



THE LEADER IN ENVIRONMENTAL TESTING

December 15, 2010

**TestAmerica Project Number: G0K270427**

PO/Contract: 2027.07

Ted Splitter  
Tronox LLC / AIU Henderson, NV  
PO Box 268859  
Oklahoma City, OK 73126-8859

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on November 27, 2010. These samples are associated with your Tronox Henderson Air Monitoring project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Alltucker', written in a cursive style.

DAVID R. ALLTUCKER  
Project Manager

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## Case Narrative

### TestAmerica West Sacramento Project Number G0K270427

#### **AIR, TO-13, Semivolatile Organics**

Sample(s): 3, 4

The samples have surrogate recoveries that are low outside stated control limits. Re-injection confirms the low surrogate recovery. The low surrogate recovery in G0K270427-3 suggests a potential low bias for the target analyte. As air samples are unique, there is no possibility for re-extraction.

There were no other anomalies associated with this project.

### TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.



## Sample Summary

### TestAmerica West Sacramento Project Number G0K270427

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
MAK00	1	UW-11232010A	11/23/2010 03:11 AM	11/27/2010 10:30 AM
MAK01	2	DW-11232010A	11/23/2010 03:35 AM	11/27/2010 10:30 AM
MAK02	3	UW-11232010B	11/23/2010 05:55 PM	11/27/2010 10:30 AM
MAK03	4	DW-11232010B	11/23/2010 06:18 PM	11/27/2010 10:30 AM
MAK04	5	UW-11232010A	11/23/2010 03:11 AM	11/27/2010 10:30 AM
MAK07	6	DW-11232010A	11/23/2010 03:34 AM	11/27/2010 10:30 AM
MAK08	7	UW-11232010B	11/23/2010 05:57 PM	11/27/2010 10:30 AM
MAK09	8	DW-11232010B	11/23/2010 06:20 PM	11/27/2010 10:30 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



300 Frank H. Ogawa Plaza, Ste 510  
Oakland, CA 94612 (510) 839-0688

### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

Required Ship to Lab:		Required Project Information:		Required Invoice Information:		Total # of Samples 18		Event Complete?							
Lab Name:	Test America Laboratories Inc	Site ID # 102	TRONOX LLC, HENDERSON	Send Invoice to:	Susan Crowley Tronox LLC.	Regular		5 day	Mark One						
Address:	880 Riverside Parkway West Sacramento, CA 95805	Project #	2027 07	Address:	PO Box 55 Henderson, NV 89009	Rush									
Lab PM	David Allucker	Site Address	560 W Lake Mead Pkwy Henderson	City/State:	Henderson, NV 89009										
Phone/Fax:	(916) 373-5600	City	Henderson	State, Zip	NV, 89015										
Lab PM Email	David.Allucker@testamericainc.com	Site PM Name	Ted Spitzer	PO #											
Applicable Lab Quote #		Phone/Fax:	(510) 435-4809	Send EDO to:	Frank.Hagar@ngem.com										
		Site PM Email:	Ted.Spitzer@ngem.com	OC Hardcopy report to:	PDF Electronic Version Only - FTP Upload										
				CC Hardcopy report to:	See Additional Comments Below										
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-RAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m <sup>3</sup> )	DATE	TIME	Temp in OC	Samples on Ice?	Sample Receipt Conditions	Temp Blank?
	UW-11232010A		AA			11/23/2010	3:11 AM	1	550.62	X					
	UW-11232010A		AA			11/23/2010	3:11 AM	1	747.55	X					
	DW-11232010A		AA			11/23/2010	3:35 AM	1	557.51	X					
	DW-11232010A		AA			11/23/2010	3:34 AM	1	793.08	X					
	UW-11232010B		AA			11/23/2010	5:55 PM	1	663.82	X					
	UW-11232010B		AA			11/23/2010	5:57 PM	1	995.9	X					
	DW-11232010B		AA			11/23/2010	6:20 PM	1	982.82	X					
	DW-11232010B		AA			11/23/2010	6:18 PM	1	658.53	X					
Additional Comments/Special Instructions: 3-5 DAY TURN AROUND															
RELINQUISHED BY / AFFILIATION Ronda S. Bailey															
DATE / TIME 11/23/2010 10:30															
SIGNATURE OF ANALYST <i>[Signature]</i>															
SIGNATURE OF SAMPLER <i>[Signature]</i>															
SHIPPING INFO: SAMPLER NAME AND SIGNATURE Ronda Bailey DATE 11/23/2010 12:00															

CLIENT Norhugate PM DA LOG # 68324  
 LOT# (QUANTIMS ID) GOK270427 QUOTE# 84087 LOCATION W140 AC  
 DATE RECEIVED 11-27-10 TIME RECEIVED 1030 Checked (✓)   
 DELIVERED BY  FEDEX  ON TRAC  CLIENT  
 GOLDENSTATE  UPS  GO-GETTERS  OTHER  
 TAL COURIER  TAL SF  VALLEY LOGISTICS   
 CUSTODY SEAL STATUS  INTACT  BROKEN  N/A   
 CUSTODY SEAL #(S) \_\_\_\_\_  
 SHIPPING CONTAINER(S)  TAL  CLIENT  N/A   
 COC #(S) 2027.07.0017   
 TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: \_\_\_\_\_  
 SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)  
 Observed: NA Average \_\_\_\_\_ Corrected Average \_\_\_\_\_  
**LABORATORY THERMOMETER ID:**  
 IR UNIT: #4  #5  OTHER \_\_\_\_\_

AV 11-27-10  
 Initials Date

pH MEASURED  YES  ANOMALY  N/A   
 LABELED BY.....   
 LABELS CHECKED BY.....   
 PEER REVIEW \_\_\_\_\_  NA   
 SHORT HOLD TEST NOTIFICATION  SAMPLE RECEIVING   
 WETCHEM  N/A   
 VOA-ENCORES  N/A   
 METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A   
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A   
 CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED  
AV 11-27-10  
 Initials Date

Notes \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot ID: 30K270427

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

# AIR, TO-13, Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: UW-11232010A

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 001	Work Order #....:	MAK001AA	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	11/29/10	Analysis Date....:	12/04/10	Volume....:	550.62
Prep Batch # ....:	0333259	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Mark Onishi		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.018	0.0024	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		71		60 - 120
2-Fluorobiphenyl		87		58 - 105
2-Fluorophenol		72		41 - 105
Nitrobenzene-d5		78		46 - 118
Phenol-d5		81		43 - 122
Terphenyl-d14		92		69 - 110
2,4,6-Tribromophenol		111		61 - 118

QUALIFIERS

**Northgate Environmental Management, Inc.**

**Sample ID: DW-11232010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0K270427 - 002	<b>Work Order #....:</b>	MAK011AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	11/23/10	<b>Date Received....:</b>	11/27/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	11/29/10	<b>Analysis Date....:</b>	12/04/10	<b>Volume....:</b>	557.51
<b>Prep Batch # ....:</b>	0333259	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Mark Onishi		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.0082      J	0.018	0.0023	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		62		60 - 120
2-Fluorobiphenyl		72		58 - 105
2-Fluorophenol		65		41 - 105
Nitrobenzene-d5		68		46 - 118
Phenol-d5		75		43 - 122
Terphenyl-d14		88		69 - 110
2,4,6-Tribromophenol		103		61 - 118

**QUALIFIERS**  
 J      Estimated Result.

**Northgate Environmental Management, Inc.**

**Sample ID: UW-11232010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0K270427 - 003	<b>Work Order #....:</b>	MAK021AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	11/23/10	<b>Date Received....:</b>	11/27/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	11/29/10	<b>Analysis Date....:</b>	12/04/10	<b>Volume....:</b>	663.82
<b>Prep Batch # ....:</b>	0333259	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Mark Onishi		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.015	0.0020	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>		<b><u>RECOVERY LIMITS</u></b>
1,2-Dichlorobenzene-d4		50	*	60 - 120
2-Fluorobiphenyl		27	*	58 - 105
2-Fluorophenol		65		41 - 105
Nitrobenzene-d5		52		46 - 118
Phenol-d5		74		43 - 122
Terphenyl-d14		13	*	69 - 110
2,4,6-Tribromophenol		17	*	61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.



**Northgate Environmental Management, Inc.**

**Sample ID: DW-11232010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0K270427 - 004	<b>Work Order #....:</b> MAK031AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 11/23/10	<b>Date Received....:</b> 11/27/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 11/29/10	<b>Analysis Date....:</b> 12/04/10	<b>Volume....:</b> 656.53
<b>Prep Batch # ....:</b> 0333259	<b>Instrument ID....:</b> 5MH	<b>Method....:</b> EPA-2 TO-13
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Mark Onishi	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.0041 J	0.015	0.0020	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		51 *		60 - 120
2-Fluorobiphenyl		78		58 - 105
2-Fluorophenol		67		41 - 105
Nitrobenzene-d5		69		46 - 118
Phenol-d5		76		43 - 122
Terphenyl-d14		93		69 - 110
2,4,6-Tribromophenol		107		61 - 118

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits
- J Estimated Result.

# QC DATA ASSOCIATION SUMMARY

GOK270427

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	EPA-2 TO-13		0333259	
002	AA	EPA-2 TO-13		0333259	
003	AA	EPA-2 TO-13		0333259	
004	AA	EPA-2 TO-13		0333259	
005	AA	CFR50B APDX B		0337343	
	AA	SW846 6020		0336286	
006	AA	CFR50B APDX B		0337343	
	AA	SW846 6020		0336286	
007	AA	CFR50B APDX B		0337343	
	AA	SW846 6020		0336286	
008	AA	CFR50B APDX B		0337343	
	AA	SW846 6020		0336286	

**Method Blank Report**

**Trace Level Compounds**

Lot - Sample #....: G0K290000 - 259B  
Date Sampled....: 11/23/10  
Prep Date....: 11/29/10  
Prep Batch # ....: 0333259  
Initial Wgt/Vol....: 1 Sample

Work Order #....: MALNT1AA  
Date Received....: 11/27/10  
Analysis Date....: 12/04/10  
Instrument ID....: 5MH  
Analyst ID....: Mark Onishi

Matrix....: AIR  
Dilution Factor....: 1  
Volume....: 0  
Method....: EPA-2 TO-13

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	10.0	1.3	ug
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		65		60 - 120
2-Fluorobiphenyl		81		58 - 105
2-Fluorophenol		68		41 - 105
Nitrobenzene-d5		75		46 - 118
Phenol-d5		76		43 - 122
Terphenyl-d14		91		69 - 110
2,4,6-Tribromophenol		104		61 - 118

QUALIFIERS

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

<b>Client Lot # ...:</b> G0K270427	<b>Work Order # ...:</b> MALNT1AC-LCS	<b>Matrix .....</b> : AIR
<b>LCS Lot-Sample# :</b> G0K290000 - 259	MALNT1AD-LCSD	
<b>Prep Date .....</b> : 11/29/10	<b>Analysis Date ..:</b> 12/04/10	
<b>Prep Batch # ...:</b> 0333259		
<b>Dilution Factor :</b> 1		
<b>Analyst ID.....:</b> Mark Onishi	<b>Instrument ID..:</b> 5MH	<b>Method.....:</b> EPA-2 TO-13
<b>Initial Wgt/Vol:</b> 1 Sample		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
<b>Hexachlorobenzene</b>	<b>100</b>	<b>95.8</b>	<b>ug</b>	<b>96</b>	<b>(70 - 110)</b>		
	<b>100</b>	<b>101</b>	<b>ug</b>	<b>101</b>	<b>(70 - 110)</b>	<b>5.1</b>	<b>(0 - 30)</b>
<u>SURROGATE</u>			<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl			87		(58 - 105)		
			89		(58 - 105)		
2-Fluorophenol			76		(41 - 105)		
			76		(41 - 105)		
Nitrobenzene-d5			86		(46 - 118)		
			86		(46 - 118)		
Phenol-d5			84		(43 - 122)		
			83		(43 - 122)		
Terphenyl-d14			91		(69 - 110)		
			89		(69 - 110)		
2,4,6-Tribromophenol			104		(61 - 118)		
			102		(61 - 118)		

**Notes:**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: UW-11232010A

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 005	Work Order #....:	MAK041AC	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	12/02/10	Analysis Date....:	12/03/10	Volume....:	747.55
Prep Batch # ....:	0336286	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00097 B J	0.0032	0.00066	ug/m3
Manganese	0.223	0.00161	0.000227	ug/m3

QUALIFIERS

B Estimated result. Result is less than RL and greater than or equal to the IDL.  
J Estimated Result

Northgate Environmental Management, Inc.

