65	139	85	-54.363372	<b>-0.7063</b>	ng/L
Zn-Precon	66	361	118	-243.286563	<b>-6.7214</b>	ng/L
Zn-Precon	68	284	98	-185.708116	<b>-8.3397</b>	ng/L
Cd-Precon	111	4	6	1.942333	<b>0.1436</b>	ng/L
Cd-Precon	114	41	16	-24.806246	<b>-0.1668</b>	ng/L
Pb-Precon	208	56266	198898	142631.533844	<b>458.3575</b>	ng/L
Tb-Precon	159	6	14	7.934215		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-MS2**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 21:52:56

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 148

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-MS2.150

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	206781	206282.567704	<b>46540.7039</b>	ng/L
Fe-Precon	54	138	59327	59189.848247	<b>94161.1500</b>	ng/L
Fe-Precon	56	2645	1186688	1184042.817027	<b>95696.2750</b>	ng/L
Fe-Precon	57	143	30940	30797.848468	<b>95932.2458</b>	ng/L
Co-Precon	59	98	258973	258874.454594	<b>17210.3918</b>	ng/L
Ni-Precon	60	66	55681	55615.420085	<b>18162.1733</b>	ng/L
Cu-Precon	63	280	119796	119516.205706	<b>18048.7566</b>	ng/L
Cu-Precon	65	139	57409	57269.541915	<b>17948.1767</b>	ng/L
Zn-Precon	66	361	185007	184646.005806	<b>88477.7943</b>	ng/L
Zn-Precon	68	284	124531	124246.921026	<b>88234.2402</b>	ng/L
Cd-Precon	111	4	38975	38970.856308	<b>17255.3367</b>	ng/L
Cd-Precon	114	41	96290	96249.217556	<b>17066.2358</b>	ng/L
Pb-Precon	208	56266	938563	882296.298524	<b>28855.1680</b>	ng/L
Tb-Precon	159	6	1004	998.052796		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 22:06:07  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.151  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	536	37.564666	<b>11.6620</b>	ng/L
Fe-Precon	54	138	1942	1804.070708	<b>293.5256</b>	ng/L
Fe-Precon	56	2645	38481	35836.423035	<b>295.2138</b>	ng/L
Fe-Precon	57	143	1070	927.887961	<b>292.4643</b>	ng/L
Co-Precon	59	98	56	-41.936538	<b>0.0594</b>	ng/L
Ni-Precon	60	66	125	59.280553	<b>2.6901</b>	ng/L
Cu-Precon	63	280	746	465.592322	<b>7.9698</b>	ng/L
Cu-Precon	65	139	343	203.088462	<b>7.3577</b>	ng/L
Zn-Precon	66	361	124	-236.796203	<b>-6.4106</b>	ng/L
Zn-Precon	68	284	123	-161.136182	<b>-6.5957</b>	ng/L
Cd-Precon	111	4	9	4.251212	<b>0.2459</b>	ng/L
Cd-Precon	114	41	17	-23.999263	<b>-0.1525</b>	ng/L
Pb-Precon	208	56266	196214	139947.926863	<b>449.5514</b>	ng/L
Tb-Precon	159	6	14	7.570576		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-MSD2**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 22:19:19

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 149

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-MSD2.152

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	250668	250169.436189	<b>56419.2834</b>	ng/L
Fe-Precon	54	138	70761	70623.577146	<b>112337.2936</b>	ng/L
Fe-Precon	56	2645	1410535	1407890.252689	<b>113777.1160</b>	ng/L
Fe-Precon	57	143	36612	36469.003662	<b>113590.8078</b>	ng/L
Co-Precon	59	98	314962	314863.911390	<b>20931.9299</b>	ng/L
Ni-Precon	60	66	66648	66582.376236	<b>21742.1328</b>	ng/L
Cu-Precon	63	280	145004	144724.121010	<b>21853.5461</b>	ng/L
Cu-Precon	65	139	69258	69118.497721	<b>21659.5575</b>	ng/L
Zn-Precon	66	361	225034	224673.069616	<b>107647.0856</b>	ng/L
Zn-Precon	68	284	151782	151498.283329	<b>107576.2403</b>	ng/L
Cd-Precon	111	4	47264	47259.299757	<b>20925.1331</b>	ng/L
Cd-Precon	114	41	116569	116527.781739	<b>20661.3132</b>	ng/L
Pb-Precon	208	56266	1052668	996401.870705	<b>32599.4643</b>	ng/L
Tb-Precon	159	6	1007	1000.561540		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 22:32:30  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.153  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	609	110.606693	<b>13.3061</b>	ng/L
Fe-Precon	54	138	2211	2073.820167	<b>336.4076</b>	ng/L
Fe-Precon	56	2645	43574	40929.504919	<b>336.3522</b>	ng/L
Fe-Precon	57	143	1216	1073.870621	<b>337.9197</b>	ng/L
Co-Precon	59	98	63	-34.677595	<b>0.1077</b>	ng/L
Ni-Precon	60	66	135	69.050400	<b>3.0090</b>	ng/L
Cu-Precon	63	280	831	551.229553	<b>9.2623</b>	ng/L
Cu-Precon	65	139	406	266.647544	<b>9.3485</b>	ng/L
Zn-Precon	66	361	133	-228.276577	<b>-6.0025</b>	ng/L
Zn-Precon	68	284	126	-158.310208	<b>-6.3951</b>	ng/L
Cd-Precon	111	4	8	4.203785	<b>0.2438</b>	ng/L
Cd-Precon	114	41	18	-22.833353	<b>-0.1318</b>	ng/L
Pb-Precon	208	56266	198894	142628.028799	<b>458.3460</b>	ng/L
Tb-Precon	159	6	12	5.606938		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-11**

**Sample Description: 10x**

**Batch ID: B121404**

Sample Date/Time: Saturday, August 11, 2012 22:45:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 150

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\1231002-11.154

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	15116	14617.215945	<b>3398.3819</b>	ng/L
Fe-Precon	54	138	4372	4234.444687	<b>6798.8103</b>	ng/L
Fe-Precon	56	2645	86628	83983.582895	<b>6841.1310</b>	ng/L
Fe-Precon	57	143	2343	2200.403296	<b>6886.9384</b>	ng/L
Co-Precon	59	98	2057	1959.387430	<b>133.6194</b>	ng/L
Ni-Precon	60	66	4109	4043.526815	<b>1327.4844</b>	ng/L
Cu-Precon	63	280	3441	3161.385479	<b>486.5906</b>	ng/L
Cu-Precon	65	139	1650	1510.125289	<b>482.9728</b>	ng/L
Zn-Precon	66	361	1963	1601.540989	<b>816.2893</b>	ng/L
Zn-Precon	68	284	1345	1061.358253	<b>801.7244</b>	ng/L
Cd-Precon	111	4	-173	-177.609634	<b>-78.0623</b>	ng/L
Cd-Precon	114	41	-253	-293.972882	<b>-49.3867</b>	ng/L
Pb-Precon	208	56266	485367	429100.373258	<b>13983.8536</b>	ng/L
Tb-Precon	159	6	1056	1049.807841		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 22:58:52  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.155  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	115	-384.072699	<b>2.1713</b>	ng/L
Fe-Precon	54	138	400	262.121725	<b>48.4028</b>	ng/L
Fe-Precon	56	2645	7997	5351.733539	<b>48.9796</b>	ng/L
Fe-Precon	57	143	287	144.711310	<b>48.6027</b>	ng/L
Co-Precon	59	98	48	-49.694166	<b>0.0079</b>	ng/L
Ni-Precon	60	66	38	-27.809720	<b>-0.1528</b>	ng/L
Cu-Precon	63	280	274	-5.567181	<b>0.8583</b>	ng/L
Cu-Precon	65	139	133	-6.345048	<b>0.7977</b>	ng/L
Zn-Precon	66	361	126	-235.338218	<b>-6.3407</b>	ng/L
Zn-Precon	68	284	120	-164.208176	<b>-6.8137</b>	ng/L
Cd-Precon	111	4	4	0.119727	<b>0.0629</b>	ng/L
Cd-Precon	114	41	17	-23.499853	<b>-0.1436</b>	ng/L
Pb-Precon	208	56266	198106	141839.426010	<b>455.7582</b>	ng/L
Tb-Precon	159	6	11	4.706501		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 23:12:04

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV7.156

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	56199	55700.354161	<b>1264.5864</b>	ng/L
Fe-Precon	54	138	14660	14522.618318	<b>2315.3870</b>	ng/L
Fe-Precon	56	2645	292164	289519.111083	<b>2344.2863</b>	ng/L
Fe-Precon	57	143	7689	7546.861952	<b>2353.4476</b>	ng/L
Co-Precon	59	98	74898	74799.775900	<b>497.5215</b>	ng/L
Ni-Precon	60	66	15085	15019.730492	<b>491.0463</b>	ng/L
Cu-Precon	63	280	33306	33026.340262	<b>499.4296</b>	ng/L
Cu-Precon	65	139	16055	15915.768762	<b>499.5170</b>	ng/L
Zn-Precon	66	361	53914	53552.723967	<b>2569.6140</b>	ng/L
Zn-Precon	68	284	36649	36364.823176	<b>2585.8806</b>	ng/L
Cd-Precon	111	4	11602	11598.097318	<b>513.5757</b>	ng/L
Cd-Precon	114	41	28703	28662.524835	<b>508.4155</b>	ng/L
Pb-Precon	208	56266	666785	610518.242136	<b>1993.6957</b>	ng/L
Tb-Precon	159	6	8	1.454550		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 23:25:15  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.157  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	313	-185.575571	<b>6.6393</b>	ng/L
Fe-Precon	54	138	853	715.514167	<b>120.4783</b>	ng/L
Fe-Precon	56	2645	16812	14166.896852	<b>120.1824</b>	ng/L
Fe-Precon	57	143	509	366.530743	<b>117.6717</b>	ng/L
Co-Precon	59	98	42	-56.243118	<b>-0.0357</b>	ng/L
Ni-Precon	60	66	86	20.360439	<b>1.4196</b>	ng/L
Cu-Precon	63	280	465	185.552274	<b>3.7429</b>	ng/L
Cu-Precon	65	139	220	80.175613	<b>3.5078</b>	ng/L
Zn-Precon	66	361	126	-234.981489	<b>-6.3236</b>	ng/L
Zn-Precon	68	284	111	-172.835193	<b>-7.4260</b>	ng/L
Cd-Precon	111	4	9	4.701101	<b>0.2658</b>	ng/L
Cd-Precon	114	41	18	-22.740134	<b>-0.1301</b>	ng/L
Pb-Precon	208	56266	205002	148735.446095	<b>478.3870</b>	ng/L
Tb-Precon	159	6	5	-0.848485		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 23:38:27

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB7.158

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	191	-307.855789	<b>3.8869</b>	ng/L
Fe-Precon	54	138	162	24.696795	<b>10.6594</b>	ng/L
Fe-Precon	56	2645	3358	713.268035	<b>11.5133</b>	ng/L
Fe-Precon	57	143	166	23.602200	<b>10.8923</b>	ng/L
Co-Precon	59	98	74	-24.228951	<b>0.1771</b>	ng/L
Ni-Precon	60	66	74	8.651197	<b>1.0374</b>	ng/L
Cu-Precon	63	280	242	-37.796247	<b>0.3718</b>	ng/L
Cu-Precon	65	139	122	-17.084292	<b>0.4614</b>	ng/L
Zn-Precon	66	361	290	-70.740515	<b>1.5420</b>	ng/L
Zn-Precon	68	284	233	-50.576280	<b>1.2515</b>	ng/L
Cd-Precon	111	4	9	5.063511	<b>0.2818</b>	ng/L
Cd-Precon	114	41	28	-12.569923	<b>0.0502</b>	ng/L
Pb-Precon	208	56266	532470	476203.345548	<b>1552.9505</b>	ng/L
Tb-Precon	159	6	8	1.572298		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, August 11, 2012 23:51:39  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.159  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	47	-451.997502	<b>0.6424</b>	ng/L
Fe-Precon	54	138	184	46.515561	<b>14.1280</b>	ng/L
Fe-Precon	56	2645	3763	1118.099537	<b>14.7833</b>	ng/L
Fe-Precon	57	143	179	36.329785	<b>14.8554</b>	ng/L
Co-Precon	59	98	44	-54.061304	<b>-0.0212</b>	ng/L
Ni-Precon	60	66	36	-30.116221	<b>-0.2281</b>	ng/L
Cu-Precon	63	280	184	-96.324115	<b>-0.5116</b>	ng/L
Cu-Precon	65	139	99	-40.323248	<b>-0.2665</b>	ng/L
Zn-Precon	66	361	103	-257.922273	<b>-7.4223</b>	ng/L
Zn-Precon	68	284	113	-170.583984	<b>-7.2662</b>	ng/L
Cd-Precon	111	4	9	4.379164	<b>0.2515</b>	ng/L
Cd-Precon	114	41	20	-20.812158	<b>-0.0959</b>	ng/L
Pb-Precon	208	56266	206128	149861.663090	<b>482.0826</b>	ng/L
Tb-Precon	159	6	5	-0.928138		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS2**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 00:04:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 151

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS2.160

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	1398	899.590297	<b>31.0655</b>	ng/L
Fe-Precon	54	138	5664	5526.070791	<b>885.2102</b>	ng/L
Fe-Precon	56	2645	113904	111258.815489	<b>904.4235</b>	ng/L
Fe-Precon	57	143	2970	2827.261354	<b>883.8818</b>	ng/L
Co-Precon	59	98	2922	2823.479849	<b>19.1054</b>	ng/L
Ni-Precon	60	66	1877	1811.288988	<b>59.8812</b>	ng/L
Cu-Precon	63	280	1755	1475.556631	<b>23.2138</b>	ng/L
Cu-Precon	65	139	813	673.634256	<b>22.0964</b>	ng/L
Zn-Precon	66	361	1223	862.351937	<b>46.2286</b>	ng/L
Zn-Precon	68	284	860	576.265034	<b>45.7423</b>	ng/L
Cd-Precon	111	4	51	46.265583	<b>2.1061</b>	ng/L
Cd-Precon	114	41	157	116.634277	<b>2.3408</b>	ng/L
Pb-Precon	208	56266	553320	497053.318158	<b>1621.3683</b>	ng/L
Tb-Precon	159	6	8	1.513421		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 00:18:01  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.161  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	40	-458.736929	<b>0.4907</b>	ng/L
Fe-Precon	54	138	429	291.107131	<b>53.0106</b>	ng/L
Fe-Precon	56	2645	8312	5667.190353	<b>51.5277</b>	ng/L
Fe-Precon	57	143	292	149.106225	<b>49.9711</b>	ng/L
Co-Precon	59	98	41	-57.354835	<b>-0.0431</b>	ng/L
Ni-Precon	60	66	41	-24.536970	<b>-0.0460</b>	ng/L
Cu-Precon	63	280	190	-89.591906	<b>-0.4100</b>	ng/L
Cu-Precon	65	139	94	-45.649784	<b>-0.4334</b>	ng/L
Zn-Precon	66	361	122	-238.829435	<b>-6.5079</b>	ng/L
Zn-Precon	68	284	107	-177.212838	<b>-7.7367</b>	ng/L
Cd-Precon	111	4	8	3.301354	<b>0.2038</b>	ng/L
Cd-Precon	114	41	15	-25.803306	<b>-0.1844</b>	ng/L
Pb-Precon	208	56266	211832	155565.106318	<b>500.7981</b>	ng/L
Tb-Precon	159	6	5	-1.676193		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS3**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 00:31:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 152

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS3.162

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	2731	2232.671870	<b>61.0721</b>	ng/L
Fe-Precon	54	138	11666	11528.569197	<b>1839.4245</b>	ng/L
Fe-Precon	56	2645	232902	230256.773969	<b>1865.6063</b>	ng/L
Fe-Precon	57	143	6084	5941.664983	<b>1853.6294</b>	ng/L
Co-Precon	59	98	5800	5702.123961	<b>38.2394</b>	ng/L
Ni-Precon	60	66	3479	3413.731708	<b>112.1899</b>	ng/L
Cu-Precon	63	280	2959	2679.268247	<b>41.3822</b>	ng/L
Cu-Precon	65	139	1426	1286.757135	<b>41.3008</b>	ng/L
Zn-Precon	66	361	2067	1706.131823	<b>86.6379</b>	ng/L
Zn-Precon	68	284	1416	1132.140314	<b>85.1963</b>	ng/L
Cd-Precon	111	4	105	101.203526	<b>4.5385</b>	ng/L
Cd-Precon	114	41	291	250.500960	<b>4.7140</b>	ng/L
Pb-Precon	208	56266	567359	511092.978551	<b>1667.4385</b>	ng/L
Tb-Precon	159	6	7	1.302167		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 00:44:23  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.163  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	38	-460.478944	<b>0.4515</b>	ng/L
Fe-Precon	54	138	608	470.212752	<b>81.4829</b>	ng/L
Fe-Precon	56	2645	11426	8781.414416	<b>76.6822</b>	ng/L
Fe-Precon	57	143	384	241.835390	<b>78.8447</b>	ng/L
Co-Precon	59	98	43	-55.339235	<b>-0.0297</b>	ng/L
Ni-Precon	60	66	46	-20.093661	<b>0.0991</b>	ng/L
Cu-Precon	63	280	213	-67.343410	<b>-0.0742</b>	ng/L
Cu-Precon	65	139	102	-37.653079	<b>-0.1829</b>	ng/L
Zn-Precon	66	361	108	-253.278150	<b>-7.1999</b>	ng/L
Zn-Precon	68	284	106	-177.652527	<b>-7.7679</b>	ng/L
Cd-Precon	111	4	8	3.999332	<b>0.2347</b>	ng/L
Cd-Precon	114	41	20	-21.093021	<b>-0.1009</b>	ng/L
Pb-Precon	208	56266	217158	160891.440397	<b>518.2761</b>	ng/L
Tb-Precon	159	6	7	1.236366		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS4**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 00:57:34

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 153

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS4.164

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	3926	3427.694112	<b>87.9711</b>	ng/L
Fe-Precon	54	138	17173	17035.537968	<b>2714.8646</b>	ng/L
Fe-Precon	56	2645	343848	341202.979074	<b>2761.7527</b>	ng/L
Fe-Precon	57	143	9037	8894.832773	<b>2773.1721</b>	ng/L
Co-Precon	59	98	8550	8452.327612	<b>56.5196</b>	ng/L
Ni-Precon	60	66	4223	4157.376541	<b>136.4649</b>	ng/L
Cu-Precon	63	280	4248	3968.091254	<b>60.8352</b>	ng/L
Cu-Precon	65	139	1989	1849.318508	<b>58.9216</b>	ng/L
Zn-Precon	66	361	2934	2573.044380	<b>128.1550</b>	ng/L
Zn-Precon	68	284	2017	1733.290009	<b>127.8636</b>	ng/L
Cd-Precon	111	4	142	137.893450	<b>6.1630</b>	ng/L
Cd-Precon	114	41	404	363.400206	<b>6.7155</b>	ng/L
Pb-Precon	208	56266	561948	505681.645879	<b>1649.6816</b>	ng/L
Tb-Precon	159	6	13	6.929885		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 01:10:45  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.165  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	45	-453.375884	<b>0.6113</b>	ng/L
Fe-Precon	54	138	782	644.416768	<b>109.1760</b>	ng/L
Fe-Precon	56	2645	15734	13088.974180	<b>111.4757</b>	ng/L
Fe-Precon	57	143	482	339.650068	<b>109.3017</b>	ng/L
Co-Precon	59	98	39	-59.242285	<b>-0.0556</b>	ng/L
Ni-Precon	60	66	48	-17.586287	<b>0.1809</b>	ng/L
Cu-Precon	63	280	214	-65.833191	<b>-0.0514</b>	ng/L
Cu-Precon	65	139	105	-34.872120	<b>-0.0958</b>	ng/L
Zn-Precon	66	361	117	-244.367121	<b>-6.7731</b>	ng/L
Zn-Precon	68	284	114	-169.832519	<b>-7.2129</b>	ng/L
Cd-Precon	111	4	4	0.213772	<b>0.0671</b>	ng/L
Cd-Precon	114	41	22	-19.023733	<b>-0.0642</b>	ng/L
Pb-Precon	208	56266	223166	166899.338429	<b>537.9906</b>	ng/L
Tb-Precon	159	6	4	-2.524678		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS5**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 01:23:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 154

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS5.166

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	6397	5898.270971	<b>143.5818</b>	ng/L
Fe-Precon	54	138	28175	28037.768775	<b>4463.8840</b>	ng/L
Fe-Precon	56	2645	569472	566827.081231	<b>4584.1875</b>	ng/L
Fe-Precon	57	143	14898	14754.946801	<b>4597.8654</b>	ng/L
Co-Precon	59	98	14165	14066.899749	<b>93.8388</b>	ng/L
Ni-Precon	60	66	6403	6336.832422	<b>207.6092</b>	ng/L
Cu-Precon	63	280	6979	6699.222659	<b>102.0579</b>	ng/L
Cu-Precon	65	139	3251	3111.511953	<b>98.4566</b>	ng/L
Zn-Precon	66	361	4876	4514.988507	<b>221.1563</b>	ng/L
Zn-Precon	68	284	3346	3061.952434	<b>222.1671</b>	ng/L
Cd-Precon	111	4	233	228.601353	<b>10.1792</b>	ng/L
Cd-Precon	114	41	649	608.603596	<b>11.0626</b>	ng/L
Pb-Precon	208	56266	568496	512229.968242	<b>1671.1694</b>	ng/L
Tb-Precon	159	6	15	9.229456		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 01:37:06  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.167  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	48	-451.204400	<b>0.6602</b>	ng/L
Fe-Precon	54	138	1267	1129.579968	<b>186.3022</b>	ng/L
Fe-Precon	56	2645	25160	22514.789926	<b>187.6109</b>	ng/L
Fe-Precon	57	143	727	583.939170	<b>185.3672</b>	ng/L
Co-Precon	59	98	38	-60.551381	<b>-0.0643</b>	ng/L
Ni-Precon	60	66	57	-8.249415	<b>0.4857</b>	ng/L
Cu-Precon	63	280	268	-11.510510	<b>0.7685</b>	ng/L
Cu-Precon	65	139	131	-8.533840	<b>0.7292</b>	ng/L
Zn-Precon	66	361	112	-248.879697	<b>-6.9892</b>	ng/L
Zn-Precon	68	284	121	-163.193464	<b>-6.7417</b>	ng/L
Cd-Precon	111	4	9	4.932510	<b>0.2760</b>	ng/L
Cd-Precon	114	41	20	-20.662619	<b>-0.0933</b>	ng/L
Pb-Precon	208	56266	222470	166203.443881	<b>535.7071</b>	ng/L
Tb-Precon	159	6	5	-1.160173		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS6**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 01:50:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 155

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS6.168

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	12939	12440.465508	<b>290.8413</b>	ng/L
Fe-Precon	54	138	58727	58589.027558	<b>9320.6028</b>	ng/L
Fe-Precon	56	2645	1175483	1172838.225566	<b>9479.1246</b>	ng/L
Fe-Precon	57	143	30548	30405.335449	<b>9471.0058</b>	ng/L
Co-Precon	59	98	28314	28215.935001	<b>187.8854</b>	ng/L
Ni-Precon	60	66	11205	11138.929913	<b>364.3647</b>	ng/L
Cu-Precon	63	280	13468	13187.821224	<b>199.9944</b>	ng/L
Cu-Precon	65	139	6352	6212.410089	<b>195.5843</b>	ng/L
Zn-Precon	66	361	9598	9236.977007	<b>447.2963</b>	ng/L
Zn-Precon	68	284	6509	6225.380106	<b>446.6954</b>	ng/L
Cd-Precon	111	4	443	438.727693	<b>19.4828</b>	ng/L
Cd-Precon	114	41	1304	1263.261494	<b>22.6687</b>	ng/L
Pb-Precon	208	56266	600003	543736.268153	<b>1774.5552</b>	ng/L
Tb-Precon	159	6	26	19.757628		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 02:03:27  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.169  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	58	-440.447625	<b>0.9024</b>	ng/L
Fe-Precon	54	138	2039	1901.164336	<b>308.9606</b>	ng/L
Fe-Precon	56	2645	40516	37870.798526	<b>311.6461</b>	ng/L
Fe-Precon	57	143	1102	959.051878	<b>302.1680</b>	ng/L
Co-Precon	59	98	49	-49.385946	<b>0.0099</b>	ng/L
Ni-Precon	60	66	62	-3.709124	<b>0.6339</b>	ng/L
Cu-Precon	63	280	316	36.232260	<b>1.4892</b>	ng/L
Cu-Precon	65	139	131	-8.519971	<b>0.7296</b>	ng/L
Zn-Precon	66	361	116	-244.595728	<b>-6.7841</b>	ng/L
Zn-Precon	68	284	103	-180.717591	<b>-7.9855</b>	ng/L
Cd-Precon	111	4	5	1.106063	<b>0.1066</b>	ng/L
Cd-Precon	114	41	24	-17.235593	<b>-0.0325</b>	ng/L
Pb-Precon	208	56266	227242	170975.464318	<b>551.3661</b>	ng/L
Tb-Precon	159	6	8	2.278792		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS7**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 02:16:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 156

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS7.170

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	37	-461.715302	<b>0.4236</b>	ng/L
Fe-Precon	54	138	192	54.675333	<b>15.4251</b>	ng/L
Fe-Precon	56	2645	3779	1134.104030	<b>14.9126</b>	ng/L
Fe-Precon	57	143	156	12.997840	<b>7.5904</b>	ng/L
Co-Precon	59	98	68	-30.119942	<b>0.1380</b>	ng/L
Ni-Precon	60	66	32	-33.593300	<b>-0.3416</b>	ng/L
Cu-Precon	63	280	127	-152.461042	<b>-1.3589</b>	ng/L
Cu-Precon	65	139	62	-77.574003	<b>-1.4333</b>	ng/L
Zn-Precon	66	361	67	-294.380194	<b>-9.1683</b>	ng/L
Zn-Precon	68	284	58	-225.383106	<b>-11.1557</b>	ng/L
Cd-Precon	111	4	12	7.877352	<b>0.4064</b>	ng/L
Cd-Precon	114	41	27	-14.013545	<b>0.0246</b>	ng/L
Pb-Precon	208	56266	597100	540833.721850	<b>1765.0307</b>	ng/L
Tb-Precon	159	6	6	-0.062337		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 02:29:48  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.171  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	53	-446.130795	<b>0.7744</b>	ng/L
Fe-Precon	54	138	240	102.573304	<b>23.0394</b>	ng/L
Fe-Precon	56	2645	4672	2026.892949	<b>22.1239</b>	ng/L
Fe-Precon	57	143	172	29.271748	<b>12.6577</b>	ng/L
Co-Precon	59	98	110	11.425225	<b>0.4141</b>	ng/L
Ni-Precon	60	66	39	-27.061676	<b>-0.1284</b>	ng/L
Cu-Precon	63	280	143	-137.045934	<b>-1.1262</b>	ng/L
Cu-Precon	65	139	68	-71.682972	<b>-1.2488</b>	ng/L
Zn-Precon	66	361	76	-285.538517	<b>-8.7449</b>	ng/L
Zn-Precon	68	284	82	-202.068600	<b>-9.5009</b>	ng/L
Cd-Precon	111	4	7	2.809620	<b>0.1820</b>	ng/L
Cd-Precon	114	41	22	-19.185851	<b>-0.0671</b>	ng/L
Pb-Precon	208	56266	576718	520451.090581	<b>1698.1465</b>	ng/L
Tb-Precon	159	6	5	-0.706493		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS8**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 02:42:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 157

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS8.172

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	30	-468.679865	<b>0.2669</b>	ng/L
Fe-Precon	54	138	113	-24.862808	<b>2.7810</b>	ng/L
Fe-Precon	56	2645	2337	-308.107784	<b>3.2634</b>	ng/L
Fe-Precon	57	143	117	-25.468847	<b>-4.3872</b>	ng/L
Co-Precon	59	98	61	-37.420507	<b>0.0894</b>	ng/L
Ni-Precon	60	66	33	-33.212349	<b>-0.3292</b>	ng/L
Cu-Precon	63	280	134	-146.140586	<b>-1.2635</b>	ng/L
Cu-Precon	65	139	57	-82.675371	<b>-1.5931</b>	ng/L
Zn-Precon	66	361	60	-301.459062	<b>-9.5073</b>	ng/L
Zn-Precon	68	284	58	-225.833324	<b>-11.1876</b>	ng/L
Cd-Precon	111	4	10	5.619099	<b>0.3064</b>	ng/L
Cd-Precon	114	41	25	-15.472287	<b>-0.0013</b>	ng/L
Pb-Precon	208	56266	596863	540596.896493	<b>1764.2536</b>	ng/L
Tb-Precon	159	6	7	0.803467		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 02:56:09  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.173  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	45	-453.427819	<b>0.6102</b>	ng/L
Fe-Precon	54	138	197	59.645305	<b>16.2152</b>	ng/L
Fe-Precon	56	2645	3777	1132.052340	<b>14.8960</b>	ng/L
Fe-Precon	57	143	152	9.544885	<b>6.5152</b>	ng/L
Co-Precon	59	98	96	-2.420877	<b>0.3221</b>	ng/L
Ni-Precon	60	66	38	-28.041764	<b>-0.1604</b>	ng/L
Cu-Precon	63	280	140	-139.968901	<b>-1.1704</b>	ng/L
Cu-Precon	65	139	69	-70.062243	<b>-1.1980</b>	ng/L
Zn-Precon	66	361	71	-290.300484	<b>-8.9729</b>	ng/L
Zn-Precon	68	284	75	-209.050490	<b>-9.9964</b>	ng/L
Cd-Precon	111	4	12	7.510736	<b>0.3902</b>	ng/L
Cd-Precon	114	41	21	-19.645795	<b>-0.0753</b>	ng/L
Pb-Precon	208	56266	576547	520280.091967	<b>1697.5854</b>	ng/L
Tb-Precon	159	6	4	-1.696971		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121404-BS9**

**Sample Description:**

**Batch ID: B121404**

Sample Date/Time: Sunday, August 12, 2012 03:09:20

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 158

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\B121404-BS9.174

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	26	-473.251313	<b>0.1640</b>	ng/L
Fe-Precon	54	138	107	-30.490689	<b>1.8863</b>	ng/L
Fe-Precon	56	2645	1986	-659.187763	<b>0.4276</b>	ng/L
Fe-Precon	57	143	106	-36.755551	<b>-7.9016</b>	ng/L
Co-Precon	59	98	54	-43.907117	<b>0.0463</b>	ng/L
Ni-Precon	60	66	31	-35.099803	<b>-0.3908</b>	ng/L
Cu-Precon	63	280	116	-164.350517	<b>-1.5384</b>	ng/L
Cu-Precon	65	139	62	-77.071859	<b>-1.4176</b>	ng/L
Zn-Precon	66	361	60	-300.863376	<b>-9.4788</b>	ng/L
Zn-Precon	68	284	66	-217.673904	<b>-10.6085</b>	ng/L
Cd-Precon	111	4	9	5.196327	<b>0.2877</b>	ng/L
Cd-Precon	114	41	23	-17.461990	<b>-0.0366</b>	ng/L
Pb-Precon	208	56266	592325	536058.515758	<b>1749.3612</b>	ng/L
Tb-Precon	159	6	5	-0.907360		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 03:22:30  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.175  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	34	-465.050391	<b>0.3486</b>	ng/L
Fe-Precon	54	138	160	22.882148	<b>10.3710</b>	ng/L
Fe-Precon	56	2645	2965	320.332077	<b>8.3395</b>	ng/L
Fe-Precon	57	143	136	-6.649469	<b>1.4727</b>	ng/L
Co-Precon	59	98	77	-21.389075	<b>0.1960</b>	ng/L
Ni-Precon	60	66	41	-24.661657	<b>-0.0500</b>	ng/L
Cu-Precon	63	280	127	-153.125945	<b>-1.3689</b>	ng/L
Cu-Precon	65	139	64	-75.915121	<b>-1.3814</b>	ng/L
Zn-Precon	66	361	71	-290.272788	<b>-8.9716</b>	ng/L
Zn-Precon	68	284	78	-206.349155	<b>-9.8047</b>	ng/L
Cd-Precon	111	4	10	5.412242	<b>0.2973</b>	ng/L
Cd-Precon	114	41	21	-19.381896	<b>-0.0706</b>	ng/L
Pb-Precon	208	56266	584646	528380.003405	<b>1724.1647</b>	ng/L
Tb-Precon	159	6	8	1.419915		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 03:35:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCV8.176

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	24	-474.868643	<b>0.1276</b>	ng/L
Fe-Precon	54	138	95	-42.248478	<b>0.0172</b>	ng/L
Fe-Precon	56	2645	1941	-703.981839	<b>0.0658</b>	ng/L
Fe-Precon	57	143	113	-29.946888	<b>-5.7816</b>	ng/L
Co-Precon	59	98	64	-33.905321	<b>0.1128</b>	ng/L
Ni-Precon	60	66	28	-37.548296	<b>-0.4707</b>	ng/L
Cu-Precon	63	280	127	-152.745032	<b>-1.3632</b>	ng/L
Cu-Precon	65	139	61	-78.135031	<b>-1.4509</b>	ng/L
Zn-Precon	66	361	59	-302.550007	<b>-9.5596</b>	ng/L
Zn-Precon	68	284	68	-215.454010	<b>-10.4509</b>	ng/L
Cd-Precon	111	4	11	6.855035	<b>0.3611</b>	ng/L
Cd-Precon	114	41	25	-16.073251	<b>-0.0119</b>	ng/L
Pb-Precon	208	56266	596275	540008.396472	<b>1762.3225</b>	ng/L
Tb-Precon	159	6	5	-1.246753		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 03:48:53  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.177  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	23	-475.852194	<b>0.1054</b>	ng/L
Fe-Precon	54	138	76	-61.188979	<b>-2.9938</b>	ng/L
Fe-Precon	56	2645	1604	-1040.840472	<b>-2.6551</b>	ng/L
Fe-Precon	57	143	103	-39.484664	<b>-8.7514</b>	ng/L
Co-Precon	59	98	55	-43.304505	<b>0.0503</b>	ng/L
Ni-Precon	60	66	33	-32.460823	<b>-0.3046</b>	ng/L
Cu-Precon	63	280	123	-157.105246	<b>-1.4290</b>	ng/L
Cu-Precon	65	139	58	-81.837269	<b>-1.5669</b>	ng/L
Zn-Precon	66	361	54	-307.339619	<b>-9.7889</b>	ng/L
Zn-Precon	68	284	68	-215.596002	<b>-10.4610</b>	ng/L
Cd-Precon	111	4	9	4.322185	<b>0.2490</b>	ng/L
Cd-Precon	114	41	20	-20.495746	<b>-0.0903</b>	ng/L
Pb-Precon	208	56266	605046	548780.070386	<b>1791.1061</b>	ng/L
Tb-Precon	159	6	5	-1.156711		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 04:02:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\1200624.sam

Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth

Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-CCB8.178

Calibration File: C:\Elandata\System\2012\8-12\1200624.cal

Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	27	-471.755195	<b>0.1976</b>	ng/L
Fe-Precon	54	138	79	-58.075561	<b>-2.4988</b>	ng/L
Fe-Precon	56	2645	1378	-1266.641308	<b>-4.4790</b>	ng/L
Fe-Precon	57	143	93	-50.006000	<b>-12.0275</b>	ng/L
Co-Precon	59	98	56	-41.666390	<b>0.0612</b>	ng/L
Ni-Precon	60	66	32	-33.659099	<b>-0.3437</b>	ng/L
Cu-Precon	63	280	125	-154.940730	<b>-1.3963</b>	ng/L
Cu-Precon	65	139	53	-86.751588	<b>-1.7208</b>	ng/L
Zn-Precon	66	361	57	-304.388955	<b>-9.6476</b>	ng/L
Zn-Precon	68	284	66	-217.912891	<b>-10.6255</b>	ng/L
Cd-Precon	111	4	11	6.719114	<b>0.3551</b>	ng/L
Cd-Precon	114	41	24	-16.552486	<b>-0.0204</b>	ng/L
Pb-Precon	208	56266	614806	558539.126816	<b>1823.1298</b>	ng/L
Tb-Precon	159	6	7	1.052816		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 04:15:16  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.179  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	24	-475.166470	<b>0.1209</b>	ng/L
Fe-Precon	54	138	61	-77.002172	<b>-5.5076</b>	ng/L
Fe-Precon	56	2645	1258	-1387.356787	<b>-5.4541</b>	ng/L
Fe-Precon	57	143	100	-42.355677	<b>-9.6453</b>	ng/L
Co-Precon	59	98	56	-42.417894	<b>0.0562</b>	ng/L
Ni-Precon	60	66	26	-39.834018	<b>-0.5453</b>	ng/L
Cu-Precon	63	280	115	-164.783379	<b>-1.5449</b>	ng/L
Cu-Precon	65	139	60	-79.658893	<b>-1.4986</b>	ng/L
Zn-Precon	66	361	57	-304.402803	<b>-9.6483</b>	ng/L
Zn-Precon	68	284	66	-218.155328	<b>-10.6427</b>	ng/L
Cd-Precon	111	4	8	3.742475	<b>0.2233</b>	ng/L
Cd-Precon	114	41	25	-15.452266	<b>-0.0009</b>	ng/L
Pb-Precon	208	56266	615409	559143.047483	<b>1825.1115</b>	ng/L
Tb-Precon	159	6	5	-0.948919		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 04:28:26  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.180  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	24	-474.626213	<b>0.1330</b>	ng/L
Fe-Precon	54	138	64	-73.660087	<b>-4.9763</b>	ng/L
Fe-Precon	56	2645	1193	-1451.712189	<b>-5.9739</b>	ng/L
Fe-Precon	57	143	92	-50.840650	<b>-12.2873</b>	ng/L
Co-Precon	59	98	49	-48.842216	<b>0.0135</b>	ng/L
Ni-Precon	60	66	30	-35.712797	<b>-0.4108</b>	ng/L
Cu-Precon	63	280	104	-175.924650	<b>-1.7131</b>	ng/L
Cu-Precon	65	139	61	-78.266648	<b>-1.4550</b>	ng/L
Zn-Precon	66	361	51	-309.826231	<b>-9.9080</b>	ng/L
Zn-Precon	68	284	65	-218.539756	<b>-10.6699</b>	ng/L
Cd-Precon	111	4	7	2.772138	<b>0.1804</b>	ng/L
Cd-Precon	114	41	23	-17.684730	<b>-0.0405</b>	ng/L
Pb-Precon	208	56266	626884	570617.226384	<b>1862.7632</b>	ng/L
Tb-Precon	159	6	6	0.242426		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 04:41:35  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.181  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	19	-479.485106	<b>0.0237</b>	ng/L
Fe-Precon	54	138	55	-82.086203	<b>-6.3158</b>	ng/L
Fe-Precon	56	2645	1107	-1537.867320	<b>-6.6698</b>	ng/L
Fe-Precon	57	143	91	-51.287393	<b>-12.4265</b>	ng/L
Co-Precon	59	98	54	-43.869026	<b>0.0466</b>	ng/L
Ni-Precon	60	66	34	-31.553459	<b>-0.2750</b>	ng/L
Cu-Precon	63	280	110	-170.248479	<b>-1.6274</b>	ng/L
Cu-Precon	65	139	57	-82.761942	<b>-1.5958</b>	ng/L
Zn-Precon	66	361	62	-299.038254	<b>-9.3914</b>	ng/L
Zn-Precon	68	284	66	-217.715508	<b>-10.6114</b>	ng/L
Cd-Precon	111	4	13	8.365346	<b>0.4280</b>	ng/L
Cd-Precon	114	41	21	-20.214487	<b>-0.0854</b>	ng/L
Pb-Precon	208	56266	613727	557460.452809	<b>1819.5902</b>	ng/L
Tb-Precon	159	6	6	-0.187013		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 04:54:45  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.182  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	23	-476.059980	<b>0.1007</b>	ng/L
Fe-Precon	54	138	55	-82.546821	<b>-6.3890</b>	ng/L
Fe-Precon	56	2645	1064	-1581.317142	<b>-7.0207</b>	ng/L
Fe-Precon	57	143	86	-56.617338	<b>-14.0861</b>	ng/L
Co-Precon	59	98	48	-50.019707	<b>0.0057</b>	ng/L
Ni-Precon	60	66	33	-33.136156	<b>-0.3267</b>	ng/L
Cu-Precon	63	280	105	-175.024245	<b>-1.6995</b>	ng/L
Cu-Precon	65	139	56	-83.108272	<b>-1.6067</b>	ng/L
Zn-Precon	66	361	59	-301.715338	<b>-9.5196</b>	ng/L
Zn-Precon	68	284	63	-221.171809	<b>-10.8568</b>	ng/L
Cd-Precon	111	4	9	5.176507	<b>0.2868</b>	ng/L
Cd-Precon	114	41	30	-10.940344	<b>0.0791</b>	ng/L
Pb-Precon	208	56266	625148	568881.870496	<b>1857.0688</b>	ng/L
Tb-Precon	159	6	5	-1.270997		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 05:07:54  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.183  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	19	-479.942256	<b>0.0134</b>	ng/L
Fe-Precon	54	138	54	-83.388380	<b>-6.5228</b>	ng/L
Fe-Precon	56	2645	985	-1660.011451	<b>-7.6564</b>	ng/L
Fe-Precon	57	143	85	-57.486595	<b>-14.3567</b>	ng/L
Co-Precon	59	98	53	-45.531382	<b>0.0355</b>	ng/L
Ni-Precon	60	66	28	-37.832281	<b>-0.4800</b>	ng/L
Cu-Precon	63	280	103	-176.433808	<b>-1.7207</b>	ng/L
Cu-Precon	65	139	52	-87.475374	<b>-1.7435</b>	ng/L
Zn-Precon	66	361	65	-296.212238	<b>-9.2560</b>	ng/L
Zn-Precon	68	284	58	-225.559729	<b>-11.1682</b>	ng/L
Cd-Precon	111	4	11	6.495844	<b>0.3452</b>	ng/L
Cd-Precon	114	41	22	-18.390088	<b>-0.0530</b>	ng/L
Pb-Precon	208	56266	633671	577404.192157	<b>1885.0342</b>	ng/L
Tb-Precon	159	6	3	-3.310825		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, August 12, 2012 05:21:04  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\1200624.sam  
 Method File: C:\Elandata\Method\2012\8-12\1200624-0063-ICPMS2-MEL.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\8-12\1200624\rinse.184  
 Calibration File: C:\Elandata\System\2012\8-12\1200624.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\8-12\1200624\SEQ-ICB1.020

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	499	22	-476.783798	<b>0.0845</b>	ng/L
Fe-Precon	54	138	48	-90.003174	<b>-7.5744</b>	ng/L
Fe-Precon	56	2645	923	-1722.352798	<b>-8.1599</b>	ng/L
Fe-Precon	57	143	99	-43.574770	<b>-10.0249</b>	ng/L
Co-Precon	59	98	46	-52.024940	<b>-0.0076</b>	ng/L
Ni-Precon	60	66	33	-33.174242	<b>-0.3279</b>	ng/L
Cu-Precon	63	280	107	-173.185337	<b>-1.6717</b>	ng/L
Cu-Precon	65	139	48	-91.066812	<b>-1.8559</b>	ng/L
Zn-Precon	66	361	61	-300.056432	<b>-9.4401</b>	ng/L
Zn-Precon	68	284	69	-215.055724	<b>-10.4227</b>	ng/L
Cd-Precon	111	4	9	4.691177	<b>0.2653</b>	ng/L
Cd-Precon	114	41	24	-16.856505	<b>-0.0258</b>	ng/L
Pb-Precon	208	56266	635228	578961.985919	<b>1890.1460</b>	ng/L
Tb-Precon	159	6	5	-1.478788		mg/L

## ANALYSIS SEQUENCE

BRL Report 1231002

Brooks Rand Labs

1200695

Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200695-ICB1	1200695	QC	1		-			
1200695-CAL1	1200695	QC	2	1227100	-			
1200695-CAL2	1200695	QC	3	1227099	-			
1200695-CAL3	1200695	QC	4	1227098	-			
1200695-CAL4	1200695	QC	5	1227097	-			
1200695-CAL5	1200695	QC	6	1227096	-			
1200695-CAL6	1200695	QC	7	1227095	-			
1200695-CAL7	1200695	QC	8	1227094	-			
1200695-ICB2	1200695	QC	9		-			
1200695-ICV1	1200695	QC	10	1222023	-			
1200695-ICV2	1200695	QC	11	1222024	-			
1200695-ICB3	1200695	QC	12		-			
1200695-IBL1	1200695	QC	13		-			
1200695-IBL2	1200695	QC	14		-			
1200695-IBL3	1200695	QC	15		-			
1200695-IBL4	1200695	QC	16		-			
1200695-SCV1	1200695	QC	17	1131009	-			
1200695-SCV2	1200695	QC	18	1131010	-			
1200695-CCV1	1200695	QC	19	1227097	-			
1200695-CCB1	1200695	QC	20		-			
B121618-BLK1	B121618	QC	21		-			
B121618-BLK2	B121618	QC	22		-			
B121618-BLK3	B121618	QC	23		-			
B121618-BLK4	B121618	QC	24		-			
B121618-BS1	B121618	QC	25		-			
B121618-SRM1	B121618	QC	26		-			

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121618-SRM2	B121618	QC	27		-			
1235028-01	B121618	Zn-W-ChelCol-ICPMS-TR	28			USA-AB1104	9/10/2012	
1235028-01	B121618	n-W-ChelCol-ICPMS-NoMB-TH	29			USA-AB1104	9/10/2012	
1235028-01	B121618	Pb-W-ChelCol-ICPMS-TR	30			USA-AB1104	9/10/2012	
1235028-01	B121618	b-W-ChelCol-ICPMS-NoMB-TH	31			USA-AB1104	9/10/2012	
1235028-01	B121618	Ni-W-ChelCol-ICPMS-TR	32			USA-AB1104	9/10/2012	
1235028-01	B121618	i-W-ChelCol-ICPMS-NoMB-TH	33			USA-AB1104	9/10/2012	
1235028-01	B121618	Cu-W-ChelCol-ICPMS-TR	34			USA-AB1104	9/10/2012	
1235028-01	B121618	u-W-ChelCol-ICPMS-NoMB-TH	35			USA-AB1104	9/10/2012	
1235028-01	B121618	Cd-W-ChelCol-ICPMS-TR	36			USA-AB1104	9/10/2012	
1235028-01	B121618	d-W-ChelCol-ICPMS-NoMB-TH	37			USA-AB1104	9/10/2012	
B121618-DUP1	B121618	QC	38		1235028-01			
B121618-MS1	B121618	QC	39		1235028-01			
B121618-MSD1	B121618	QC	40		1235028-01			
1235028-02	B121618	Zn-W-ChelCol-ICPMS-TR	41			USA-AB1104	9/10/2012	
1235028-02	B121618	n-W-ChelCol-ICPMS-NoMB-TH	42			USA-AB1104	9/10/2012	
1235028-02	B121618	Pb-W-ChelCol-ICPMS-TR	43			USA-AB1104	9/10/2012	
1235028-02	B121618	b-W-ChelCol-ICPMS-NoMB-TH	44			USA-AB1104	9/10/2012	
1235028-02	B121618	Ni-W-ChelCol-ICPMS-TR	45			USA-AB1104	9/10/2012	
1235028-02	B121618	i-W-ChelCol-ICPMS-NoMB-TH	46			USA-AB1104	9/10/2012	
1235028-02	B121618	Cu-W-ChelCol-ICPMS-TR	47			USA-AB1104	9/10/2012	
1235028-02	B121618	u-W-ChelCol-ICPMS-NoMB-TH	48			USA-AB1104	9/10/2012	
1235028-02	B121618	Cd-W-ChelCol-ICPMS-TR	49			USA-AB1104	9/10/2012	
1235028-02	B121618	d-W-ChelCol-ICPMS-NoMB-TH	50			USA-AB1104	9/10/2012	
1200695-CCV2	1200695	QC	51	1227097	-			
1200695-CCB2	1200695	QC	52		-			

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1235028-03	B121618	Zn-W-ChelCol-ICPMS-TR	53			USA-AB1104	9/6/2012	
1235028-03	B121618	n-W-ChelCol-ICPMS-NoMB-TR	54			USA-AB1104	9/6/2012	
1235028-03	B121618	Pb-W-ChelCol-ICPMS-TR	55			USA-AB1104	9/6/2012	
1235028-03	B121618	b-W-ChelCol-ICPMS-NoMB-TR	56			USA-AB1104	9/6/2012	
1235028-03	B121618	Ni-W-ChelCol-ICPMS-TR	57			USA-AB1104	9/6/2012	
1235028-03	B121618	i-W-ChelCol-ICPMS-NoMB-TR	58			USA-AB1104	9/6/2012	
1235028-03	B121618	Cu-W-ChelCol-ICPMS-TR	59			USA-AB1104	9/6/2012	
1235028-03	B121618	u-W-ChelCol-ICPMS-NoMB-TR	60			USA-AB1104	9/6/2012	
1235028-03	B121618	Cd-W-ChelCol-ICPMS-TR	61			USA-AB1104	9/6/2012	
1235028-03	B121618	d-W-ChelCol-ICPMS-NoMB-TR	62			USA-AB1104	9/6/2012	
1235028-04	B121618	Zn-W-ChelCol-ICPMS-TR	63			USA-AB1104	9/10/2012	
1235028-04	B121618	n-W-ChelCol-ICPMS-NoMB-TR	64			USA-AB1104	9/10/2012	
1235028-04	B121618	Pb-W-ChelCol-ICPMS-TR	65			USA-AB1104	9/10/2012	
1235028-04	B121618	b-W-ChelCol-ICPMS-NoMB-TR	66			USA-AB1104	9/10/2012	
1235028-04	B121618	Ni-W-ChelCol-ICPMS-TR	67			USA-AB1104	9/10/2012	
1235028-04	B121618	i-W-ChelCol-ICPMS-NoMB-TR	68			USA-AB1104	9/10/2012	
1235028-04	B121618	Cu-W-ChelCol-ICPMS-TR	69			USA-AB1104	9/10/2012	
1235028-04	B121618	u-W-ChelCol-ICPMS-NoMB-TR	70			USA-AB1104	9/10/2012	
1235028-04	B121618	Cd-W-ChelCol-ICPMS-TR	71			USA-AB1104	9/10/2012	
1235028-04	B121618	d-W-ChelCol-ICPMS-NoMB-TR	72			USA-AB1104	9/10/2012	
1235028-01RE1	B121618	Zn-W-ChelCol-ICPMS-TR	73			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	n-W-ChelCol-ICPMS-NoMB-TR	74			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	Pb-W-ChelCol-ICPMS-TR	75			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	b-W-ChelCol-ICPMS-NoMB-TR	76			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	Ni-W-ChelCol-ICPMS-TR	77			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	i-W-ChelCol-ICPMS-NoMB-TR	78			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1235028-01RE1	B121618	Cu-W-ChelCol-ICPMS-TR	79			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	Cu-W-ChelCol-ICPMS-NoMB-TR	80			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	Cd-W-ChelCol-ICPMS-TR	81			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-01RE1	B121618	Cd-W-ChelCol-ICPMS-NoMB-TR	82			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
B121618-DUP2	B121618	QC	83		1235028-01RE1			
B121618-MS2	B121618	QC	84		1235028-01RE1			
B121618-MSD2	B121618	QC	85		1235028-01RE1			
1235028-02RE1	B121618	Zn-W-ChelCol-ICPMS-TR	86			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Zn-W-ChelCol-ICPMS-NoMB-TR	87			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Pb-W-ChelCol-ICPMS-TR	88			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Pb-W-ChelCol-ICPMS-NoMB-TR	89			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Ni-W-ChelCol-ICPMS-TR	90			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Ni-W-ChelCol-ICPMS-NoMB-TR	91			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Cu-W-ChelCol-ICPMS-TR	92			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Cu-W-ChelCol-ICPMS-NoMB-TR	93			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Cd-W-ChelCol-ICPMS-TR	94			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-02RE1	B121618	Cd-W-ChelCol-ICPMS-NoMB-TR	95			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Zn-W-ChelCol-ICPMS-TR	96			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Zn-W-ChelCol-ICPMS-NoMB-TR	97			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Pb-W-ChelCol-ICPMS-TR	98			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Pb-W-ChelCol-ICPMS-NoMB-TR	99			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Ni-W-ChelCol-ICPMS-TR	100			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Ni-W-ChelCol-ICPMS-NoMB-TR	101			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Cu-W-ChelCol-ICPMS-TR	102			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Cu-W-ChelCol-ICPMS-NoMB-TR	103			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-03RE1	B121618	Cd-W-ChelCol-ICPMS-TR	104			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1235028-03RE1	B121618	d-W-ChelCol-ICPMS-NoMB-TR	105			USA-AB1104	9/6/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	Zn-W-ChelCol-ICPMS-TR	106			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	n-W-ChelCol-ICPMS-NoMB-TR	107			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	Pb-W-ChelCol-ICPMS-TR	108			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	b-W-ChelCol-ICPMS-NoMB-TR	109			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	Ni-W-ChelCol-ICPMS-TR	110			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	ni-W-ChelCol-ICPMS-NoMB-TR	111			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	Cu-W-ChelCol-ICPMS-TR	112			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	u-W-ChelCol-ICPMS-NoMB-TR	113			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	Cd-W-ChelCol-ICPMS-TR	114			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1235028-04RE1	B121618	d-W-ChelCol-ICPMS-NoMB-TR	115			USA-AB1104	9/10/2012	Added 9/10/2012 by MEL
1200695-CCV3	1200695	QC	116	1227097	-			
1200695-CCB3	1200695	QC	117		-			
B121663-BLK1	B121663	QC	118		-			
B121663-BLK2	B121663	QC	119		-			
B121663-BLK3	B121663	QC	120		-			
B121663-BLK4	B121663	QC	121		-			
B121663-BS1	B121663	QC	122		-			
1228019-02RE1	B121663	Zn-W-ChelCol-ICPMS-TR	123			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	V-W-ChelCol-ICPMS-TR	124			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Pb-W-ChelCol-ICPMS-TR	125			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Ni-W-ChelCol-ICPMS-TR	126			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Fe-W-ChelCol-ICPMS-TR	127			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Cu-W-ChelCol-ICPMS-TR	128			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Co-W-ChelCol-ICPMS-TR	129			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12
1228019-02RE1	B121663	Cd-W-ChelCol-ICPMS-TR	130			LOD/LOQs	9/6/2012	From B121464 by MEL on 09/06/12

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121663-BS2	B121663	QC	131		-			
B121663-BS3	B121663	QC	132		-			
B121663-BS4	B121663	QC	133		-			
B121663-BS5	B121663	QC	134		-			
1200695-CCV4	1200695	QC	135	1227097	-			
1200695-CCB4	1200695	QC	136		-			
B121663-BS6	B121663	QC	137		-			
B121663-BS7	B121663	QC	138		-			
B121663-BS8	B121663	QC	139		-			
B121663-BS9	B121663	QC	140		-			
1200695-CCV5	1200695	QC	141	1227097	-			
1200695-CCB5	1200695	QC	142		-			
B121664-BLK1	B121664	QC	143		-			
B121664-BLK2	B121664	QC	144		-			
B121664-BLK3	B121664	QC	145		-			
B121664-BLK4	B121664	QC	146		-			
B121664-BS1	B121664	QC	147		-			
B121664-SRM1	B121664	QC	148		-			
B121664-SRM2	B121664	QC	149		-			
1231002-04RE2	B121664	Pb-W-ChelCol-ICPMS-TR	150			UDE-SL1201	9/13/2012	From B121504 by MEL on 09/06/12
1231002-05RE2	B121664	Pb-W-ChelCol-ICPMS-TR	151			UDE-SL1201	9/13/2012	From B121504 by MEL on 09/06/12
B121664-DUP1	B121664	QC	152		1231002-05RE2			
B121664-MS1	B121664	QC	153		1231002-05RE2			
B121664-MSD1	B121664	QC	154		1231002-05RE2			
1231002-06RE2	B121664	Pb-W-ChelCol-ICPMS-TR	155			UDE-SL1201	9/13/2012	From B121504 by MEL on 09/06/12
B121664-MSD2	B121664	QC	156		1231002-06RE2			

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121664-MS2	B121664	QC	157		1231002-06RE2			
B121664-DUP2	B121664	QC	158		1231002-06RE2			
1231002-11RE2	B121664	Pb-W-ChelCol-ICPMS-TR	159			UDE-SL1201	9/13/2012	From B121504 by MEL on 09/06/12
1200695-CCV6	1200695	QC	160	1227097	-			
1200695-CCB6	1200695	QC	161		-			
B121662-BLK1	B121662	QC	162		-			
B121662-BLK2	B121662	QC	163		-			
B121662-BLK3	B121662	QC	164		-			
B121662-BLK4	B121662	QC	165		-			
B121662-BS1	B121662	QC	166		-			
B121662-SRM1	B121662	QC	167		-			
B121662-SRM2	B121662	QC	168		-			
1232005-01RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	169			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
B121662-DUP1	B121662	QC	170		1232005-01RE1			
B121662-MS1	B121662	QC	171		1232005-01RE1			
B121662-MSD1	B121662	QC	172		1232005-01RE1			
1200695-CCV7	1200695	QC	173	1227097	-			
1200695-CCB7	1200695	QC	174		-			
1232005-02RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	175			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
B121662-DUP2	B121662	QC	176		1232005-02RE1			
B121662-MS2	B121662	QC	177		1232005-02RE1			
B121662-MSD2	B121662	QC	178		1232005-02RE1			
1232005-03RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	179			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-05RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	180			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-19RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	181			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-21RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	182			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12



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BRL Report 1231002

Brooks Rand Labs

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Instrument: ICP-MS-2

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232005-22RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	183			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-23RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	184			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1200695-CCV8	1200695	QC	185	1227098	-			
1200695-CCB8	1200695	QC	186		-			
1232005-24RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	187			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-25RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	188			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-28RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	189			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-29RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	190			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-30RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	191			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-31RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	192			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-32RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	193			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-33RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	194			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1232005-34RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	195			USG-SE1201	9/4/2012	From B121543 by MEL on 09/06/12
1200695-CCV9	1200695	QC	196	1227098	-			
1200695-CCB9	1200695	QC	197		-			
1234002-01RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	198			USG-SE1201	9/12/2012	From B121543 by MEL on 09/06/12
1234002-02RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	199			USG-SE1201	9/12/2012	From B121543 by MEL on 09/06/12
B121662-DUP3	B121662	QC	200		1234002-02RE1			
B121662-MS3	B121662	QC	201		1234002-02RE1			
B121662-MSD3	B121662	QC	202		1234002-02RE1			
1234002-03RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	203			USG-SE1201	9/12/2012	From B121543 by MEL on 09/06/12
1234002-04RE1	B121662	Pb-W-ChelCol-ICPMS-Diss	204			USG-SE1201	9/12/2012	From B121543 by MEL on 09/06/12
1200695-CCVA	1200695	QC	205	1227098	-			
1200695-CCBA	1200695	QC	206		-			

ICP-MS Analysis Benchsheet

Batch No: B121618, B121663, B121664

**BR-0063**

*note: B121663 LOD/LOQ to be turned in separately MEL 9/10/12*

(BRL procedure for the analysis of samples by EPA Method 1640)

Analyst: MEL Date: 9/7/2012

Instrument ID: ICPMS2 cHNO3 ID: 1223064 cHCl ID: NA

Calibration recorded in LIMS Int Std: N/A SEQ: 1200695

A/S #	Batch	Sample ID	Dilution	Comments
1		warm up		
1		warm up		
1		warm up		
1		SEQ-ICB1		
2		SEQ-CAL1		1227100
3		SEQ-CAL2		1227099
4		SEQ-CAL3		1227098
5		SEQ-CAL4		1227097
6		SEQ-CAL5		1227096
7		SEQ-CAL6		1227095
8		SEQ-CAL7		1227094
1		SEQ-ICB2		*Pb & Fe56 high pt removed*
434		rinse		
101		SEQ-ICV1		1222023
434		rinse		
102		SEQ-ICV2		1222024
434		rinse		
1		SEQ-ICB3		
434		rinse		
103		SEQ-IBL1		
434		rinse		
104		SEQ-IBL2		
434		rinse		
105		SEQ-IBL3		
434		rinse		
106		SEQ-IBL4		
434		rinse		
107		SEQ-SCV1		cass-5 1131009; 1151023
434		rinse		
108		SEQ-SCV2		slew-3 1131010; 1214034
434		rinse		
5		SEQ-CCV1		1227097
434		rinse		
1		SEQ-CCB1		
434		rinse		
109	B121618	B121618-BLK1		
434		rinse		
110	B121618	B121618-BLK2		
434		rinse		
111	B121618	B121618-BLK3		
434		rinse		
112	B121618	B121618-BLK4		
434		rinse		
113	B121618	B121618-BS1	5x	
434		rinse		
114	B121618	1235028-01	50x	
434		rinse		
115	B121618	B121618-DUP1	50x	1235028-01
434		rinse		
116	B121618	B121618-MS1	50x	10ul of 1227092 up to 5ml
434		rinse		

117	B121618	B121618-MSD1	50x	10ul of 1227092 up to 5ml
434		rinse		
118	B121618	1235028-02	50x	
434		rinse		
5		SEQ-CCV2		1227097
434		rinse		
1		SEQ-CCB2		
434		rinse		
119	B121618	1235028-03	50x	
434		rinse		
120	B121618	1235028-04	50x	
434		rinse		
121	B121618	1235028-01RE1		
434		rinse		
122	B121618	B121618-DUP2		1235028-01RE1
434		rinse		
123	B121618	B121618-MS2		10ul of 1227092 up to 5ml
434		rinse		
124	B121618	B121618-MSD2		10ul of 1227092 up to 5ml
434		rinse		
125	B121618	1235028-02RE1		
434		rinse 6 MAR 9/10/17		
126	B121618	1235028-03RE1		
434		rinse		
127	B121618	1235028-04RE1		
434		rinse		
5		SEQ-CCV3		1227097
434		rinse		
1		SEQ-CCB3		
434		rinse		
128	B121663	B121663-BLK1		Shares BLKS w/ B121664
434		rinse		
129	B121663	B121663-BLK2		
434		rinse		
130	B121663	B121663-BLK3		
434		rinse		
131	B121663	B121663-BLK4		
434		rinse		
132	B121663	B121663-BS1	5x	
434		rinse		
133	B121663	B121663-BS2		IPR1
434		rinse		
134	B121663	B121663-BS3		IPR2
434		rinse		
135	B121663	B121663-BS4		IPR3
434		rinse		
136	B121663	B121663-BS5		IPR4
434		rinse		
5		SEQ-CCV4		1227097
434		rinse		
1		SEQ-CCB4		
434		rinse		
137	B121663	B121663-BS6		LOD1
434		rinse		
138	B121663	B121663-BS7		LOD2
434		rinse		
139	B121663	B121663-BS8		LOD3
434		rinse		
140	B121663	B121663-BS9		LOD4
434		rinse		
5		SEQ-CCV5		
434		rinse		
1		SEQ-CCB5		
141	B121664	1231002-04RE2	10x	Shares BLKS w/ B121663

142	B121664	1231002-05RE2	10x	
143	B121664	B121664-DUP1	10x	1231002-05RE2
144	B121664	B121664-MS1	10x	10ul of 1227092 up to 5ml
145	B121664	B121664-MSD1	10x	10ul of 1227092 up to 5ml
146	B121664	1231002-06RE2	10x	
147	B121664	B121664-DUP2	10x	1231002-06RE2
148	B121664	B121664-MS2	10x	10ul of 1227092 up to 5ml
149	B121664	B121664-MSD2	10x	10ul of 1227092 up to 5ml
150	B121664	1231002-11RE2	10x	
5		SEQ-CCV6		1227097
1		SEQ-CCB6		
201	B121662	B121662-BLK1		
202	B121662	B121662-BLK2		
203	B121662	B121662-BLK3		
204	B121662	B121662-BLK4		
205	B121662	B121662-BS1	5x	
206	B121662	1232005-01RE1		
207	B121662	B121662-DUP1		1232005-01RE1
208	B121662	B121662-MS1		10ul of 1227092 up to 5ml
209	B121662	B121662-MSD1		10ul of 1227092 up to 5ml
5		SEQ-CCV7		1227097
1		SEQ-CCB7		
210	B121662	1232005-02RE1		
211	B121662	B121662-DUP2		1232005-02
212	B121662	B121662-MS2		10ul of 1227092 up to 5ml
213	B121662	B121662-MSD2		10ul of 1227092 up to 5ml
214	B121662	1232005-03RE1		
215	B121662	1232005-05RE1		
216	B121662	1232005-19RE1		
217	B121662	1232005-21RE1		
218	B121662	1232005-22RE1		
219	B121662	1232005-23RE1		
4		SEQ-CCV8		1227098
1		SEQ-CCB8		
220	B121662	1232005-24RE1		
221	B121662	1232005-25RE1		
222	B121662	1232005-28RE1		
223	B121662	1232005-29RE1		
224	B121662	1232005-30RE1		
225	B121662	1232005-31RE1		
226	B121662	1232005-32RE1		
227	B121662	1232005-33RE1		
228	B121662	1232005-34RE1		
4		SEQ-CCV9		1227098
1		SEQ-CCB9		
229	B121662	1234002-01RE1		
230	B121662	1234002-02RE1		
231	B121662	B121662-DUP3		1234002-02RE1
232	B121662	B121662-MS3		10ul of 1227092 up to 5ml
233	B121662	B121662-MSD3		10ul of 1227092 up to 5ml
234	B121662	1234002-03RE1		
235	B121662	1234002-04RE1		
4		SEQ-CCVA		1227098
1		SEQ-CCBA		
434		rinse		
434		rinse		
434		rinse		
434		rinse		
434		rinse		



## Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT

Batch ID:

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

Tuning File: C:\Elandata\Tuning\Default.tun

Optimization File: C:\Elandata\Optimize\Default.dac

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Calibration Type: External Calibration

## Calibration

Analyte	MassCurve Type	Slope	Intercept	Correlation Coefficient	Std 1 Conc
V-Precon	51Weighted Linear	44.678	38.410	0.999842	25.000000
Fe-Precon	54Weighted Linear	6.171	-7.597	0.999589	50.000000
Fe-Precon	56Weighted Linear	117.873	-259.651	0.999898	50.000000
Fe-Precon	57Weighted Linear	3.109	-17.489	0.999143	50.000000
Co-Precon	59Weighted Linear	141.196	3.224	0.998437	10.000000
Ni-Precon	60Weighted Linear	28.783	-1.924	0.999790	10.000000
Cu-Precon	63Weighted Linear	63.239	-16.415	0.999878	10.000000
Cu-Precon	65Weighted Linear	29.758	2.902	0.999860	10.000000
Zn-Precon	66Weighted Linear	18.372	26.319	0.999845	50.000000
Zn-Precon	68Weighted Linear	12.205	8.396	0.999527	50.000000
Cd-Precon	111Weighted Linear	19.791	-4.125	0.999842	10.000000
Cd-Precon	114Weighted Linear	50.742	22.476	0.999945	10.000000
Pb-Precon	208Weighted Linear	269.414	69.718	0.999972	10.000000
Tb-Precon	159Linear Thru Zero				

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 15:41:00

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51		48			ng/L
Fe-Precon	54		100			ng/L
Fe-Precon	56		2026			ng/L
Fe-Precon	57		127			ng/L
Co-Precon	59		81			ng/L
Ni-Precon	60		113			ng/L
Cu-Precon	63		288			ng/L
Cu-Precon	65		132			ng/L
Zn-Precon	66		513			ng/L
Zn-Precon	68		395			ng/L
Cd-Precon	111		3			ng/L
Cd-Precon	114		31			ng/L
Pb-Precon	208		254			ng/L
Tb-Precon	159		14			mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL1**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 15:54:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 2

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL1.019

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1187	1139.600887	<b>24.6473</b>	ng/L
Fe-Precon	54	100	404	303.654435	<b>50.4340</b>	ng/L
Fe-Precon	56	2026	7607	5580.788778	<b>49.5485</b>	ng/L
Fe-Precon	57	127	260	133.521357	<b>48.5663</b>	ng/L
Co-Precon	59	81	1461	1379.893978	<b>9.7501</b>	ng/L
Ni-Precon	60	113	395	281.453516	<b>9.8454</b>	ng/L
Cu-Precon	63	288	904	615.580039	<b>9.9938</b>	ng/L
Cu-Precon	65	132	430	298.049858	<b>9.9182</b>	ng/L
Zn-Precon	66	513	1457	944.469401	<b>49.9747</b>	ng/L
Zn-Precon	68	395	1025	630.220433	<b>50.9493</b>	ng/L
Cd-Precon	111	3	199	196.203744	<b>10.1224</b>	ng/L
Cd-Precon	114	31	563	532.160370	<b>10.0447</b>	ng/L
Pb-Precon	208	254	3021	2767.491024	<b>10.0135</b>	ng/L
Tb-Precon	159	14	10	-3.934206		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL2**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 16:07:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 3