Sample ID: DW-11232010A

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 006	Work Order #....:	MAK071AC	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	12/02/10	Analysis Date....:	12/03/10	Volume....:	793.08
Prep Batch # ....:	0336286	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0017 B J	0.0030	0.00062	ug/m3
Manganese	1.52	0.00151	0.000214	ug/m3

QUALIFIERS

- B Estimated result. Result is less than RL and greater than or equal to the IDL
- J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-11232010B

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 007	Work Order #....:	MAK081AC	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	12/02/10	Analysis Date....:	12/03/10	Volume....:	995.9
Prep Batch # ....:	0336286	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00067 B J	0.0024	0.00049	ug/m3
Manganese	0.166	0.00120	0.000171	ug/m3

QUALIFIERS

- B Estimated result. Result is less than RL and greater than or equal to the IDL.
- J Estimated Result.



Northgate Environmental Management, Inc.

Sample ID: DW-11232010B

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 008	Work Order #....:	MAK091AC	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	12/02/10	Analysis Date....:	12/03/10	Volume....:	982.52
Prep Batch # ....:	0336286	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00092 B J	0.0024	0.00050	ug/m3
Manganese	2.00	0.00122	0.000173	ug/m3

QUALIFIERS

- B Estimated result Result is less than RL and greater than or equal to the IDL.
- J Estimated Result.

**Method Blank Report**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0L020000 - 286B	<b>Work Order #....:</b>	MARD81AA	<b>Matrix....:</b>	AIR
<b>Date Sampled....:</b>	11/23/10	<b>Date Received....:</b>	11/27/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	12/02/10	<b>Analysis Date....:</b>	12/07/10	<b>Volume....:</b>	0
<b>Prep Batch # ....:</b>	0336286	<b>Instrument ID....:</b>	M02	<b>Method....:</b>	SW846 6020
<b>Initial Wgt/Vol....:</b>	0.08333 L	<b>Analyst ID....:</b>	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.95	B	2.4	0.49	ug

**QUALIFIERS**

B Estimated result. Result is less than RL and greater than or equal to the IDL

# QC DATA ASSOCIATION SUMMARY

GOK270427

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
005	AA	SW846 6020		0336286	
006	AA	SW846 6020		0336286	
007	AA	SW846 6020		0336286	
008	AA	SW846 6020		0336286	

**Method Blank Report**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0L020000 - 286B	<b>Work Order #....:</b>	MARD81AC	<b>Matrix....:</b>	AIR
<b>Date Sampled....:</b>	11/23/10	<b>Date Received....:</b>	11/27/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	12/02/10	<b>Analysis Date....:</b>	12/03/10	<b>Volume....:</b>	0
<b>Prep Batch # ....:</b>	0336286	<b>Instrument ID....:</b>	M02	<b>Method....:</b>	SW846 6020
<b>Initial Wgt/Vol....:</b>	0.08333 L	<b>Analyst ID....:</b>	Sabine Hargrave		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Manganese	ND	1.2	0.17	ug

**QUALIFIERS**

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

<b>Client Lot # ...:</b> G0K270427	<b>Work Order # ...:</b> MARD81AF-LCS	<b>Matrix .....</b> : AIR
<b>LCS Lot-Sample# :</b> G0L020000 - 286	MARD81AG-LCSD	
<b>Prep Date .....</b> : 12/02/10	<b>Analysis Date ...:</b> 12/03/10	
<b>Prep Batch # ...:</b> 0336286		
<b>Dilution Factor :</b> 1		
<b>Analyst ID.....:</b> Sabine Hargrave	<b>Instrument ID.:</b> M02	<b>Method.....:</b> SW846 6020
<b>Initial Wgt/Vol:</b> 0.08333 L		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
<b>Manganese</b>	<b>240</b>	<b>220</b>	<b>ug</b>	<b>92</b>	<b>(88 - 110)</b>		
	<b>240</b>	<b>216</b>	<b>ug</b>	<b>90</b>	<b>(88 - 110)</b>	<b>1.9</b>	<b>(0 - 15)</b>
<b>Arsenic</b>	<b>240</b>	<b>223</b>	<b>ug</b>	<b>93</b>	<b>(86 - 110)</b>		

**Notes:**

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

AIR, TSP-  
Total Suspended  
Particulates

Northgate Environmental Management, Inc.

Sample ID: UW-11232010A

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 005	Work Order #....:	MAK041AA	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/03/10	Volume....:	747.55
Prep Batch # ....:	0337343	Instrument ID....:	QA-045	Method....:	CFR50B APDX B
Initial Wgt/Vol....:	0	Analyst ID....:	Thep Phomsopha		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000163	0.00000669	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11232010A

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 006	Work Order #....:	MAK071AA	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/03/10	Volume....:	793.08
Prep Batch # ....:	0337343	Instrument ID....:	QA-045	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Thep Phomsopha		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000175	0.000000630	--	g/m3

QUALIFIERS



Northgate Environmental Management, Inc.

Sample ID: UW-11232010B

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 007	Work Order #....:	MAK081AA	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/03/10	Volume....:	995.9
Prep Batch # ....:	0337343	Instrument ID....:	QA-045	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Thep Phomsopha		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000623	0.000000502	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11232010B

Trace Level Compounds

Lot - Sample #....:	G0K270427 - 008	Work Order #....:	MAK091AA	Matrix....:	AA
Date Sampled....:	11/23/10	Date Received....:	11/27/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/03/10	Volume....:	982.52
Prep Batch # ....:	0337343	Instrument ID....:	QA-045	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Thep Phomsopha		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000662	0.000000509	--	g/m3

QUALIFIERS

# QC DATA ASSOCIATION SUMMARY

G0K270427

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
005	AA	CFR50B APDX B		0337343	
006	AA	CFR50B APDX B		0337343	
007	AA	CFR50B APDX B		0337343	
008	AA	CFR50B APDX B		0337343	

**AIR, TO-13,  
Semivolatile Organics**

# **Raw Data Package**

## **Run/Batch Data**

*Includes (as applicable):*

*runlogs*

*continuing calibration standards*

*interference/performance check standards*

*continuing calibration blanks*

*method blanks*

*lcs*

*ms/sd*

*sample raw data*

*ms tune data*

Instrument: SV5 \_\_\_\_\_

ICAL Date: 10/02/10 \_\_\_\_\_

DFTPP ID: DFT1204

Initiator/Date: KT-12/06/10 \_\_\_\_\_

Standard ID: HSL1204

Reviewer/Date: *[Signature]* 12/6/10

NCM #: \_\_\_\_\_

**I: 8270C Criteria**

	Initiated	Reviewed
Log Book page included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV compared to correct ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tune documentation is present and meets criteria.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual re-integrations are checked, initialed and hardcopies included.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention time correct for Isomers and all other analytes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CCV Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples analyzed within 12 hours of Tune time.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tailing and degradation criteria are met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spot check manual integrations in Target. Analyte checked: _____	NA	<input checked="" type="checkbox"/>
Non-CCC ≤ 50% D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**II: 8270C SPCC Check** SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**III: 8270C CCC Check** CCC must be ≤ 20%D (If CCC are not targets, all analytes must be <20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Flouranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-Chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

**IV: AFCEE 3.1 and 4.0 OAPP Criteria**

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL. <i>see note</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <i>see note</i>
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

*Benzo (B) Fluoranthene = +22% High and ND is ok.*

*12/6/10*

**V: DOD QSM V3 Criteria**

	Initiated	Reviewed
For 8270, CCCs must be $\leq 20\%$ D.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RRFs for SPCCs must meet minimum response factor criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIM: All analytes must be $\leq 20\%$	<input type="checkbox"/> NA	<input checked="" type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)  
 JZ = EPA TO-13A (WS-MS-0005)  
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)  
 QI = EPA 8270C-SIM (WS-MS-0008)  
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)  
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i  
 Batch ID : 120410.B  
 ICAL Date: See Calib Report  
 See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
04-DEC-2010	09:53	KT	PRIMER	QC001A.D	NA	NA	NA		
04-DEC-2010	10:15	KT	DFTPP 50ug/ml	DFT1204.D	NA	NA	NA		
04-DEC-2010	10:36	KT	HSL_050 ug/ml CS-4	HSL1204.D	NA	NA	NA		
04-DEC-2010	11:00	KT	MALNT1AA GOK290000-259B	S120401.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	11:25	KT	MALNT1AC GOK290000-259C	S120402.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	11:49	KT	MALNT1AD GOK290000-259L	S120403.D	1000 Sa	1 mL	1	JZ	High 10% /
04-DEC-2010	12:14	KT	L99F61DL GOK180595-1S	S120404.D	30.06 g	1 mL	1	QL	
04-DEC-2010	12:38	KT	L99F61DM GOK180595-1D	S120405.D	29.95 g	1 mL	1	QL	
04-DEC-2010	13:03	KT	MAK001AA GOK270427-1	S120406.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	13:27	KT	MAK011AA GOK270427-2	S120407.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	13:52	KT	MAK021AA GOK270427-3	S120408.D	1000 Sa	1 mL	1	JZ	Low surr.
04-DEC-2010	14:16	KT	MAK031AA GOK270427-4	S120409.D	1000 Sa	1 mL	1	JZ	low surr.
04-DEC-2010	14:41	KT	MANG51AA GOK30000-389B	S120410.D	1000 Sa	1 mL	1	JZ	low surr.
04-DEC-2010	15:05	KT	MANG51AC GOK30000-389C	S120411.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	15:30	KT	MANG51AD GOK30000-389L	S120412.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	15:54	KT	MAMLW1AA GOK300434-1	S120413.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	16:19	KT	MAML81AA GOK300434-4	S120414.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	16:43	KT	L99G21AE GOK180595-8	S120415.D	29.99 g	1 mL	1	QL	
04-DEC-2010	17:08	KT	L99G31AE GOK180595-9	S120416.D	30.07 g	1 mL	1	QL	
04-DEC-2010	17:32	KT	L99G41AE GOK180595-10	S120417.D	30.08 g	1 mL	1	QL	
04-DEC-2010	17:57	KT	L99G51AE GOK180595-11	S120418.D	30.05 g	1 mL	1	QL	
04-DEC-2010	18:21	KT	L99G61AE GOK180595-12	S120419.D	29.92 g	1 mL	1	QL	
04-DEC-2010	18:46	KT	L99G91AE GOK180595-13	S120420.D	30.07 g	1 mL	1	QL	
04-DEC-2010	19:10	KT	L99HA1AE GOK180595-14	S120421.D	30.03 g	1 mL	1	QL	
04-DEC-2010	19:35	KT	L99HD1AE GOK180595-15	S120422.D	29.97 g	1 mL	1	QL	
04-DEC-2010	19:59	KT	L99HF1AE GOK180595-16	S120423.D	30.01 g	1 mL	1	QL	
04-DEC-2010	20:24	KT	L99HH1AE GOK180595-17	S120424.D	30.07 g	1 mL	1	QL	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 04-DEC-2010 10:36  
 Lab File ID: HSL1204.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\120410.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.46404	1.46404	0.010	3.83874	50.00000	Averaged
8 Phenol-d5	1.77296	1.83375	1.83375	0.010	3.42888	50.00000	Averaged
9 2-Chlorophenol-d4	1.55698	1.61867	1.61867	0.010	3.96181	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.98513	1.01892	1.01892	0.010	3.43026	50.00000	Averaged
11 Nitrobenzene-d5	0.33879	0.34944	0.34944	0.010	3.14130	50.00000	Averaged
12 2-Fluorobiphenyl	1.28852	1.29558	1.29558	0.010	0.54766	50.00000	Averaged
13 2,4,6-Tribromophenol	0.17381	0.18767	0.18767	0.010	7.97121	50.00000	Averaged
14 Terphenyl-d14	0.78789	0.81013	0.81013	0.010	2.82244	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.90858	0.90858	0.010	-1.40620	50.00000	Averaged
16 Pyridine	1.54111	1.50575	1.50575	0.010	-2.29461	50.00000	Averaged
23 Aniline	2.25673	2.27939	2.27939	0.010	1.00413	50.00000	Averaged
24 Phenol	2.03729	2.08653	2.08653	0.010	2.41708	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.46102	1.46102	0.010	2.26983	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.59024	1.59024	0.010	1.68995	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.79554	1.79554	0.010	5.41089	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.80374	1.80374	0.010	1.26683	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07490	1.07490	0.010	2.27311	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.69840	1.69840	0.010	3.72162	50.00000	Averaged
32 2-Methylphenol	1.43012	1.43294	1.43294	0.010	0.19697	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.27329	2.27329	0.010	-0.01588	50.00000	Averaged
34 4-Methylphenol	1.51904	1.51474	1.51474	0.010	-0.28351	50.00000	Averaged
36 Hexachloroethane	0.60636	0.65572	0.65572	0.010	8.13887	50.00000	Averaged
37 N-Nitrosodipropylamine	1.01180	1.02542	1.02542	0.050	1.34598	50.00000	Averaged
42 Nitrobenzene	0.33116	0.34537	0.34537	0.010	4.28887	50.00000	Averaged
44 Isophorone	0.63679	0.65503	0.65503	0.010	2.86481	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20808	0.20808	0.010	5.90704	20.00000	Averaged
46 2,4-Dimethylphenol	0.34911	0.36705	0.36705	0.010	5.13622	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.38995	0.38995	0.010	0.22393	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.27837	0.27837	0.010	3.06220	20.00000	Averaged
50 Benzoic Acid	0.19324	0.20608	0.20608	0.010	6.64448	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.31045	0.31045	0.010	6.15434	50.00000	Averaged
52 Naphthalene	1.10443	1.13982	1.13982	0.010	3.20449	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.44148	0.44148	0.010	1.98835	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15626	0.15626	0.010	9.17619	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.31836	0.31836	0.010	5.54416	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.73392	0.73392	0.010	5.78600	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.32035	0.32035	0.050	7.33524	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.33680	0.33680	0.010	5.53446	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.34380	0.36886	0.36886	0.010	7.28619	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.15486	1.15486	0.010	2.58993	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.36528	0.36528	0.010	7.06266	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.31651	1.31651	0.010	1.57746	50.00000	Averaged

Manual calculation for Nitrobenzene:  
 $\frac{252501}{584888} \times \frac{40}{50} = 0.34537$  R7 12/6/10

12/6/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 04-DEC-2010 10:36  
 Lab File ID: HSL1204.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\120410.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
177 Acenaphthylene	1.96037	1.99664	1.99664	0.010	1.85039	50.00000	Averaged
179 2,6-Dinitrotoluene	0.30197	0.30862	0.30862	0.010	2.20268	50.00000	Averaged
180 3-Nitroaniline	0.37691	0.38778	0.38778	0.010	2.88550	50.00000	Averaged
181 Acenaphthene	1.24787	1.26244	1.26244	0.010	1.16789	20.00000	Averaged
182 2,4-Dinitrophenol	50.00000	52.52788	0.18729	0.050	5.05576	0.000e+000	Quadratic
183 Dibenzofuran	1.65612	1.69133	1.69133	0.010	2.12631	50.00000	Averaged
184 4-Nitrophenol	0.15634	0.17314	0.17314	0.050	10.74786	50.00000	Averaged
186 2,4-Dinitrotoluene	0.39633	0.42188	0.42188	0.010	6.44559	50.00000	Averaged
191 Fluorene	1.37139	1.39249	1.39249	0.010	1.53868	50.00000	Averaged
192 Diethylphthalate	1.32699	1.37656	1.37656	0.010	3.73540	50.00000	Averaged
193 4-Chlorophenyl-phenylether	0.57019	0.57433	0.57433	0.010	0.72546	50.00000	Averaged
194 4-Nitroaniline	0.37361	0.39990	0.39990	0.010	7.03707	50.00000	Averaged
197 4,6-Dinitro-2-methylphenol	50.00000	54.80273	0.15726	0.010	9.60546	0.000e+000	Linear
198 N-Nitrosodiphenylamine	0.60628	0.62806	0.62806	0.010	3.59210	20.00000	Averaged
100 Azobenzene	0.78660	0.80903	0.80903	0.010	2.85135	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.21480	0.21480	0.010	10.00406	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22934	0.22934	0.010	5.17043	50.00000	Averaged
110 Pentachlorophenol	50.00000	48.80415	0.12675	0.010	-2.39170	0.000e+000	Linear
114 Phenanthrene	1.26074	1.27780	1.27780	0.010	1.35252	50.00000	Averaged
115 Anthracene	1.25955	1.31316	1.31316	0.010	4.25662	50.00000	Averaged
118 Carbazole	1.15061	1.17061	1.17061	0.010	1.73845	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.46886	1.46886	0.010	6.09975	50.00000	Averaged
126 Fluoranthene	1.12969	1.22360	1.22360	0.010	8.31338	20.00000	Averaged
127 Benzidine	0.81067	0.86515	0.86515	0.010	6.71949	50.00000	Averaged
128 Pyrene	1.25025	1.26571	1.26571	0.010	1.23579	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.76105	0.76105	0.010	6.34630	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.67343	0.67343	0.010	7.46792	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.12285	1.12285	0.010	5.38490	50.00000	Averaged
139 Chrysene	1.08994	1.07955	1.07955	0.010	-0.95314	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.42573	0.42573	0.010	5.93261	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.90793	0.90793	0.010	5.18612	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.53772	1.53772	0.010	11.44900	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	1.10333	1.10333	0.010	21.84870	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.07851	1.07851	0.010	-7.21363	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.98783	0.98783	0.010	4.61585	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.07597	1.07597	0.010	4.81409	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.94746	0.94746	0.010	14.11161	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	1.02615	1.02615	0.010	10.62663	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.09166	1.09166	0.010	8.70201	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.18184	2.18184	0.010	5.51256	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\HSL1204.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 04-DEC-2010 10:36  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:21 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	138327	40.0000		
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	584888	40.0000		
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	316560	40.0000		
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	498828	40.0000		
* 5 Chrysene-d12	240	13.190	13.190	(1.000)	516170	40.0000		
* 6 Perylene-d12	264	15.543	15.543	(1.000)	510499	40.0000		
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	253146	50.0000	51.92	
\$ 8 Phenol-d5	99	3.231	3.231	(0.912)	317072	50.0000	51.71	
\$ 9 2-Chlorophenol-d4	132	3.345	3.345	(0.944)	279882	50.0000	51.98	
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	176180	50.0000	51.72	
\$ 11 Nitrobenzene-d5	82	4.174	4.174	(0.843)	255477	50.0000	51.57	
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	512661	50.0000	50.27	
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	74261	50.0000	53.98	
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	522707	50.0000	51.41	
15 N-Nitrosodimethylamine	74	1.314	1.314	(0.371)	157102	50.0000	49.30	
16 Pyridine	79	1.325	1.325	(0.374)	260357	50.0000	48.85	
23 Aniline	93	3.252	3.252	(0.918)	394126	50.0000	50.50	
24 Phenol	94	3.252	3.252	(0.918)	360779	50.0000	51.21	
26 Bis(2-chloroethyl)ether	93	3.314	3.314	(0.936)	252623	50.0000	51.13	
27 2-Chlorophenol	128	3.356	3.356	(0.947)	274966	50.0000	50.84	
28 1,3-Dichlorobenzene	146	3.501	3.501	(0.988)	310465	50.0000	52.70	
29 1,4-Dichlorobenzene	146	3.553	3.553	(1.003)	311883	50.0000	50.63	
30 Benzyl Alcohol	108	3.718	3.718	(1.050)	185860	50.0000	51.14	
31 1,2-Dichlorobenzene	146	3.760	3.760	(1.061)	293669	50.0000	51.86	
32 2-Methylphenol	108	3.874	3.874	(1.094)	247768	50.0000	50.10	
33 2,2'-oxybis(1-Chloropropane)	45	3.895	3.895	(1.099)	393072	50.0000	49.99	
34 4-Methylphenol	108	4.040	4.040	(1.140)	261911	50.0000	49.86	
36 Hexachloroethane	117	4.081	4.081	(1.152)	113379	50.0000	54.07	
37 N-Nitrosodinpropylamine	70	4.040	4.040	(1.140)	177304	50.0000	50.67	
42 Nitrobenzene	77	4.185	4.185	(0.845)	252501	50.0000	52.14	
44 Isophorone	82	4.454	4.454	(0.900)	478900	50.0000	51.43	
45 2-Nitrophenol	139	4.547	4.547	(0.918)	152132	50.0000	52.95	
46 2,4-Dimethylphenol	107	4.630	4.630	(0.935)	268351	50.0000	52.57	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	4.734	4.734	(0.956)	285100	50.0000	50.11
49 2,4-Dichlorophenol	162	4.827	4.827	(0.975)	203520	50.0000	51.53
50 Benzoic Acid	122	4.765	4.765	(0.962)	150668	50.0000	53.32
51 1,2,4-Trichlorobenzene	180	4.910	4.910	(0.992)	226976	50.0000	53.08
52 Naphthalene	128	4.972	4.972	(1.004)	833332	50.0000	51.60
54 4-Chloroaniline	127	5.086	5.086	(1.027)	322772	50.0000	50.99
57 Hexachlorobutadiene	225	5.200	5.200	(1.050)	114243	50.0000	54.59
60 4-Chloro-3-Methylphenol	107	5.687	5.687	(1.149)	232755	50.0000	52.77
63 2-Methylnaphthalene	142	5.915	5.915	(1.195)	536574	50.0000	52.89
66 Hexachlorocyclopentadiene	237	6.060	6.060	(0.860)	126762	50.0000	53.67
69 2,4,6-Trichlorophenol	196	6.174	6.174	(0.876)	133270	50.0000	52.77
70 2,4,5-Trichlorophenol	196	6.216	6.216	(0.882)	145957	50.0000	53.64
71 2-Chloronaphthalene	162	6.361	6.361	(0.903)	456980	50.0000	51.29
73 2-Nitroaniline	65	6.537	6.537	(0.928)	144542	50.0000	53.53
76 Dimethylphthalate	163	6.817	6.817	(0.968)	520942	50.0000	50.79
77 Acenaphthylene	152	6.858	6.858	(0.974)	790071	50.0000	50.92
79 2,6-Dinitrotoluene	165	6.889	6.889	(0.978)	122120	50.0000	51.10
80 3-Nitroaniline	138	7.045	7.045	(1.000)	153445	50.0000	51.44
81 Acenaphthene	153	7.076	7.076	(1.004)	499548	50.0000	50.58
82 2,4-Dinitrophenol	184	7.169	7.169	(1.018)	74110	50.0000	52.53
83 Dibenzofuran	168	7.273	7.273	(1.032)	669261	50.0000	51.06
84 4-Nitrophenol	109	7.304	7.304	(1.037)	68513	50.0000	55.37
86 2,4-Dinitrotoluene	165	7.356	7.356	(1.044)	166937	50.0000	53.22
91 Fluorene	166	7.687	7.687	(1.091)	551010	50.0000	50.77
92 Diethylphthalate	149	7.677	7.677	(1.090)	544705	50.0000	51.87
93 4-Chlorophenyl-phenylether	204	7.708	7.708	(1.094)	227261	50.0000	50.36
94 4-Nitroaniline	138	7.781	7.781	(1.104)	158242	50.0000	53.52
97 4,6-Dinitro-2-methylphenol	198	7.843	7.843	(0.881)	98059	50.0000	54.80
98 N-Nitrosodiphenylamine	169	7.874	7.874	(0.885)	458977	58.6000	60.70
100 Azobenzene	77	7.905	7.905	(0.888)	504459	50.0000	51.42
101 4-Bromophenyl-phenylether	248	8.330	8.330	(0.936)	133936	50.0000	55.00
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	143002	50.0000	52.58
110 Pentachlorophenol	266	8.755	8.755	(0.984)	79036	50.0000	48.80
114 Phenanthrene	178	8.931	8.931	(1.003)	796750	50.0000	50.68
115 Anthracene	178	8.993	8.993	(1.010)	818801	50.0000	52.13
118 Carbazole	167	9.263	9.263	(1.041)	729917	50.0000	50.87
120 Di-n-Butylphthalate	149	9.957	9.957	(1.119)	915888	50.0000	53.05
126 Fluoranthene	202	10.745	10.745	(1.207)	762960	50.0000	54.16
127 Benzidine	184	11.035	11.035	(0.837)	558203	50.0000	53.36
128 Pyrene	202	11.087	11.087	(0.841)	816649	50.0000	50.62
134 3,3'-dimethylbenzidine	212	12.309	12.309	(0.933)	491042	50.0000	53.17
136 Butylbenzylphthalate	149	12.434	12.434	(0.943)	434505	50.0000	53.73
138 Benzo(a)Anthracene	228	13.159	13.159	(0.998)	724478	50.0000	52.69
139 Chrysene	228	13.232	13.232	(1.003)	696538	50.0000	49.52
140 3,3'-Dichlorobenzidine	252	13.221	13.221	(1.002)	274689	50.0000	52.97
141 bis(2-ethylhexyl)Phthalate	149	13.563	13.563	(1.028)	585805	50.0000	52.59
142 Di-n-octylphthalate	149	14.610	14.610	(1.108)	992154	50.0000	55.72
144 Benzo(b)fluoranthene	252	14.973	14.973	(0.963)	704060	50.0000	60.92
145 Benzo(k)fluoranthene	252	15.014	15.014	(0.966)	688223	50.0000	46.39
147 Benzo(e)pyrene	252	15.387	15.387	(0.990)	630359	50.0000	52.31
148 Benzo(a)pyrene	252	15.460	15.460	(0.995)	686601	50.0000	52.41
151 Indeno(1,2,3-cd)pyrene	276	17.076	17.076	(1.099)	604594	50.0000	57.06
152 Dibenzo(a,h)anthracene	278	17.118	17.118	(1.101)	654808	50.0000	55.31
153 Benzo(g,h,i)perylene	276	17.439	17.439	(1.122)	696616	50.0000	54.35