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL2.020

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2377	2328.787068	<b>51.2640</b>	ng/L
Fe-Precon	54	100	705	604.701790	<b>99.2145</b>	ng/L
Fe-Precon	56	2026	13780	11753.601220	<b>101.9168</b>	ng/L
Fe-Precon	57	127	438	311.726954	<b>105.8787</b>	ng/L
Co-Precon	59	81	3004	2922.653664	<b>20.6764</b>	ng/L
Ni-Precon	60	113	704	590.524486	<b>20.5834</b>	ng/L
Cu-Precon	63	288	1534	1245.229774	<b>19.9505</b>	ng/L
Cu-Precon	65	132	742	610.187206	<b>20.4073</b>	ng/L
Zn-Precon	66	513	2359	1845.819671	<b>99.0349</b>	ng/L
Zn-Precon	68	395	1565	1169.969621	<b>95.1739</b>	ng/L
Cd-Precon	111	3	384	380.909332	<b>19.4554</b>	ng/L
Cd-Precon	114	31	1057	1026.447861	<b>19.7859</b>	ng/L
Pb-Precon	208	254	5681	5427.809727	<b>19.8879</b>	ng/L
Tb-Precon	159	14	12	-1.544588		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL3**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 16:20:24

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL3.021

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	5694	5646.558962	<b>125.5236</b>	ng/L
Fe-Precon	54	100	1608	1507.892328	<b>245.5638</b>	ng/L
Fe-Precon	56	2026	31063	29036.249889	<b>248.5375</b>	ng/L
Fe-Precon	57	127	895	768.060073	<b>252.6393</b>	ng/L
Co-Precon	59	81	7331	7249.474936	<b>51.3205</b>	ng/L
Ni-Precon	60	113	1555	1441.904067	<b>50.1629</b>	ng/L
Cu-Precon	63	288	3483	3194.854556	<b>50.7800</b>	ng/L
Cu-Precon	65	132	1616	1484.572083	<b>49.7902</b>	ng/L
Zn-Precon	66	513	5235	4722.117218	<b>255.5909</b>	ng/L
Zn-Precon	68	395	3508	3112.857141	<b>254.3649</b>	ng/L
Cd-Precon	111	3	989	986.225186	<b>50.0413</b>	ng/L
Cd-Precon	114	31	2588	2557.396832	<b>49.9573</b>	ng/L
Pb-Precon	208	254	13850	13596.278355	<b>50.2073</b>	ng/L
Tb-Precon	159	14	13	-0.806926		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 16:33:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL4.022

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	11365	11317.126617	<b>252.4443</b>	ng/L
Fe-Precon	54	100	3151	3050.778105	<b>495.5667</b>	ng/L
Fe-Precon	56	2026	61213	59186.324011	<b>504.3215</b>	ng/L
Fe-Precon	57	127	1632	1504.787251	<b>489.5770</b>	ng/L
Co-Precon	59	81	14531	14449.213297	<b>102.3116</b>	ng/L
Ni-Precon	60	113	3008	2894.604976	<b>100.6340</b>	ng/L
Cu-Precon	63	288	6534	6245.418220	<b>99.0187</b>	ng/L
Cu-Precon	65	132	3082	2949.905838	<b>99.0314</b>	ng/L
Zn-Precon	66	513	9851	9338.711513	<b>506.8707</b>	ng/L
Zn-Precon	68	395	6633	6238.407993	<b>510.4578</b>	ng/L
Cd-Precon	111	3	2005	2001.779293	<b>101.3561</b>	ng/L
Cd-Precon	114	31	5187	5156.600482	<b>101.1816</b>	ng/L
Pb-Precon	208	254	27442	27188.532451	<b>100.6585</b>	ng/L
Tb-Precon	159	14	11	-2.576627		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

## Sample ID: SEQ-CAL5

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, September 07, 2012 16:46:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 6

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL5.023

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	55501	55453.758484	<b>1240.3264</b>	ng/L
Fe-Precon	54	100	15282	15181.845815	<b>2461.2357</b>	ng/L
Fe-Precon	56	2026	292944	290917.955342	<b>2470.2620</b>	ng/L
Fe-Precon	57	127	7676	7548.808577	<b>2433.3853</b>	ng/L
Co-Precon	59	81	72636	72554.608936	<b>513.8345</b>	ng/L
Ni-Precon	60	113	14359	14245.354788	<b>494.9928</b>	ng/L
Cu-Precon	63	288	31627	31338.798746	<b>495.8218</b>	ng/L
Cu-Precon	65	132	14948	14815.993410	<b>497.7803</b>	ng/L
Zn-Precon	66	513	45383	44870.106114	<b>2440.8335</b>	ng/L
Zn-Precon	68	395	30246	29851.091725	<b>2445.1700</b>	ng/L
Cd-Precon	111	3	9859	9856.180063	<b>498.2303</b>	ng/L
Cd-Precon	114	31	25391	25360.489831	<b>499.3528</b>	ng/L
Pb-Precon	208	254	135447	135193.099282	<b>501.5452</b>	ng/L
Tb-Precon	159	14	13	-0.727275		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL6**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 16:59:49

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL6.024

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	109596	109548.056284	<b>2451.0847</b>	ng/L
Fe-Precon	54	100	30607	30507.351180	<b>4944.5183</b>	ng/L
Fe-Precon	56	2026	590522	588495.869555	<b>4994.8222</b>	ng/L
Fe-Precon	57	127	15214	15087.127830	<b>4857.7723</b>	ng/L
Co-Precon	59	81	143185	143103.925406	<b>1013.4896</b>	ng/L
Ni-Precon	60	113	28234	28120.653138	<b>977.0619</b>	ng/L
Cu-Precon	63	288	62554	62265.166421	<b>984.8623</b>	ng/L
Cu-Precon	65	132	29466	29334.040221	<b>985.6458</b>	ng/L
Zn-Precon	66	513	91979	91466.215064	<b>4977.0453</b>	ng/L
Zn-Precon	68	395	61223	60828.367605	<b>4983.3022</b>	ng/L
Cd-Precon	111	3	19587	19583.764666	<b>989.7543</b>	ng/L
Cd-Precon	114	31	50196	50164.760256	<b>988.1868</b>	ng/L
Pb-Precon	208	254	267160	266906.800086	<b>990.4344</b>	ng/L
Tb-Precon	159	14	11	-3.137667		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CAL7**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 17:12:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 8

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CAL7.025

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	559772	559724.406987	<b>12527.0952</b>	ng/L
Fe-Precon	54	100	162462	162362.121266	<b>26309.7294</b>	ng/L
Fe-Precon	56	2026	2323555	2321528.658220	<b>19697.3437</b>	ng/L
Fe-Precon	57	127	80585	80458.203332	<b>25881.6619</b>	ng/L
Co-Precon	59	81	635811	635729.584875	<b>4502.4380</b>	ng/L
Ni-Precon	60	113	145413	145299.927043	<b>5048.2182</b>	ng/L
Cu-Precon	63	288	323045	322757.109529	<b>5104.0367</b>	ng/L
Cu-Precon	65	132	151976	151843.981030	<b>5102.4794</b>	ng/L
Zn-Precon	66	513	460908	460395.703357	<b>25057.7631</b>	ng/L
Zn-Precon	68	395	310456	310061.211499	<b>25404.2685</b>	ng/L
Cd-Precon	111	3	100376	100373.179476	<b>5071.9539</b>	ng/L
Cd-Precon	114	31	255888	255857.218336	<b>5041.9029</b>	ng/L
Pb-Precon	208	254	895814	895560.688129	<b>3323.8450</b>	ng/L
Tb-Precon	159	14	11	-3.019919		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB2**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 17:26:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB2.026

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	8540	8492.372598	<b>189.2197</b>	ng/L
Fe-Precon	54	100	3580	3480.051473	<b>565.1244</b>	ng/L
Fe-Precon	56	2026	68678	66651.294629	<b>567.6520</b>	ng/L
Fe-Precon	57	127	1842	1715.314066	<b>557.2842</b>	ng/L
Co-Precon	59	81	1920	1838.316800	<b>12.9968</b>	ng/L
Ni-Precon	60	113	642	528.625925	<b>18.4329</b>	ng/L
Cu-Precon	63	288	6530	6241.588127	<b>98.9582</b>	ng/L
Cu-Precon	65	132	3073	2941.389606	<b>98.7452</b>	ng/L
Zn-Precon	66	513	2087	1574.332630	<b>84.2579</b>	ng/L
Zn-Precon	68	395	1415	1020.291983	<b>82.9100</b>	ng/L
Cd-Precon	111	3	105	101.813050	<b>5.3529</b>	ng/L
Cd-Precon	114	31	308	277.484019	<b>5.0256</b>	ng/L
Pb-Precon	208	254	2503	2249.328448	<b>8.0902</b>	ng/L
Tb-Precon	159	14	12	-2.174894		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 17:39:18  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.027  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2222	2174.628129	<b>47.8136</b>	ng/L
Fe-Precon	54	100	4520	4420.286148	<b>717.4763</b>	ng/L
Fe-Precon	56	2026	87994	85968.025003	<b>731.5293</b>	ng/L
Fe-Precon	57	127	2365	2238.223939	<b>725.4564</b>	ng/L
Co-Precon	59	81	838	756.599625	<b>5.3357</b>	ng/L
Ni-Precon	60	113	442	328.260876	<b>11.4716</b>	ng/L
Cu-Precon	63	288	13007	12718.276787	<b>201.3744</b>	ng/L
Cu-Precon	65	132	6058	5926.085262	<b>199.0431</b>	ng/L
Zn-Precon	66	513	732	219.013131	<b>10.4883</b>	ng/L
Zn-Precon	68	395	512	117.509807	<b>8.9403</b>	ng/L
Cd-Precon	111	3	6	3.126505	<b>0.3664</b>	ng/L
Cd-Precon	114	31	28	-3.084057	<b>-0.5037</b>	ng/L
Pb-Precon	208	254	386	132.237615	<b>0.2321</b>	ng/L
Tb-Precon	159	14	11	-3.290046		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 17:52:29

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 101

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICV1.028

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	23326	23278.464404	<b>520.1673</b>	ng/L
Fe-Precon	54	100	160419	160318.492370	<b>25978.5881</b>	ng/L
Fe-Precon	56	2026	2300821	2298795.134545	<b>19504.4795</b>	ng/L
Fe-Precon	57	127	79597	79469.745819	<b>25563.7656</b>	ng/L
Co-Precon	59	81	37726	37644.420467	<b>266.5882</b>	ng/L
Ni-Precon	60	113	14616	14502.388115	<b>503.9229</b>	ng/L
Cu-Precon	63	288	33590	33302.083592	<b>526.8674</b>	ng/L
Cu-Precon	65	132	15447	15315.577759	<b>514.5683</b>	ng/L
Zn-Precon	66	513	9587	9074.039019	<b>492.4646</b>	ng/L
Zn-Precon	68	395	6425	6030.289883	<b>493.4056</b>	ng/L
Cd-Precon	111	3	994	990.833516	<b>50.2742</b>	ng/L
Cd-Precon	114	31	2780	2748.948425	<b>53.7324</b>	ng/L
Pb-Precon	208	254	72008	71753.980304	<b>266.0746</b>	ng/L
Tb-Precon	159	14	41	26.652926		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 18:05:40  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.029  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1037	988.948164	<b>21.2753</b>	ng/L
Fe-Precon	54	100	7962	7862.469686	<b>1275.2337</b>	ng/L
Fe-Precon	56	2026	155438	153411.544431	<b>1303.6995</b>	ng/L
Fe-Precon	57	127	4078	3951.425600	<b>1276.4365</b>	ng/L
Co-Precon	59	81	298	216.030405	<b>1.5072</b>	ng/L
Ni-Precon	60	113	239	125.849731	<b>4.4393</b>	ng/L
Cu-Precon	63	288	4131	3842.885131	<b>61.0273</b>	ng/L
Cu-Precon	65	132	1923	1790.728166	<b>60.0783</b>	ng/L
Zn-Precon	66	513	513	0.613878	<b>-1.3991</b>	ng/L
Zn-Precon	68	395	367	-27.419430	<b>-2.9346</b>	ng/L
Cd-Precon	111	3	5	1.950959	<b>0.3070</b>	ng/L
Cd-Precon	114	31	22	-8.510516	<b>-0.6107</b>	ng/L
Pb-Precon	208	254	362	108.276869	<b>0.1431</b>	ng/L
Tb-Precon	159	14	13	-0.737662		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICV2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 18:18:52

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICV2.030

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2861	2813.330146	<b>62.1093</b>	ng/L
Fe-Precon	54	100	15812	15711.512326	<b>2547.0607</b>	ng/L
Fe-Precon	56	2026	303305	301278.842533	<b>2558.1606</b>	ng/L
Fe-Precon	57	127	7997	7870.239639	<b>2536.7602</b>	ng/L
Co-Precon	59	81	3864	3782.163054	<b>26.7638</b>	ng/L
Ni-Precon	60	113	1513	1399.297542	<b>48.6826</b>	ng/L
Cu-Precon	63	288	3722	3433.584056	<b>54.5550</b>	ng/L
Cu-Precon	65	132	1728	1596.670774	<b>53.5571</b>	ng/L
Zn-Precon	66	513	1649	1136.622364	<b>60.4335</b>	ng/L
Zn-Precon	68	395	1118	723.603534	<b>58.6007</b>	ng/L
Cd-Precon	111	3	104	101.036565	<b>5.3137</b>	ng/L
Cd-Precon	114	31	302	270.853626	<b>4.8949</b>	ng/L
Pb-Precon	208	254	7420	7166.547109	<b>26.3417</b>	ng/L
Tb-Precon	159	14	8	-5.523817		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 18:32:03  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.031  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	429	381.367785	<b>7.6762</b>	ng/L
Fe-Precon	54	100	2520	2420.022612	<b>393.3617</b>	ng/L
Fe-Precon	56	2026	48568	46541.733152	<b>397.0487</b>	ng/L
Fe-Precon	57	127	1310	1183.502852	<b>386.2492</b>	ng/L
Co-Precon	59	81	115	33.891687	<b>0.2172</b>	ng/L
Ni-Precon	60	113	146	32.336623	<b>1.1903</b>	ng/L
Cu-Precon	63	288	1614	1325.158938	<b>21.2144</b>	ng/L
Cu-Precon	65	132	749	616.709987	<b>20.6265</b>	ng/L
Zn-Precon	66	513	447	-65.513825	<b>-4.9984</b>	ng/L
Zn-Precon	68	395	338	-56.271938	<b>-5.2986</b>	ng/L
Cd-Precon	111	3	2	-1.086003	<b>0.1536</b>	ng/L
Cd-Precon	114	31	14	-16.981894	<b>-0.7776</b>	ng/L
Pb-Precon	208	254	236	-17.411332	<b>-0.3234</b>	ng/L
Tb-Precon	159	14	10	-4.024247		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-ICB3**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 18:45:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB3.032

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	282	234.562796	<b>4.3904</b>	ng/L
Fe-Precon	54	100	398	297.627288	<b>49.4574</b>	ng/L
Fe-Precon	56	2026	7625	5598.740987	<b>49.7008</b>	ng/L
Fe-Precon	57	127	266	138.795638	<b>50.2626</b>	ng/L
Co-Precon	59	81	75	-6.441659	<b>-0.0685</b>	ng/L
Ni-Precon	60	113	115	1.173995	<b>0.1076</b>	ng/L
Cu-Precon	63	288	558	269.862222	<b>4.5269</b>	ng/L
Cu-Precon	65	132	250	117.800649	<b>3.8611</b>	ng/L
Zn-Precon	66	513	573	59.986957	<b>1.8326</b>	ng/L
Zn-Precon	68	395	448	53.107322	<b>3.6634</b>	ng/L
Cd-Precon	111	3	3	0.382878	<b>0.2278</b>	ng/L
Cd-Precon	114	31	32	1.297292	<b>-0.4174</b>	ng/L
Pb-Precon	208	254	325	71.420912	<b>0.0063</b>	ng/L
Tb-Precon	159	14	9	-5.083990		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 18:58:27  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.033  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	285	237.403199	<b>4.4539</b>	ng/L
Fe-Precon	54	100	1730	1630.434196	<b>265.4200</b>	ng/L
Fe-Precon	56	2026	33873	31847.016375	<b>272.3832</b>	ng/L
Fe-Precon	57	127	916	789.730478	<b>259.6087</b>	ng/L
Co-Precon	59	81	103	21.648997	<b>0.1305</b>	ng/L
Ni-Precon	60	113	142	28.911406	<b>1.0713</b>	ng/L
Cu-Precon	63	288	1893	1605.104548	<b>25.6412</b>	ng/L
Cu-Precon	65	132	891	759.614981	<b>25.4286</b>	ng/L
Zn-Precon	66	513	419	-94.001496	<b>-6.5490</b>	ng/L
Zn-Precon	68	395	328	-67.112268	<b>-6.1868</b>	ng/L
Cd-Precon	111	3	2	-1.257552	<b>0.1449</b>	ng/L
Cd-Precon	114	31	16	-14.325769	<b>-0.7253</b>	ng/L
Pb-Precon	208	254	218	-35.424571	<b>-0.3903</b>	ng/L
Tb-Precon	159	14	11	-2.801737		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 19:11:38

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-IBL1.034

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	194	146.129802	<b>2.4110</b>	ng/L
Fe-Precon	54	100	183	82.994376	<b>14.6791</b>	ng/L
Fe-Precon	56	2026	3374	1347.828394	<b>13.6374</b>	ng/L
Fe-Precon	57	127	154	27.273278	<b>14.3960</b>	ng/L
Co-Precon	59	81	66	-15.425387	<b>-0.1321</b>	ng/L
Ni-Precon	60	113	26	-87.772470	<b>-2.9826</b>	ng/L
Cu-Precon	63	288	158	-130.207559	<b>-1.7994</b>	ng/L
Cu-Precon	65	132	78	-53.653464	<b>-1.9005</b>	ng/L
Zn-Precon	66	513	166	-346.607632	<b>-20.2983</b>	ng/L
Zn-Precon	68	395	152	-242.884033	<b>-20.5887</b>	ng/L
Cd-Precon	111	3	3	-0.550325	<b>0.1806</b>	ng/L
Cd-Precon	114	31	12	-18.822582	<b>-0.8139</b>	ng/L
Pb-Precon	208	254	155	-99.050016	<b>-0.6264</b>	ng/L
Tb-Precon	159	14	11	-2.725546		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 19:24:50  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.035  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	183	134.946775	<b>2.1607</b>	ng/L
Fe-Precon	54	100	637	537.158371	<b>88.2700</b>	ng/L
Fe-Precon	56	2026	11661	9634.559203	<b>83.9395</b>	ng/L
Fe-Precon	57	127	353	226.284570	<b>78.3997</b>	ng/L
Co-Precon	59	81	64	-17.215843	<b>-0.1448</b>	ng/L
Ni-Precon	60	113	110	-3.837279	<b>-0.0665</b>	ng/L
Cu-Precon	63	288	438	149.959367	<b>2.6309</b>	ng/L
Cu-Precon	65	132	209	76.821661	<b>2.4840</b>	ng/L
Zn-Precon	66	513	401	-111.614244	<b>-7.5076</b>	ng/L
Zn-Precon	68	395	288	-106.516171	<b>-9.4154</b>	ng/L
Cd-Precon	111	3	2	-1.583790	<b>0.1284</b>	ng/L
Cd-Precon	114	31	9	-21.728763	<b>-0.8712</b>	ng/L
Pb-Precon	208	254	206	-47.120466	<b>-0.4337</b>	ng/L
Tb-Precon	159	14	12	-1.835500		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 19:38:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 104

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-IBL2.036

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	133	85.646506	<b>1.0573</b>	ng/L
Fe-Precon	54	100	128	28.308801	<b>5.8181</b>	ng/L
Fe-Precon	56	2026	2410	383.857168	<b>5.4593</b>	ng/L
Fe-Precon	57	127	130	3.362832	<b>6.7062</b>	ng/L
Co-Precon	59	81	65	-16.686006	<b>-0.1410</b>	ng/L
Ni-Precon	60	113	25	-88.336980	<b>-3.0022</b>	ng/L
Cu-Precon	63	288	125	-163.261644	<b>-2.3221</b>	ng/L
Cu-Precon	65	132	53	-78.720575	<b>-2.7428</b>	ng/L
Zn-Precon	66	513	147	-366.088780	<b>-21.3586</b>	ng/L
Zn-Precon	68	395	147	-247.258393	<b>-20.9471</b>	ng/L
Cd-Precon	111	3	3	-0.542570	<b>0.1810</b>	ng/L
Cd-Precon	114	31	9	-21.432095	<b>-0.8653</b>	ng/L
Pb-Precon	208	254	147	-106.242884	<b>-0.6531</b>	ng/L
Tb-Precon	159	14	7	-6.801741		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 19:51:12  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.037  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	130	82.498396	<b>0.9868</b>	ng/L
Fe-Precon	54	100	518	417.627838	<b>68.9018</b>	ng/L
Fe-Precon	56	2026	10138	8112.214503	<b>71.0244</b>	ng/L
Fe-Precon	57	127	315	188.163078	<b>66.1396</b>	ng/L
Co-Precon	59	81	55	-26.085222	<b>-0.2076</b>	ng/L
Ni-Precon	60	113	97	-16.294663	<b>-0.4993</b>	ng/L
Cu-Precon	63	288	355	66.217432	<b>1.3067</b>	ng/L
Cu-Precon	65	132	157	24.943327	<b>0.7407</b>	ng/L
Zn-Precon	66	513	414	-99.200463	<b>-6.8320</b>	ng/L
Zn-Precon	68	395	296	-98.359498	<b>-8.7471</b>	ng/L
Cd-Precon	111	3	2	-1.408642	<b>0.1373</b>	ng/L
Cd-Precon	114	31	11	-19.945043	<b>-0.8360</b>	ng/L
Pb-Precon	208	254	218	-35.781020	<b>-0.3916</b>	ng/L
Tb-Precon	159	14	6	-7.792220		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 20:04:24

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 105

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-IBL3.038

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	120	71.938874	<b>0.7505</b>	ng/L
Fe-Precon	54	100	103	3.189721	<b>1.7479</b>	ng/L
Fe-Precon	56	2026	2088	62.014160	<b>2.7289</b>	ng/L
Fe-Precon	57	127	123	-3.283166	<b>4.5688</b>	ng/L
Co-Precon	59	81	55	-26.570068	<b>-0.2110</b>	ng/L
Ni-Precon	60	113	24	-89.244338	<b>-3.0338</b>	ng/L
Cu-Precon	63	288	109	-179.553322	<b>-2.5797</b>	ng/L
Cu-Precon	65	132	59	-72.569801	<b>-2.5362</b>	ng/L
Zn-Precon	66	513	137	-375.817192	<b>-21.8881</b>	ng/L
Zn-Precon	68	395	124	-270.943804	<b>-22.8878</b>	ng/L
Cd-Precon	111	3	2	-0.886617	<b>0.1636</b>	ng/L
Cd-Precon	114	31	6	-25.192536	<b>-0.9394</b>	ng/L
Pb-Precon	208	254	147	-106.603301	<b>-0.6545</b>	ng/L
Tb-Precon	159	14	6	-7.445898		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 20:17:35  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.039  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	121	73.303395	<b>0.7810</b>	ng/L
Fe-Precon	54	100	471	370.597171	<b>61.2811</b>	ng/L
Fe-Precon	56	2026	9333	7306.337984	<b>64.1875</b>	ng/L
Fe-Precon	57	127	303	176.314551	<b>62.3290</b>	ng/L
Co-Precon	59	81	50	-31.917338	<b>-0.2489</b>	ng/L
Ni-Precon	60	113	103	-10.632249	<b>-0.3025</b>	ng/L
Cu-Precon	63	288	301	12.253973	<b>0.4533</b>	ng/L
Cu-Precon	65	132	145	13.545220	<b>0.3577</b>	ng/L
Zn-Precon	66	513	384	-128.830607	<b>-8.4447</b>	ng/L
Zn-Precon	68	395	298	-96.551634	<b>-8.5989</b>	ng/L
Cd-Precon	111	3	1	-1.977242	<b>0.1085</b>	ng/L
Cd-Precon	114	31	6	-24.489491	<b>-0.9256</b>	ng/L
Pb-Precon	208	254	211	-42.111966	<b>-0.4151</b>	ng/L
Tb-Precon	159	14	8	-5.728145		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-IBL4**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 20:30:46

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-IBL4.040

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	104	56.333289	<b>0.4012</b>	ng/L
Fe-Precon	54	100	102	2.001800	<b>1.5554</b>	ng/L
Fe-Precon	56	2026	1901	-125.324728	<b>1.1396</b>	ng/L
Fe-Precon	57	127	118	-8.298054	<b>2.9560</b>	ng/L
Co-Precon	59	81	59	-22.455726	<b>-0.1819</b>	ng/L
Ni-Precon	60	113	21	-92.801068	<b>-3.1573</b>	ng/L
Cu-Precon	63	288	98	-190.462616	<b>-2.7522</b>	ng/L
Cu-Precon	65	132	50	-82.138832	<b>-2.8577</b>	ng/L
Zn-Precon	66	513	127	-385.531980	<b>-22.4169</b>	ng/L
Zn-Precon	68	395	116	-278.885033	<b>-23.5385</b>	ng/L
Cd-Precon	111	3	3	-0.038067	<b>0.2065</b>	ng/L
Cd-Precon	114	31	10	-20.766701	<b>-0.8522</b>	ng/L
Pb-Precon	208	254	139	-114.347556	<b>-0.6832</b>	ng/L
Tb-Precon	159	14	6	-7.605206		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 20:43:57  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.041  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	102	54.629449	<b>0.3630</b>	ng/L
Fe-Precon	54	100	475	375.408385	<b>62.0607</b>	ng/L
Fe-Precon	56	2026	8813	6786.634288	<b>59.7785</b>	ng/L
Fe-Precon	57	127	290	162.873653	<b>58.0063</b>	ng/L
Co-Precon	59	81	58	-23.252334	<b>-0.1875</b>	ng/L
Ni-Precon	60	113	108	-4.973206	<b>-0.1059</b>	ng/L
Cu-Precon	63	288	277	-11.490149	<b>0.0779</b>	ng/L
Cu-Precon	65	132	119	-12.578348	<b>-0.5202</b>	ng/L
Zn-Precon	66	513	404	-108.884778	<b>-7.3591</b>	ng/L
Zn-Precon	68	395	287	-107.727493	<b>-9.5146</b>	ng/L
Cd-Precon	111	3	1	-1.721451	<b>0.1215</b>	ng/L
Cd-Precon	114	31	11	-19.371730	<b>-0.8247</b>	ng/L
Pb-Precon	208	254	209	-44.150937	<b>-0.4227</b>	ng/L
Tb-Precon	159	14	7	-6.801741		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-SCV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 20:57:08

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-SCV1.042

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	56020	55971.959389	<b>1251.9250</b>	ng/L
Fe-Precon	54	100	9668	9567.971591	<b>1551.5863</b>	ng/L
Fe-Precon	56	2026	223105	221078.311238	<b>1877.7637</b>	ng/L
Fe-Precon	57	127	47573	47446.164845	<b>15264.7117</b>	ng/L
Co-Precon	59	81	13782	13700.036453	<b>97.0057</b>	ng/L
Ni-Precon	60	113	11803	11689.425621	<b>406.1922</b>	ng/L
Cu-Precon	63	288	21308	21019.828590	<b>332.6474</b>	ng/L
Cu-Precon	65	132	10479	10347.322510	<b>347.6147</b>	ng/L
Zn-Precon	66	513	13703	13190.498962	<b>716.5223</b>	ng/L
Zn-Precon	68	395	9233	8838.412510	<b>723.4900</b>	ng/L
Cd-Precon	111	3	136	132.901919	<b>6.9238</b>	ng/L
Cd-Precon	114	31	629	597.823548	<b>11.3387</b>	ng/L
Pb-Precon	208	254	2634	2380.040031	<b>8.5754</b>	ng/L
Tb-Precon	159	14	1418	1403.886680		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 21:10:19  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.043  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1398	1350.703773	<b>29.3722</b>	ng/L
Fe-Precon	54	100	609	508.567283	<b>83.6372</b>	ng/L
Fe-Precon	56	2026	11674	9647.995515	<b>84.0534</b>	ng/L
Fe-Precon	57	127	373	246.445148	<b>84.8836</b>	ng/L
Co-Precon	59	81	154	73.002843	<b>0.4942</b>	ng/L
Ni-Precon	60	113	154	40.953151	<b>1.4897</b>	ng/L
Cu-Precon	63	288	2630	2341.177407	<b>37.2807</b>	ng/L
Cu-Precon	65	132	1255	1122.800343	<b>37.6332</b>	ng/L
Zn-Precon	66	513	562	49.118158	<b>1.2410</b>	ng/L
Zn-Precon	68	395	402	7.736657	<b>-0.0540</b>	ng/L
Cd-Precon	111	3	-6	-9.444594	<b>-0.2688</b>	ng/L
Cd-Precon	114	31	-5	-35.557936	<b>-1.1437</b>	ng/L
Pb-Precon	208	254	207	-46.157107	<b>-0.4301</b>	ng/L
Tb-Precon	159	14	54	40.111059		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

## Sample ID: SEQ-SCV2

### Sample Description:

### Batch ID:

Sample Date/Time: Friday, September 07, 2012 21:23:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-SCV2.044

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	126102	126053.860294	<b>2820.5236</b>	ng/L
Fe-Precon	54	100	4407	4306.563654	<b>699.0491</b>	ng/L
Fe-Precon	56	2026	106569	104542.215290	<b>889.1071</b>	ng/L
Fe-Precon	57	127	26748	26621.525077	<b>8567.3318</b>	ng/L
Co-Precon	59	81	6902	6821.006789	<b>48.2859</b>	ng/L
Ni-Precon	60	113	42355	42241.271988	<b>1467.6542</b>	ng/L
Cu-Precon	63	288	94727	94438.560948	<b>1493.6221</b>	ng/L
Cu-Precon	65	132	44498	44365.729918	<b>1490.7719</b>	ng/L
Zn-Precon	66	513	3502	2988.920417	<b>161.2535</b>	ng/L
Zn-Precon	68	395	2120	1724.937786	<b>140.6453</b>	ng/L
Cd-Precon	111	3	799	796.302827	<b>40.4447</b>	ng/L
Cd-Precon	114	31	2215	2183.799666	<b>42.5946</b>	ng/L
Pb-Precon	208	254	2213	1958.961094	<b>7.0124</b>	ng/L
Tb-Precon	159	14	1061	1047.540539		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 21:36:41  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.045  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	3288	3240.438902	<b>71.6690</b>	ng/L
Fe-Precon	54	100	555	454.611432	<b>74.8944</b>	ng/L
Fe-Precon	56	2026	10182	8155.372675	<b>71.3905</b>	ng/L
Fe-Precon	57	127	335	208.382338	<b>72.6422</b>	ng/L
Co-Precon	59	81	117	35.851848	<b>0.2311</b>	ng/L
Ni-Precon	60	113	373	259.602322	<b>9.0862</b>	ng/L
Cu-Precon	63	288	10720	10432.122036	<b>165.2233</b>	ng/L
Cu-Precon	65	132	5017	4885.346764	<b>164.0701</b>	ng/L
Zn-Precon	66	513	462	-50.821428	<b>-4.1987</b>	ng/L
Zn-Precon	68	395	344	-50.844094	<b>-4.8539</b>	ng/L
Cd-Precon	111	3	-2	-5.347922	<b>-0.0618</b>	ng/L
Cd-Precon	114	31	7	-23.871574	<b>-0.9134</b>	ng/L
Pb-Precon	208	254	211	-42.118861	<b>-0.4151</b>	ng/L
Tb-Precon	159	14	37	22.781044		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 21:49:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV1.046

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	10898	10850.549772	<b>242.0012</b>	ng/L
Fe-Precon	54	100	3070	2969.515933	<b>482.3993</b>	ng/L
Fe-Precon	56	2026	58312	56285.954182	<b>479.7157</b>	ng/L
Fe-Precon	57	127	1591	1464.152212	<b>476.5084</b>	ng/L
Co-Precon	59	81	14139	14057.317949	<b>99.5360</b>	ng/L
Ni-Precon	60	113	2917	2803.558210	<b>97.4708</b>	ng/L
Cu-Precon	63	288	6595	6307.015788	<b>99.9928</b>	ng/L
Cu-Precon	65	132	3154	3021.835061	<b>101.4485</b>	ng/L
Zn-Precon	66	513	9878	9365.038487	<b>508.3036</b>	ng/L
Zn-Precon	68	395	6562	6167.145034	<b>504.6189</b>	ng/L
Cd-Precon	111	3	1911	1907.904396	<b>96.6127</b>	ng/L
Cd-Precon	114	31	4923	4892.081930	<b>95.9685</b>	ng/L
Pb-Precon	208	254	26526	26272.016185	<b>97.2566</b>	ng/L
Tb-Precon	159	14	13	-0.595668		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 22:03:05  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.047  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	433	385.583022	<b>7.7706</b>	ng/L
Fe-Precon	54	100	650	549.531976	<b>90.2750</b>	ng/L
Fe-Precon	56	2026	12761	10734.574356	<b>93.2717</b>	ng/L
Fe-Precon	57	127	397	270.536711	<b>92.6316</b>	ng/L
Co-Precon	59	81	163	81.775501	<b>0.5563</b>	ng/L
Ni-Precon	60	113	164	50.390945	<b>1.8176</b>	ng/L
Cu-Precon	63	288	1708	1419.241981	<b>22.7021</b>	ng/L
Cu-Precon	65	132	752	620.139710	<b>20.7417</b>	ng/L
Zn-Precon	66	513	484	-29.082061	<b>-3.0154</b>	ng/L
Zn-Precon	68	395	366	-29.036332	<b>-3.0671</b>	ng/L
Cd-Precon	111	3	5	1.740926	<b>0.2964</b>	ng/L
Cd-Precon	114	31	18	-13.268553	<b>-0.7044</b>	ng/L
Pb-Precon	208	254	249	-4.657967	<b>-0.2761</b>	ng/L
Tb-Precon	159	14	11	-3.390481		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB1**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 22:16:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB1.048