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT	ON-COL
=====	====		====	=====	=====	( NG)	( NG)	
M 162 benzo b,k Fluoranthene Totals	252					1392283	50.0000	52.76 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\HSL1204.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 04-DEC-2010 10:36  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:21 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT ( NG)	ON-COL ( NG)
			MASS	RT	EXP RT	REL RT		
* 1 1,4-Dichlorobenzene-d4	152		3.542	3.542	(1.000)	138327	40.0000	
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	584888	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	316560	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	498828	40.0000	
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	516170	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	510499	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	253146	50.0000	51.92
\$ 8 Phenol-d5	99		3.231	3.231	(0.912)	317072	50.0000	51.71
\$ 9 2-Chlorophenol-d4	132		3.345	3.345	(0.944)	279882	50.0000	51.98
\$ 10 1,2-Dichlorobenzene-d4	152		3.739	3.739	(1.056)	176180	50.0000	51.72
\$ 11 Nitrobenzene-d5	82		4.174	4.174	(0.843)	255477	50.0000	51.57
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	512661	50.0000	50.27
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	74261	50.0000	53.98
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	522707	50.0000	51.41
15 N-Nitrosodimethylamine	74		1.314	1.314	(0.371)	157102	50.0000	49.30
16 Pyridine	79		1.325	1.325	(0.374)	260357	50.0000	48.85
23 Aniline	93		3.252	3.252	(0.918)	394126	50.0000	50.50
24 Phenol	94		3.252	3.252	(0.918)	360779	50.0000	51.21
26 Bis(2-chloroethyl)ether	93		3.314	3.314	(0.936)	252623	50.0000	51.13
27 2-Chlorophenol	128		3.356	3.356	(0.947)	274966	50.0000	50.84
28 1,3-Dichlorobenzene	146		3.501	3.501	(0.988)	310465	50.0000	52.70
29 1,4-Dichlorobenzene	146		3.553	3.553	(1.003)	311883	50.0000	50.63
30 Benzyl Alcohol	108		3.718	3.718	(1.050)	185860	50.0000	51.14
31 1,2-Dichlorobenzene	146		3.760	3.760	(1.061)	293669	50.0000	51.86
32 2-Methylphenol	108		3.874	3.874	(1.094)	247768	50.0000	50.10
33 2,2'-oxybis(1-Chloropropane)	45		3.895	3.895	(1.099)	393072	50.0000	49.99
34 4-Methylphenol	108		4.040	4.040	(1.140)	261911	50.0000	49.86
36 Hexachloroethane	117		4.081	4.081	(1.152)	113379	50.0000	54.07
37 N-Nitrosodinpropylamine	70		4.040	4.040	(1.140)	177304	50.0000	50.67
42 Nitrobenzene	77		4.185	4.185	(0.845)	252501	50.0000	52.14
44 Isophorone	82		4.454	4.454	(0.900)	478900	50.0000	51.43
45 2-Nitrophenol	139		4.547	4.547	(0.918)	152132	50.0000	52.95
46 2,4-Dimethylphenol	107		4.630	4.630	(0.935)	268351	50.0000	52.57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	4.734	4.734	(0.956)	285100	50.0000	50.11
49 2,4-Dichlorophenol	162	4.827	4.827	(0.975)	203520	50.0000	51.53
50 Benzoic Acid	122	4.765	4.765	(0.962)	150668	50.0000	53.32
51 1,2,4-Trichlorobenzene	180	4.910	4.910	(0.992)	226976	50.0000	53.08
52 Naphthalene	128	4.972	4.972	(1.004)	833332	50.0000	51.60
54 4-Chloroaniline	127	5.086	5.086	(1.027)	322772	50.0000	50.99
57 Hexachlorobutadiene	225	5.200	5.200	(1.050)	114243	50.0000	54.59
60 4-Chloro-3-Methylphenol	107	5.687	5.687	(1.149)	232755	50.0000	52.77
63 2-Methylnaphthalene	142	5.915	5.915	(1.195)	536574	50.0000	52.89
66 Hexachlorocyclopentadiene	237	6.060	6.060	(0.860)	126762	50.0000	53.67
69 2,4,6-Trichlorophenol	196	6.174	6.174	(0.876)	133270	50.0000	52.77
70 2,4,5-Trichlorophenol	196	6.216	6.216	(0.882)	145957	50.0000	53.64
71 2-Chloronaphthalene	162	6.361	6.361	(0.903)	456980	50.0000	51.29
73 2-Nitroaniline	65	6.537	6.537	(0.928)	144542	50.0000	53.53
76 Dimethylphthalate	163	6.817	6.817	(0.968)	520942	50.0000	50.79
77 Acenaphthylene	152	6.858	6.858	(0.974)	790071	50.0000	50.92
79 2,6-Dinitrotoluene	165	6.889	6.889	(0.978)	122120	50.0000	51.10
80 3-Nitroaniline	138	7.045	7.045	(1.000)	153445	50.0000	51.44
81 Acenaphthene	153	7.076	7.076	(1.004)	499548	50.0000	50.58
82 2,4-Dinitrophenol	184	7.169	7.169	(1.018)	74110	50.0000	52.53
83 Dibenzofuran	168	7.273	7.273	(1.032)	669261	50.0000	51.06
84 4-Nitrophenol	109	7.304	7.304	(1.037)	68513	50.0000	55.37
86 2,4-Dinitrotoluene	165	7.356	7.356	(1.044)	166937	50.0000	53.22
91 Fluorene	166	7.687	7.687	(1.091)	551010	50.0000	50.77
92 Diethylphthalate	149	7.677	7.677	(1.090)	544705	50.0000	51.87
93 4-Chlorophenyl-phenylether	204	7.708	7.708	(1.094)	227261	50.0000	50.36
94 4-Nitroaniline	138	7.781	7.781	(1.104)	158242	50.0000	53.52
97 4,6-Dinitro-2-methylphenol	198	7.843	7.843	(0.881)	98059	50.0000	54.80
98 N-Nitrosodiphenylamine	169	7.874	7.874	(0.885)	458977	58.6000	60.70
100 Azobenzene	77	7.905	7.905	(0.888)	504459	50.0000	51.42
101 4-Bromophenyl-phenylether	248	8.330	8.330	(0.936)	133936	50.0000	55.00
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	143002	50.0000	52.58
110 Pentachlorophenol	266	8.755	8.755	(0.984)	79036	50.0000	48.80
114 Phenanthrene	178	8.931	8.931	(1.003)	796750	50.0000	50.68
115 Anthracene	178	8.993	8.993	(1.010)	818801	50.0000	52.13
118 Carbazole	167	9.263	9.263	(1.041)	729917	50.0000	50.87
120 Di-n-Butylphthalate	149	9.957	9.957	(1.119)	915888	50.0000	53.05
126 Fluoranthene	202	10.745	10.745	(1.207)	762960	50.0000	54.16
127 Benzidine	184	11.035	11.035	(0.837)	558203	50.0000	53.36
128 Pyrene	202	11.087	11.087	(0.841)	816649	50.0000	50.62
134 3,3'-dimethylbenzidine	212	12.309	12.309	(0.933)	491042	50.0000	53.17
136 Butylbenzylphthalate	149	12.434	12.434	(0.943)	434505	50.0000	53.73
138 Benzo(a)Anthracene	228	13.159	13.159	(0.998)	724478	50.0000	52.69
139 Chrysene	228	13.232	13.232	(1.003)	696538	50.0000	49.52
140 3,3'-Dichlorobenzidine	252	13.221	13.221	(1.002)	274689	50.0000	52.97
141 bis(2-ethylhexyl)Phthalate	149	13.563	13.563	(1.028)	585805	50.0000	52.59
142 Di-n-octylphthalate	149	14.610	14.610	(1.108)	992154	50.0000	55.72
144 Benzo(b)fluoranthene	252	14.973	14.973	(0.963)	704060	50.0000	60.92
145 Benzo(k)fluoranthene	252	15.014	15.014	(0.966)	688223	50.0000	46.39
147 Benzo(e)pyrene	252	15.387	15.387	(0.990)	630359	50.0000	52.31
148 Benzo(a)pyrene	252	15.460	15.460	(0.995)	686601	50.0000	52.41
151 Indeno(1,2,3-cd)pyrene	276	17.076	17.076	(1.099)	604594	50.0000	57.06
152 Dibenzo(a,h)anthracene	278	17.118	17.118	(1.101)	654808	50.0000	55.31
153 Benzo(g,h,i)perylene	276	17.439	17.439	(1.122)	696616	50.0000	54.35



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
=====	====	====	=====	=====	=====	=====	=====
M 162 benzo b,k Fluoranthene Totals	252				1392283	50.0000	52.76 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1204.D  
 Lab Smp Id: HSL 050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 09:53  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	138327	12.80
2 Naphthalene-d8	530514	265257	1061028	584888	10.25
3 Acenaphthene-d10	282538	141269	565076	316560	12.04
4 Phenanthrene-d10	462722	231361	925444	498828	7.80
5 Chrysene-d12	435850	217925	871700	516170	18.43
6 Perylene-d12	422284	211142	844568	510499	20.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	0.00
5 Chrysene-d12	13.19	12.69	13.69	13.19	0.00
6 Perylene-d12	15.54	15.04	16.04	15.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.1\120410.B\HSL1204.D  
Date: 04-DEC-2010 10:36

Client ID: 8270F.M

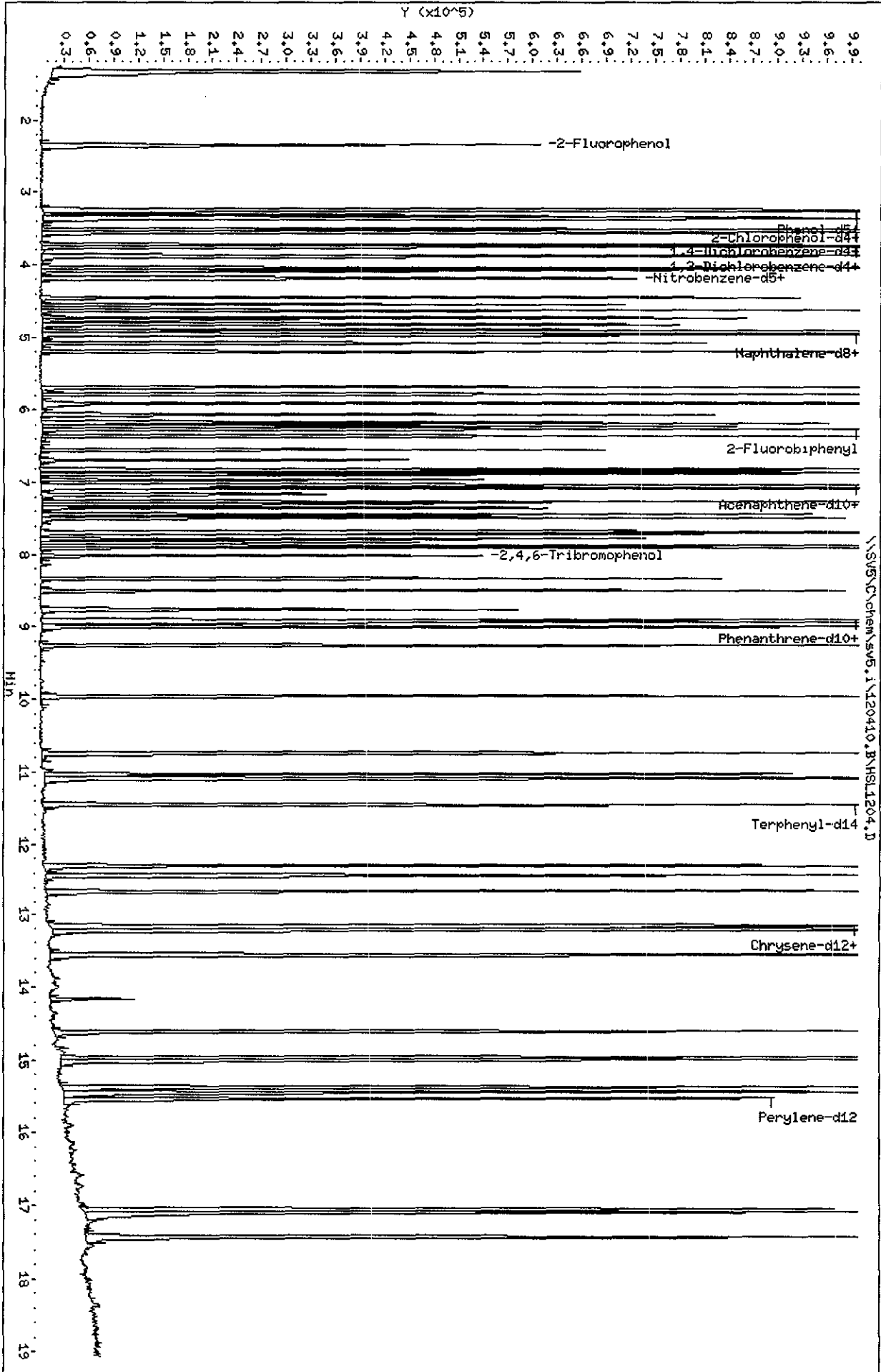
Sample Info: HSL\_050 ug/ml CS-432343334

Column phase:

Instrument: sv5.1

Operator: KT

Column diameter: 2.00



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9091184	5.000	PASS
Benzidine	0.3577715	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	197771	9.6	20.5	PASS

Sample //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D

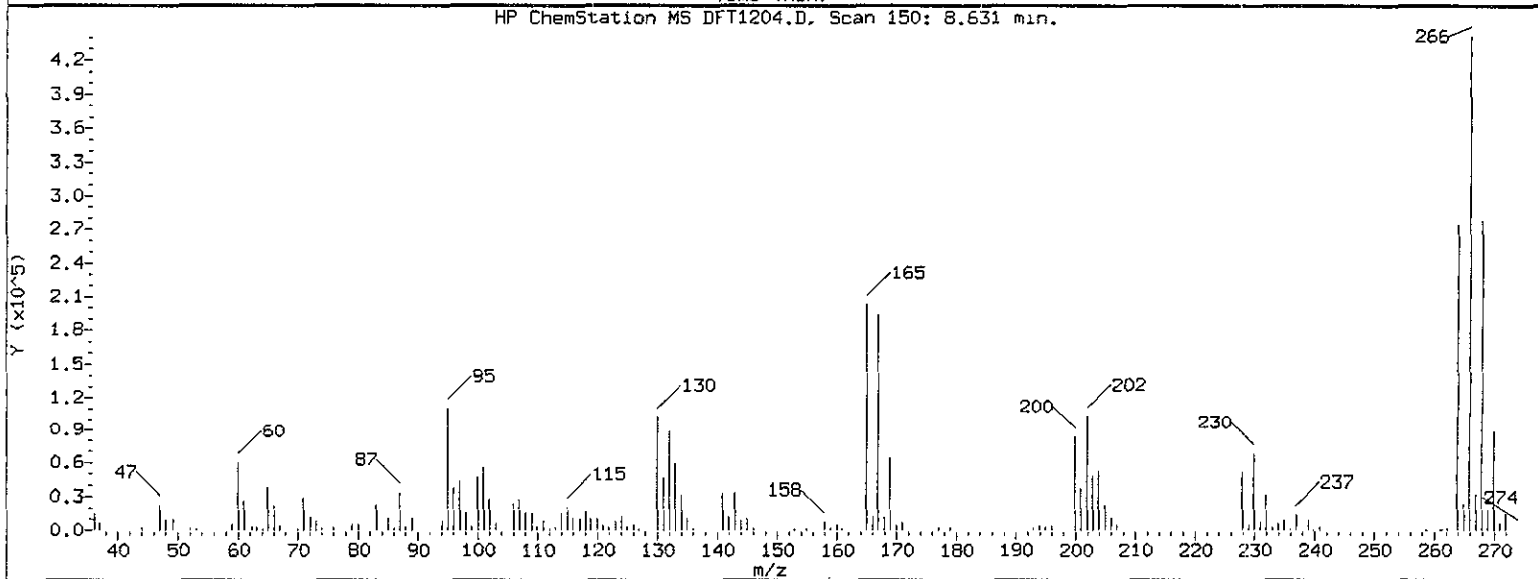
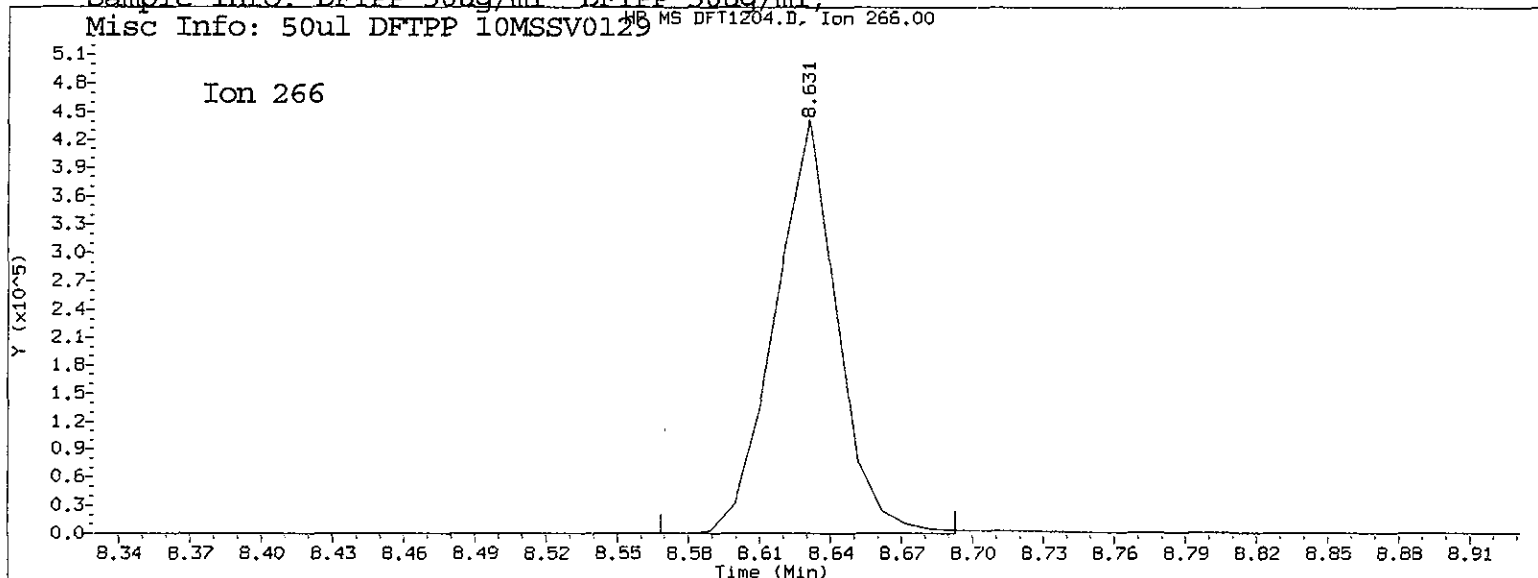
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

64  
 12/6/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 12/06/2010 09:20

Datafile Analyzed: //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D  
Method Used: \\SV5\C\chem\sv5.i\120410.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 04-DEC-2010 10:15 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT1204.D, Ion 266.00



Pentachlorophenol

=====  
Exp. RT = 8.662  
Found RT = 8.631

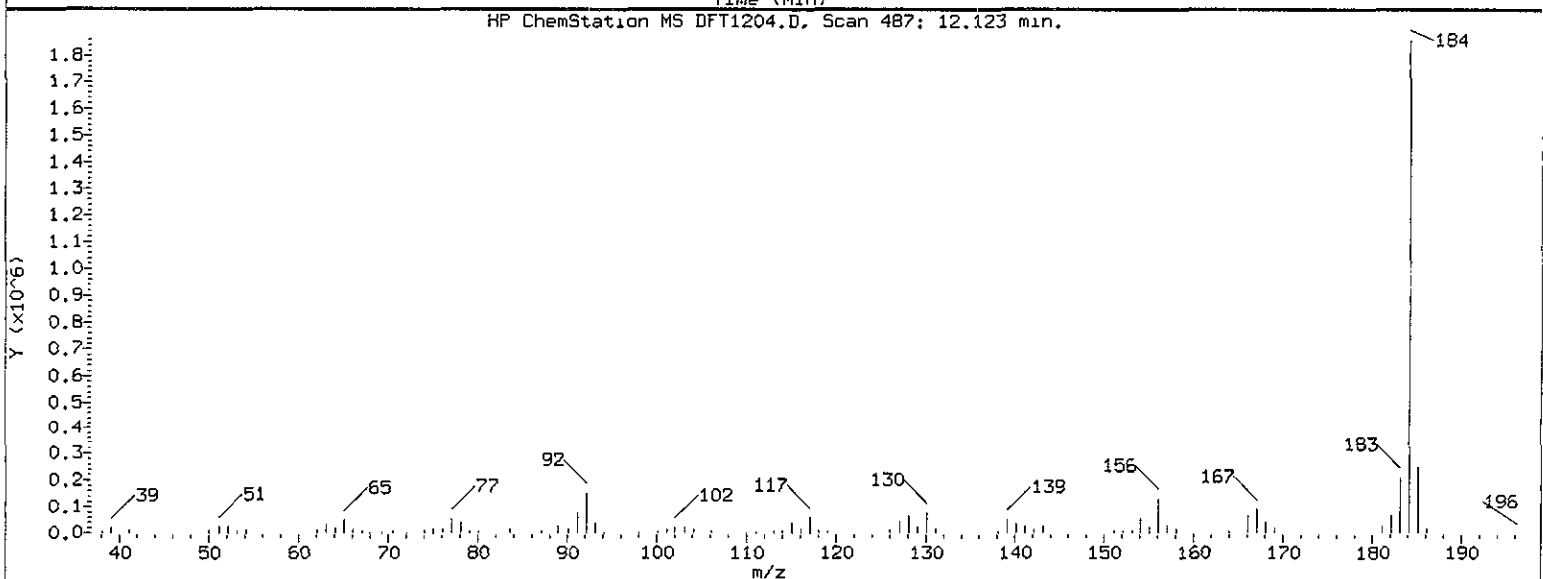
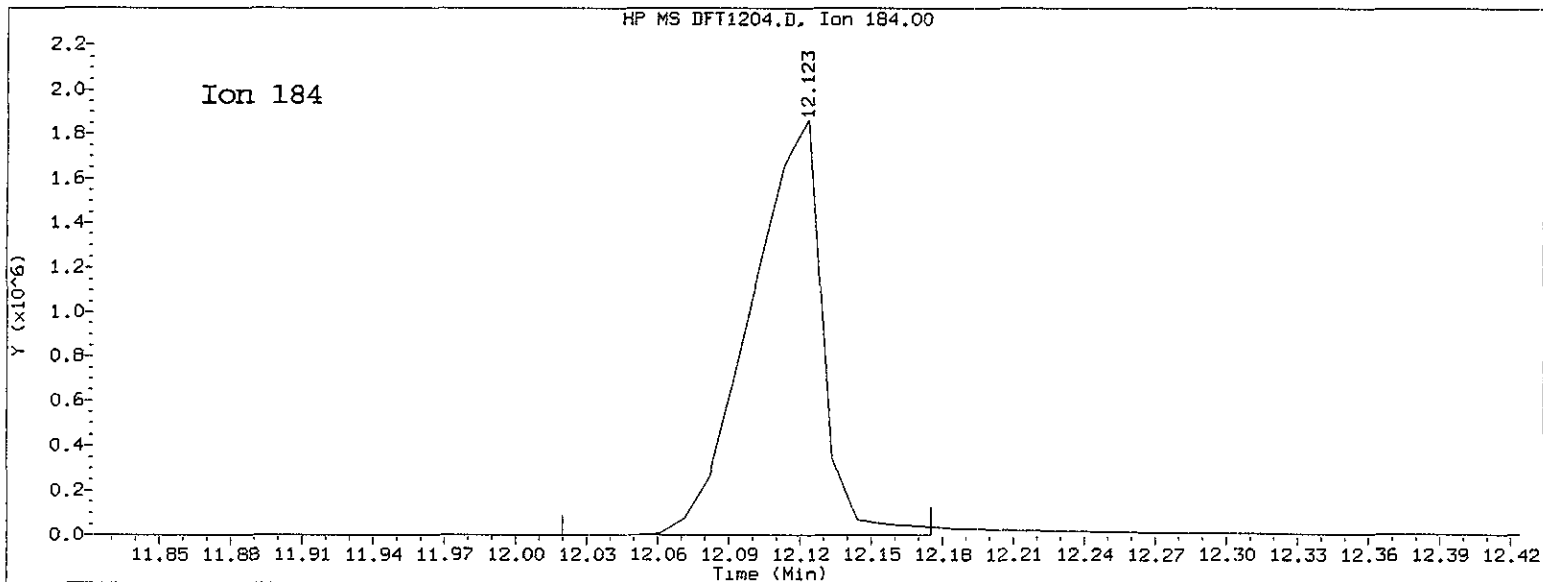
Time1 = 8.600923 Time2 = 8.630883 Time3 = 8.658121  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.909 Maximum Allowed = 5.0