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	120	71.810764	<b>0.7476</b>	ng/L
Fe-Precon	54	100	165	64.902211	<b>11.7475</b>	ng/L
Fe-Precon	56	2026	3123	1096.405111	<b>11.5044</b>	ng/L
Fe-Precon	57	127	154	27.051643	<b>14.3248</b>	ng/L
Co-Precon	59	81	57	-24.956171	<b>-0.1996</b>	ng/L
Ni-Precon	60	113	105	-8.737773	<b>-0.2367</b>	ng/L
Cu-Precon	63	288	429	140.640736	<b>2.4835</b>	ng/L
Cu-Precon	65	132	203	71.145370	<b>2.2933</b>	ng/L
Zn-Precon	66	513	584	71.102711	<b>2.4376</b>	ng/L
Zn-Precon	68	395	440	45.258358	<b>3.0203</b>	ng/L
Cd-Precon	111	3	2	-1.577557	<b>0.1287</b>	ng/L
Cd-Precon	114	31	28	-2.288354	<b>-0.4880</b>	ng/L
Pb-Precon	208	254	294	40.056632	<b>-0.1101</b>	ng/L
Tb-Precon	159	14	8	-5.852821		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 22:29:29  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.049  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	143	95.475521	<b>1.2773</b>	ng/L
Fe-Precon	54	100	429	328.951495	<b>54.5330</b>	ng/L
Fe-Precon	56	2026	8361	6334.650457	<b>55.9440</b>	ng/L
Fe-Precon	57	127	264	137.507664	<b>49.8483</b>	ng/L
Co-Precon	59	81	62	-19.234919	<b>-0.1591</b>	ng/L
Ni-Precon	60	113	117	3.740336	<b>0.1968</b>	ng/L
Cu-Precon	63	288	701	412.887066	<b>6.7886</b>	ng/L
Cu-Precon	65	132	322	189.838904	<b>6.2818</b>	ng/L
Zn-Precon	66	513	411	-101.731526	<b>-6.9697</b>	ng/L
Zn-Precon	68	395	326	-68.722046	<b>-6.3187</b>	ng/L
Cd-Precon	111	3	3	-0.067966	<b>0.2050</b>	ng/L
Cd-Precon	114	31	10	-20.939751	<b>-0.8556</b>	ng/L
Pb-Precon	208	254	225	-28.787854	<b>-0.3656</b>	ng/L
Tb-Precon	159	14	9	-4.498708		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-BLK1**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Friday, September 07, 2012 22:42:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-BLK1.050

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	100	52.097794	<b>0.3064</b>	ng/L
Fe-Precon	54	100	378	277.927871	<b>46.2654</b>	ng/L
Fe-Precon	56	2026	7477	5451.019974	<b>48.4476</b>	ng/L
Fe-Precon	57	127	254	126.982644	<b>46.4634</b>	ng/L
Co-Precon	59	81	74	-7.792267	<b>-0.0780</b>	ng/L
Ni-Precon	60	113	40	-73.545553	<b>-2.4883</b>	ng/L
Cu-Precon	63	288	242	-46.434926	<b>-0.4747</b>	ng/L
Cu-Precon	65	132	109	-23.114171	<b>-0.8742</b>	ng/L
Zn-Precon	66	513	493	-20.166826	<b>-2.5302</b>	ng/L
Zn-Precon	68	395	344	-51.071894	<b>-4.8725</b>	ng/L
Cd-Precon	111	3	1	-1.747445	<b>0.1201</b>	ng/L
Cd-Precon	114	31	10	-21.146249	<b>-0.8597</b>	ng/L
Pb-Precon	208	254	171	-82.813480	<b>-0.5662</b>	ng/L
Tb-Precon	159	14	10	-4.311696		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 22:55:51  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.051  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	102	54.615565	<b>0.3627</b>	ng/L
Fe-Precon	54	100	417	317.317587	<b>52.6479</b>	ng/L
Fe-Precon	56	2026	8091	6064.551422	<b>53.6526</b>	ng/L
Fe-Precon	57	127	280	153.691451	<b>55.0532</b>	ng/L
Co-Precon	59	81	56	-25.544960	<b>-0.2037</b>	ng/L
Ni-Precon	60	113	101	-12.121466	<b>-0.3543</b>	ng/L
Cu-Precon	63	288	448	159.166709	<b>2.7765</b>	ng/L
Cu-Precon	65	132	222	89.920799	<b>2.9242</b>	ng/L
Zn-Precon	66	513	427	-86.224883	<b>-6.1257</b>	ng/L
Zn-Precon	68	395	306	-89.032401	<b>-7.9828</b>	ng/L
Cd-Precon	111	3	1	-1.899096	<b>0.1125</b>	ng/L
Cd-Precon	114	31	12	-18.540363	<b>-0.8083</b>	ng/L
Pb-Precon	208	254	212	-41.467496	<b>-0.4127</b>	ng/L
Tb-Precon	159	14	8	-6.074468		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-BLK2**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Friday, September 07, 2012 23:09:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-BLK2.052

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	86	37.981422	<b>-0.0096</b>	ng/L
Fe-Precon	54	100	272	172.061444	<b>29.1112</b>	ng/L
Fe-Precon	56	2026	5461	3435.112685	<b>31.3452</b>	ng/L
Fe-Precon	57	127	205	78.416141	<b>30.8440</b>	ng/L
Co-Precon	59	81	68	-13.880729	<b>-0.1211</b>	ng/L
Ni-Precon	60	113	33	-80.406205	<b>-2.7267</b>	ng/L
Cu-Precon	63	288	330	41.704531	<b>0.9190</b>	ng/L
Cu-Precon	65	132	159	27.475106	<b>0.8258</b>	ng/L
Zn-Precon	66	513	462	-50.945915	<b>-4.2055</b>	ng/L
Zn-Precon	68	395	350	-44.996470	<b>-4.3747</b>	ng/L
Cd-Precon	111	3	3	0.317791	<b>0.2245</b>	ng/L
Cd-Precon	114	31	10	-20.672993	<b>-0.8504</b>	ng/L
Pb-Precon	208	254	175	-78.508406	<b>-0.5502</b>	ng/L
Tb-Precon	159	14	9	-4.751523		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 23:22:12  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.053  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	85	36.786657	<b>-0.0363</b>	ng/L
Fe-Precon	54	100	417	317.085550	<b>52.6103</b>	ng/L
Fe-Precon	56	2026	7967	5940.760063	<b>52.6024</b>	ng/L
Fe-Precon	57	127	253	126.504337	<b>46.3096</b>	ng/L
Co-Precon	59	81	48	-33.323395	<b>-0.2588</b>	ng/L
Ni-Precon	60	113	108	-5.593214	<b>-0.1275</b>	ng/L
Cu-Precon	63	288	386	98.117700	<b>1.8111</b>	ng/L
Cu-Precon	65	132	180	47.929431	<b>1.5131</b>	ng/L
Zn-Precon	66	513	413	-99.679400	<b>-6.8580</b>	ng/L
Zn-Precon	68	395	296	-98.677986	<b>-8.7732</b>	ng/L
Cd-Precon	111	3	4	0.926072	<b>0.2552</b>	ng/L
Cd-Precon	114	31	9	-21.459035	<b>-0.8659</b>	ng/L
Pb-Precon	208	254	221	-32.546286	<b>-0.3796</b>	ng/L
Tb-Precon	159	14	8	-6.174902		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-BLK3**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Friday, September 07, 2012 23:35:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 111

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-BLK3.054

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	71	23.141419	<b>-0.3417</b>	ng/L
Fe-Precon	54	100	350	249.811793	<b>41.7095</b>	ng/L
Fe-Precon	56	2026	6802	4775.559256	<b>42.7172</b>	ng/L
Fe-Precon	57	127	236	109.530303	<b>40.8506</b>	ng/L
Co-Precon	59	81	62	-19.369981	<b>-0.1600</b>	ng/L
Ni-Precon	60	113	31	-82.265950	<b>-2.7913</b>	ng/L
Cu-Precon	63	288	259	-29.117529	<b>-0.2009</b>	ng/L
Cu-Precon	65	132	123	-9.156947	<b>-0.4052</b>	ng/L
Zn-Precon	66	513	462	-50.312426	<b>-4.1710</b>	ng/L
Zn-Precon	68	395	337	-57.327394	<b>-5.3851</b>	ng/L
Cd-Precon	111	3	3	-0.381263	<b>0.1892</b>	ng/L
Cd-Precon	114	31	10	-21.175312	<b>-0.8603</b>	ng/L
Pb-Precon	208	254	207	-46.786767	<b>-0.4324</b>	ng/L
Tb-Precon	159	14	9	-4.806932		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Friday, September 07, 2012 23:48:33  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.055  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	75	27.609102	<b>-0.2418</b>	ng/L
Fe-Precon	54	100	405	304.634762	<b>50.5928</b>	ng/L
Fe-Precon	56	2026	7929	5902.668303	<b>52.2792</b>	ng/L
Fe-Precon	57	127	263	136.083861	<b>49.3904</b>	ng/L
Co-Precon	59	81	57	-24.097338	<b>-0.1935</b>	ng/L
Ni-Precon	60	113	98	-14.989060	<b>-0.4539</b>	ng/L
Cu-Precon	63	288	296	7.331588	<b>0.3755</b>	ng/L
Cu-Precon	65	132	145	12.835106	<b>0.3338</b>	ng/L
Zn-Precon	66	513	394	-118.271892	<b>-7.8700</b>	ng/L
Zn-Precon	68	395	293	-101.560152	<b>-9.0093</b>	ng/L
Cd-Precon	111	3	2	-0.976203	<b>0.1591</b>	ng/L
Cd-Precon	114	31	10	-20.655258	<b>-0.8500</b>	ng/L
Pb-Precon	208	254	217	-36.476827	<b>-0.3942</b>	ng/L
Tb-Precon	159	14	9	-5.167107		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-BLK4**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 00:01:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 112

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-BLK4.056

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	75	27.515517	<b>-0.2438</b>	ng/L
Fe-Precon	54	100	490	389.683935	<b>64.3738</b>	ng/L
Fe-Precon	56	2026	9433	7407.027270	<b>65.0418</b>	ng/L
Fe-Precon	57	127	298	171.406915	<b>60.7506</b>	ng/L
Co-Precon	59	81	58	-23.844499	<b>-0.1917</b>	ng/L
Ni-Precon	60	113	52	-61.881401	<b>-2.0831</b>	ng/L
Cu-Precon	63	288	368	79.242651	<b>1.5126</b>	ng/L
Cu-Precon	65	132	163	31.295054	<b>0.9541</b>	ng/L
Zn-Precon	66	513	791	278.118886	<b>13.7054</b>	ng/L
Zn-Precon	68	395	540	145.785342	<b>11.2570</b>	ng/L
Cd-Precon	111	3	4	1.118441	<b>0.2649</b>	ng/L
Cd-Precon	114	31	11	-20.027926	<b>-0.8377</b>	ng/L
Pb-Precon	208	254	871	617.050168	<b>2.0316</b>	ng/L
Tb-Precon	159	14	7	-6.645897		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 00:14:55  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.057  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	55	7.283209	<b>-0.6967</b>	ng/L
Fe-Precon	54	100	409	309.240661	<b>51.3391</b>	ng/L
Fe-Precon	56	2026	8168	6141.760271	<b>54.3076</b>	ng/L
Fe-Precon	57	127	277	150.737445	<b>54.1032</b>	ng/L
Co-Precon	59	81	53	-28.443702	<b>-0.2243</b>	ng/L
Ni-Precon	60	113	104	-9.288515	<b>-0.2559</b>	ng/L
Cu-Precon	63	288	297	8.391568	<b>0.3923</b>	ng/L
Cu-Precon	65	132	140	8.606418	<b>0.1917</b>	ng/L
Zn-Precon	66	513	415	-97.517191	<b>-6.7403</b>	ng/L
Zn-Precon	68	395	308	-86.960840	<b>-7.8131</b>	ng/L
Cd-Precon	111	3	3	-0.415456	<b>0.1874</b>	ng/L
Cd-Precon	114	31	10	-20.782247	<b>-0.8525</b>	ng/L
Pb-Precon	208	254	222	-31.288205	<b>-0.3749</b>	ng/L
Tb-Precon	159	14	7	-6.819059		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-BS1**

**Sample Description: 5x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 00:28:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 113

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-BS1.058

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	25563	25515.533856	<b>2851.1912</b>	ng/L
Fe-Precon	54	100	117626	117526.369974	<b>95223.6324</b>	ng/L
Fe-Precon	56	2026	1718130	1716103.870873	<b>72805.5226</b>	ng/L
Fe-Precon	57	127	58792	58664.877592	<b>94363.7220</b>	ng/L
Co-Precon	59	81	54528	54446.893273	<b>1927.9462</b>	ng/L
Ni-Precon	60	113	21674	21560.097696	<b>3745.6436</b>	ng/L
Cu-Precon	63	288	24486	24197.385606	<b>1914.4712</b>	ng/L
Cu-Precon	65	132	11390	11258.243195	<b>1891.1268</b>	ng/L
Zn-Precon	66	513	14881	14368.267799	<b>3903.1393</b>	ng/L
Zn-Precon	68	395	9768	9373.026191	<b>3836.4685</b>	ng/L
Cd-Precon	111	3	759	755.884708	<b>192.0122</b>	ng/L
Cd-Precon	114	31	2370	2338.838324	<b>228.2503</b>	ng/L
Pb-Precon	208	254	27044	26790.099019	<b>495.8978</b>	ng/L
Tb-Precon	159	14	42	28.277188		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 00:41:18  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.059  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	330	282.749951	<b>5.4689</b>	ng/L
Fe-Precon	54	100	6201	6101.131896	<b>989.8337</b>	ng/L
Fe-Precon	56	2026	121673	119646.320409	<b>1017.2457</b>	ng/L
Fe-Precon	57	127	3234	3107.488192	<b>1005.0191</b>	ng/L
Co-Precon	59	81	317	235.803566	<b>1.6472</b>	ng/L
Ni-Precon	60	113	245	131.283860	<b>4.6280</b>	ng/L
Cu-Precon	63	288	1727	1438.409357	<b>23.0052</b>	ng/L
Cu-Precon	65	132	802	669.703906	<b>22.4073</b>	ng/L
Zn-Precon	66	513	493	-19.943127	<b>-2.5180</b>	ng/L
Zn-Precon	68	395	357	-38.007264	<b>-3.8021</b>	ng/L
Cd-Precon	111	3	3	-0.472182	<b>0.1846</b>	ng/L
Cd-Precon	114	31	23	-7.307430	<b>-0.5870</b>	ng/L
Pb-Precon	208	254	271	17.399881	<b>-0.1942</b>	ng/L
Tb-Precon	159	14	9	-5.149792		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-01**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 00:54:30

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 114

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-01.060

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	850	802.612300	<b>855.2326</b>	ng/L
Fe-Precon	54	100	2845	2744.879736	<b>22300.0103</b>	ng/L
Fe-Precon	56	2026	55397	53370.900643	<b>22749.2619</b>	ng/L
Fe-Precon	57	127	1995	1868.490391	<b>30327.3498</b>	ng/L
Co-Precon	59	81	314	232.516538	<b>81.1966</b>	ng/L
Ni-Precon	60	113	880	766.418892	<b>1334.7264</b>	ng/L
Cu-Precon	63	288	4222	3933.577039	<b>3123.0725</b>	ng/L
Cu-Precon	65	132	1975	1843.678178	<b>3092.8796</b>	ng/L
Zn-Precon	66	513	10819	10305.913574	<b>27975.7589</b>	ng/L
Zn-Precon	68	395	7291	6896.239526	<b>28217.8731</b>	ng/L
Cd-Precon	111	3	7	3.534465	<b>19.3513</b>	ng/L
Cd-Precon	114	31	27	-3.855771	<b>-25.9470</b>	ng/L
Pb-Precon	208	254	1675	1421.016405	<b>250.7846</b>	ng/L
Tb-Precon	159	14	42	28.408796		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 01:07:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.061

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	84	36.215201	<b>-0.0491</b>	ng/L
Fe-Precon	54	100	1258	1157.524436	<b>188.7916</b>	ng/L
Fe-Precon	56	2026	23938	21911.386275	<b>188.0923</b>	ng/L
Fe-Precon	57	127	660	532.889668	<b>177.0065</b>	ng/L
Co-Precon	59	81	56	-25.139721	<b>-0.2009</b>	ng/L
Ni-Precon	60	113	110	-3.823427	<b>-0.0660</b>	ng/L
Cu-Precon	63	288	678	389.274179	<b>6.4152</b>	ng/L
Cu-Precon	65	132	303	171.443469	<b>5.6637</b>	ng/L
Zn-Precon	66	513	464	-48.978984	<b>-4.0984</b>	ng/L
Zn-Precon	68	395	343	-51.847392	<b>-4.9361</b>	ng/L
Cd-Precon	111	3	1	-2.039678	<b>0.1054</b>	ng/L
Cd-Precon	114	31	12	-18.933124	<b>-0.8161</b>	ng/L
Pb-Precon	208	254	226	-27.198211	<b>-0.3597</b>	ng/L
Tb-Precon	159	14	11	-2.884853		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-DUP1**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 01:20:52

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 115

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-DUP1.062

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	831	783.349058	<b>833.6747</b>	ng/L
Fe-Precon	54	100	2609	2509.281760	<b>20391.2434</b>	ng/L
Fe-Precon	56	2026	50893	48866.749952	<b>20838.6699</b>	ng/L
Fe-Precon	57	127	1867	1740.500618	<b>28269.2203</b>	ng/L
Co-Precon	59	81	312	230.805570	<b>80.5907</b>	ng/L
Ni-Precon	60	113	856	742.447008	<b>1293.0837</b>	ng/L
Cu-Precon	63	288	4188	3899.680751	<b>3096.2723</b>	ng/L
Cu-Precon	65	132	1969	1837.653184	<b>3082.7563</b>	ng/L
Zn-Precon	66	513	10823	10309.836709	<b>27986.4356</b>	ng/L
Zn-Precon	68	395	7371	6976.736187	<b>28547.6490</b>	ng/L
Cd-Precon	111	3	10	6.637636	<b>27.1913</b>	ng/L
Cd-Precon	114	31	28	-3.010205	<b>-25.1138</b>	ng/L
Pb-Precon	208	254	1684	1430.084880	<b>252.4676</b>	ng/L
Tb-Precon	159	14	37	23.158537		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 01:34:04  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.063  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	71	23.588162	<b>-0.3317</b>	ng/L
Fe-Precon	54	100	860	759.491071	<b>124.2959</b>	ng/L
Fe-Precon	56	2026	17084	15057.928798	<b>129.9497</b>	ng/L
Fe-Precon	57	127	519	392.337146	<b>131.8037</b>	ng/L
Co-Precon	59	81	53	-28.325918	<b>-0.2234</b>	ng/L
Ni-Precon	60	113	106	-7.764606	<b>-0.2029</b>	ng/L
Cu-Precon	63	288	615	326.352208	<b>5.4202</b>	ng/L
Cu-Precon	65	132	286	154.624993	<b>5.0985</b>	ng/L
Zn-Precon	66	513	501	-11.594851	<b>-2.0636</b>	ng/L
Zn-Precon	68	395	369	-26.100852	<b>-2.8265</b>	ng/L
Cd-Precon	111	3	2	-1.091240	<b>0.1533</b>	ng/L
Cd-Precon	114	31	13	-17.288093	<b>-0.7837</b>	ng/L
Pb-Precon	208	254	208	-45.478451	<b>-0.4276</b>	ng/L
Tb-Precon	159	14	8	-6.396545		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-MS1**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 01:47:15

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 116

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-MS1.064

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	199839	199791.121996	<b>223546.8859</b>	ng/L
Fe-Precon	54	100	58916	58815.592496	<b>476573.5333</b>	ng/L
Fe-Precon	56	2026	978342	976315.746478	<b>414248.3879</b>	ng/L
Fe-Precon	57	127	29913	29786.671201	<b>479263.4766</b>	ng/L
Co-Precon	59	81	273555	273473.264015	<b>96840.5581</b>	ng/L
Ni-Precon	60	113	54552	54438.162196	<b>94570.5202</b>	ng/L
Cu-Precon	63	288	121910	121621.838938	<b>96173.6432</b>	ng/L
Cu-Precon	65	132	57741	57608.994856	<b>96789.9809</b>	ng/L
Zn-Precon	66	513	187486	186973.167496	<b>508772.9563</b>	ng/L
Zn-Precon	68	395	125401	125005.960833	<b>512085.6090</b>	ng/L
Cd-Precon	111	3	37584	37581.175220	<b>94957.1765</b>	ng/L
Cd-Precon	114	31	97182	97151.299793	<b>95709.0677</b>	ng/L
Pb-Precon	208	254	421922	421668.678243	<b>78243.6476</b>	ng/L
Tb-Precon	159	14	39	24.644263		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 02:00:26  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.065  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2901	2853.054439	<b>62.9984</b>	ng/L
Fe-Precon	54	100	3786	3685.710337	<b>598.4486</b>	ng/L
Fe-Precon	56	2026	74747	72720.546292	<b>619.1417</b>	ng/L
Fe-Precon	57	127	1976	1848.859064	<b>600.2334</b>	ng/L
Co-Precon	59	81	1082	1000.888385	<b>7.0658</b>	ng/L
Ni-Precon	60	113	433	319.796805	<b>11.1775</b>	ng/L
Cu-Precon	63	288	7375	7086.928333	<b>112.3256</b>	ng/L
Cu-Precon	65	132	3371	3239.248063	<b>108.7544</b>	ng/L
Zn-Precon	66	513	1191	677.774125	<b>35.4585</b>	ng/L
Zn-Precon	68	395	836	441.521219	<b>35.4882</b>	ng/L
Cd-Precon	111	3	47	44.148226	<b>2.4392</b>	ng/L
Cd-Precon	114	31	106	75.552461	<b>1.0460</b>	ng/L
Pb-Precon	208	254	1093	839.144401	<b>2.8559</b>	ng/L
Tb-Precon	159	14	13	-0.983552		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-MSD1**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 02:13:37

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 117

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-MSD1.066

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	199212	199164.278902	<b>222845.3744</b>	ng/L
Fe-Precon	54	100	57790	57689.623144	<b>467451.1583</b>	ng/L
Fe-Precon	56	2026	945327	943300.969271	<b>400244.0229</b>	ng/L
Fe-Precon	57	127	29725	29597.935861	<b>476228.5327</b>	ng/L
Co-Precon	59	81	268000	267918.616516	<b>94873.5596</b>	ng/L
Ni-Precon	60	113	53686	53572.648080	<b>93066.9936</b>	ng/L
Cu-Precon	63	288	120950	120661.734369	<b>95414.5337</b>	ng/L
Cu-Precon	65	132	56613	56481.049230	<b>94894.8023</b>	ng/L
Zn-Precon	66	513	183968	183455.635994	<b>499200.0488</b>	ng/L
Zn-Precon	68	395	123949	123554.588495	<b>506139.6781</b>	ng/L
Cd-Precon	111	3	37399	37396.054407	<b>94489.4791</b>	ng/L
Cd-Precon	114	31	96261	96230.053854	<b>94801.2878</b>	ng/L
Pb-Precon	208	254	455730	455476.366341	<b>84517.9440</b>	ng/L
Tb-Precon	159	14	45	31.359454		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 02:26:48  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.067  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	3113	3065.214604	<b>67.7470</b>	ng/L
Fe-Precon	54	100	4029	3928.931593	<b>637.8592</b>	ng/L
Fe-Precon	56	2026	78408	76381.267481	<b>650.1982</b>	ng/L
Fe-Precon	57	127	2085	1958.265988	<b>635.4196</b>	ng/L
Co-Precon	59	81	934	852.285853	<b>6.0134</b>	ng/L
Ni-Precon	60	113	413	300.048096	<b>10.4914</b>	ng/L
Cu-Precon	63	288	7849	7561.135962	<b>119.8243</b>	ng/L
Cu-Precon	65	132	3661	3529.337806	<b>118.5026</b>	ng/L
Zn-Precon	66	513	1155	642.324320	<b>33.5290</b>	ng/L
Zn-Precon	68	395	808	413.186265	<b>33.1666</b>	ng/L
Cd-Precon	111	3	37	34.308423	<b>1.9420</b>	ng/L
Cd-Precon	114	31	113	81.742595	<b>1.1680</b>	ng/L
Pb-Precon	208	254	1083	829.630420	<b>2.8206</b>	ng/L
Tb-Precon	159	14	8	-5.641567		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-02**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 02:39:59

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 118

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-02.068

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2187	2139.258684	<b>2351.0978</b>	ng/L
Fe-Precon	54	100	467	366.855529	<b>3033.7414</b>	ng/L
Fe-Precon	56	2026	12588	10561.596565	<b>4590.2081</b>	ng/L
Fe-Precon	57	127	4096	3968.769979	<b>64100.7318</b>	ng/L
Co-Precon	59	81	134	52.859743	<b>17.5770</b>	ng/L
Ni-Precon	60	113	402	288.131938	<b>503.8709</b>	ng/L
Cu-Precon	63	288	623	334.627894	<b>277.5528</b>	ng/L
Cu-Precon	65	132	327	195.050337	<b>322.8487</b>	ng/L
Zn-Precon	66	513	225	-287.356251	<b>-853.6610</b>	ng/L
Zn-Precon	68	395	170	-224.299438	<b>-953.2995</b>	ng/L
Cd-Precon	111	3	-11	-14.415632	<b>-25.9986</b>	ng/L
Cd-Precon	114	31	-5	-35.376866	<b>-57.0073</b>	ng/L
Pb-Precon	208	254	346	92.214166	<b>4.1750</b>	ng/L
Tb-Precon	159	14	72	58.050613		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 02:53:10  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.069  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	512	464.242005	<b>9.5311</b>	ng/L
Fe-Precon	54	100	945	845.170070	<b>138.1790</b>	ng/L
Fe-Precon	56	2026	18443	16416.537894	<b>141.4757</b>	ng/L
Fe-Precon	57	127	541	414.611067	<b>138.9671</b>	ng/L
Co-Precon	59	81	85	3.574094	<b>0.0025</b>	ng/L
Ni-Precon	60	113	137	23.314719	<b>0.8769</b>	ng/L
Cu-Precon	63	288	1518	1229.265195	<b>19.6980</b>	ng/L
Cu-Precon	65	132	696	564.406152	<b>18.8688</b>	ng/L
Zn-Precon	66	513	435	-78.186843	<b>-5.6882</b>	ng/L
Zn-Precon	68	395	323	-71.535541	<b>-6.5492</b>	ng/L
Cd-Precon	111	3	2	-0.624034	<b>0.1769</b>	ng/L
Cd-Precon	114	31	12	-18.616563	<b>-0.8098</b>	ng/L
Pb-Precon	208	254	253	-0.990670	<b>-0.2625</b>	ng/L
Tb-Precon	159	14	9	-4.775764		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 03:06:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV2.070

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	10344	10295.951165	<b>229.5880</b>	ng/L
Fe-Precon	54	100	2882	2781.814787	<b>451.9850</b>	ng/L
Fe-Precon	56	2026	56880	54853.488495	<b>467.5631</b>	ng/L
Fe-Precon	57	127	1530	1403.588463	<b>457.0306</b>	ng/L
Co-Precon	59	81	13565	13483.575291	<b>95.4726</b>	ng/L
Ni-Precon	60	113	2734	2620.119354	<b>91.0976</b>	ng/L
Cu-Precon	63	288	6314	6025.472235	<b>95.5407</b>	ng/L
Cu-Precon	65	132	2991	2858.926854	<b>95.9741</b>	ng/L
Zn-Precon	66	513	9326	8813.076772	<b>478.2605</b>	ng/L
Zn-Precon	68	395	6252	5857.157234	<b>479.2199</b>	ng/L
Cd-Precon	111	3	1858	1855.360899	<b>93.9578</b>	ng/L
Cd-Precon	114	31	4841	4810.439084	<b>94.3595</b>	ng/L
Pb-Precon	208	254	27252	26997.950360	<b>99.9511</b>	ng/L
Tb-Precon	159	14	8	-6.050227		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 03:19:33  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.071  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	416	368.729611	<b>7.3933</b>	ng/L
Fe-Precon	54	100	1407	1306.573707	<b>212.9429</b>	ng/L
Fe-Precon	56	2026	26967	24940.698087	<b>213.7921</b>	ng/L
Fe-Precon	57	127	755	628.120841	<b>207.6337</b>	ng/L
Co-Precon	59	81	152	70.630454	<b>0.4774</b>	ng/L
Ni-Precon	60	113	157	43.931686	<b>1.5932</b>	ng/L
Cu-Precon	63	288	2276	1987.441464	<b>31.6871</b>	ng/L
Cu-Precon	65	132	1078	946.126814	<b>31.6962</b>	ng/L
Zn-Precon	66	513	499	-14.206003	<b>-2.2057</b>	ng/L
Zn-Precon	68	395	346	-48.990017	<b>-4.7020</b>	ng/L
Cd-Precon	111	3	6	2.433166	<b>0.3314</b>	ng/L
Cd-Precon	114	31	18	-12.450387	<b>-0.6883</b>	ng/L
Pb-Precon	208	254	277	23.728250	<b>-0.1707</b>	ng/L
Tb-Precon	159	14	9	-5.163643		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB2**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 03:32:45

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB2.072

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	185	137.634154	<b>2.2209</b>	ng/L
Fe-Precon	54	100	203	103.431478	<b>17.9907</b>	ng/L
Fe-Precon	56	2026	4030	2003.757749	<b>19.2021</b>	ng/L
Fe-Precon	57	127	171	43.990596	<b>19.7725</b>	ng/L
Co-Precon	59	81	51	-30.732885	<b>-0.2405</b>	ng/L
Ni-Precon	60	113	98	-15.085965	<b>-0.4573</b>	ng/L
Cu-Precon	63	288	370	81.580311	<b>1.5496</b>	ng/L
Cu-Precon	65	132	171	39.323227	<b>1.2239</b>	ng/L
Zn-Precon	66	513	569	56.104692	<b>1.6213</b>	ng/L
Zn-Precon	68	395	430	35.711420	<b>2.2381</b>	ng/L
Cd-Precon	111	3	5	2.049559	<b>0.3120</b>	ng/L
Cd-Precon	114	31	38	6.908613	<b>-0.3068</b>	ng/L
Pb-Precon	208	254	319	65.220718	<b>-0.0167</b>	ng/L
Tb-Precon	159	14	8	-6.372305		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 03:45:57  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.073  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	166	117.848274	<b>1.7780</b>	ng/L
Fe-Precon	54	100	538	438.197646	<b>72.2348</b>	ng/L
Fe-Precon	56	2026	10155	8128.306795	<b>71.1609</b>	ng/L
Fe-Precon	57	127	309	181.928827	<b>64.1346</b>	ng/L
Co-Precon	59	81	46	-35.079244	<b>-0.2713</b>	ng/L
Ni-Precon	60	113	97	-16.083443	<b>-0.4919</b>	ng/L
Cu-Precon	63	288	415	127.018174	<b>2.2681</b>	ng/L
Cu-Precon	65	132	208	76.177062	<b>2.4623</b>	ng/L
Zn-Precon	66	513	415	-97.911763	<b>-6.7618</b>	ng/L
Zn-Precon	68	395	313	-81.440010	<b>-7.3608</b>	ng/L
Cd-Precon	111	3	3	-0.297472	<b>0.1934</b>	ng/L
Cd-Precon	114	31	14	-17.150037	<b>-0.7809</b>	ng/L
Pb-Precon	208	254	231	-22.997954	<b>-0.3441</b>	ng/L
Tb-Precon	159	14	10	-4.273599		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-03**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 03:59:08

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 119

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-03.074

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1504	1455.935813	<b>1586.3788</b>	ng/L
Fe-Precon	54	100	207	107.400508	<b>931.6895</b>	ng/L
Fe-Precon	56	2026	7397	5370.743777	<b>2388.3275</b>	ng/L
Fe-Precon	57	127	3595	3467.786284	<b>56044.7026</b>	ng/L
Co-Precon	59	81	103	21.565579	<b>6.4952</b>	ng/L
Ni-Precon	60	113	342	228.876897	<b>400.9361</b>	ng/L
Cu-Precon	63	288	226	-62.602767	<b>-36.5188</b>	ng/L
Cu-Precon	65	132	130	-1.974689	<b>-8.1935</b>	ng/L
Zn-Precon	66	513	156	-356.367091	<b>-1041.4730</b>	ng/L
Zn-Precon	68	395	129	-265.606471	<b>-1122.5247</b>	ng/L
Cd-Precon	111	3	-11	-13.779676	<b>-24.3919</b>	ng/L
Cd-Precon	114	31	-9	-40.249569	<b>-61.8088</b>	ng/L
Pb-Precon	208	254	214	-39.628050	<b>-20.2933</b>	ng/L
Tb-Precon	159	14	70	55.657528		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 04:12:18  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.075  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	140	92.701281	<b>1.2152</b>	ng/L
Fe-Precon	54	100	515	414.642453	<b>68.4180</b>	ng/L
Fe-Precon	56	2026	9648	7621.234106	<b>66.8590</b>	ng/L
Fe-Precon	57	127	303	176.574172	<b>62.4125</b>	ng/L
Co-Precon	59	81	50	-31.574467	<b>-0.2465</b>	ng/L
Ni-Precon	60	113	105	-8.859048	<b>-0.2409</b>	ng/L
Cu-Precon	63	288	331	42.620250	<b>0.9335</b>	ng/L
Cu-Precon	65	132	156	24.458431	<b>0.7244</b>	ng/L
Zn-Precon	66	513	406	-106.651562	<b>-7.2375</b>	ng/L
Zn-Precon	68	395	318	-76.241155	<b>-6.9348</b>	ng/L
Cd-Precon	111	3	4	1.158153	<b>0.2670</b>	ng/L
Cd-Precon	114	31	10	-20.420684	<b>-0.8454</b>	ng/L
Pb-Precon	208	254	227	-26.762381	<b>-0.3581</b>	ng/L
Tb-Precon	159	14	8	-6.372304		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-04**

**Sample Description: 50x**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 04:25:29

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.1

Autosampler Position: 120

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-04.076

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	652	604.699714	<b>633.7450</b>	ng/L
Fe-Precon	54	100	25515	25415.180233	<b>205970.1791</b>	ng/L
Fe-Precon	56	2026	494786	492759.904297	<b>209131.3752</b>	ng/L
Fe-Precon	57	127	14947	14820.484526	<b>238600.8803</b>	ng/L
Co-Precon	59	81	1101	1019.567742	<b>359.9053</b>	ng/L
Ni-Precon	60	113	3134	3020.566438	<b>5250.5157</b>	ng/L
Cu-Precon	63	288	1679	1390.228201	<b>1112.1662</b>	ng/L
Cu-Precon	65	132	801	668.788272	<b>1118.8250</b>	ng/L
Zn-Precon	66	513	7813	7300.145431	<b>19795.6074</b>	ng/L
Zn-Precon	68	395	5253	4857.889093	<b>19867.2310</b>	ng/L
Cd-Precon	111	3	26	23.134875	<b>68.8707</b>	ng/L
Cd-Precon	114	31	67	35.810503	<b>13.1395</b>	ng/L
Pb-Precon	208	254	21888	21634.284541	<b>4002.1217</b>	ng/L
Tb-Precon	159	14	28	14.264989		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 04:38:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.077