Report Date: 12/06/2010 09:20

Datafile Analyzed: //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D  
Method Used: \\SV5\C\chem\sv5.i\120410.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 04-DEC-2010 10:15 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.144

Found RT = 12.123

Time1 = 12.07753 Time2 = 12.12323 Time3 = 12.13958

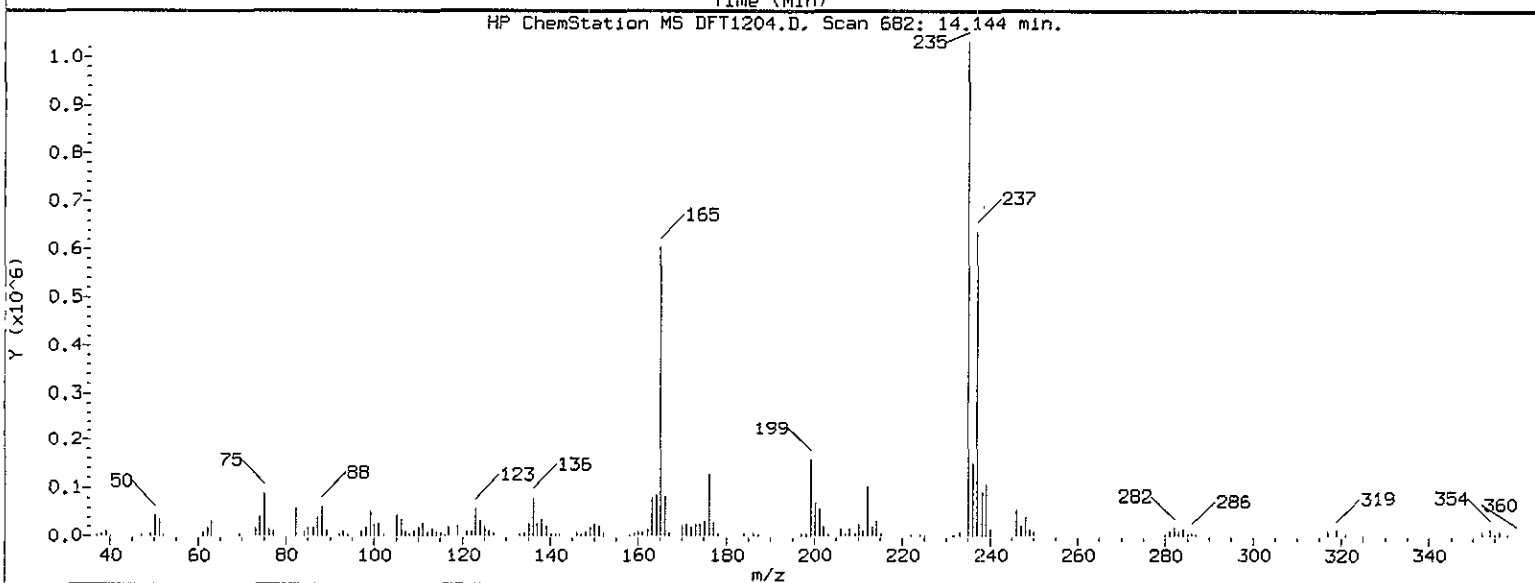
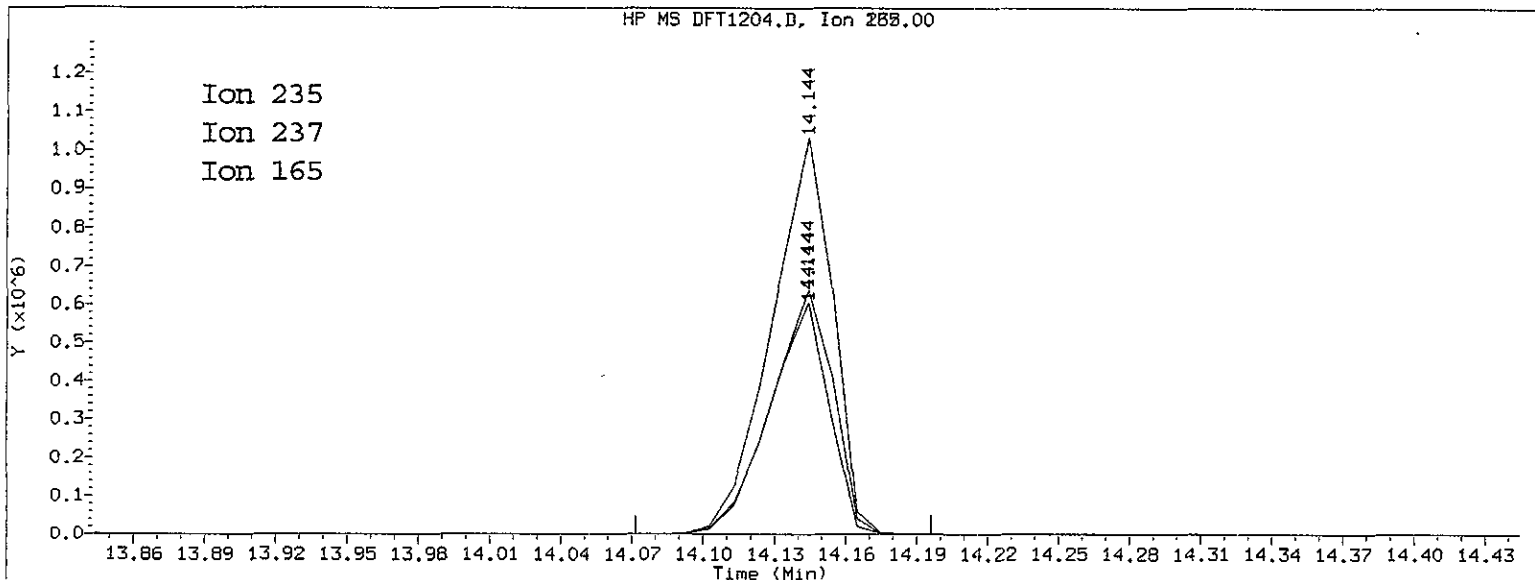
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.358 Maximum Allowed = 3.0

Report Date: 12/06/2010 09:20

Datafile Analyzed: //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D  
Method Used: \\SV5\C\chem\sv5.i\120410.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 04-DEC-2010 10:15 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

=====

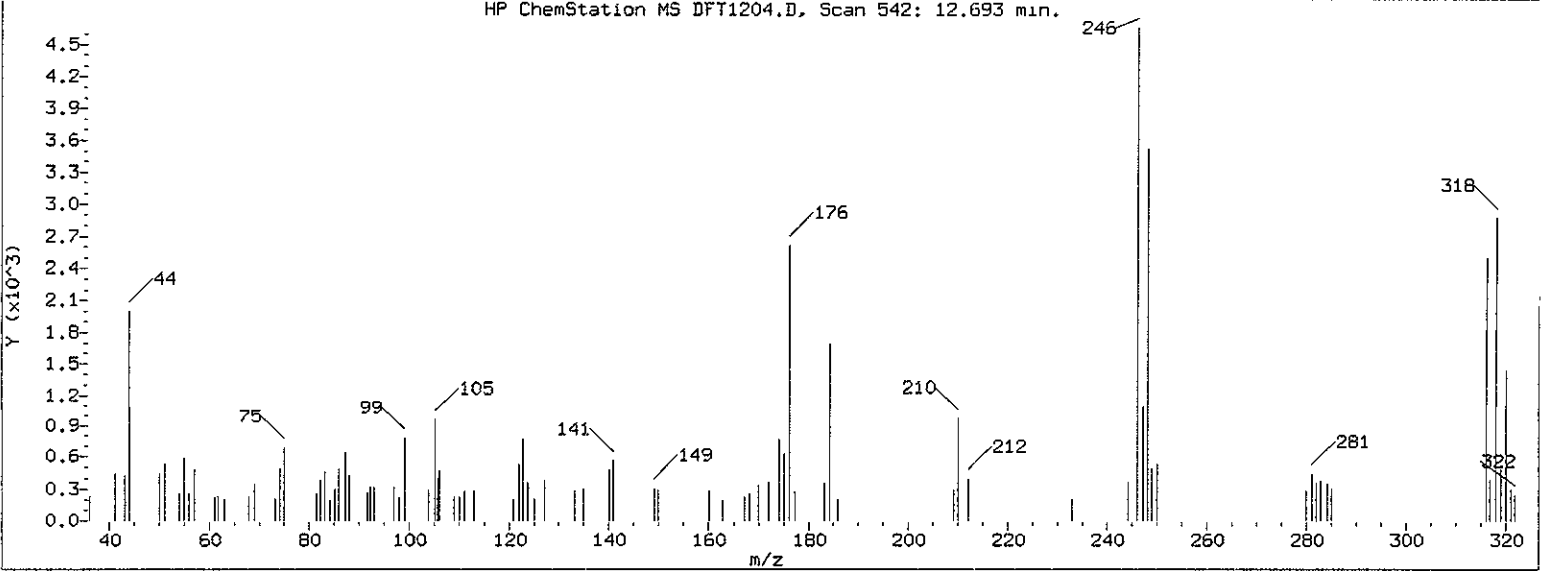
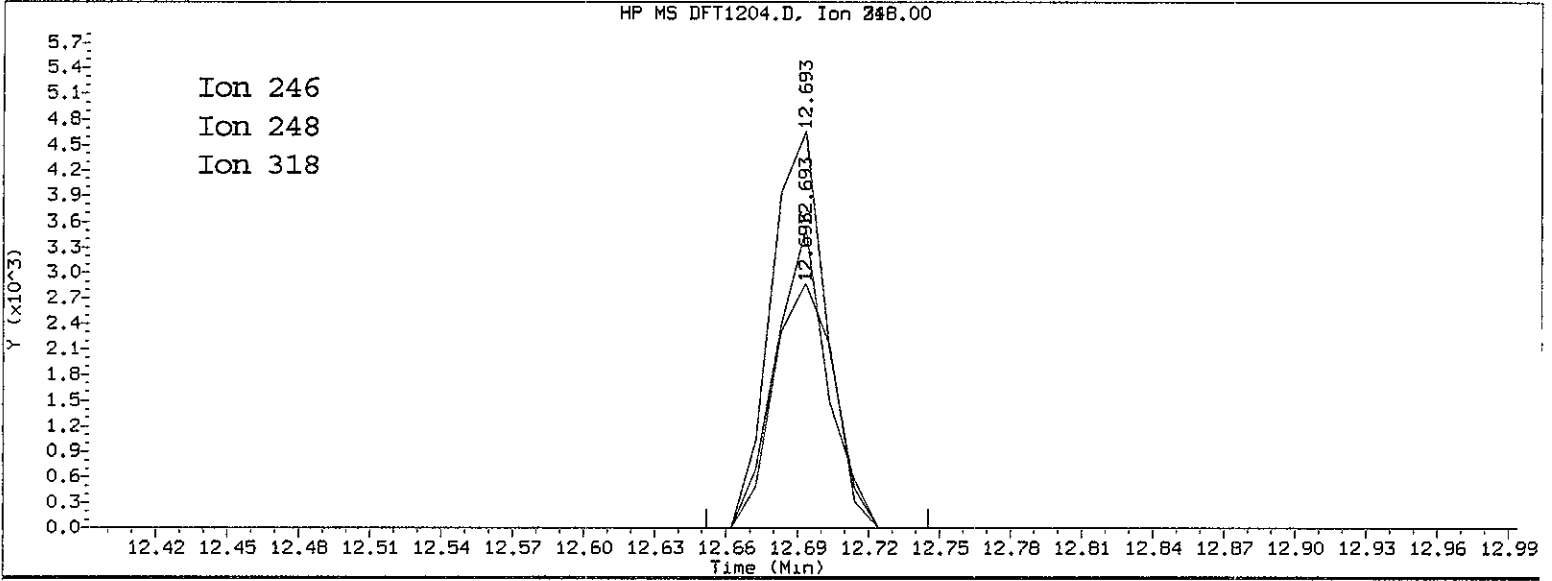
Exp. RT = 14.165