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	114	66.297179	<b>0.6242</b>	ng/L
Fe-Precon	54	100	1196	1095.637092	<b>178.7636</b>	ng/L
Fe-Precon	56	2026	23271	21245.183416	<b>182.4405</b>	ng/L
Fe-Precon	57	127	653	526.155092	<b>174.8406</b>	ng/L
Co-Precon	59	81	50	-31.640243	<b>-0.2469</b>	ng/L
Ni-Precon	60	113	124	10.663521	<b>0.4373</b>	ng/L
Cu-Precon	63	288	421	132.233673	<b>2.3506</b>	ng/L
Cu-Precon	65	132	186	53.987440	<b>1.7167</b>	ng/L
Zn-Precon	66	513	468	-44.585948	<b>-3.8593</b>	ng/L
Zn-Precon	68	395	342	-52.374806	<b>-4.9793</b>	ng/L
Cd-Precon	111	3	1	-1.650416	<b>0.1250</b>	ng/L
Cd-Precon	114	31	14	-17.101817	<b>-0.7800</b>	ng/L
Pb-Precon	208	254	266	12.249369	<b>-0.2133</b>	ng/L
Tb-Precon	159	14	8	-6.060615		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-01RE1**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 04:51:51

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 121

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-01RE1.078

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	39226	39178.693833	<b>876.0520</b>	ng/L
Fe-Precon	54	100	90926	90826.099606	<b>14718.3232</b>	ng/L
Fe-Precon	56	2026	1367171	1365144.822831	<b>11583.6750</b>	ng/L
Fe-Precon	57	127	73403	73276.233011	<b>23571.8796</b>	ng/L
Co-Precon	59	81	12642	12560.302362	<b>88.9337</b>	ng/L
Ni-Precon	60	113	43000	42886.175758	<b>1490.0601</b>	ng/L
Cu-Precon	63	288	143100	142811.492157	<b>2258.5461</b>	ng/L
Cu-Precon	65	132	67396	67264.645628	<b>2260.2689</b>	ng/L
Zn-Precon	66	513	482910	482396.756281	<b>26255.2736</b>	ng/L
Zn-Precon	68	395	326367	325972.651450	<b>26707.9770</b>	ng/L
Cd-Precon	111	3	149	146.358142	<b>7.6037</b>	ng/L
Cd-Precon	114	31	757	726.109350	<b>13.8670</b>	ng/L
Pb-Precon	208	254	45865	45611.527788	<b>169.0401</b>	ng/L
Tb-Precon	159	14	1539	1525.025155		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 05:05:01  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.079  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	404	356.416576	<b>7.1177</b>	ng/L
Fe-Precon	54	100	4260	4160.379522	<b>675.3620</b>	ng/L
Fe-Precon	56	2026	82986	80959.378859	<b>689.0375</b>	ng/L
Fe-Precon	57	127	2203	2076.242746	<b>673.3619</b>	ng/L
Co-Precon	59	81	96	14.905867	<b>0.0827</b>	ng/L
Ni-Precon	60	113	250	136.547872	<b>4.8109</b>	ng/L
Cu-Precon	63	288	7415	7126.911803	<b>112.9578</b>	ng/L
Cu-Precon	65	132	3427	3295.159103	<b>110.6333</b>	ng/L
Zn-Precon	66	513	2083	1570.447921	<b>84.0465</b>	ng/L
Zn-Precon	68	395	1394	999.130033	<b>81.1761</b>	ng/L
Cd-Precon	111	3	-4	-6.743014	<b>-0.1323</b>	ng/L
Cd-Precon	114	31	5	-26.008084	<b>-0.9555</b>	ng/L
Pb-Precon	208	254	325	71.441313	<b>0.0064</b>	ng/L
Tb-Precon	159	14	38	24.291013		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-DUP2**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 05:18:12

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 122

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-DUP2.080

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	40888	40840.292857	<b>913.2426</b>	ng/L
Fe-Precon	54	100	93782	93681.842764	<b>15181.0562</b>	ng/L
Fe-Precon	56	2026	1418075	1416048.365356	<b>12015.5252</b>	ng/L
Fe-Precon	57	127	76852	76724.795942	<b>24680.9665</b>	ng/L
Co-Precon	59	81	12934	12852.057362	<b>91.0000</b>	ng/L
Ni-Precon	60	113	44360	44246.931723	<b>1537.3368</b>	ng/L
Cu-Precon	63	288	148779	148490.745976	<b>2348.3525</b>	ng/L
Cu-Precon	65	132	70593	70460.705069	<b>2367.6695</b>	ng/L
Zn-Precon	66	513	474445	473932.482195	<b>25794.5658</b>	ng/L
Zn-Precon	68	395	338027	337632.315200	<b>27663.3150</b>	ng/L
Cd-Precon	111	3	169	166.335837	<b>8.6132</b>	ng/L
Cd-Precon	114	31	682	651.366970	<b>12.3940</b>	ng/L
Pb-Precon	208	254	46210	45956.277102	<b>170.3198</b>	ng/L
Tb-Precon	159	14	1613	1598.727641		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 05:31:22  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.081  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	406	358.404648	<b>7.1622</b>	ng/L
Fe-Precon	54	100	4686	4585.682759	<b>744.2764</b>	ng/L
Fe-Precon	56	2026	90979	88952.450850	<b>756.8483</b>	ng/L
Fe-Precon	57	127	2408	2281.616632	<b>739.4119</b>	ng/L
Co-Precon	59	81	94	12.762128	<b>0.0676</b>	ng/L
Ni-Precon	60	113	265	151.177033	<b>5.3192</b>	ng/L
Cu-Precon	63	288	8410	8121.718257	<b>128.6888</b>	ng/L
Cu-Precon	65	132	3965	3833.138551	<b>128.7116</b>	ng/L
Zn-Precon	66	513	1872	1359.138103	<b>72.5450</b>	ng/L
Zn-Precon	68	395	1277	882.418113	<b>71.6132</b>	ng/L
Cd-Precon	111	3	-3	-6.118068	<b>-0.1007</b>	ng/L
Cd-Precon	114	31	2	-28.820170	<b>-1.0109</b>	ng/L
Pb-Precon	208	254	310	56.284916	<b>-0.0499</b>	ng/L
Tb-Precon	159	14	42	28.152524		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-MS2**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 05:44:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 123

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-MS2.082

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	263778	263730.028016	<b>5902.0415</b>	ng/L
Fe-Precon	54	100	148878	148777.711788	<b>24108.5669</b>	ng/L
Fe-Precon	56	2026	2159109	2157083.149576	<b>18302.2382</b>	ng/L
Fe-Precon	57	127	108414	108287.130874	<b>34831.6798</b>	ng/L
Co-Precon	59	81	292803	292721.225755	<b>2073.1320</b>	ng/L
Ni-Precon	60	113	100883	100769.611981	<b>3501.1027</b>	ng/L
Cu-Precon	63	288	260733	260444.831576	<b>4118.6890</b>	ng/L
Cu-Precon	65	132	123043	122910.742410	<b>4130.2046</b>	ng/L
Zn-Precon	66	513	605701	605188.006038	<b>32938.7633</b>	ng/L
Zn-Precon	68	395	473468	473073.408399	<b>38760.7208</b>	ng/L
Cd-Precon	111	3	34093	34089.811662	<b>1722.7288</b>	ng/L
Cd-Precon	114	31	87732	87701.420657	<b>1727.9464</b>	ng/L
Pb-Precon	208	254	376001	375747.668900	<b>1394.4253</b>	ng/L
Tb-Precon	159	14	1697	1682.619187		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 05:57:43  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.083  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1818	1769.990971	<b>38.7569</b>	ng/L
Fe-Precon	54	100	6599	6498.776685	<b>1054.2664</b>	ng/L
Fe-Precon	56	2026	128616	126589.392666	<b>1076.1486</b>	ng/L
Fe-Precon	57	127	3336	3209.637942	<b>1037.8714</b>	ng/L
Co-Precon	59	81	552	470.337885	<b>3.3083</b>	ng/L
Ni-Precon	60	113	433	320.004186	<b>11.1848</b>	ng/L
Cu-Precon	63	288	13641	13352.850470	<b>211.4090</b>	ng/L
Cu-Precon	65	132	6445	6312.820264	<b>212.0390</b>	ng/L
Zn-Precon	66	513	1946	1433.555154	<b>76.5955</b>	ng/L
Zn-Precon	68	395	1308	912.980861	<b>74.1174</b>	ng/L
Cd-Precon	111	3	8	5.008348	<b>0.4615</b>	ng/L
Cd-Precon	114	31	33	2.320259	<b>-0.3972</b>	ng/L
Pb-Precon	208	254	676	422.729114	<b>1.3103</b>	ng/L
Tb-Precon	159	14	44	30.188888		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121618-MSD2**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 06:10:53

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 124

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121618-MSD2.084

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	254546	254497.978617	<b>5695.4064</b>	ng/L
Fe-Precon	54	100	147051	146951.004855	<b>23812.5748</b>	ng/L
Fe-Precon	56	2026	2125474	2123447.374398	<b>18016.8825</b>	ng/L
Fe-Precon	57	127	106877	106750.098338	<b>34337.3572</b>	ng/L
Co-Precon	59	81	287748	287666.987527	<b>2037.3361</b>	ng/L
Ni-Precon	60	113	98094	97980.208006	<b>3404.1905</b>	ng/L
Cu-Precon	63	288	256671	256382.900569	<b>4054.4575</b>	ng/L
Cu-Precon	65	132	121338	121206.568960	<b>4072.9374</b>	ng/L
Zn-Precon	66	513	590143	589629.969472	<b>32091.9442</b>	ng/L
Zn-Precon	68	395	461903	461508.420821	<b>37813.1401</b>	ng/L
Cd-Precon	111	3	34072	34069.359226	<b>1721.6954</b>	ng/L
Cd-Precon	114	31	88095	88063.749642	<b>1735.0870</b>	ng/L
Pb-Precon	208	254	385578	385324.236339	<b>1429.9712</b>	ng/L
Tb-Precon	159	14	1665	1651.525684		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 06:24:05  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.085  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1883	1835.421871	<b>40.2214</b>	ng/L
Fe-Precon	54	100	6788	6688.289447	<b>1084.9743</b>	ng/L
Fe-Precon	56	2026	132548	130522.106399	<b>1109.5125</b>	ng/L
Fe-Precon	57	127	3517	3390.089077	<b>1095.9060</b>	ng/L
Co-Precon	59	81	612	530.207255	<b>3.7323</b>	ng/L
Ni-Precon	60	113	455	341.113509	<b>11.9182</b>	ng/L
Cu-Precon	63	288	14370	14081.197159	<b>222.9264</b>	ng/L
Cu-Precon	65	132	6634	6502.333061	<b>218.4074</b>	ng/L
Zn-Precon	66	513	1912	1399.353392	<b>74.7339</b>	ng/L
Zn-Precon	68	395	1339	943.962367	<b>76.6559</b>	ng/L
Cd-Precon	111	3	16	13.017833	<b>0.8662</b>	ng/L
Cd-Precon	114	31	54	22.826720	<b>0.0069</b>	ng/L
Pb-Precon	208	254	743	488.933798	<b>1.5560</b>	ng/L
Tb-Precon	159	14	40	26.362036		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-02RE1**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 06:37:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 125

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-02RE1.086

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	110084	110036.193352	<b>2462.0103</b>	ng/L
Fe-Precon	54	100	4113	4012.583035	<b>651.4137</b>	ng/L
Fe-Precon	56	2026	339114	337087.216975	<b>2861.9479</b>	ng/L
Fe-Precon	57	127	225680	225553.170024	<b>72545.4275</b>	ng/L
Co-Precon	59	81	4142	4060.141410	<b>28.7325</b>	ng/L
Ni-Precon	60	113	22704	22590.664440	<b>784.9337</b>	ng/L
Cu-Precon	63	288	7547	7259.124484	<b>115.0485</b>	ng/L
Cu-Precon	65	132	5793	5661.624618	<b>190.1562</b>	ng/L
Zn-Precon	66	513	3909	3396.488778	<b>183.4373</b>	ng/L
Zn-Precon	68	395	2369	1973.846669	<b>161.0398</b>	ng/L
Cd-Precon	111	3	-708	-710.983446	<b>-35.7168</b>	ng/L
Cd-Precon	114	31	-987	-1018.032581	<b>-20.5060</b>	ng/L
Pb-Precon	208	254	7669	7414.988516	<b>27.2639</b>	ng/L
Tb-Precon	159	14	3702	3687.746090		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 06:50:28  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.087  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	700	652.580979	<b>13.7466</b>	ng/L
Fe-Precon	54	100	1507	1407.044682	<b>229.2229</b>	ng/L
Fe-Precon	56	2026	29629	27602.921751	<b>236.3776</b>	ng/L
Fe-Precon	57	127	828	701.055874	<b>231.0902</b>	ng/L
Co-Precon	59	81	83	1.703878	<b>-0.0108</b>	ng/L
Ni-Precon	60	113	159	46.075443	<b>1.6677</b>	ng/L
Cu-Precon	63	288	2698	2409.398423	<b>38.3595</b>	ng/L
Cu-Precon	65	132	1256	1123.793652	<b>37.6665</b>	ng/L
Zn-Precon	66	513	622	109.417787	<b>4.5231</b>	ng/L
Zn-Precon	68	395	451	56.156402	<b>3.9132</b>	ng/L
Cd-Precon	111	3	-12	-15.110482	<b>-0.5551</b>	ng/L
Cd-Precon	114	31	-5	-35.880799	<b>-1.1501</b>	ng/L
Pb-Precon	208	254	278	24.718678	<b>-0.1670</b>	ng/L
Tb-Precon	159	14	76	62.428166		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-03RE1**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 07:03:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 126

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1238028-03RE1.088

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	123259	123211.265558	<b>2756.8996</b>	ng/L
Fe-Precon	54	100	3570	3470.454112	<b>563.5693</b>	ng/L
Fe-Precon	56	2026	404470	402443.584446	<b>3416.4114</b>	ng/L
Fe-Precon	57	127	290202	290075.471154	<b>93296.3440</b>	ng/L
Co-Precon	59	81	5235	5153.593989	<b>36.4767</b>	ng/L
Ni-Precon	60	113	27616	27502.876765	<b>955.5985</b>	ng/L
Cu-Precon	63	288	6277	5988.791540	<b>94.9607</b>	ng/L
Cu-Precon	65	132	5712	5579.806832	<b>187.4067</b>	ng/L
Zn-Precon	66	513	1854	1341.471060	<b>71.5833</b>	ng/L
Zn-Precon	68	395	967	572.164237	<b>46.1925</b>	ng/L
Cd-Precon	111	3	-746	-748.686419	<b>-37.6219</b>	ng/L
Cd-Precon	114	31	-1102	-1132.682555	<b>-22.7655</b>	ng/L
Pb-Precon	208	254	3101	2847.523347	<b>10.3105</b>	ng/L
Tb-Precon	159	14	4347	4333.474474		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 07:16:51  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.089  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	773	725.196991	<b>15.3719</b>	ng/L
Fe-Precon	54	100	1157	1056.693285	<b>172.4533</b>	ng/L
Fe-Precon	56	2026	22706	20679.614335	<b>177.6423</b>	ng/L
Fe-Precon	57	127	696	569.465755	<b>188.7697</b>	ng/L
Co-Precon	59	81	73	-8.876401	<b>-0.0857</b>	ng/L
Ni-Precon	60	113	152	38.909954	<b>1.4187</b>	ng/L
Cu-Precon	63	288	1746	1458.002699	<b>23.3150</b>	ng/L
Cu-Precon	65	132	818	686.564107	<b>22.9738</b>	ng/L
Zn-Precon	66	513	546	33.056259	<b>0.3667</b>	ng/L
Zn-Precon	68	395	389	-5.917329	<b>-1.1728</b>	ng/L
Cd-Precon	111	3	-5	-8.305484	<b>-0.2112</b>	ng/L
Cd-Precon	114	31	-7	-38.131596	<b>-1.1944</b>	ng/L
Pb-Precon	208	254	275	21.335489	<b>-0.1796</b>	ng/L
Tb-Precon	159	14	77	63.387496		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1235028-04RE1**

**Sample Description:**

**Batch ID: B121618**

Sample Date/Time: Saturday, September 08, 2012 07:30:02

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1235028-04RE1.090

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	56856	56808.639294	<b>1270.6519</b>	ng/L
Fe-Precon	54	100	1868400	1868299.789100	<b>302732.9372</b>	ng/L
Fe-Precon	56	2026	36522544	36520517.676569	<b>309831.1339</b>	ng/L
Fe-Precon	57	127	1263792	1263665.705822	<b>406411.1792</b>	ng/L
Co-Precon	59	81	134922	134840.621242	<b>954.9659</b>	ng/L
Ni-Precon	60	113	269702	269588.847246	<b>9366.3846</b>	ng/L
Cu-Precon	63	288	30399	30110.367005	<b>476.3966</b>	ng/L
Cu-Precon	65	132	16242	16110.548378	<b>541.2826</b>	ng/L
Zn-Precon	66	513	527295	526782.275438	<b>28671.1637</b>	ng/L
Zn-Precon	68	395	371112	370717.378685	<b>30374.1494</b>	ng/L
Cd-Precon	111	3	1453	1449.978215	<b>73.4742</b>	ng/L
Cd-Precon	114	31	3616	3584.835638	<b>70.2058</b>	ng/L
Pb-Precon	208	254	624397	624143.028507	<b>2316.4086</b>	ng/L
Tb-Precon	159	14	1182	1168.292643		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 07:43:13  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.091  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	467	418.842118	<b>8.5150</b>	ng/L
Fe-Precon	54	100	2609	2508.963418	<b>407.7733</b>	ng/L
Fe-Precon	56	2026	50121	48094.269531	<b>410.2199</b>	ng/L
Fe-Precon	57	127	1385	1258.416205	<b>410.3420</b>	ng/L
Co-Precon	59	81	1936	1854.712259	<b>13.1129</b>	ng/L
Ni-Precon	60	113	696	582.608166	<b>20.3084</b>	ng/L
Cu-Precon	63	288	6344	6055.883383	<b>96.0216</b>	ng/L
Cu-Precon	65	132	2963	2831.356000	<b>95.0476</b>	ng/L
Zn-Precon	66	513	1636	1123.679494	<b>59.7290</b>	ng/L
Zn-Precon	68	395	1121	726.144521	<b>58.8089</b>	ng/L
Cd-Precon	111	3	2	-0.739217	<b>0.1711</b>	ng/L
Cd-Precon	114	31	20	-10.451646	<b>-0.6489</b>	ng/L
Pb-Precon	208	254	3666	3412.905902	<b>12.4091</b>	ng/L
Tb-Precon	159	14	18	3.761049		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 07:56:25

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV3.092

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	12939	12891.097668	<b>287.6735</b>	ng/L
Fe-Precon	54	100	3796	3696.023563	<b>600.1197</b>	ng/L
Fe-Precon	56	2026	73729	71702.836384	<b>610.5078</b>	ng/L
Fe-Precon	57	127	1957	1829.841158	<b>594.1171</b>	ng/L
Co-Precon	59	81	17818	17736.292388	<b>125.5918</b>	ng/L
Ni-Precon	60	113	3463	3349.282778	<b>116.4309</b>	ng/L
Cu-Precon	63	288	9761	9472.167416	<b>150.0435</b>	ng/L
Cu-Precon	65	132	4564	4432.470072	<b>148.8516</b>	ng/L
Zn-Precon	66	513	11758	11245.066207	<b>610.6330</b>	ng/L
Zn-Precon	68	395	7831	7436.483671	<b>608.6225</b>	ng/L
Cd-Precon	111	3	2243	2239.575670	<b>113.3717</b>	ng/L
Cd-Precon	114	31	5640	5609.583623	<b>110.1088</b>	ng/L
Pb-Precon	208	254	32676	32422.714934	<b>120.0865</b>	ng/L
Tb-Precon	159	14	12	-1.690047		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 08:09:36  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.093  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	323	275.278595	<b>5.3017</b>	ng/L
Fe-Precon	54	100	1182	1081.662503	<b>176.4992</b>	ng/L
Fe-Precon	56	2026	22284	20257.580000	<b>174.0619</b>	ng/L
Fe-Precon	57	127	663	536.731456	<b>178.2421</b>	ng/L
Co-Precon	59	81	518	436.101676	<b>3.0658</b>	ng/L
Ni-Precon	60	113	198	84.978717	<b>3.0193</b>	ng/L
Cu-Precon	63	288	3328	3039.860414	<b>48.3291</b>	ng/L
Cu-Precon	65	132	1609	1477.641305	<b>49.5573</b>	ng/L
Zn-Precon	66	513	603	90.383654	<b>3.4870</b>	ng/L
Zn-Precon	68	395	433	38.563721	<b>2.4718</b>	ng/L
Cd-Precon	111	3	5	1.709802	<b>0.2948</b>	ng/L
Cd-Precon	114	31	26	-4.664274	<b>-0.5349</b>	ng/L
Pb-Precon	208	254	804	550.583367	<b>1.7849</b>	ng/L
Tb-Precon	159	14	9	-4.779229		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB3**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 08:22:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB3.094

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	114	66.567282	<b>0.6302</b>	ng/L
Fe-Precon	54	100	348	247.524794	<b>41.3390</b>	ng/L
Fe-Precon	56	2026	6630	4603.721178	<b>41.2594</b>	ng/L
Fe-Precon	57	127	240	112.754564	<b>41.8875</b>	ng/L
Co-Precon	59	81	356	274.182978	<b>1.9190</b>	ng/L
Ni-Precon	60	113	170	56.839382	<b>2.0416</b>	ng/L
Cu-Precon	63	288	1707	1418.224522	<b>22.6860</b>	ng/L
Cu-Precon	65	132	818	685.708730	<b>22.9451</b>	ng/L
Zn-Precon	66	513	718	205.654609	<b>9.7612</b>	ng/L
Zn-Precon	68	395	494	99.387873	<b>7.4554</b>	ng/L
Cd-Precon	111	3	5	1.733263	<b>0.2960</b>	ng/L
Cd-Precon	114	31	38	7.406811	<b>-0.2970</b>	ng/L
Pb-Precon	208	254	623	369.452283	<b>1.1125</b>	ng/L
Tb-Precon	159	14	9	-4.658017		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 08:36:00  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.095  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	138	89.979078	<b>1.1542</b>	ng/L
Fe-Precon	54	100	828	727.932696	<b>119.1823</b>	ng/L
Fe-Precon	56	2026	16340	14314.155393	<b>123.6397</b>	ng/L
Fe-Precon	57	127	484	357.271344	<b>120.5262</b>	ng/L
Co-Precon	59	81	270	188.750647	<b>1.3140</b>	ng/L
Ni-Precon	60	113	155	41.545575	<b>1.5103</b>	ng/L
Cu-Precon	63	288	2161	1872.560746	<b>29.8705</b>	ng/L
Cu-Precon	65	132	993	860.984396	<b>28.8351</b>	ng/L
Zn-Precon	66	513	532	19.716941	<b>-0.3593</b>	ng/L
Zn-Precon	68	395	387	-7.218054	<b>-1.2794</b>	ng/L
Cd-Precon	111	3	5	2.171098	<b>0.3181</b>	ng/L
Cd-Precon	114	31	13	-17.452783	<b>-0.7869</b>	ng/L
Pb-Precon	208	254	480	225.998392	<b>0.5801</b>	ng/L
Tb-Precon	159	14	9	-5.343730		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BLK1**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 08:49:11

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 128

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BLK1.096

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	136	88.313252	<b>1.1170</b>	ng/L
Fe-Precon	54	100	587	486.788019	<b>80.1082</b>	ng/L
Fe-Precon	56	2026	11418	9392.186403	<b>81.8832</b>	ng/L
Fe-Precon	57	127	360	233.197007	<b>80.6228</b>	ng/L
Co-Precon	59	81	240	158.169144	<b>1.0974</b>	ng/L
Ni-Precon	60	113	42	-71.789717	<b>-2.4273</b>	ng/L
Cu-Precon	63	288	1756	1468.080911	<b>23.4744</b>	ng/L
Cu-Precon	65	132	795	663.156556	<b>22.1873</b>	ng/L
Zn-Precon	66	513	256	-257.106278	<b>-15.4267</b>	ng/L
Zn-Precon	68	395	193	-201.482708	<b>-17.1965</b>	ng/L
Cd-Precon	111	3	3	0.276919	<b>0.2224</b>	ng/L
Cd-Precon	114	31	11	-20.039334	<b>-0.8379</b>	ng/L
Pb-Precon	208	254	486	232.889570	<b>0.6057</b>	ng/L
Tb-Precon	159	14	7	-7.307370		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 09:02:22  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.097  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	116	68.347393	<b>0.6701</b>	ng/L
Fe-Precon	54	100	781	680.784721	<b>111.5426</b>	ng/L
Fe-Precon	56	2026	14629	12602.869079	<b>109.1217</b>	ng/L
Fe-Precon	57	127	458	330.776336	<b>112.0052</b>	ng/L
Co-Precon	59	81	192	110.683329	<b>0.7611</b>	ng/L
Ni-Precon	60	113	138	24.159755	<b>0.9062</b>	ng/L
Cu-Precon	63	288	1666	1377.599518	<b>22.0436</b>	ng/L
Cu-Precon	65	132	801	668.889763	<b>22.3799</b>	ng/L
Zn-Precon	66	513	497	-15.252496	<b>-2.2627</b>	ng/L
Zn-Precon	68	395	388	-7.072898	<b>-1.2675</b>	ng/L
Cd-Precon	111	3	2	-0.717667	<b>0.1722</b>	ng/L
Cd-Precon	114	31	12	-18.365595	<b>-0.8049</b>	ng/L
Pb-Precon	208	254	417	163.282685	<b>0.3473</b>	ng/L
Tb-Precon	159	14	9	-4.491782		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BLK2**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 09:15:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 129

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BLK2.098

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	161	113.453303	<b>1.6796</b>	ng/L
Fe-Precon	54	100	837	736.973479	<b>120.6472</b>	ng/L
Fe-Precon	56	2026	16254	14227.823606	<b>122.9073</b>	ng/L
Fe-Precon	57	127	511	384.706326	<b>129.3495</b>	ng/L
Co-Precon	59	81	185	103.981689	<b>0.7136</b>	ng/L
Ni-Precon	60	113	79	-34.604896	<b>-1.1354</b>	ng/L
Cu-Precon	63	288	3622	3334.062620	<b>52.9813</b>	ng/L
Cu-Precon	65	132	1713	1581.024290	<b>53.0313</b>	ng/L
Zn-Precon	66	513	268	-244.388606	<b>-14.7345</b>	ng/L
Zn-Precon	68	395	227	-167.539053	<b>-14.4153</b>	ng/L
Cd-Precon	111	3	4	0.427273	<b>0.2300</b>	ng/L
Cd-Precon	114	31	10	-21.061943	<b>-0.8580</b>	ng/L
Pb-Precon	208	254	571	317.085913	<b>0.9182</b>	ng/L
Tb-Precon	159	14	8	-5.790486		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 09:28:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.099

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	105	57.181860	<b>0.4202</b>	ng/L
Fe-Precon	54	100	641	540.833054	<b>88.8654</b>	ng/L
Fe-Precon	56	2026	12125	10098.634146	<b>87.8765</b>	ng/L
Fe-Precon	57	127	394	266.743750	<b>91.4118</b>	ng/L
Co-Precon	59	81	166	84.739572	<b>0.5773</b>	ng/L
Ni-Precon	60	113	135	21.801331	<b>0.8243</b>	ng/L
Cu-Precon	63	288	1117	828.917034	<b>13.3673</b>	ng/L
Cu-Precon	65	132	530	398.659956	<b>13.2991</b>	ng/L
Zn-Precon	66	513	528	14.847718	<b>-0.6244</b>	ng/L
Zn-Precon	68	395	388	-7.036974	<b>-1.2645</b>	ng/L
Cd-Precon	111	3	3	-0.337876	<b>0.1914</b>	ng/L
Cd-Precon	114	31	13	-17.313190	<b>-0.7842</b>	ng/L
Pb-Precon	208	254	354	100.578576	<b>0.1145</b>	ng/L
Tb-Precon	159	14	9	-5.004337		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BLK3**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 09:41:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BLK3.100

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	197	149.301972	<b>2.4820</b>	ng/L
Fe-Precon	54	100	659	559.120649	<b>91.8287</b>	ng/L
Fe-Precon	56	2026	13019	10992.588422	<b>95.4606</b>	ng/L
Fe-Precon	57	127	412	284.999663	<b>97.2830</b>	ng/L
Co-Precon	59	81	141	59.464369	<b>0.3983</b>	ng/L
Ni-Precon	60	113	80	-32.952922	<b>-1.0780</b>	ng/L
Cu-Precon	63	288	2040	1751.896927	<b>27.9624</b>	ng/L
Cu-Precon	65	132	938	805.709355	<b>26.9776</b>	ng/L
Zn-Precon	66	513	248	-264.407375	<b>-15.8241</b>	ng/L
Zn-Precon	68	395	204	-191.062053	<b>-16.3427</b>	ng/L
Cd-Precon	111	3	4	0.494564	<b>0.2334</b>	ng/L
Cd-Precon	114	31	12	-18.548612	<b>-0.8085</b>	ng/L
Pb-Precon	208	254	400	146.549287	<b>0.2852</b>	ng/L
Tb-Precon	159	14	6	-7.875336		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 09:55:05  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.101  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	102	54.726357	<b>0.3652</b>	ng/L
Fe-Precon	54	100	577	476.646116	<b>78.4648</b>	ng/L
Fe-Precon	56	2026	11116	9089.559911	<b>79.3159</b>	ng/L
Fe-Precon	57	127	347	220.468958	<b>76.5294</b>	ng/L
Co-Precon	59	81	121	39.903713	<b>0.2598</b>	ng/L
Ni-Precon	60	113	121	7.401011	<b>0.3240</b>	ng/L
Cu-Precon	63	288	785	496.162351	<b>8.1054</b>	ng/L
Cu-Precon	65	132	359	226.965536	<b>7.5295</b>	ng/L
Zn-Precon	66	513	507	-6.213197	<b>-1.7707</b>	ng/L
Zn-Precon	68	395	380	-14.207025	<b>-1.8520</b>	ng/L
Cd-Precon	111	3	3	-0.209618	<b>0.1978</b>	ng/L
Cd-Precon	114	31	11	-19.333363	<b>-0.8240</b>	ng/L
Pb-Precon	208	254	324	70.404613	<b>0.0025</b>	ng/L
Tb-Precon	159	14	10	-3.747192		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BLK4**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 10:08:16

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 131

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BLK4.102

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	194	146.763559	<b>2.4252</b>	ng/L
Fe-Precon	54	100	1074	973.659196	<b>158.9988</b>	ng/L
Fe-Precon	56	2026	20878	18851.951908	<b>162.1370</b>	ng/L
Fe-Precon	57	127	613	486.205971	<b>161.9927</b>	ng/L
Co-Precon	59	81	126	44.783485	<b>0.2943</b>	ng/L
Ni-Precon	60	113	106	-7.730034	<b>-0.2017</b>	ng/L
Cu-Precon	63	288	1643	1354.267130	<b>21.6747</b>	ng/L
Cu-Precon	65	132	749	617.673107	<b>20.6588</b>	ng/L
Zn-Precon	66	513	516	3.064522	<b>-1.2657</b>	ng/L
Zn-Precon	68	395	382	-13.129466	<b>-1.7637</b>	ng/L
Cd-Precon	111	3	2	-1.076835	<b>0.1540</b>	ng/L
Cd-Precon	114	31	11	-19.558828	<b>-0.8284</b>	ng/L
Pb-Precon	208	254	396	142.760277	<b>0.2711</b>	ng/L
Tb-Precon	159	14	8	-6.396547		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 10:21:27  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.103  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	99	51.588758	<b>0.2950</b>	ng/L
Fe-Precon	54	100	531	430.795664	<b>71.0354</b>	ng/L
Fe-Precon	56	2026	10427	8401.170653	<b>73.4758</b>	ng/L
Fe-Precon	57	127	330	203.422408	<b>71.0471</b>	ng/L
Co-Precon	59	81	123	41.223299	<b>0.2691</b>	ng/L
Ni-Precon	60	113	118	4.692711	<b>0.2299</b>	ng/L
Cu-Precon	63	288	611	322.263117	<b>5.3555</b>	ng/L
Cu-Precon	65	132	290	158.339771	<b>5.2233</b>	ng/L
Zn-Precon	66	513	503	-9.778722	<b>-1.9648</b>	ng/L
Zn-Precon	68	395	382	-12.827086	<b>-1.7389</b>	ng/L
Cd-Precon	111	3	2	-1.243698	<b>0.1456</b>	ng/L
Cd-Precon	114	31	12	-18.849208	<b>-0.8144</b>	ng/L
Pb-Precon	208	254	321	67.488919	<b>-0.0083</b>	ng/L
Tb-Precon	159	14	9	-4.883123		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS1**

**Sample Description: 5x**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 10:34:38

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 132

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS1.104

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	32614	32566.539655	<b>3640.2820</b>	ng/L
Fe-Precon	54	100	147766	147666.035340	<b>119642.1769</b>	ng/L
Fe-Precon	56	2026	2099159	2097132.502565	<b>88968.1760</b>	ng/L
Fe-Precon	57	127	74371	74243.769214	<b>119415.2370</b>	ng/L
Co-Precon	59	81	68891	68809.484956	<b>2436.5509</b>	ng/L
Ni-Precon	60	113	26780	26666.331184	<b>4632.6723</b>	ng/L
Cu-Precon	63	288	31494	31205.395079	<b>2468.5616</b>	ng/L
Cu-Precon	65	132	14629	14497.340699	<b>2435.3612</b>	ng/L
Zn-Precon	66	513	20636	20123.554748	<b>5469.4317</b>	ng/L
Zn-Precon	68	395	13841	13446.762884	<b>5505.3826</b>	ng/L
Cd-Precon	111	3	888	884.538564	<b>224.5159</b>	ng/L
Cd-Precon	114	31	2786	2755.001396	<b>269.2583</b>	ng/L
Pb-Precon	208	254	31148	30894.267896	<b>572.0662</b>	ng/L
Tb-Precon	159	14	500	485.950420		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 10:47:48  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.105  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	276	228.609400	<b>4.2571</b>	ng/L
Fe-Precon	54	100	5433	5333.098687	<b>865.3847</b>	ng/L
Fe-Precon	56	2026	104905	102879.080516	<b>874.9975</b>	ng/L
Fe-Precon	57	127	2748	2621.126385	<b>848.6011</b>	ng/L
Co-Precon	59	81	246	164.798693	<b>1.1443</b>	ng/L
Ni-Precon	60	113	201	87.946969	<b>3.1224</b>	ng/L
Cu-Precon	63	288	1683	1395.102387	<b>22.3204</b>	ng/L
Cu-Precon	65	132	763	631.461777	<b>21.1222</b>	ng/L
Zn-Precon	66	513	589	76.091883	<b>2.7091</b>	ng/L
Zn-Precon	68	395	422	27.180191	<b>1.5391</b>	ng/L
Cd-Precon	111	3	2	-0.868702	<b>0.1645</b>	ng/L
Cd-Precon	114	31	27	-4.157358	<b>-0.5249</b>	ng/L
Pb-Precon	208	254	337	83.874074	<b>0.0525</b>	ng/L
Tb-Precon	159	14	37	22.684091		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS2**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 11:00:59

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 133

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS2.106

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	14986	14938.724853	<b>333.5043</b>	ng/L
Fe-Precon	54	100	69491	69390.875279	<b>11245.0465</b>	ng/L
Fe-Precon	56	2026	1089852	1087825.360173	<b>9230.9813</b>	ng/L
Fe-Precon	57	127	34864	34737.512588	<b>11177.5019</b>	ng/L
Co-Precon	59	81	32227	32145.805973	<b>227.6451</b>	ng/L
Ni-Precon	60	113	12449	12335.124200	<b>428.6257</b>	ng/L
Cu-Precon	63	288	14989	14700.276169	<b>232.7159</b>	ng/L
Cu-Precon	65	132	7081	6949.539999	<b>233.4354</b>	ng/L
Zn-Precon	66	513	10086	9572.797404	<b>519.6119</b>	ng/L
Zn-Precon	68	395	6621	6226.809618	<b>509.5075</b>	ng/L
Cd-Precon	111	3	448	444.771363	<b>22.6822</b>	ng/L
Cd-Precon	114	31	1368	1337.514872	<b>25.9163</b>	ng/L
Pb-Precon	208	254	15813	15559.102409	<b>57.4928</b>	ng/L
Tb-Precon	159	14	33	19.116965		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 11:14:09  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.107  
Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	265	217.249624	<b>4.0029</b>	ng/L
Fe-Precon	54	100	5280	5179.850485	<b>840.5530</b>	ng/L
Fe-Precon	56	2026	101204	99177.584025	<b>843.5952</b>	ng/L
Fe-Precon	57	127	2689	2562.386171	<b>829.7097</b>	ng/L
Co-Precon	59	81	218	136.794163	<b>0.9460</b>	ng/L
Ni-Precon	60	113	192	78.367435	<b>2.7896</b>	ng/L
Cu-Precon	63	288	1612	1323.676222	<b>21.1909</b>	ng/L
Cu-Precon	65	132	754	622.357234	<b>20.8162</b>	ng/L
Zn-Precon	66	513	486	-26.647961	<b>-2.8829</b>	ng/L
Zn-Precon	68	395	355	-39.601309	<b>-3.9327</b>	ng/L
Cd-Precon	111	3	2	-0.641767	<b>0.1760</b>	ng/L
Cd-Precon	114	31	21	-10.148270	<b>-0.6430</b>	ng/L
Pb-Precon	208	254	330	75.941280	<b>0.0231</b>	ng/L
Tb-Precon	159	14	11	-2.943727		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS3**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 11:27:20

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 134

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS3.108

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	14961	14913.653864	<b>332.9431</b>	ng/L
Fe-Precon	54	100	66960	66859.501947	<b>10834.8731</b>	ng/L
Fe-Precon	56	2026	1070972	1068945.443573	<b>9070.8098</b>	ng/L
Fe-Precon	57	127	33610	33483.320990	<b>10774.1433</b>	ng/L
Co-Precon	59	81	32487	32405.910123	<b>229.4872</b>	ng/L
Ni-Precon	60	113	13333	13219.566866	<b>459.3539</b>	ng/L
Cu-Precon	63	288	14835	14546.849218	<b>230.2897</b>	ng/L
Cu-Precon	65	132	6938	6806.489985	<b>228.6283</b>	ng/L
Zn-Precon	66	513	9802	9289.572464	<b>504.1960</b>	ng/L
Zn-Precon	68	395	6549	6154.792818	<b>503.6068</b>	ng/L
Cd-Precon	111	3	433	429.802998	<b>21.9259</b>	ng/L
Cd-Precon	114	31	1299	1268.264461	<b>24.5516</b>	ng/L
Pb-Precon	208	254	15635	15381.620195	<b>56.8341</b>	ng/L
Tb-Precon	159	14	29	14.794869		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 11:40:30  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.109  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	275	227.217271	<b>4.2260</b>	ng/L
Fe-Precon	54	100	5818	5717.643838	<b>927.6948</b>	ng/L
Fe-Precon	56	2026	113507	111480.588296	<b>947.9701</b>	ng/L
Fe-Precon	57	127	2972	2845.704568	<b>920.8273</b>	ng/L
Co-Precon	59	81	235	153.366531	<b>1.0634</b>	ng/L
Ni-Precon	60	113	214	100.619225	<b>3.5627</b>	ng/L
Cu-Precon	63	288	1678	1389.877344	<b>22.2378</b>	ng/L
Cu-Precon	65	132	792	660.141125	<b>22.0859</b>	ng/L
Zn-Precon	66	513	516	3.033612	<b>-1.2674</b>	ng/L
Zn-Precon	68	395	378	-16.888747	<b>-2.0717</b>	ng/L
Cd-Precon	111	3	3	-0.276037	<b>0.1945</b>	ng/L
Cd-Precon	114	31	25	-5.975752	<b>-0.5607</b>	ng/L
Pb-Precon	208	254	329	75.783274	<b>0.0225</b>	ng/L
Tb-Precon	159	14	11	-2.718617		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS4**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 11:53:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 135

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS4.110

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	14786	14737.949737	<b>329.0104</b>	ng/L
Fe-Precon	54	100	67546	67445.781550	<b>10929.8714</b>	ng/L
Fe-Precon	56	2026	1060538	1058511.716980	<b>8982.2933</b>	ng/L
Fe-Precon	57	127	33616	33489.361275	<b>10776.0859</b>	ng/L
Co-Precon	59	81	32116	32034.636019	<b>226.8577</b>	ng/L
Ni-Precon	60	113	12508	12394.704427	<b>430.6957</b>	ng/L
Cu-Precon	63	288	14803	14514.967350	<b>229.7856</b>	ng/L
Cu-Precon	65	132	6736	6604.040781	<b>221.8252</b>	ng/L
Zn-Precon	66	513	9887	9374.651984	<b>508.8269</b>	ng/L
Zn-Precon	68	395	6547	6152.038060	<b>503.3811</b>	ng/L
Cd-Precon	111	3	438	434.484103	<b>22.1624</b>	ng/L
Cd-Precon	114	31	1336	1305.224902	<b>25.2800</b>	ng/L
Pb-Precon	208	254	15565	15311.745190	<b>56.5747</b>	ng/L
Tb-Precon	159	14	24	10.268437		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 12:06:50  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.111  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	260	211.874505	<b>3.8825</b>	ng/L
Fe-Precon	54	100	5447	5347.368228	<b>867.6969</b>	ng/L
Fe-Precon	56	2026	105851	103824.689098	<b>883.0198</b>	ng/L
Fe-Precon	57	127	2784	2656.985901	<b>860.1338</b>	ng/L
Co-Precon	59	81	216	134.640103	<b>0.9307</b>	ng/L
Ni-Precon	60	113	205	91.102090	<b>3.2320</b>	ng/L
Cu-Precon	63	288	1565	1277.108830	<b>20.4546</b>	ng/L
Cu-Precon	65	132	720	588.316225	<b>19.6723</b>	ng/L
Zn-Precon	66	513	496	-16.474234	<b>-2.3292</b>	ng/L
Zn-Precon	68	395	368	-26.657901	<b>-2.8722</b>	ng/L
Cd-Precon	111	3	5	1.470572	<b>0.2827</b>	ng/L
Cd-Precon	114	31	21	-9.617060	<b>-0.6325</b>	ng/L
Pb-Precon	208	254	323	69.209713	<b>-0.0019</b>	ng/L
Tb-Precon	159	14	12	-1.849355		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS5**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 12:20:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 136

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS5.112

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	14750	14702.095493	<b>328.2079</b>	ng/L
Fe-Precon	54	100	67181	67080.633362	<b>10870.7043</b>	ng/L
Fe-Precon	56	2026	1045638	1043612.084524	<b>8855.8894</b>	ng/L
Fe-Precon	57	127	33729	33602.063460	<b>10812.3319</b>	ng/L
Co-Precon	59	81	32193	32111.232122	<b>227.4002</b>	ng/L
Ni-Precon	60	113	13293	13179.692690	<b>457.9686</b>	ng/L
Cu-Precon	63	288	14810	14521.484155	<b>229.8886</b>	ng/L
Cu-Precon	65	132	6792	6660.515648	<b>223.7230</b>	ng/L
Zn-Precon	66	513	9844	9331.618242	<b>506.4846</b>	ng/L
Zn-Precon	68	395	6559	6164.041399	<b>504.3646</b>	ng/L
Cd-Precon	111	3	447	443.786751	<b>22.6325</b>	ng/L
Cd-Precon	114	31	1320	1289.593972	<b>24.9719</b>	ng/L
Pb-Precon	208	254	15506	15252.786513	<b>56.3559</b>	ng/L
Tb-Precon	159	14	29	14.573221		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 12:33:12  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.113  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	294	246.595473	<b>4.6597</b>	ng/L
Fe-Precon	54	100	6734	6633.715119	<b>1076.1313</b>	ng/L
Fe-Precon	56	2026	131037	129010.241783	<b>1096.6863</b>	ng/L
Fe-Precon	57	127	3421	3293.813446	<b>1064.9429</b>	ng/L
Co-Precon	59	81	235	153.536054	<b>1.0646</b>	ng/L
Ni-Precon	60	113	232	118.379304	<b>4.1797</b>	ng/L
Cu-Precon	63	288	2040	1751.980142	<b>27.9637</b>	ng/L
Cu-Precon	65	132	963	831.589460	<b>27.8473</b>	ng/L
Zn-Precon	66	513	479	-33.982239	<b>-3.2822</b>	ng/L
Zn-Precon	68	395	361	-33.437284	<b>-3.4276</b>	ng/L
Cd-Precon	111	3	3	-0.564164	<b>0.1799</b>	ng/L
Cd-Precon	114	31	28	-2.686114	<b>-0.4959</b>	ng/L
Pb-Precon	208	254	306	52.595733	<b>-0.0636</b>	ng/L
Tb-Precon	159	14	10	-4.173162		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV4**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 12:46:24

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV4.114

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	11792	11744.122342	<b>262.0015</b>	ng/L
Fe-Precon	54	100	3510	3410.215963	<b>553.8086</b>	ng/L
Fe-Precon	56	2026	68706	66679.804288	<b>567.8939</b>	ng/L
Fe-Precon	57	127	1817	1690.685040	<b>549.3633</b>	ng/L
Co-Precon	59	81	15871	15789.236243	<b>111.8021</b>	ng/L
Ni-Precon	60	113	3189	3075.305917	<b>106.9121</b>	ng/L
Cu-Precon	63	288	7039	6750.609781	<b>107.0074</b>	ng/L
Cu-Precon	65	132	3298	3165.966466	<b>106.2919</b>	ng/L
Zn-Precon	66	513	11085	10571.769846	<b>573.9857</b>	ng/L
Zn-Precon	68	395	7392	6997.816494	<b>572.6802</b>	ng/L
Cd-Precon	111	3	2177	2173.578171	<b>110.0369</b>	ng/L
Cd-Precon	114	31	5509	5478.426657	<b>107.5240</b>	ng/L
Pb-Precon	208	254	30385	30131.341285	<b>111.5814</b>	ng/L
Tb-Precon	159	14	9	-4.471002		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 12:59:35  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.115  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	395	347.588583	<b>6.9201</b>	ng/L
Fe-Precon	54	100	1585	1485.367764	<b>241.9140</b>	ng/L
Fe-Precon	56	2026	30835	28808.326232	<b>246.6038</b>	ng/L
Fe-Precon	57	127	845	717.907712	<b>236.5099</b>	ng/L
Co-Precon	59	81	195	113.447583	<b>0.7806</b>	ng/L
Ni-Precon	60	113	146	32.935738	<b>1.2111</b>	ng/L
Cu-Precon	63	288	1216	927.601501	<b>14.9278</b>	ng/L
Cu-Precon	65	132	571	438.934499	<b>14.6525</b>	ng/L
Zn-Precon	66	513	528	15.245755	<b>-0.6027</b>	ng/L
Zn-Precon	68	395	382	-12.287824	<b>-1.6948</b>	ng/L
Cd-Precon	111	3	5	1.668469	<b>0.2927</b>	ng/L
Cd-Precon	114	31	21	-10.035438	<b>-0.6407</b>	ng/L
Pb-Precon	208	254	322	68.594039	<b>-0.0042</b>	ng/L
Tb-Precon	159	14	8	-5.617325		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB4**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 13:12:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB4.116

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	122	74.699118	<b>0.8122</b>	ng/L
Fe-Precon	54	100	358	257.728862	<b>42.9924</b>	ng/L
Fe-Precon	56	2026	6768	4741.567037	<b>42.4288</b>	ng/L
Fe-Precon	57	127	227	100.636762	<b>37.9904</b>	ng/L
Co-Precon	59	81	75	-6.486704	<b>-0.0688</b>	ng/L
Ni-Precon	60	113	127	13.683381	<b>0.5423</b>	ng/L
Cu-Precon	63	288	452	164.093418	<b>2.8544</b>	ng/L
Cu-Precon	65	132	214	82.199949	<b>2.6647</b>	ng/L
Zn-Precon	66	513	673	160.247019	<b>7.2897</b>	ng/L
Zn-Precon	68	395	489	94.095953	<b>7.0218</b>	ng/L
Cd-Precon	111	3	6	2.847433	<b>0.3523</b>	ng/L
Cd-Precon	114	31	38	6.891039	<b>-0.3071</b>	ng/L
Pb-Precon	208	254	433	179.365976	<b>0.4070</b>	ng/L
Tb-Precon	159	14	11	-2.597406		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 13:25:59  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.117  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	127	79.302021	<b>0.9153</b>	ng/L
Fe-Precon	54	100	870	769.597696	<b>125.9335</b>	ng/L
Fe-Precon	56	2026	16559	14532.309012	<b>125.4905</b>	ng/L
Fe-Precon	57	127	484	357.258606	<b>120.5221</b>	ng/L
Co-Precon	59	81	80	-1.738593	<b>-0.0351</b>	ng/L
Ni-Precon	60	113	122	8.911004	<b>0.3765</b>	ng/L
Cu-Precon	63	288	454	165.168850	<b>2.8714</b>	ng/L
Cu-Precon	65	132	226	93.687942	<b>3.0508</b>	ng/L
Zn-Precon	66	513	432	-80.288368	<b>-5.8026</b>	ng/L
Zn-Precon	68	395	341	-53.241370	<b>-5.0503</b>	ng/L
Cd-Precon	111	3	3	-0.278748	<b>0.1943</b>	ng/L
Cd-Precon	114	31	15	-16.248574	<b>-0.7632</b>	ng/L
Pb-Precon	208	254	287	33.373098	<b>-0.1349</b>	ng/L
Tb-Precon	159	14	10	-3.878793		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS6**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 13:39:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 137

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS6.118

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1519	1470.798304	<b>32.0602</b>	ng/L
Fe-Precon	54	100	6310	6210.185250	<b>1007.5042</b>	ng/L
Fe-Precon	56	2026	125021	122994.366236	<b>1045.6495</b>	ng/L
Fe-Precon	57	127	3292	3165.590286	<b>1023.7053</b>	ng/L
Co-Precon	59	81	3148	3066.030791	<b>21.6919</b>	ng/L
Ni-Precon	60	113	1890	1776.729851	<b>61.7957</b>	ng/L
Cu-Precon	63	288	1794	1505.179890	<b>24.0611</b>	ng/L
Cu-Precon	65	132	843	711.086070	<b>23.7979</b>	ng/L
Zn-Precon	66	513	1085	572.647743	<b>29.7365</b>	ng/L
Zn-Precon	68	395	731	336.204422	<b>26.8591</b>	ng/L
Cd-Precon	111	3	47	44.328955	<b>2.4483</b>	ng/L
Cd-Precon	114	31	136	105.080988	<b>1.6279</b>	ng/L
Pb-Precon	208	254	1710	1456.533558	<b>5.1475</b>	ng/L
Tb-Precon	159	14	9	-4.675331		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 13:52:21  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.119  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	124	76.725116	<b>0.8576</b>	ng/L
Fe-Precon	54	100	1222	1122.165468	<b>183.0622</b>	ng/L
Fe-Precon	56	2026	23885	21858.766002	<b>187.6459</b>	ng/L
Fe-Precon	57	127	671	543.870687	<b>180.5381</b>	ng/L
Co-Precon	59	81	97	15.851514	<b>0.0894</b>	ng/L
Ni-Precon	60	113	132	18.275721	<b>0.7018</b>	ng/L
Cu-Precon	63	288	476	188.031176	<b>3.2329</b>	ng/L
Cu-Precon	65	132	223	90.983132	<b>2.9599</b>	ng/L
Zn-Precon	66	513	436	-77.231341	<b>-5.6362</b>	ng/L
Zn-Precon	68	395	338	-56.693418	<b>-5.3331</b>	ng/L
Cd-Precon	111	3	2	-1.001985	<b>0.1578</b>	ng/L
Cd-Precon	114	31	16	-14.982206	<b>-0.7382</b>	ng/L
Pb-Precon	208	254	280	26.615572	<b>-0.1600</b>	ng/L
Tb-Precon	159	14	9	-4.924683		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS7**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 14:05:33

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 138

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS7.120

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	2834	2786.655859	<b>61.5122</b>	ng/L
Fe-Precon	54	100	12811	12711.003140	<b>2060.8703</b>	ng/L
Fe-Precon	56	2026	249363	247336.670327	<b>2100.5317</b>	ng/L
Fe-Precon	57	127	6377	6250.566088	<b>2015.8595</b>	ng/L
Co-Precon	59	81	6291	6209.418850	<b>43.9545</b>	ng/L
Ni-Precon	60	113	3651	3537.109822	<b>122.9566</b>	ng/L
Cu-Precon	63	288	3115	2826.165215	<b>44.9499</b>	ng/L
Cu-Precon	65	132	1422	1290.328822	<b>43.2628</b>	ng/L
Zn-Precon	66	513	2010	1497.449572	<b>80.0732</b>	ng/L
Zn-Precon	68	395	1390	995.694527	<b>80.8946</b>	ng/L
Cd-Precon	111	3	89	85.528793	<b>4.5301</b>	ng/L
Cd-Precon	114	31	267	235.977003	<b>4.2076</b>	ng/L
Pb-Precon	208	254	3230	2976.045210	<b>10.7876</b>	ng/L
Tb-Precon	159	14	9	-4.432907		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 14:18:44  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.121  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	157	108.795196	<b>1.5754</b>	ng/L
Fe-Precon	54	100	1715	1615.411339	<b>262.9857</b>	ng/L
Fe-Precon	56	2026	33738	31711.928187	<b>271.2371</b>	ng/L
Fe-Precon	57	127	900	773.557660	<b>254.4074</b>	ng/L
Co-Precon	59	81	116	34.684700	<b>0.2228</b>	ng/L
Ni-Precon	60	113	155	41.704850	<b>1.5158</b>	ng/L
Cu-Precon	63	288	547	258.813397	<b>4.3522</b>	ng/L
Cu-Precon	65	132	269	137.632868	<b>4.5275</b>	ng/L
Zn-Precon	66	513	448	-64.715495	<b>-4.9550</b>	ng/L
Zn-Precon	68	395	343	-51.889186	<b>-4.9395</b>	ng/L
Cd-Precon	111	3	2	-1.257908	<b>0.1449</b>	ng/L
Cd-Precon	114	31	15	-16.144126	<b>-0.7611</b>	ng/L
Pb-Precon	208	254	299	45.365020	<b>-0.0904</b>	ng/L
Tb-Precon	159	14	7	-6.500442		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS8**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 14:31:55

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 139

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS8.122

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	4075	4026.818720	<b>89.2700</b>	ng/L
Fe-Precon	54	100	19072	18972.230644	<b>3075.4142</b>	ng/L
Fe-Precon	56	2026	371874	369847.758279	<b>3139.8784</b>	ng/L
Fe-Precon	57	127	9661	9534.696515	<b>3072.0636</b>	ng/L
Co-Precon	59	81	9380	9298.274074	<b>65.8308</b>	ng/L
Ni-Precon	60	113	4361	4247.107123	<b>147.6240</b>	ng/L
Cu-Precon	63	288	4524	4235.573832	<b>67.2369</b>	ng/L
Cu-Precon	65	132	2099	1967.456416	<b>66.0170</b>	ng/L
Zn-Precon	66	513	3090	2577.217873	<b>138.8447</b>	ng/L
Zn-Precon	68	395	2110	1715.445046	<b>139.8675</b>	ng/L
Cd-Precon	111	3	136	133.196893	<b>6.9387</b>	ng/L
Cd-Precon	114	31	399	368.390190	<b>6.8172</b>	ng/L
Pb-Precon	208	254	4820	4566.497143	<b>16.6910</b>	ng/L
Tb-Precon	159	14	11	-2.638960		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 14:45:06  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.123  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	165	117.529786	<b>1.7709</b>	ng/L
Fe-Precon	54	100	2261	2161.139649	<b>351.4133</b>	ng/L
Fe-Precon	56	2026	43049	41022.224965	<b>350.2228</b>	ng/L
Fe-Precon	57	127	1155	1028.423729	<b>336.3745</b>	ng/L
Co-Precon	59	81	125	43.460750	<b>0.2850</b>	ng/L
Ni-Precon	60	113	144	30.518412	<b>1.1272</b>	ng/L
Cu-Precon	63	288	627	338.691184	<b>5.6153</b>	ng/L
Cu-Precon	65	132	312	180.160744	<b>5.9566</b>	ng/L
Zn-Precon	66	513	462	-50.515944	<b>-4.1821</b>	ng/L
Zn-Precon	68	395	348	-46.809523	<b>-4.5233</b>	ng/L
Cd-Precon	111	3	2	-1.254079	<b>0.1451</b>	ng/L
Cd-Precon	114	31	18	-12.349930	<b>-0.6863</b>	ng/L
Pb-Precon	208	254	304	50.497451	<b>-0.0713</b>	ng/L
Tb-Precon	159	14	10	-4.072733		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121663-BS9**

**Sample Description:**

**Batch ID: B121663**

Sample Date/Time: Saturday, September 08, 2012 14:58:17

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 140

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121663-BS9.124

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	6757	6708.864847	<b>149.3005</b>	ng/L
Fe-Precon	54	100	31327	31227.464883	<b>5061.2026</b>	ng/L
Fe-Precon	56	2026	608918	606891.222667	<b>5150.8828</b>	ng/L
Fe-Precon	57	127	15845	15718.371994	<b>5060.7858</b>	ng/L
Co-Precon	59	81	15543	15461.807931	<b>109.4831</b>	ng/L
Ni-Precon	60	113	6743	6629.799080	<b>230.4058</b>	ng/L
Cu-Precon	63	288	7209	6920.647456	<b>109.6962</b>	ng/L
Cu-Precon	65	132	3336	3203.734727	<b>107.5610</b>	ng/L
Zn-Precon	66	513	4738	4224.971491	<b>228.5314</b>	ng/L
Zn-Precon	68	395	3216	2821.636947	<b>230.5037</b>	ng/L
Cd-Precon	111	3	199	196.273467	<b>10.1259</b>	ng/L
Cd-Precon	114	31	663	632.679852	<b>12.0257</b>	ng/L
Pb-Precon	208	254	7873	7619.235504	<b>28.0220</b>	ng/L
Tb-Precon	159	14	17	2.992220		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 15:11:28  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.125  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	182	134.073901	<b>2.1412</b>	ng/L
Fe-Precon	54	100	3179	3079.467409	<b>500.2154</b>	ng/L
Fe-Precon	56	2026	61939	59912.620403	<b>510.4832</b>	ng/L
Fe-Precon	57	127	1659	1531.971789	<b>498.3198</b>	ng/L
Co-Precon	59	81	151	69.587880	<b>0.4700</b>	ng/L
Ni-Precon	60	113	155	41.209620	<b>1.4986</b>	ng/L
Cu-Precon	63	288	859	570.849016	<b>9.2864</b>	ng/L
Cu-Precon	65	132	424	292.267629	<b>9.7239</b>	ng/L
Zn-Precon	66	513	463	-49.684415	<b>-4.1368</b>	ng/L
Zn-Precon	68	395	352	-42.659989	<b>-4.1833</b>	ng/L
Cd-Precon	111	3	3	0.131832	<b>0.2151</b>	ng/L
Cd-Precon	114	31	16	-15.247804	<b>-0.7435</b>	ng/L
Pb-Precon	208	254	296	42.468688	<b>-0.1011</b>	ng/L
Tb-Precon	159	14	9	-4.966240		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV5**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 15:24:40

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV5.126

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	10801	10753.002528	<b>239.8179</b>	ng/L
Fe-Precon	54	100	3405	3305.053965	<b>536.7686</b>	ng/L
Fe-Precon	56	2026	65556	63529.218720	<b>541.1653</b>	ng/L
Fe-Precon	57	127	1773	1645.843857	<b>534.9420</b>	ng/L
Co-Precon	59	81	15445	15363.870359	<b>108.7895</b>	ng/L
Ni-Precon	60	113	3026	2913.017607	<b>101.2737</b>	ng/L
Cu-Precon	63	288	6995	6706.798196	<b>106.3146</b>	ng/L
Cu-Precon	65	132	3295	3163.664444	<b>106.2145</b>	ng/L
Zn-Precon	66	513	10672	10159.714000	<b>551.5576</b>	ng/L
Zn-Precon	68	395	7151	6756.391019	<b>552.8989</b>	ng/L
Cd-Precon	111	3	2096	2092.816083	<b>105.9561</b>	ng/L
Cd-Precon	114	31	5451	5420.090653	<b>106.3743</b>	ng/L
Pb-Precon	208	254	31017	30763.864238	<b>113.9292</b>	ng/L
Tb-Precon	159	14	10	-4.356718		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 15:37:51  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.127  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	279	231.733500	<b>4.3270</b>	ng/L
Fe-Precon	54	100	1151	1051.216316	<b>171.5659</b>	ng/L
Fe-Precon	56	2026	22329	20302.623432	<b>174.4441</b>	ng/L
Fe-Precon	57	127	648	521.646958	<b>173.3908</b>	ng/L
Co-Precon	59	81	142	60.088218	<b>0.4027</b>	ng/L
Ni-Precon	60	113	141	27.117438	<b>1.0090</b>	ng/L
Cu-Precon	63	288	870	582.015053	<b>9.4630</b>	ng/L
Cu-Precon	65	132	393	261.270508	<b>8.6822</b>	ng/L
Zn-Precon	66	513	499	-13.787624	<b>-2.1830</b>	ng/L
Zn-Precon	68	395	393	-1.296202	<b>-0.7942</b>	ng/L
Cd-Precon	111	3	5	2.102962	<b>0.3147</b>	ng/L
Cd-Precon	114	31	19	-12.109723	<b>-0.6816</b>	ng/L
Pb-Precon	208	254	340	86.592465	<b>0.0626</b>	ng/L
Tb-Precon	159	14	12	-2.275329		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB5**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 15:51:03

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB5.128

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	114	66.227948	<b>0.6226</b>	ng/L
Fe-Precon	54	100	305	204.846252	<b>34.4235</b>	ng/L
Fe-Precon	56	2026	5780	3753.559977	<b>34.0469</b>	ng/L
Fe-Precon	57	127	218	91.510836	<b>35.0554</b>	ng/L
Co-Precon	59	81	75	-6.282390	<b>-0.0673</b>	ng/L
Ni-Precon	60	113	129	15.079116	<b>0.5908</b>	ng/L
Cu-Precon	63	288	410	121.812485	<b>2.1858</b>	ng/L
Cu-Precon	65	132	186	53.841688	<b>1.7118</b>	ng/L
Zn-Precon	66	513	685	172.367381	<b>7.9494</b>	ng/L
Zn-Precon	68	395	491	96.435410	<b>7.2135</b>	ng/L
Cd-Precon	111	3	5	1.934161	<b>0.3062</b>	ng/L
Cd-Precon	114	31	31	0.413823	<b>-0.4348</b>	ng/L
Pb-Precon	208	254	465	211.008616	<b>0.5244</b>	ng/L
Tb-Precon	159	14	7	-6.597412		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-04RE2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 16:04:14

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 141

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1231002-04RE2.129

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	16117	16068.884034	<b>3587.9989</b>	ng/L
Fe-Precon	54	100	3643	3543.106274	<b>5753.4159</b>	ng/L
Fe-Precon	56	2026	80174	78147.295644	<b>6651.8061</b>	ng/L
Fe-Precon	57	127	11477	11350.202602	<b>36559.4565</b>	ng/L
Co-Precon	59	81	2340	2258.694016	<b>159.7404</b>	ng/L
Ni-Precon	60	113	4869	4755.700868	<b>1652.9404</b>	ng/L
Cu-Precon	63	288	4193	3904.550068	<b>620.0244</b>	ng/L
Cu-Precon	65	132	2031	1898.752371	<b>637.0831</b>	ng/L
Zn-Precon	66	513	2316	1803.009063	<b>967.0472</b>	ng/L
Zn-Precon	68	395	1608	1212.925203	<b>986.9343</b>	ng/L
Cd-Precon	111	3	-122	-124.624522	<b>-60.8870</b>	ng/L
Cd-Precon	114	31	-138	-169.088721	<b>-37.7529</b>	ng/L
Pb-Precon	208	254	4024	3770.458327	<b>137.3625</b>	ng/L
Tb-Precon	159	14	1080	1066.290528		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-05RE2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 16:17:23

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 142

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1231002-05RE2.130

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	16751	16703.575813	<b>3730.0579</b>	ng/L
Fe-Precon	54	100	3790	3690.275984	<b>5991.8837</b>	ng/L
Fe-Precon	56	2026	84018	81991.561996	<b>6977.9420</b>	ng/L
Fe-Precon	57	127	11789	11662.375594	<b>37563.4312</b>	ng/L
Co-Precon	59	81	2410	2328.526999	<b>164.6862</b>	ng/L
Ni-Precon	60	113	5067	4953.928393	<b>1721.8105</b>	ng/L
Cu-Precon	63	288	4339	4050.241382	<b>643.0627</b>	ng/L
Cu-Precon	65	132	2167	2034.924648	<b>682.8425</b>	ng/L
Zn-Precon	66	513	2395	1882.172627	<b>1010.1356</b>	ng/L
Zn-Precon	68	395	1638	1243.341184	<b>1011.8557</b>	ng/L
Cd-Precon	111	3	-142	-144.737574	<b>-71.0500</b>	ng/L
Cd-Precon	114	31	-161	-191.813386	<b>-42.2314</b>	ng/L
Pb-Precon	208	254	4136	3882.193232	<b>141.5098</b>	ng/L
Tb-Precon	159	14	1157	1142.778378		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-DUP1**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 16:30:32

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 143

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-DUP1.131

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	16402	16354.478167	<b>3651.9216</b>	ng/L
Fe-Precon	54	100	4210	4109.774783	<b>6671.6225</b>	ng/L
Fe-Precon	56	2026	92114	90087.778952	<b>7664.8003</b>	ng/L
Fe-Precon	57	127	12672	12545.183093	<b>40402.6146</b>	ng/L
Co-Precon	59	81	2353	2271.563489	<b>160.6518</b>	ng/L
Ni-Precon	60	113	4904	4790.909105	<b>1665.1728</b>	ng/L
Cu-Precon	63	288	4253	3964.631453	<b>629.5252</b>	ng/L
Cu-Precon	65	132	2082	1950.551510	<b>654.4897</b>	ng/L
Zn-Precon	66	513	2251	1738.530879	<b>931.9519</b>	ng/L
Zn-Precon	68	395	1524	1129.548879	<b>918.6197</b>	ng/L
Cd-Precon	111	3	-145	-147.630849	<b>-72.5119</b>	ng/L
Cd-Precon	114	31	-163	-194.028617	<b>-42.6680</b>	ng/L
Pb-Precon	208	254	3830	3576.326390	<b>130.1568</b>	ng/L
Tb-Precon	159	14	1148	1133.587195		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-MS1**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 16:43:41

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 144

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-MS1.132

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	237094	237046.634710	<b>53048.0413</b>	ng/L
Fe-Precon	54	100	64598	64497.904886	<b>104522.0948</b>	ng/L
Fe-Precon	56	2026	1035051	1033024.679201	<b>87660.6904</b>	ng/L
Fe-Precon	57	127	41594	41467.621446	<b>133419.6170</b>	ng/L
Co-Precon	59	81	300032	299950.617155	<b>21243.3310</b>	ng/L
Ni-Precon	60	113	62110	61996.661011	<b>21540.1512</b>	ng/L
Cu-Precon	63	288	128993	128704.255877	<b>20354.6754</b>	ng/L
Cu-Precon	65	132	60416	60284.656158	<b>20257.1275</b>	ng/L
Zn-Precon	66	513	192662	192149.225586	<b>104571.9037</b>	ng/L
Zn-Precon	68	395	128476	128080.886593	<b>104936.5713</b>	ng/L
Cd-Precon	111	3	38824	38820.626231	<b>19617.7162</b>	ng/L
Cd-Precon	114	31	98998	98967.592169	<b>19499.7622</b>	ng/L
Pb-Precon	208	254	450476	450222.739406	<b>16708.5869</b>	ng/L
Tb-Precon	159	14	1092	1077.666220		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-MSD1**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 16:56:49

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 145

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-MSD1.133

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	266876	266827.813434	<b>59713.7728</b>	ng/L
Fe-Precon	54	100	75335	75234.798227	<b>121919.7204</b>	ng/L
Fe-Precon	56	2026	1133110	1131083.326440	<b>95979.6869</b>	ng/L
Fe-Precon	57	127	48982	48855.385743	<b>157179.2904</b>	ng/L
Co-Precon	59	81	333641	333559.553793	<b>23623.6343</b>	ng/L
Ni-Precon	60	113	69348	69234.479590	<b>24054.7845</b>	ng/L
Cu-Precon	63	288	146467	146178.779644	<b>23117.9321</b>	ng/L
Cu-Precon	65	132	68332	68200.306218	<b>22917.1087</b>	ng/L
Zn-Precon	66	513	211936	211423.494868	<b>115062.8288</b>	ng/L
Zn-Precon	68	395	140548	140152.876027	<b>114827.7913</b>	ng/L
Cd-Precon	111	3	42195	42192.154814	<b>21321.3121</b>	ng/L
Cd-Precon	114	31	107382	107351.277846	<b>21151.9900</b>	ng/L
Pb-Precon	208	254	454417	454163.214068	<b>16854.8478</b>	ng/L
Tb-Precon	159	14	1214	1200.497783		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-06RE2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 17:09:58

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 146

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1231002-06RE2.134

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	17699	17651.436888	<b>3942.2116</b>	ng/L
Fe-Precon	54	100	12059	11959.481160	<b>19390.9678</b>	ng/L
Fe-Precon	56	2026	241429	239403.171694	<b>20332.2627</b>	ng/L
Fe-Precon	57	127	15900	15772.763513	<b>50782.7856</b>	ng/L
Co-Precon	59	81	3151	3069.909122	<b>217.1935</b>	ng/L
Ni-Precon	60	113	5404	5290.599777	<b>1838.7802</b>	ng/L
Cu-Precon	63	288	8887	8598.460461	<b>1362.2753</b>	ng/L
Cu-Precon	65	132	4268	4135.740105	<b>1388.8022</b>	ng/L
Zn-Precon	66	513	5571	5058.740310	<b>2739.1316</b>	ng/L
Zn-Precon	68	395	3779	3384.077788	<b>2765.8746</b>	ng/L
Cd-Precon	111	3	-104	-107.471879	<b>-52.2200</b>	ng/L
Cd-Precon	114	31	-83	-113.558687	<b>-26.8093</b>	ng/L
Pb-Precon	208	254	9212	8958.688010	<b>329.9370</b>	ng/L
Tb-Precon	159	14	1098	1084.057867		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-DUP2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 17:23:07

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 147

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-DUP2.135

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	16624	16575.995038	<b>3701.5023</b>	ng/L
Fe-Precon	54	100	10765	10664.626802	<b>17292.8384</b>	ng/L
Fe-Precon	56	2026	220967	218940.854518	<b>18596.3022</b>	ng/L
Fe-Precon	57	127	16125	15998.722042	<b>51509.4873</b>	ng/L
Co-Precon	59	81	2776	2694.473722	<b>190.6038</b>	ng/L
Ni-Precon	60	113	5261	5147.541640	<b>1789.0775</b>	ng/L
Cu-Precon	63	288	6875	6586.538071	<b>1044.1288</b>	ng/L
Cu-Precon	65	132	3324	3192.133918	<b>1071.7120</b>	ng/L
Zn-Precon	66	513	5202	4689.647267	<b>2538.2354</b>	ng/L
Zn-Precon	68	395	3515	3120.421112	<b>2549.8467</b>	ng/L
Cd-Precon	111	3	-130	-133.519926	<b>-65.3818</b>	ng/L
Cd-Precon	114	31	-132	-162.435411	<b>-36.4417</b>	ng/L
Pb-Precon	208	254	8480	8226.371363	<b>302.7552</b>	ng/L
Tb-Precon	159	14	1126	1112.308230		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-MS2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 17:36:16

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 148

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-MS2.136

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	272541	272493.724042	<b>60981.9375</b>	ng/L
Fe-Precon	54	100	81628	81528.392352	<b>132117.6046</b>	ng/L
Fe-Precon	56	2026	1202204	1200177.325876	<b>101841.4111</b>	ng/L
Fe-Precon	57	127	51825	51697.859301	<b>166320.9252</b>	ng/L
Co-Precon	59	81	343900	343818.753651	<b>24350.2270</b>	ng/L
Ni-Precon	60	113	70602	70488.428626	<b>24490.4436</b>	ng/L
Cu-Precon	63	288	149062	148773.642861	<b>23528.2594</b>	ng/L
Cu-Precon	65	132	70356	70224.556981	<b>23597.3395</b>	ng/L
Zn-Precon	66	513	222344	221831.679011	<b>120727.9712</b>	ng/L
Zn-Precon	68	395	146561	146166.143933	<b>119754.7800</b>	ng/L
Cd-Precon	111	3	43278	43275.004331	<b>21868.4640</b>	ng/L
Cd-Precon	114	31	111163	111132.090607	<b>21897.0996</b>	ng/L
Pb-Precon	208	254	469073	468819.636697	<b>17398.8586</b>	ng/L
Tb-Precon	159	14	1105	1090.751388		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121664-MSD2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 17:49:24

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 149

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121664-MSD2.137

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	279184	279136.246747	<b>62468.6911</b>	ng/L
Fe-Precon	54	100	85784	85683.767473	<b>138850.8056</b>	ng/L
Fe-Precon	56	2026	1261123	1259096.267944	<b>106839.9144</b>	ng/L
Fe-Precon	57	127	53847	53719.963051	<b>172824.1815</b>	ng/L
Co-Precon	59	81	347411	347329.484685	<b>24598.8694</b>	ng/L
Ni-Precon	60	113	70929	70815.549161	<b>24604.0950</b>	ng/L
Cu-Precon	63	288	153636	153347.236142	<b>24251.4844</b>	ng/L
Cu-Precon	65	132	72333	72201.291291	<b>24261.6028</b>	ng/L
Zn-Precon	66	513	223611	223098.301545	<b>121417.3899</b>	ng/L
Zn-Precon	68	395	148308	147913.656044	<b>121186.6092</b>	ng/L
Cd-Precon	111	3	43432	43429.195216	<b>21946.3749</b>	ng/L
Cd-Precon	114	31	111002	110971.397097	<b>21865.4306</b>	ng/L
Pb-Precon	208	254	474891	474637.645352	<b>17614.8089</b>	ng/L
Tb-Precon	159	14	1095	1080.583909		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1231002-11RE2**

**Sample Description: 10x**

**Batch ID: B121664**

Sample Date/Time: Saturday, September 08, 2012 18:02:33

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 0.5

Autosampler Position: 150

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1231002-11RE2.138

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	20294	20246.584129	<b>4523.0669</b>	ng/L
Fe-Precon	54	100	8901	8801.283402	<b>14273.5525</b>	ng/L
Fe-Precon	56	2026	185244	183217.775916	<b>15565.6652</b>	ng/L
Fe-Precon	57	127	17267	17140.255226	<b>55180.7544</b>	ng/L
Co-Precon	59	81	3223	3141.512206	<b>222.2646</b>	ng/L
Ni-Precon	60	113	5901	5787.199745	<b>2011.3138</b>	ng/L
Cu-Precon	63	288	9201	8912.650227	<b>1411.9583</b>	ng/L
Cu-Precon	65	132	4438	4306.080836	<b>1446.0436</b>	ng/L
Zn-Precon	66	513	3050	2537.030279	<b>1366.5726</b>	ng/L
Zn-Precon	68	395	2102	1707.470173	<b>1392.1412</b>	ng/L
Cd-Precon	111	3	-147	-149.981084	<b>-73.6994</b>	ng/L
Cd-Precon	114	31	-144	-174.845774	<b>-38.8875</b>	ng/L
Pb-Precon	208	254	4792	4538.207389	<b>165.8595</b>	ng/L
Tb-Precon	159	14	1200	1186.403774		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV6**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 18:15:44

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV6.139

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	13049	13001.289362	<b>290.1399</b>	ng/L
Fe-Precon	54	100	4570	4469.753769	<b>725.4918</b>	ng/L
Fe-Precon	56	2026	89901	87874.312097	<b>747.7017</b>	ng/L
Fe-Precon	57	127	2375	2248.298937	<b>728.6966</b>	ng/L
Co-Precon	59	81	16991	16909.499421	<b>119.7362</b>	ng/L
Ni-Precon	60	113	3443	3330.002723	<b>115.7610</b>	ng/L
Cu-Precon	63	288	9841	9552.260836	<b>151.3100</b>	ng/L
Cu-Precon	65	132	4594	4462.008440	<b>149.8442</b>	ng/L
Zn-Precon	66	513	11948	11435.397354	<b>620.9926</b>	ng/L
Zn-Precon	68	395	8004	7609.587767	<b>622.8059</b>	ng/L
Cd-Precon	111	3	2283	2280.212429	<b>115.4250</b>	ng/L
Cd-Precon	114	31	5826	5794.811173	<b>113.7592</b>	ng/L
Pb-Precon	208	254	32754	32500.382476	<b>120.3748</b>	ng/L
Tb-Precon	159	14	32	17.603541		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB6**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 18:28:54

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB6.140

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	493	444.926802	<b>9.0988</b>	ng/L
Fe-Precon	54	100	1069	969.093817	<b>158.2591</b>	ng/L
Fe-Precon	56	2026	20838	18811.504795	<b>161.7939</b>	ng/L
Fe-Precon	57	127	612	485.005223	<b>161.6065</b>	ng/L
Co-Precon	59	81	174	92.726203	<b>0.6339</b>	ng/L
Ni-Precon	60	113	187	73.331752	<b>2.6146</b>	ng/L
Cu-Precon	63	288	2144	1855.921863	<b>29.6074</b>	ng/L
Cu-Precon	65	132	1024	892.309152	<b>29.8877</b>	ng/L
Zn-Precon	66	513	833	320.428168	<b>16.0083</b>	ng/L
Zn-Precon	68	395	578	183.238005	<b>14.3257</b>	ng/L
Cd-Precon	111	3	4	1.336756	<b>0.2760</b>	ng/L
Cd-Precon	114	31	41	10.486135	<b>-0.2363</b>	ng/L
Pb-Precon	208	254	590	336.857736	<b>0.9916</b>	ng/L
Tb-Precon	159	14	13	-0.879655		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-BLK1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 18:42:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 201

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-BLK1.141

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	517	469.253831	<b>9.6433</b>	ng/L
Fe-Precon	54	100	1293	1193.228916	<b>194.5770</b>	ng/L
Fe-Precon	56	2026	25530	23503.866614	<b>201.6024</b>	ng/L
Fe-Precon	57	127	730	603.735636	<b>199.7912</b>	ng/L
Co-Precon	59	81	133	51.661477	<b>0.3431</b>	ng/L
Ni-Precon	60	113	76	-37.538282	<b>-1.2373</b>	ng/L
Cu-Precon	63	288	1875	1586.452792	<b>25.3462</b>	ng/L
Cu-Precon	65	132	893	760.972178	<b>25.4743</b>	ng/L
Zn-Precon	66	513	1552	1039.693603	<b>55.1577</b>	ng/L
Zn-Precon	68	395	1089	694.500066	<b>56.2161</b>	ng/L
Cd-Precon	111	3	4	0.528895	<b>0.2352</b>	ng/L
Cd-Precon	114	31	15	-16.058026	<b>-0.7594</b>	ng/L
Pb-Precon	208	254	299	45.379467	<b>-0.0903</b>	ng/L
Tb-Precon	159	14	8	-6.178365		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-BLK2**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 18:55:13

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-BLK2.142

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	349	301.251015	<b>5.8830</b>	ng/L
Fe-Precon	54	100	1013	912.964383	<b>149.1641</b>	ng/L
Fe-Precon	56	2026	19768	17741.257133	<b>152.7142</b>	ng/L
Fe-Precon	57	127	585	458.566782	<b>153.1037</b>	ng/L
Co-Precon	59	81	127	45.843329	<b>0.3018</b>	ng/L
Ni-Precon	60	113	60	-53.912498	<b>-1.8062</b>	ng/L
Cu-Precon	63	288	1480	1191.153454	<b>19.0953</b>	ng/L
Cu-Precon	65	132	694	562.661590	<b>18.8102</b>	ng/L
Zn-Precon	66	513	558	45.621840	<b>1.0507</b>	ng/L
Zn-Precon	68	395	406	11.205240	<b>0.2302</b>	ng/L
Cd-Precon	111	3	3	-0.523664	<b>0.1820</b>	ng/L
Cd-Precon	114	31	10	-20.932397	<b>-0.8555</b>	ng/L
Pb-Precon	208	254	273	19.710856	<b>-0.1856</b>	ng/L
Tb-Precon	159	14	10	-4.412128		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-BLK3**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 19:08:22

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 203

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-BLK3.143

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	327	279.601511	<b>5.3984</b>	ng/L
Fe-Precon	54	100	1020	920.436195	<b>150.3748</b>	ng/L
Fe-Precon	56	2026	19765	17738.423912	<b>152.6902</b>	ng/L
Fe-Precon	57	127	577	450.607941	<b>150.5440</b>	ng/L
Co-Precon	59	81	116	34.293288	<b>0.2200</b>	ng/L
Ni-Precon	60	113	67	-46.050940	<b>-1.5331</b>	ng/L
Cu-Precon	63	288	1334	1045.514565	<b>16.7923</b>	ng/L
Cu-Precon	65	132	626	493.738600	<b>16.4941</b>	ng/L
Zn-Precon	66	513	1280	766.856706	<b>40.3073</b>	ng/L
Zn-Precon	68	395	903	508.772402	<b>40.9985</b>	ng/L
Cd-Precon	111	3	2	-1.104412	<b>0.1526</b>	ng/L
Cd-Precon	114	31	12	-18.925771	<b>-0.8159</b>	ng/L
Pb-Precon	208	254	297	43.622345	<b>-0.0969</b>	ng/L
Tb-Precon	159	14	11	-3.182687		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-BLK4**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 19:21:31

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 204

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-BLK4.144

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	349	301.306372	<b>5.8842</b>	ng/L
Fe-Precon	54	100	1034	934.369426	<b>152.6325</b>	ng/L
Fe-Precon	56	2026	20185	18158.543631	<b>156.2543</b>	ng/L
Fe-Precon	57	127	599	472.119115	<b>157.4622</b>	ng/L
Co-Precon	59	81	119	37.991974	<b>0.2462</b>	ng/L
Ni-Precon	60	113	62	-51.287377	<b>-1.7150</b>	ng/L
Cu-Precon	63	288	1138	849.770808	<b>13.6970</b>	ng/L
Cu-Precon	65	132	539	407.369882	<b>13.5918</b>	ng/L
Zn-Precon	66	513	497	-15.567020	<b>-2.2798</b>	ng/L
Zn-Precon	68	395	376	-18.203705	<b>-2.1795</b>	ng/L
Cd-Precon	111	3	2	-0.639763	<b>0.1761</b>	ng/L
Cd-Precon	114	31	12	-19.206101	<b>-0.8215</b>	ng/L
Pb-Precon	208	254	247	-6.293597	<b>-0.2821</b>	ng/L
Tb-Precon	159	14	7	-6.760183		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-BS1**

**Sample Description: 5x**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 19:34:40

Diluted To Volume (mL): 5.00

Aliquot Volume (mL): 1

Autosampler Position: 205

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-BS1.145

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	29907	29859.073245	<b>3337.2845</b>	ng/L
Fe-Precon	54	100	139975	139875.352475	<b>113330.3240</b>	ng/L
Fe-Precon	56	2026	1946750	1944723.823908	<b>82503.2323</b>	ng/L
Fe-Precon	57	127	69628	69501.155506	<b>111788.9141</b>	ng/L
Co-Precon	59	81	65231	65149.726471	<b>2306.9524</b>	ng/L
Ni-Precon	60	113	25232	25118.995016	<b>4363.8770</b>	ng/L
Cu-Precon	63	288	30110	29822.073758	<b>2359.1889</b>	ng/L
Cu-Precon	65	132	14033	13901.243641	<b>2335.2048</b>	ng/L
Zn-Precon	66	513	17613	17100.354257	<b>4646.6724</b>	ng/L
Zn-Precon	68	395	11655	11260.499974	<b>4609.7221</b>	ng/L
Cd-Precon	111	3	885	882.406670	<b>223.9773</b>	ng/L
Cd-Precon	114	31	2743	2711.929111	<b>265.0141</b>	ng/L
Pb-Precon	208	254	32600	32346.772653	<b>599.0229</b>	ng/L
Tb-Precon	159	14	47	33.004499		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-01RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 19:47:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 206

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-01RE1.146

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	119409	119361.151278	<b>2670.7249</b>	ng/L
Fe-Precon	54	100	20442	20341.589495	<b>3297.2996</b>	ng/L
Fe-Precon	56	2026	808403	806376.456295	<b>6843.2547</b>	ng/L
Fe-Precon	57	127	398551	398424.698022	<b>128142.3697</b>	ng/L
Co-Precon	59	81	14332	14250.705807	<b>100.9057</b>	ng/L
Ni-Precon	60	113	42950	42836.663938	<b>1488.3399</b>	ng/L
Cu-Precon	63	288	27457	27168.974270	<b>429.8842</b>	ng/L
Cu-Precon	65	132	16481	16348.795520	<b>549.2887</b>	ng/L
Zn-Precon	66	513	89399	88886.579812	<b>4836.6365</b>	ng/L
Zn-Precon	68	395	59897	59502.706582	<b>4874.6838</b>	ng/L
Cd-Precon	111	3	790	787.154465	<b>39.9825</b>	ng/L
Cd-Precon	114	31	2624	2593.383339	<b>50.6666</b>	ng/L
Pb-Precon	208	254	1260	1006.731743	<b>3.4780</b>	ng/L
Tb-Precon	159	14	4295	4280.668458		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-DUP1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 20:00:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 207

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-DUP1.147

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	127733	127685.440053	<b>2857.0422</b>	ng/L
Fe-Precon	54	100	15559	15458.749113	<b>2506.1039</b>	ng/L
Fe-Precon	56	2026	687006	684980.000547	<b>5813.3642</b>	ng/L
Fe-Precon	57	127	359708	359581.379295	<b>115650.0306</b>	ng/L
Co-Precon	59	81	14238	14156.727078	<b>100.2401</b>	ng/L
Ni-Precon	60	113	42088	41974.264904	<b>1458.3776</b>	ng/L
Cu-Precon	63	288	29175	28887.062868	<b>457.0524</b>	ng/L
Cu-Precon	65	132	16819	16687.405910	<b>560.6674</b>	ng/L
Zn-Precon	66	513	97608	97095.388504	<b>5283.4394</b>	ng/L
Zn-Precon	68	395	64663	64268.250812	<b>5265.1501</b>	ng/L
Cd-Precon	111	3	914	910.646999	<b>46.2224</b>	ng/L
Cd-Precon	114	31	2883	2851.890450	<b>55.7611</b>	ng/L
Pb-Precon	208	254	1291	1036.978778	<b>3.5902</b>	ng/L
Tb-Precon	159	14	4344	4329.753045		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MS1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 20:14:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 208

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MS1.148

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	542163	542115.288645	<b>12132.9615</b>	ng/L
Fe-Precon	54	100	122390	122290.191019	<b>19816.6367</b>	ng/L
Fe-Precon	56	2026	2131936	2129909.623455	<b>18071.7063</b>	ng/L
Fe-Precon	57	127	467457	467329.852870	<b>150302.8490</b>	ng/L
Co-Precon	59	81	476307	476225.193504	<b>3372.7718</b>	ng/L
Ni-Precon	60	113	134970	134856.235927	<b>4685.3733</b>	ng/L
Cu-Precon	63	288	218377	218089.135007	<b>3448.9159</b>	ng/L
Cu-Precon	65	132	106740	106608.142906	<b>3582.3708</b>	ng/L
Zn-Precon	66	513	373716	373203.703483	<b>20311.9296</b>	ng/L
Zn-Precon	68	395	246652	246257.035094	<b>20176.4546</b>	ng/L
Cd-Precon	111	3	48401	48398.192317	<b>2445.7154</b>	ng/L
Cd-Precon	114	31	122368	122337.339280	<b>2410.5391</b>	ng/L
Pb-Precon	208	254	453630	453376.167353	<b>1682.5635</b>	ng/L
Tb-Precon	159	14	4693	4678.695653		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MSD1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 20:27:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 209

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MSD1.149

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	576483	576435.048330	<b>12901.1188</b>	ng/L
Fe-Precon	54	100	133787	133686.926617	<b>21663.3174</b>	ng/L
Fe-Precon	56	2026	2227182	2225155.460599	<b>18879.7429</b>	ng/L
Fe-Precon	57	127	416373	416245.875102	<b>133873.8106</b>	ng/L
Co-Precon	59	81	514659	514577.376894	<b>3644.3954</b>	ng/L
Ni-Precon	60	113	137587	137473.484144	<b>4776.3043</b>	ng/L
Cu-Precon	63	288	243663	243374.796464	<b>3848.7595</b>	ng/L
Cu-Precon	65	132	116720	116587.689509	<b>3917.7242</b>	ng/L
Zn-Precon	66	513	408942	408429.147661	<b>22229.2396</b>	ng/L
Zn-Precon	68	395	271582	271187.078837	<b>22219.1050</b>	ng/L
Cd-Precon	111	3	53070	53066.594192	<b>2681.6046</b>	ng/L
Cd-Precon	114	31	134320	134289.294188	<b>2646.0841</b>	ng/L
Pb-Precon	208	254	513082	512828.687393	<b>1903.2368</b>	ng/L
Tb-Precon	159	14	4379	4364.699672		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 20:40:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV7.150

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	18586	18537.970753	<b>414.0639</b>	ng/L
Fe-Precon	54	100	6884	6784.200213	<b>1100.5153</b>	ng/L
Fe-Precon	56	2026	133839	131812.954084	<b>1120.4637</b>	ng/L
Fe-Precon	57	127	3592	3465.215066	<b>1120.0671</b>	ng/L
Co-Precon	59	81	20833	20751.824669	<b>146.9489</b>	ng/L
Ni-Precon	60	113	4268	4155.049138	<b>144.4256</b>	ng/L
Cu-Precon	63	288	14751	14462.918805	<b>228.9626</b>	ng/L
Cu-Precon	65	132	6902	6770.667297	<b>227.4245</b>	ng/L
Zn-Precon	66	513	14672	14159.469023	<b>769.2630</b>	ng/L
Zn-Precon	68	395	9802	9407.460445	<b>770.1151</b>	ng/L
Cd-Precon	111	3	2506	2502.570515	<b>126.6605</b>	ng/L
Cd-Precon	114	31	6525	6494.486303	<b>127.5481</b>	ng/L
Pb-Precon	208	254	35033	34779.034468	<b>128.8326</b>	ng/L
Tb-Precon	159	14	71	57.139808		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB7**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 20:53:36

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB7.151

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	687	638.935148	<b>13.4412</b>	ng/L
Fe-Precon	54	100	1487	1386.592853	<b>225.9089</b>	ng/L
Fe-Precon	56	2026	29238	27211.523690	<b>233.0571</b>	ng/L
Fe-Precon	57	127	854	727.092051	<b>239.4637</b>	ng/L
Co-Precon	59	81	192	110.410059	<b>0.7591</b>	ng/L
Ni-Precon	60	113	224	110.496712	<b>3.9058</b>	ng/L
Cu-Precon	63	288	3167	2879.088122	<b>45.7868</b>	ng/L
Cu-Precon	65	132	1475	1343.355769	<b>45.0447</b>	ng/L
Zn-Precon	66	513	971	457.754168	<b>23.4829</b>	ng/L
Zn-Precon	68	395	687	292.606326	<b>23.2868</b>	ng/L
Cd-Precon	111	3	3	0.305963	<b>0.2239</b>	ng/L
Cd-Precon	114	31	42	11.250108	<b>-0.2212</b>	ng/L
Pb-Precon	208	254	644	390.196417	<b>1.1895</b>	ng/L
Tb-Precon	159	14	19	5.284867		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-02RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 21:06:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 210

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-02.152

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	118700	118652.286545	<b>2654.8588</b>	ng/L
Fe-Precon	54	100	13796	13696.282365	<b>2220.5210</b>	ng/L
Fe-Precon	56	2026	543084	541057.217541	<b>4592.3672</b>	ng/L
Fe-Precon	57	127	241077	240949.948363	<b>77497.1614</b>	ng/L
Co-Precon	59	81	11614	11532.976935	<b>81.6578</b>	ng/L
Ni-Precon	60	113	33345	33231.693086	<b>1154.6346</b>	ng/L
Cu-Precon	63	288	27371	27082.195290	<b>428.5119</b>	ng/L
Cu-Precon	65	132	15034	14902.079282	<b>500.6731</b>	ng/L
Zn-Precon	66	513	32025	31512.531381	<b>1713.7848</b>	ng/L
Zn-Precon	68	395	21168	20773.670632	<b>1701.4089</b>	ng/L
Cd-Precon	111	3	918	914.529273	<b>46.4186</b>	ng/L
Cd-Precon	114	31	2870	2839.704199	<b>55.5210</b>	ng/L
Pb-Precon	208	254	1237	983.046856	<b>3.3901</b>	ng/L
Tb-Precon	159	14	3440	3425.926221		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-DUP2**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 21:19:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 211

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-DUP2.153

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	146268	146219.825732	<b>3271.8855</b>	ng/L
Fe-Precon	54	100	16687	16586.567631	<b>2688.8511</b>	ng/L
Fe-Precon	56	2026	795948	793921.331796	<b>6737.5892</b>	ng/L
Fe-Precon	57	127	404667	404539.782479	<b>130109.0325</b>	ng/L
Co-Precon	59	81	15551	15469.102401	<b>109.5348</b>	ng/L
Ni-Precon	60	113	49414	49300.951052	<b>1712.9284</b>	ng/L
Cu-Precon	63	288	32521	32232.911925	<b>509.9605</b>	ng/L
Cu-Precon	65	132	18454	18322.113830	<b>615.6002</b>	ng/L
Zn-Precon	66	513	36299	35786.398363	<b>1946.4101</b>	ng/L
Zn-Precon	68	395	23713	23318.149572	<b>1909.8915</b>	ng/L
Cd-Precon	111	3	840	836.528520	<b>42.4773</b>	ng/L
Cd-Precon	114	31	2910	2879.628281	<b>56.3078</b>	ng/L
Pb-Precon	208	254	1167	913.636291	<b>3.1324</b>	ng/L
Tb-Precon	159	14	4448	4434.318134		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MS2**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 21:33:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 212

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MS2.154

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	562187	562139.360156	<b>12581.1475</b>	ng/L
Fe-Precon	54	100	133372	133272.058424	<b>21596.0939</b>	ng/L
Fe-Precon	56	2026	2158130	2156103.583643	<b>18293.9279</b>	ng/L
Fe-Precon	57	127	332271	332144.267204	<b>106826.0239</b>	ng/L
Co-Precon	59	81	483823	483741.297186	<b>3426.0034</b>	ng/L
Ni-Precon	60	113	138652	138539.046768	<b>4813.3251</b>	ng/L
Cu-Precon	63	288	252284	251995.729045	<b>3985.0829</b>	ng/L
Cu-Precon	65	132	122088	121956.273553	<b>4098.1306</b>	ng/L
Zn-Precon	66	513	448258	447745.100655	<b>24369.1947</b>	ng/L
Zn-Precon	68	395	297693	297298.636732	<b>24358.5632</b>	ng/L
Cd-Precon	111	3	51985	51982.398010	<b>2626.8213</b>	ng/L
Cd-Precon	114	31	131257	131226.654129	<b>2585.7267</b>	ng/L
Pb-Precon	208	254	510400	510146.778796	<b>1893.2822</b>	ng/L
Tb-Precon	159	14	3730	3715.868208		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MSD2**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 21:46:15

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 213

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MSD2.155

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	624694	624646.646177	<b>13980.2083</b>	ng/L
Fe-Precon	54	100	134440	134340.404232	<b>21769.2043</b>	ng/L
Fe-Precon	56	2026	2319833	2317806.662463	<b>19665.7675</b>	ng/L
Fe-Precon	57	127	460073	459945.812889	<b>147928.0794</b>	ng/L
Co-Precon	59	81	521756	521674.189518	<b>3694.6576</b>	ng/L
Ni-Precon	60	113	148015	147901.556738	<b>5138.6065</b>	ng/L
Cu-Precon	63	288	249609	249320.877313	<b>3942.7853</b>	ng/L
Cu-Precon	65	132	120613	120481.190613	<b>4048.5618</b>	ng/L
Zn-Precon	66	513	344643	344130.177421	<b>18729.4665</b>	ng/L
Zn-Precon	68	395	227978	227583.142162	<b>18646.4037</b>	ng/L
Cd-Precon	111	3	52973	52969.493055	<b>2676.6982</b>	ng/L
Cd-Precon	114	31	133756	133724.842129	<b>2634.9601</b>	ng/L
Pb-Precon	208	254	487828	487574.685456	<b>1809.5000</b>	ng/L
Tb-Precon	159	14	4387	4373.174793		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-03RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 21:59:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 214

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-03RE1.156

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	115859	115810.877180	<b>2591.2614</b>	ng/L
Fe-Precon	54	100	24681	24581.460442	<b>3984.3110</b>	ng/L
Fe-Precon	56	2026	765286	763259.394818	<b>6477.4627</b>	ng/L
Fe-Precon	57	127	245370	245242.965794	<b>78877.8320</b>	ng/L
Co-Precon	59	81	13112	13030.453236	<b>92.2634</b>	ng/L
Ni-Precon	60	113	32617	32503.865833	<b>1129.3478</b>	ng/L
Cu-Precon	63	288	34747	34458.496951	<b>545.1538</b>	ng/L
Cu-Precon	65	132	18181	18049.065511	<b>606.4247</b>	ng/L
Zn-Precon	66	513	118113	117599.841113	<b>6399.4904</b>	ng/L
Zn-Precon	68	395	78729	78334.686313	<b>6417.6876</b>	ng/L
Cd-Precon	111	3	647	644.319826	<b>32.7652</b>	ng/L
Cd-Precon	114	31	2183	2151.777447	<b>41.9635</b>	ng/L
Pb-Precon	208	254	2156	1902.791919	<b>6.8039</b>	ng/L
Tb-Precon	159	14	2781	2766.855461		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-05RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 22:12:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 215

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-05RE1.157

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	152700	152652.470277	<b>3415.8633</b>	ng/L
Fe-Precon	54	100	12509	12409.019571	<b>2011.9382</b>	ng/L
Fe-Precon	56	2026	686909	684882.338988	<b>5812.5356</b>	ng/L
Fe-Precon	57	127	357028	356900.919055	<b>114787.9720</b>	ng/L
Co-Precon	59	81	15129	15047.549749	<b>106.5492</b>	ng/L
Ni-Precon	60	113	48241	48127.902775	<b>1672.1732</b>	ng/L
Cu-Precon	63	288	36266	35977.557242	<b>569.1748</b>	ng/L
Cu-Precon	65	132	20086	19954.171855	<b>670.4440</b>	ng/L
Zn-Precon	66	513	42108	41595.310370	<b>2262.5874</b>	ng/L
Zn-Precon	68	395	27647	27252.185002	<b>2232.2278</b>	ng/L
Cd-Precon	111	3	944	940.646853	<b>47.7383</b>	ng/L
Cd-Precon	114	31	3038	3006.963061	<b>58.8172</b>	ng/L
Pb-Precon	208	254	1085	831.127667	<b>2.8262</b>	ng/L
Tb-Precon	159	14	4179	4165.109087		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-19RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 22:25:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 216

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-19RE1.158

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	171253	171205.005999	<b>3831.1129</b>	ng/L
Fe-Precon	54	100	18717	18616.739870	<b>3017.8119</b>	ng/L
Fe-Precon	56	2026	907928	905901.646896	<b>7687.5960</b>	ng/L
Fe-Precon	57	127	440678	440551.262847	<b>141690.6284</b>	ng/L
Co-Precon	59	81	17201	17119.164158	<b>121.2211</b>	ng/L
Ni-Precon	60	113	55373	55259.659980	<b>1919.9517</b>	ng/L
Cu-Precon	63	288	38786	38497.446295	<b>609.0219</b>	ng/L
Cu-Precon	65	132	21183	21051.427004	<b>707.3163</b>	ng/L
Zn-Precon	66	513	56226	55713.169053	<b>3031.0180</b>	ng/L
Zn-Precon	68	395	37330	36935.433251	<b>3025.6276</b>	ng/L
Cd-Precon	111	3	745	742.335129	<b>37.7178</b>	ng/L
Cd-Precon	114	31	2740	2708.973550	<b>52.9446</b>	ng/L
Pb-Precon	208	254	2196	1942.338149	<b>6.9507</b>	ng/L
Tb-Precon	159	14	4619	4605.307489		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-21RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 22:38:49

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 217

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-21RE1.159

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	156922	156874.169488	<b>3510.3549</b>	ng/L
Fe-Precon	54	100	23624	23524.125405	<b>3812.9847</b>	ng/L
Fe-Precon	56	2026	894444	892417.540842	<b>7573.2010</b>	ng/L
Fe-Precon	57	127	353679	353552.252769	<b>113711.0127</b>	ng/L
Co-Precon	59	81	14681	14599.125789	<b>103.3733</b>	ng/L
Ni-Precon	60	113	46303	46189.510837	<b>1604.8277</b>	ng/L
Cu-Precon	63	288	37461	37172.702042	<b>588.0737</b>	ng/L
Cu-Precon	65	132	20425	20293.519050	<b>681.8475</b>	ng/L
Zn-Precon	66	513	67442	66928.994893	<b>3641.4920</b>	ng/L
Zn-Precon	68	395	44594	44199.344498	<b>3620.7983</b>	ng/L
Cd-Precon	111	3	852	849.011046	<b>43.1080</b>	ng/L
Cd-Precon	114	31	2969	2938.290338	<b>57.4639</b>	ng/L
Pb-Precon	208	254	6402	6148.774765	<b>22.5640</b>	ng/L
Tb-Precon	159	14	4074	4060.274364		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-22RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 22:51:58

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 218

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-22RE1.160

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	169605	169556.835778	<b>3794.2229</b>	ng/L
Fe-Precon	54	100	16781	16681.290554	<b>2704.1996</b>	ng/L
Fe-Precon	56	2026	938171	936145.093673	<b>7944.1722</b>	ng/L
Fe-Precon	57	127	484613	484486.372261	<b>155820.5304</b>	ng/L
Co-Precon	59	81	29547	29465.681502	<b>208.6635</b>	ng/L
Ni-Precon	60	113	63714	63600.713081	<b>2209.7447</b>	ng/L
Cu-Precon	63	288	38170	37881.547255	<b>599.2827</b>	ng/L
Cu-Precon	65	132	21180	21048.490467	<b>707.2176</b>	ng/L
Zn-Precon	66	513	166967	166454.412023	<b>9058.6296</b>	ng/L
Zn-Precon	68	395	111129	110733.868983	<b>9072.3241</b>	ng/L
Cd-Precon	111	3	733	729.647729	<b>37.0767</b>	ng/L
Cd-Precon	114	31	2798	2766.734447	<b>54.0829</b>	ng/L
Pb-Precon	208	254	1604	1350.566492	<b>4.7542</b>	ng/L
Tb-Precon	159	14	4855	4841.180178		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-23RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 23:05:07

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 219

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-23RE1.161

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	177780	177732.760489	<b>3977.2195</b>	ng/L
Fe-Precon	54	100	38520	38419.775218	<b>6226.6153</b>	ng/L
Fe-Precon	56	2026	1104947	1102921.168135	<b>9359.0495</b>	ng/L
Fe-Precon	57	127	402479	402352.025500	<b>129405.4314</b>	ng/L
Co-Precon	59	81	22176	22094.426539	<b>156.4577</b>	ng/L
Ni-Precon	60	113	52090	51976.809894	<b>1805.8957</b>	ng/L
Cu-Precon	63	288	33495	33206.489975	<b>525.3557</b>	ng/L
Cu-Precon	65	132	18872	18740.366338	<b>629.6552</b>	ng/L
Zn-Precon	66	513	25341	24828.469064	<b>1349.9734</b>	ng/L
Zn-Precon	68	395	16419	16024.048888	<b>1312.2472</b>	ng/L
Cd-Precon	111	3	589	585.808454	<b>29.8087</b>	ng/L
Cd-Precon	114	31	2376	2345.118974	<b>45.7738</b>	ng/L
Pb-Precon	208	254	1936	1682.465677	<b>5.9861</b>	ng/L
Tb-Precon	159	14	4414	4400.190244		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 23:18:19

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV8.162

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	10376	10327.998472	<b>230.3053</b>	ng/L
Fe-Precon	54	100	3790	3689.873738	<b>599.1232</b>	ng/L
Fe-Precon	56	2026	75240	73213.264580	<b>623.3218</b>	ng/L
Fe-Precon	57	127	2107	1980.508859	<b>642.5731</b>	ng/L
Co-Precon	59	81	11230	11148.882513	<b>78.9375</b>	ng/L
Ni-Precon	60	113	2379	2265.644093	<b>78.7821</b>	ng/L
Cu-Precon	63	288	7160	6871.761846	<b>108.9231</b>	ng/L
Cu-Precon	65	132	3367	3235.003377	<b>108.6118</b>	ng/L
Zn-Precon	66	513	8347	7833.920549	<b>424.9654</b>	ng/L
Zn-Precon	68	395	5538	5143.574476	<b>420.7523</b>	ng/L
Cd-Precon	111	3	1380	1376.485914	<b>69.7607</b>	ng/L
Cd-Precon	114	31	3478	3447.362000	<b>67.4965</b>	ng/L
Pb-Precon	208	254	18605	18351.849319	<b>67.8588</b>	ng/L
Tb-Precon	159	14	86	71.630045		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB8**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Saturday, September 08, 2012 23:31:28

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB8.163

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	480	432.648475	<b>8.8240</b>	ng/L
Fe-Precon	54	100	878	777.811721	<b>127.2645</b>	ng/L
Fe-Precon	56	2026	17164	15137.805515	<b>130.6273</b>	ng/L
Fe-Precon	57	127	565	438.652243	<b>146.6990</b>	ng/L
Co-Precon	59	81	137	55.994102	<b>0.3737</b>	ng/L
Ni-Precon	60	113	200	86.654933	<b>3.0775</b>	ng/L
Cu-Precon	63	288	1758	1469.398873	<b>23.4953</b>	ng/L
Cu-Precon	65	132	823	690.696994	<b>23.1127</b>	ng/L
Zn-Precon	66	513	953	440.602853	<b>22.5494</b>	ng/L
Zn-Precon	68	395	707	312.435835	<b>24.9116</b>	ng/L
Cd-Precon	111	3	5	2.117036	<b>0.3154</b>	ng/L
Cd-Precon	114	31	43	12.170487	<b>-0.2031</b>	ng/L
Pb-Precon	208	254	624	370.740834	<b>1.1173</b>	ng/L
Tb-Precon	159	14	22	8.353281		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-24RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 23:44:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 220

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-24RE1.164

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	163799	163751.372730	<b>3664.2830</b>	ng/L
Fe-Precon	54	100	17111	17011.169660	<b>2757.6519</b>	ng/L
Fe-Precon	56	2026	873284	871258.109567	<b>7393.6908</b>	ng/L
Fe-Precon	57	127	426773	426646.614474	<b>137218.7762</b>	ng/L
Co-Precon	59	81	15918	15836.161749	<b>112.1344</b>	ng/L
Ni-Precon	60	113	54281	54167.253508	<b>1881.9982</b>	ng/L
Cu-Precon	63	288	33049	32761.130230	<b>518.3132</b>	ng/L
Cu-Precon	65	132	18892	18760.274761	<b>630.3242</b>	ng/L
Zn-Precon	66	513	74548	74035.462289	<b>4028.2948</b>	ng/L
Zn-Precon	68	395	49459	49063.900716	<b>4019.3772</b>	ng/L
Cd-Precon	111	3	758	754.797691	<b>38.3475</b>	ng/L
Cd-Precon	114	31	2628	2597.638961	<b>50.7504</b>	ng/L
Pb-Precon	208	254	1522	1268.328363	<b>4.4490</b>	ng/L
Tb-Precon	159	14	4469	4454.601300		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-25RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Saturday, September 08, 2012 23:57:48

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 221

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-25RE1.165

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	172163	172115.110354	<b>3851.4832</b>	ng/L
Fe-Precon	54	100	16772	16672.226376	<b>2702.7309</b>	ng/L
Fe-Precon	56	2026	986798	984771.345722	<b>8356.7025</b>	ng/L
Fe-Precon	57	127	493663	493535.823089	<b>158730.9101</b>	ng/L
Co-Precon	59	81	18563	18481.277694	<b>130.8681</b>	ng/L
Ni-Precon	60	113	63559	63446.001332	<b>2204.3695</b>	ng/L
Cu-Precon	63	288	39338	39050.072733	<b>617.7607</b>	ng/L
Cu-Precon	65	132	21625	21492.954356	<b>722.1534</b>	ng/L
Zn-Precon	66	513	42390	41877.730059	<b>2277.9594</b>	ng/L
Zn-Precon	68	395	27519	27124.418749	<b>2221.7593</b>	ng/L
Cd-Precon	111	3	717	713.946810	<b>36.2834</b>	ng/L
Cd-Precon	114	31	2545	2514.683271	<b>49.1156</b>	ng/L
Pb-Precon	208	254	1405	1151.680779	<b>4.0160</b>	ng/L
Tb-Precon	159	14	4820	4806.212130		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-28RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 00:10:57

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 222

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-28RE1.166

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	159128	159080.294468	<b>3559.7332</b>	ng/L
Fe-Precon	54	100	12123	12022.492898	<b>1949.3069</b>	ng/L
Fe-Precon	56	2026	735444	733417.731273	<b>6224.2951</b>	ng/L
Fe-Precon	57	127	389142	389015.639724	<b>125116.3372</b>	ng/L
Co-Precon	59	81	15321	15239.090900	<b>107.9058</b>	ng/L
Ni-Precon	60	113	51875	51761.675060	<b>1798.4213</b>	ng/L
Cu-Precon	63	288	32358	32070.092404	<b>507.3858</b>	ng/L
Cu-Precon	65	132	18150	18018.270651	<b>605.3899</b>	ng/L
Zn-Precon	66	513	24738	24224.763507	<b>1317.1139</b>	ng/L
Zn-Precon	68	395	15978	15583.559181	<b>1276.1556</b>	ng/L
Cd-Precon	111	3	881	878.033154	<b>44.5745</b>	ng/L
Cd-Precon	114	31	2900	2869.262301	<b>56.1035</b>	ng/L
Pb-Precon	208	254	161630	161376.770113	<b>598.7326</b>	ng/L
Tb-Precon	159	14	4302	4288.418720		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-29RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 00:24:06

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 223

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-29RE1.167

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1130	1082.446532	<b>23.3680</b>	ng/L
Fe-Precon	54	100	1350	1249.643278	<b>203.7182</b>	ng/L
Fe-Precon	56	2026	26528	24501.220397	<b>210.0637</b>	ng/L
Fe-Precon	57	127	886	759.214879	<b>249.7946</b>	ng/L
Co-Precon	59	81	179	97.179733	<b>0.6654</b>	ng/L
Ni-Precon	60	113	140	26.947740	<b>1.0031</b>	ng/L
Cu-Precon	63	288	1962	1674.037966	<b>26.7312</b>	ng/L
Cu-Precon	65	132	918	785.981970	<b>26.3147</b>	ng/L
Zn-Precon	66	513	46359	45845.933492	<b>2493.9475</b>	ng/L
Zn-Precon	68	395	30887	30491.995874	<b>2497.6827</b>	ng/L
Cd-Precon	111	3	-9	-11.994226	<b>-0.3976</b>	ng/L
Cd-Precon	114	31	-2	-32.371594	<b>-1.0809</b>	ng/L
Pb-Precon	208	254	1001	747.272095	<b>2.5149</b>	ng/L
Tb-Precon	159	14	83	68.710534		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-30RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 00:37:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 224

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-30RE1.168

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	157652	157603.979963	<b>3526.6898</b>	ng/L
Fe-Precon	54	100	12811	12710.790015	<b>2060.8358</b>	ng/L
Fe-Precon	56	2026	780690	778664.168886	<b>6608.1521</b>	ng/L
Fe-Precon	57	127	396525	396397.877486	<b>127490.5271</b>	ng/L
Co-Precon	59	81	15856	15774.858638	<b>111.7003</b>	ng/L
Ni-Precon	60	113	53582	53468.358339	<b>1857.7165</b>	ng/L
Cu-Precon	63	288	32192	31903.593047	<b>504.7530</b>	ng/L
Cu-Precon	65	132	18368	18236.150777	<b>612.7115</b>	ng/L
Zn-Precon	66	513	74354	73840.845701	<b>4017.7019</b>	ng/L
Zn-Precon	68	395	49423	49028.098030	<b>4016.4437</b>	ng/L
Cd-Precon	111	3	835	831.411571	<b>42.2187</b>	ng/L
Cd-Precon	114	31	2952	2921.481863	<b>57.1326</b>	ng/L
Pb-Precon	208	254	1062	808.771883	<b>2.7432</b>	ng/L
Tb-Precon	159	14	4465	4450.632058		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-31RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 00:50:23

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 225

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-31RE1.169

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	163803	163755.535456	<b>3664.3761</b>	ng/L
Fe-Precon	54	100	14407	14307.299843	<b>2319.5278</b>	ng/L
Fe-Precon	56	2026	847733	845706.615613	<b>7176.9197</b>	ng/L
Fe-Precon	57	127	420294	420166.952180	<b>135134.8621</b>	ng/L
Co-Precon	59	81	16137	16055.427227	<b>113.6874</b>	ng/L
Ni-Precon	60	113	89077	88963.223967	<b>3090.9137</b>	ng/L
Cu-Precon	63	288	36019	35730.702334	<b>565.2713</b>	ng/L
Cu-Precon	65	132	20110	19978.306252	<b>671.2550</b>	ng/L
Zn-Precon	66	513	23641	23127.909436	<b>1257.4124</b>	ng/L
Zn-Precon	68	395	15461	15065.853251	<b>1233.7372</b>	ng/L
Cd-Precon	111	3	835	832.372557	<b>42.2673</b>	ng/L
Cd-Precon	114	31	2941	2910.025848	<b>56.9068</b>	ng/L
Pb-Precon	208	254	1660	1406.341620	<b>4.9612</b>	ng/L
Tb-Precon	159	14	4634	4619.701510		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-32RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 01:03:32

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 226

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-32RE1.170

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	173050	173001.958180	<b>3871.3329</b>	ng/L
Fe-Precon	54	100	12523	12423.202208	<b>2014.2363</b>	ng/L
Fe-Precon	56	2026	929481	927454.587224	<b>7870.4446</b>	ng/L
Fe-Precon	57	127	478481	478354.211016	<b>153848.3756</b>	ng/L
Co-Precon	59	81	17515	17433.089499	<b>123.4444</b>	ng/L
Ni-Precon	60	113	64912	64798.326679	<b>2251.3533</b>	ng/L
Cu-Precon	63	288	36559	36271.003449	<b>573.8151</b>	ng/L
Cu-Precon	65	132	20102	19969.803739	<b>670.9693</b>	ng/L
Zn-Precon	66	513	54636	54122.955795	<b>2944.4632</b>	ng/L
Zn-Precon	68	395	36262	35867.258083	<b>2938.1064</b>	ng/L
Cd-Precon	111	3	786	782.535069	<b>39.7491</b>	ng/L
Cd-Precon	114	31	2778	2747.340749	<b>53.7007</b>	ng/L
Pb-Precon	208	254	1761	1507.334920	<b>5.3361</b>	ng/L
Tb-Precon	159	14	4944	4929.815760		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-33RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 01:16:41

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 227

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-33RE1.171

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	970	922.211822	<b>19.7816</b>	ng/L
Fe-Precon	54	100	1712	1612.403121	<b>262.4983</b>	ng/L
Fe-Precon	56	2026	33591	31564.981601	<b>269.9905</b>	ng/L
Fe-Precon	57	127	1085	958.139452	<b>313.7705</b>	ng/L
Co-Precon	59	81	192	110.807917	<b>0.7619</b>	ng/L
Ni-Precon	60	113	211	97.311641	<b>3.4478</b>	ng/L
Cu-Precon	63	288	2320	2031.881576	<b>32.3898</b>	ng/L
Cu-Precon	65	132	1040	908.344028	<b>30.4265</b>	ng/L
Zn-Precon	66	513	99111	98597.798616	<b>5365.2152</b>	ng/L
Zn-Precon	68	395	66680	66285.817198	<b>5430.4600</b>	ng/L
Cd-Precon	111	3	-2	-5.067946	<b>-0.0476</b>	ng/L
Cd-Precon	114	31	-2	-32.824954	<b>-1.0899</b>	ng/L
Pb-Precon	208	254	1319	1065.212614	<b>3.6950</b>	ng/L
Tb-Precon	159	14	92	78.563493		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1232005-34RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 01:29:50

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 228

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1232005-34RE1.172

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	576	528.730700	<b>10.9745</b>	ng/L
Fe-Precon	54	100	1500	1400.183191	<b>228.1110</b>	ng/L
Fe-Precon	56	2026	29055	27028.779466	<b>231.5067</b>	ng/L
Fe-Precon	57	127	939	812.514941	<b>266.9364</b>	ng/L
Co-Precon	59	81	193	111.386340	<b>0.7660</b>	ng/L
Ni-Precon	60	113	131	17.970910	<b>0.6912</b>	ng/L
Cu-Precon	63	288	1681	1392.158226	<b>22.2738</b>	ng/L
Cu-Precon	65	132	784	651.775297	<b>21.8048</b>	ng/L
Zn-Precon	66	513	20775	20262.199737	<b>1101.4328</b>	ng/L
Zn-Precon	68	395	13976	13581.111158	<b>1112.0844</b>	ng/L
Cd-Precon	111	3	9	5.727537	<b>0.4978</b>	ng/L
Cd-Precon	114	31	32	0.961704	<b>-0.4240</b>	ng/L
Pb-Precon	208	254	898	644.272958	<b>2.1326</b>	ng/L
Tb-Precon	159	14	24	9.735099		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCV9**
**Sample Description:**
**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 01:43:01

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCV9.173

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	8927	8878.834407	<b>197.8696</b>	ng/L
Fe-Precon	54	100	2818	2717.878001	<b>441.6250</b>	ng/L
Fe-Precon	56	2026	55515	53488.827253	<b>455.9857</b>	ng/L
Fe-Precon	57	127	1581	1453.784682	<b>473.1741</b>	ng/L
Co-Precon	59	81	10277	10195.770004	<b>72.1872</b>	ng/L
Ni-Precon	60	113	2116	2002.452896	<b>69.6380</b>	ng/L
Cu-Precon	63	288	5464	5175.992383	<b>82.1078</b>	ng/L
Cu-Precon	65	132	2558	2426.478882	<b>81.4421</b>	ng/L
Zn-Precon	66	513	7607	7094.565530	<b>384.7225</b>	ng/L
Zn-Precon	68	395	5093	4698.360368	<b>384.2736</b>	ng/L
Cd-Precon	111	3	1330	1327.263145	<b>67.2736</b>	ng/L
Cd-Precon	114	31	3367	3336.515254	<b>65.3119</b>	ng/L
Pb-Precon	208	254	18095	17841.829418	<b>65.9658</b>	ng/L
Tb-Precon	159	14	17	2.600875		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCB9**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 01:56:10

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCB9.174

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	347	299.461272	<b>5.8429</b>	ng/L
Fe-Precon	54	100	544	444.380837	<b>73.2367</b>	ng/L
Fe-Precon	56	2026	10294	8267.255799	<b>72.3397</b>	ng/L
Fe-Precon	57	127	398	270.757129	<b>92.7025</b>	ng/L
Co-Precon	59	81	133	51.221770	<b>0.3399</b>	ng/L
Ni-Precon	60	113	173	59.360730	<b>2.1292</b>	ng/L
Cu-Precon	63	288	1087	798.370651	<b>12.8842</b>	ng/L
Cu-Precon	65	132	489	357.654614	<b>11.9211</b>	ng/L
Zn-Precon	66	513	956	442.989416	<b>22.6793</b>	ng/L
Zn-Precon	68	395	692	297.739245	<b>23.7074</b>	ng/L
Cd-Precon	111	3	7	3.940581	<b>0.4075</b>	ng/L
Cd-Precon	114	31	42	11.123945	<b>-0.2237</b>	ng/L
Pb-Precon	208	254	616	361.961691	<b>1.0847</b>	ng/L
Tb-Precon	159	14	14	-0.100429		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1234002-01RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 02:09:21

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 229

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1234002-01RE1.175

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	139761	139713.124991	<b>3126.2502</b>	ng/L
Fe-Precon	54	100	1077533	1077432.901275	<b>174584.0803</b>	ng/L
Fe-Precon	56	2026	18007609	18005582.268631	<b>152756.0700</b>	ng/L
Fe-Precon	57	127	664325	664198.126057	<b>213617.3469</b>	ng/L
Co-Precon	59	81	16499	16417.712878	<b>116.2532</b>	ng/L
Ni-Precon	60	113	10929	10815.170863	<b>375.8180</b>	ng/L
Cu-Precon	63	288	21616	21327.538671	<b>337.5132</b>	ng/L
Cu-Precon	65	132	10596	10464.394996	<b>351.5488</b>	ng/L
Zn-Precon	66	513	53592	53079.372904	<b>2887.6613</b>	ng/L
Zn-Precon	68	395	35972	35577.274199	<b>2914.3465</b>	ng/L
Cd-Precon	111	3	94	91.201997	<b>4.8168</b>	ng/L
Cd-Precon	114	31	267	236.609855	<b>4.2201</b>	ng/L
Pb-Precon	208	254	4751	4497.883589	<b>16.4363</b>	ng/L
Tb-Precon	159	14	747	733.366695		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1234002-02RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 02:22:30

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 230

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1234002-02RE1.176

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	77908	77860.383706	<b>1741.8397</b>	ng/L
Fe-Precon	54	100	123835	123735.433416	<b>20050.8179</b>	ng/L
Fe-Precon	56	2026	2157949	2155923.052154	<b>18292.3963</b>	ng/L
Fe-Precon	57	127	350468	350341.310125	<b>112678.3464</b>	ng/L
Co-Precon	59	81	28878	28796.513006	<b>203.9242</b>	ng/L
Ni-Precon	60	113	44433	44320.046196	<b>1539.8770</b>	ng/L
Cu-Precon	63	288	37457	37168.273061	<b>588.0037</b>	ng/L
Cu-Precon	65	132	20262	20130.313989	<b>676.3631</b>	ng/L
Zn-Precon	66	513	57978	57464.768375	<b>3126.3570</b>	ng/L
Zn-Precon	68	395	38504	38109.176210	<b>3121.7986</b>	ng/L
Cd-Precon	111	3	567	564.078774	<b>28.7107</b>	ng/L
Cd-Precon	114	31	2080	2048.713593	<b>39.9324</b>	ng/L
Pb-Precon	208	254	847	593.342090	<b>1.9436</b>	ng/L
Tb-Precon	159	14	4147	4133.474849		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-DUP3**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 02:35:39

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 231

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-DUP3.177

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	85054	85006.058252	<b>1901.7767</b>	ng/L
Fe-Precon	54	100	120224	120124.005567	<b>19465.6368</b>	ng/L
Fe-Precon	56	2026	2160793	2158766.972380	<b>18316.5232</b>	ng/L
Fe-Precon	57	127	391526	391399.711846	<b>125883.0749</b>	ng/L
Co-Precon	59	81	31565	31483.530955	<b>222.9546</b>	ng/L
Ni-Precon	60	113	50668	50554.751199	<b>1756.4892</b>	ng/L
Cu-Precon	63	288	41104	40815.415824	<b>645.6761</b>	ng/L
Cu-Precon	65	132	21961	21829.543807	<b>733.4642</b>	ng/L
Zn-Precon	66	513	61299	60785.854441	<b>3307.1227</b>	ng/L
Zn-Precon	68	395	41074	40679.042964	<b>3332.3614</b>	ng/L
Cd-Precon	111	3	471	467.864910	<b>23.8491</b>	ng/L
Cd-Precon	114	31	1932	1901.307434	<b>37.0274</b>	ng/L
Pb-Precon	208	254	925	671.146073	<b>2.2324</b>	ng/L
Tb-Precon	159	14	4583	4569.367700		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MS3**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 02:48:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 232

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MS3.178

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	586352	586304.044658	<b>13122.0103</b>	ng/L
Fe-Precon	54	100	245163	245063.216975	<b>39710.2789</b>	ng/L
Fe-Precon	56	2026	3856664	3854637.245795	<b>32703.7693</b>	ng/L
Fe-Precon	57	127	495204	495077.423494	<b>159226.7018</b>	ng/L
Co-Precon	59	81	545436	545354.097781	<b>3862.3670</b>	ng/L
Ni-Precon	60	113	152593	152479.339405	<b>5297.6523</b>	ng/L
Cu-Precon	63	288	258524	258235.409608	<b>4083.7513</b>	ng/L
Cu-Precon	65	132	124947	124815.624131	<b>4194.2164</b>	ng/L
Zn-Precon	66	513	368067	367554.428139	<b>20004.4413</b>	ng/L
Zn-Precon	68	395	243587	243192.208473	<b>19925.3371</b>	ng/L
Cd-Precon	111	3	52590	52586.797259	<b>2657.3610</b>	ng/L
Cd-Precon	114	31	131887	131856.388842	<b>2598.1373</b>	ng/L
Pb-Precon	208	254	497747	497493.546029	<b>1846.3164</b>	ng/L
Tb-Precon	159	14	4890	4876.103705		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: B121662-MSD3**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 03:01:56

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 233

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\B121662-MSD3.179

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	587013	586965.319376	<b>13136.8112</b>	ng/L
Fe-Precon	54	100	246069	245969.373671	<b>39857.1089</b>	ng/L
Fe-Precon	56	2026	3826232	3824206.075866	<b>32445.6005</b>	ng/L
Fe-Precon	57	127	461140	461013.040244	<b>148271.3087</b>	ng/L
Co-Precon	59	81	558072	557990.194582	<b>3951.8603</b>	ng/L
Ni-Precon	60	113	149714	149600.148641	<b>5197.6206</b>	ng/L
Cu-Precon	63	288	268027	267738.680160	<b>4234.0271</b>	ng/L
Cu-Precon	65	132	129662	129530.439302	<b>4352.6534</b>	ng/L
Zn-Precon	66	513	377830	377317.314358	<b>20535.8321</b>	ng/L
Zn-Precon	68	395	249668	249273.293768	<b>20423.5926</b>	ng/L
Cd-Precon	111	3	54401	54398.264252	<b>2748.8924</b>	ng/L
Cd-Precon	114	31	135599	135568.044082	<b>2671.2853</b>	ng/L
Pb-Precon	208	254	556348	556094.519913	<b>2063.8290</b>	ng/L
Tb-Precon	159	14	4729	4715.533919		mg/L



# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1234002-03RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 03:15:05

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 234

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1234002-03RE1.180

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	1719	1671.516862	<b>36.5528</b>	ng/L
Fe-Precon	54	100	10441	10341.135083	<b>1676.8666</b>	ng/L
Fe-Precon	56	2026	204519	202492.336699	<b>1720.0860</b>	ng/L
Fe-Precon	57	127	5481	5353.886510	<b>1727.4798</b>	ng/L
Co-Precon	59	81	443	361.543905	<b>2.5377</b>	ng/L
Ni-Precon	60	113	402	288.909346	<b>10.1044</b>	ng/L
Cu-Precon	63	288	7857	7569.051833	<b>119.9494</b>	ng/L
Cu-Precon	65	132	3626	3493.694690	<b>117.3049</b>	ng/L
Zn-Precon	66	513	57609	57096.329315	<b>3106.3030</b>	ng/L
Zn-Precon	68	395	39123	38728.543112	<b>3172.5466</b>	ng/L
Cd-Precon	111	3	3	0.339878	<b>0.2256</b>	ng/L
Cd-Precon	114	31	42	10.869881	<b>-0.2287</b>	ng/L
Pb-Precon	208	254	4647	4393.668644	<b>16.0495</b>	ng/L
Tb-Precon	159	14	85	70.833513		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: 1234002-04RE1**

**Sample Description:**

**Batch ID: B121662**

Sample Date/Time: Sunday, September 09, 2012 03:28:14

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 235

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\1234002-04RE1.181

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	78739	78691.460153	<b>1760.4411</b>	ng/L
Fe-Precon	54	100	127411	127311.323117	<b>20630.2405</b>	ng/L
Fe-Precon	56	2026	2217476	2215449.504475	<b>18797.4006</b>	ng/L
Fe-Precon	57	127	371007	370880.503032	<b>119283.9242</b>	ng/L
Co-Precon	59	81	31699	31617.559977	<b>223.9039</b>	ng/L
Ni-Precon	60	113	48280	48166.356227	<b>1673.5092</b>	ng/L
Cu-Precon	63	288	40759	40470.248408	<b>640.2180</b>	ng/L
Cu-Precon	65	132	21422	21290.605530	<b>715.3536</b>	ng/L
Zn-Precon	66	513	17859	17346.538705	<b>942.7342</b>	ng/L
Zn-Precon	68	395	11829	11434.781200	<b>936.2242</b>	ng/L
Cd-Precon	111	3	527	524.121845	<b>26.6917</b>	ng/L
Cd-Precon	114	31	1995	1963.808750	<b>38.2591</b>	ng/L
Pb-Precon	208	254	1619	1364.997550	<b>4.8078</b>	ng/L
Tb-Precon	159	14	4393	4378.583334		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCVA**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 03:41:26

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 4

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCVA.182

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	9899	9850.900456	<b>219.6267</b>	ng/L
Fe-Precon	54	100	4719	4619.462488	<b>749.7500</b>	ng/L
Fe-Precon	56	2026	91891	89864.783161	<b>764.5882</b>	ng/L
Fe-Precon	57	127	2522	2394.915505	<b>775.8498</b>	ng/L
Co-Precon	59	81	11217	11135.367325	<b>78.8418</b>	ng/L
Ni-Precon	60	113	2308	2194.371214	<b>76.3058</b>	ng/L
Cu-Precon	63	288	6491	6202.427024	<b>98.3389</b>	ng/L
Cu-Precon	65	132	3016	2884.057240	<b>96.8186</b>	ng/L
Zn-Precon	66	513	8292	7778.849561	<b>421.9679</b>	ng/L
Zn-Precon	68	395	5508	5113.680094	<b>418.3029</b>	ng/L
Cd-Precon	111	3	1386	1382.650982	<b>70.0723</b>	ng/L
Cd-Precon	114	31	3560	3529.214628	<b>69.1096</b>	ng/L
Pb-Precon	208	254	19161	18907.532284	<b>69.9214</b>	ng/L
Tb-Precon	159	14	71	57.025546		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: SEQ-CCBA**

**Sample Description:**

**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 03:54:35

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam

Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-CCBA.183

Calibration File: C:\Elandata\System\2012\9-12\1200695.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	344	296.769297	<b>5.7827</b>	ng/L
Fe-Precon	54	100	1302	1202.123088	<b>196.0182</b>	ng/L
Fe-Precon	56	2026	24959	22932.745579	<b>196.7572</b>	ng/L
Fe-Precon	57	127	780	653.364227	<b>215.7522</b>	ng/L
Co-Precon	59	81	138	56.271173	<b>0.3757</b>	ng/L
Ni-Precon	60	113	204	90.135696	<b>3.1984</b>	ng/L
Cu-Precon	63	288	1287	998.751009	<b>16.0529</b>	ng/L
Cu-Precon	65	132	604	471.835445	<b>15.7581</b>	ng/L
Zn-Precon	66	513	963	450.253649	<b>23.0747</b>	ng/L
Zn-Precon	68	395	718	323.674728	<b>25.8324</b>	ng/L
Cd-Precon	111	3	4	0.872906	<b>0.2525</b>	ng/L
Cd-Precon	114	31	47	15.718385	<b>-0.1332</b>	ng/L
Pb-Precon	208	254	638	384.386131	<b>1.1680</b>	ng/L
Tb-Precon	159	14	22	7.632925		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 04:07:46  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.184  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	386	338.676767	<b>6.7207</b>	ng/L
Fe-Precon	54	100	3940	3839.835384	<b>623.4224</b>	ng/L
Fe-Precon	56	2026	74811	72784.800425	<b>619.6868</b>	ng/L
Fe-Precon	57	127	2092	1964.876117	<b>637.5455</b>	ng/L
Co-Precon	59	81	120	38.854357	<b>0.2523</b>	ng/L
Ni-Precon	60	113	198	84.978804	<b>3.0193</b>	ng/L
Cu-Precon	63	288	3342	3053.528704	<b>48.5452</b>	ng/L
Cu-Precon	65	132	1559	1426.937809	<b>47.8534</b>	ng/L
Zn-Precon	66	513	727	214.001748	<b>10.2155</b>	ng/L
Zn-Precon	68	395	570	175.188986	<b>13.6662</b>	ng/L
Cd-Precon	111	3	1	-1.807695	<b>0.1171</b>	ng/L
Cd-Precon	114	31	16	-14.770170	<b>-0.7340</b>	ng/L
Pb-Precon	208	254	386	132.429649	<b>0.2328</b>	ng/L
Tb-Precon	159	14	19	4.675339		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 04:20:56  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.185  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	240	192.628771	<b>3.4518</b>	ng/L
Fe-Precon	54	100	1950	1850.292793	<b>301.0450</b>	ng/L
Fe-Precon	56	2026	37106	35079.958150	<b>299.8105</b>	ng/L
Fe-Precon	57	127	1079	951.824923	<b>311.7396</b>	ng/L
Co-Precon	59	81	101	19.629702	<b>0.1162</b>	ng/L
Ni-Precon	60	113	175	61.165128	<b>2.1919</b>	ng/L
Cu-Precon	63	288	1510	1221.330343	<b>19.5725</b>	ng/L
Cu-Precon	65	132	684	552.176099	<b>18.4579</b>	ng/L
Zn-Precon	66	513	731	218.346208	<b>10.4520</b>	ng/L
Zn-Precon	68	395	539	143.896782	<b>11.1023</b>	ng/L
Cd-Precon	111	3	2	-1.435352	<b>0.1359</b>	ng/L
Cd-Precon	114	31	16	-15.160597	<b>-0.7417</b>	ng/L
Pb-Precon	208	254	372	118.212900	<b>0.1800</b>	ng/L
Tb-Precon	159	14	14	0.453684		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 04:34:06  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.186  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	203	155.563909	<b>2.6222</b>	ng/L
Fe-Precon	54	100	1399	1298.945850	<b>211.7070</b>	ng/L
Fe-Precon	56	2026	26642	24615.320992	<b>211.0317</b>	ng/L
Fe-Precon	57	127	804	677.628448	<b>223.5557</b>	ng/L
Co-Precon	59	81	82	0.782619	<b>-0.0173</b>	ng/L
Ni-Precon	60	113	162	48.565559	<b>1.7542</b>	ng/L
Cu-Precon	63	288	979	690.244735	<b>11.1744</b>	ng/L
Cu-Precon	65	132	445	313.163432	<b>10.4261</b>	ng/L
Zn-Precon	66	513	721	208.097585	<b>9.8942</b>	ng/L
Zn-Precon	68	395	530	135.385948	<b>10.4049</b>	ng/L
Cd-Precon	111	3	3	-0.328713	<b>0.1918</b>	ng/L
Cd-Precon	114	31	18	-13.169184	<b>-0.7025</b>	ng/L
Pb-Precon	208	254	375	121.705278	<b>0.1930</b>	ng/L
Tb-Precon	159	14	11	-2.819050		mg/L

# Quantitative Analysis - Brooks Rand Labs Summary Report

**Sample ID: rinse**  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Sunday, September 09, 2012 04:47:15  
 Diluted To Volume (mL):  
 Aliquot Volume (mL):  
 Autosampler Position: 434

Sample File: C:\Elandata\Sample\2012\9-12\1200695.sam  
 Method File: C:\Elandata\Method\2012\9-12\1200695-0063-icpms2-mel.mth  
 Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200695\rinse.187  
 Calibration File: C:\Elandata\System\2012\9-12\1200695.cal  
 Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200695\SEQ-ICB1.018

## Concentration Results

Analyte	Mass	Blank Int Mean	Meas Int Mean	Net Int Mean	Conc Mean	Sample Unit
V-Precon	51	48	191	142.957359	<b>2.3400</b>	ng/L
Fe-Precon	54	100	1232	1132.163824	<b>184.6823</b>	ng/L
Fe-Precon	56	2026	24517	22490.710719	<b>193.0071</b>	ng/L
Fe-Precon	57	127	757	630.000829	<b>208.2383</b>	ng/L
Co-Precon	59	81	82	0.526318	<b>-0.0191</b>	ng/L
Ni-Precon	60	113	146	32.208418	<b>1.1859</b>	ng/L
Cu-Precon	63	288	815	526.298752	<b>8.5820</b>	ng/L
Cu-Precon	65	132	367	235.152626	<b>7.8046</b>	ng/L
Zn-Precon	66	513	703	190.548619	<b>8.9390</b>	ng/L
Zn-Precon	68	395	502	107.598790	<b>8.1282</b>	ng/L
Cd-Precon	111	3	1	-2.341983	<b>0.0901</b>	ng/L
Cd-Precon	114	31	17	-14.082148	<b>-0.7205</b>	ng/L
Pb-Precon	208	254	358	103.983969	<b>0.1272</b>	ng/L
Tb-Precon	159	14	11	-2.725543		mg/L