Found RT = 14.144

Mass	Area	Ratio
235	1852497	100.00
237	1164121	62.84
165	1063113	57.39

Report Date: 12/06/2010 09:20

Datafile Analyzed: //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D  
Method Used: \\SV5\C\chem\sv5.i\120410.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 04-DEC-2010 10:15 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

=====

Exp. RT = 12.714

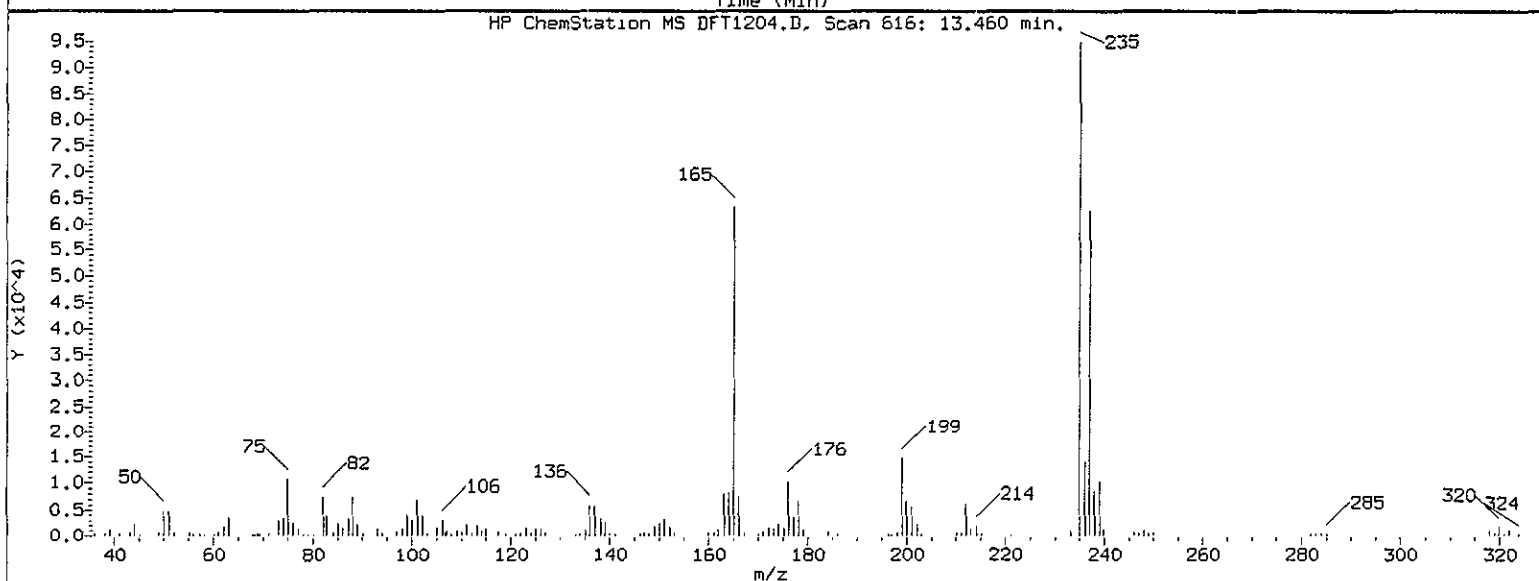
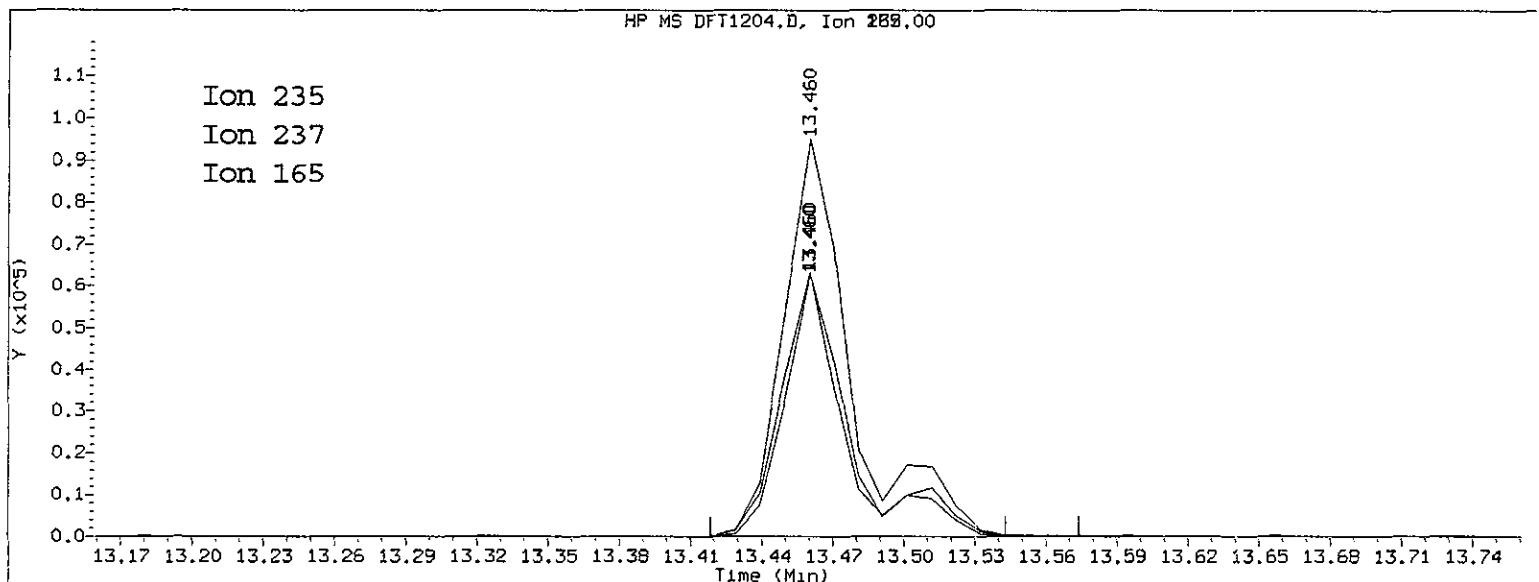
Found RT = 12.693

Mass	Area	Ratio
246	7573	100.00
248	5386	71.12
318	5062	66.85



Report Date: 12/06/2010 09:20

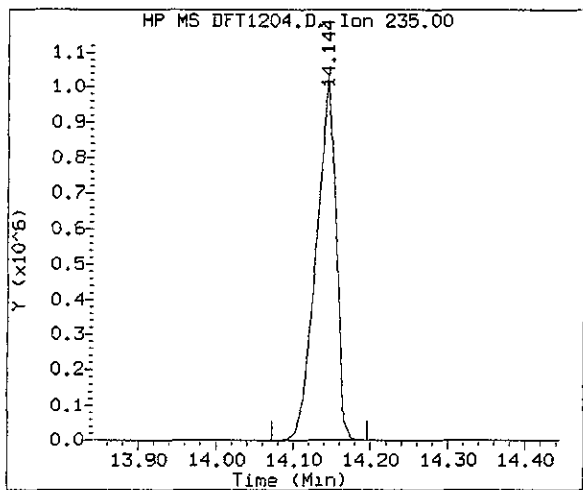
Datafile Analyzed: //SV5/C/chem/sv5.i/120410.B/DFT1204.D/DFT1204.D  
Method Used: \\SV5\C\chem\sv5.i\120410.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 04-DEC-2010 10:15 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



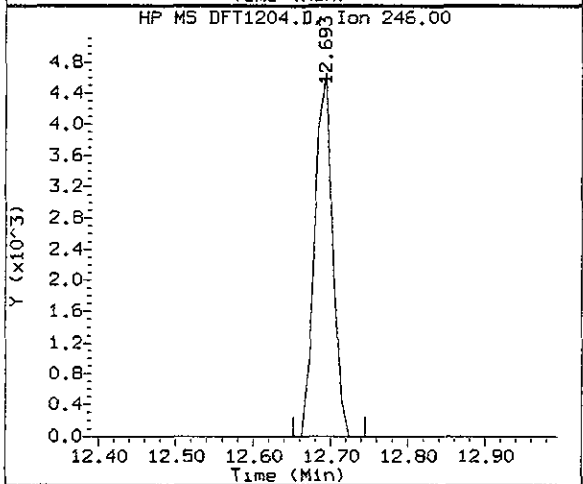
4,4'-DDD

=====  
Exp. RT = 13.491  
Found RT = 13.460

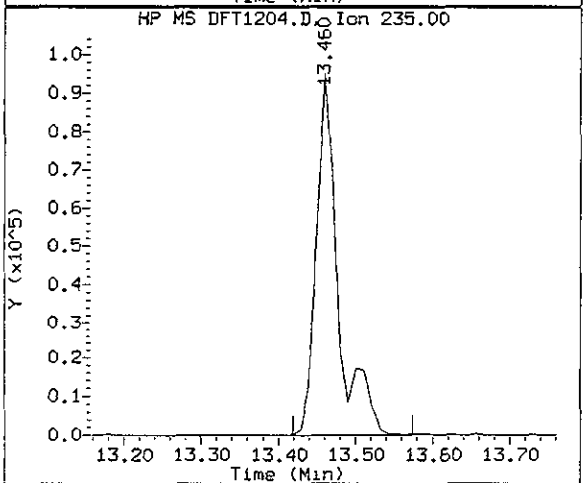
Mass	Area	Ratio
235	190198	100.00
237	120062	63.13
165	118067	62.08



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 14.144  
 Area: 1852497



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 12.693  
 Area: 7573



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 13.460  
 Area: 190198

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	197771	9.6	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\120410.B\DFT1204.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 04-DEC-2010 10:15  
 Operator : KT Inst ID: sv5.i  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\120410.B\DFTPP.M  
 Meth Date : 06-Dec-2010 17:52 onishim Quant Type: ISTD  
 Cal Date : Cal File:  
 Als bottle: 96 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	ON-COL		FINAL	TARGET RANGE	RATIO	
				RESPONSE	( ug/L)				
10.102	10.714	( 0.000)	198	602112			0.00- 100.00	91.18	
10.102	10.714	( 0.000)	51	242048			30.00- 60.00	40.20	
10.102	10.714	( 0.000)	68	4023			0.00- 2.00	1.72	
10.102	10.714	( 0.000)	69	233472			0.00- 0.00	38.78	
10.102	10.714	( 0.000)	70	965			0.00- 2.00	0.41	
10.102	10.714	( 0.000)	127	334016			40.00- 60.00	55.47	
10.102	10.714	( 0.000)	197	0	0.0	0.0	0.00- 1.00	0.00	
10.102	10.714	( 0.000)	199	41056			5.00- 9.00	6.82	
10.102	10.714	( 0.000)	275	145792			10.00- 30.00	24.21	
10.102	10.714	( 0.000)	365	20320			1.00- 0.00	3.37	
10.102	10.714	( 0.000)	441	96904			0.01- 99.99	77.40	
10.102	10.714	( 0.000)	442	660352			40.00- 0.00	109.67	
10.102	10.714	( 0.000)	443	125192			17.00- 23.00	18.96	

KT  
12/7/10

Date : 04-DEC-2010 10:15

Client ID:

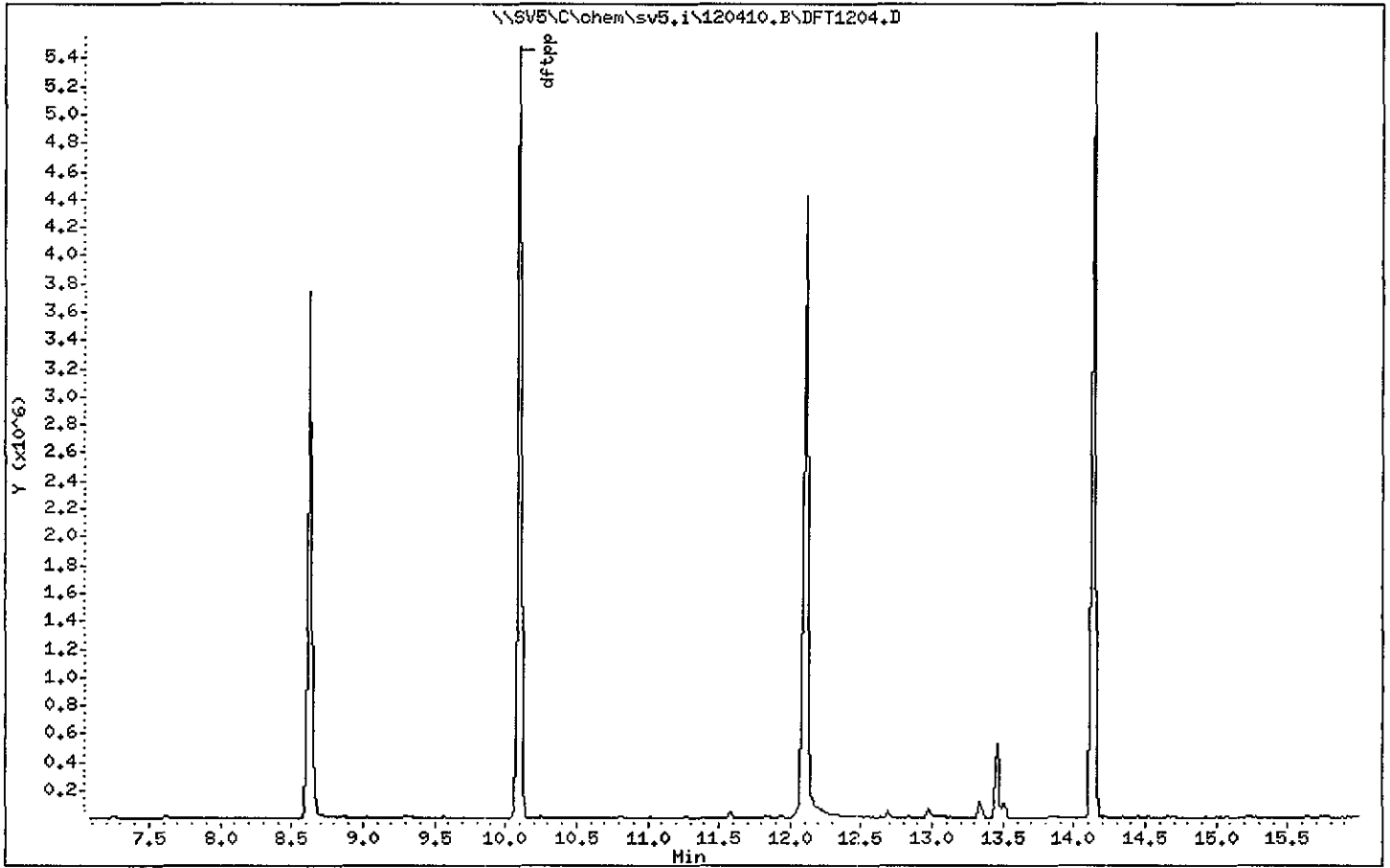
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2,00



Date : 04-DEC-2010 10:15

Client ID:

Instrument: sv5.i

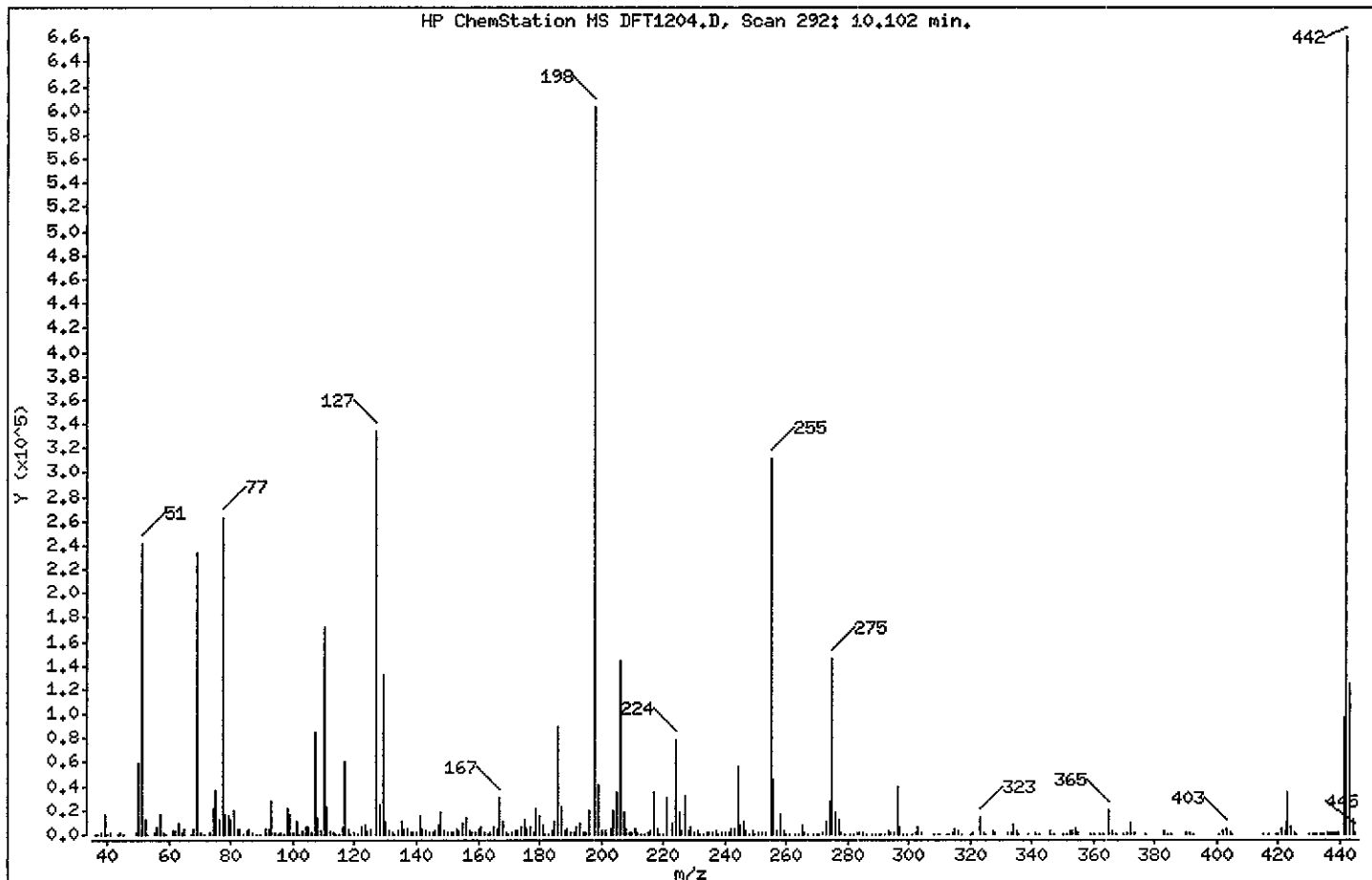
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.20
68	Less than 2.00% of mass 69	0.67 ( 1.72)
69	Mass 69 relative abundance	38.78
70	Less than 2.00% of mass 69	0.16 ( 0.41)
127	40.00 - 60.00% of mass 198	55.47
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	24.21
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	16.09
442	Greater than 40.00% of mass 198	109.67
443	17.00 - 23.00% of mass 442	20.79 ( 18.96)

Date : 04-DEC-2010 10:15

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1204.D  
 Spectrum: HP ChemStation MS DFT1204.D, Scan 292: 10.102 min.  
 Location of Maximum: 442.00  
 Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	282	131.00	2299	217.00	35008	312.20	230
37.00	643	132.10	878	218.00	4584	312.90	363
38.00	2051	133.10	594	219.00	478	314.10	1902
39.10	16247	134.00	2704	219.70	438	315.00	3980
40.00	603	135.00	10782	221.00	31120	316.10	2632
41.00	769	136.00	4073	223.10	8914	317.10	504
43.20	392	137.10	4366	224.10	78848	319.90	314
44.10	1875	138.10	1107	225.10	17672	321.00	1385
45.00	506	139.00	794	226.00	2319	322.10	605
49.10	1928	140.00	1381	227.00	32536	323.10	14145
50.00	59600	141.00	15300	228.00	3654	324.10	2152
51.10	242048	142.00	4763	229.00	6308	325.00	292
52.10	11898	143.00	3119	230.00	1058	326.10	456
53.00	429	144.00	820	231.00	3128	327.00	2717
55.10	1504	145.10	1046	232.10	707	328.00	1253
56.00	6801	146.00	3121	233.10	706	332.00	950
57.00	16760	147.00	8217	234.00	1965	333.00	1578
58.00	810	148.00	17856	235.00	2086	334.00	8020
59.00	456	149.00	3070	236.00	2025	335.00	2458
61.00	2995	150.00	961	237.00	2310	335.80	244
62.00	2955	151.10	2143	238.10	219	338.90	273
63.00	9626	151.60	1146	239.10	1084	341.00	1467
64.00	1222	152.10	1063	240.00	944	342.10	549
65.00	4996	153.00	4760	241.10	2197	346.00	3223
67.10	580	154.00	3725	242.00	4221	347.00	590
68.10	4023	155.10	8778	243.10	4413	349.90	237
69.00	233472	156.10	13502	244.10	56384	351.00	499
70.00	965	157.10	2299	245.10	7252	352.10	3540
71.20	345	158.00	2175	246.00	11214	353.00	3314
73.00	1705	159.00	1919	247.00	2453	354.00	5039
74.10	21304	160.00	4173	248.00	696	355.00	770
75.00	36288	161.00	6612	249.00	2312	359.00	639
76.10	11418	162.00	1584	250.00	753	359.90	247
77.10	263040	163.00	544	251.10	1024	361.70	243
78.10	16904	164.00	791	252.20	800	362.10	221

Date : 04-DEC-2010 10:15

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1204.D

Spectrum: HP ChemStation MS DFT1204.D, Scan 292: 10.102 min.

Location of Maximum: 442.00

Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	14886	165.00	5326	253.10	2145	363.10	258
80.00	11539	166.10	4123	255.00	311232	365.00	20320
81.00	18976	167.00	30456	256.00	45088	366.00	2478
82.10	3990	168.00	10141	257.00	3426	367.00	219
83.00	4602	169.00	1942	258.00	17328	369.90	363
84.10	492	170.10	678	259.00	2798	371.00	1013
85.10	3609	171.10	1130	260.00	379	372.00	8795
86.00	4578	172.00	2700	260.90	614	373.10	2196
86.90	2167	173.00	3318	263.00	275	377.10	250
88.10	740	174.00	5695	263.90	367	383.00	2334
89.10	390	175.10	11501	265.00	7260	384.00	562
91.10	3952	176.00	4423	266.00	1136	385.10	343
92.00	4634	177.00	5885	267.00	285	390.00	1301
93.00	27936	178.00	1773	269.00	228	391.00	1006
94.10	1829	179.00	21016	270.00	307	392.10	493
95.10	323	180.00	14497	270.90	626	400.90	581
96.00	1135	181.00	7240	272.10	1148	402.00	3325
97.10	651	182.00	718	273.00	10518	403.00	4794
98.00	20656	182.90	645	274.00	27240	404.00	1537
99.00	16022	184.10	2499	275.00	145792	405.00	386
100.00	1745	185.00	11060	276.00	18888	415.00	273
101.00	11080	186.00	89032	277.00	11943	417.00	224
102.10	738	187.10	23264	278.00	1987	419.10	233
103.00	3020	188.10	2652	279.00	334	419.60	227
104.00	6559	189.00	4982	281.00	287	421.00	4715
105.00	5539	190.00	768	282.10	374	422.10	3771
106.00	2181	191.00	2137	283.00	1339	423.00	35624
107.00	84768	192.00	6389	284.00	983	424.00	6651
108.00	13676	193.00	8395	285.10	2122	424.90	957
109.10	2829	194.10	2210	286.10	379	425.60	303
110.00	171456	195.10	1405	287.90	227	429.90	366
111.00	23344	196.10	20304	289.00	514	431.30	390
112.00	3077	198.00	602112	290.10	359	431.70	340
113.00	1269	199.00	41056	291.00	300	432.40	366
114.00	388	200.00	3296	292.00	493	433.20	577

Date : 04-DEC-2010 10:15

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1204.D  
 Spectrum: HP ChemStation MS DFT1204.D, Scan 292: 10.102 min.  
 Location of Maximum: 442.00  
 Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.90	452	201.60	2731	293.00	2809	433.80	408
116.00	5524	203.10	3879	294.00	949	434.50	281
117.00	60416	204.00	19928	295.10	1820	436.00	1026
118.10	4647	205.00	34544	296.00	39752	436.60	916
118.80	450	206.10	144320	297.00	6569	437.10	913
120.00	1298	207.10	18832	298.10	323	437.50	770
121.10	691	208.00	5234	299.10	284	438.20	1061
122.00	6433	209.00	1417	301.00	284	439.10	1171
123.10	8001	210.00	2055	302.10	896	439.70	1680
124.00	3774	211.10	5005	303.00	5368	441.00	96904
125.00	3919	211.70	1342	304.00	1186	442.00	660352
127.00	334016	213.00	234	305.10	218	443.00	125192
128.00	23536	214.20	462	308.00	716	444.00	11472
129.00	131520	215.00	1617	309.10	352	445.00	808
130.00	9935	216.00	3149	310.00	450		



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\120410.B\S120401.D  
 Lab Smp Id: MALNT1AA GOK290000- Client Smp ID: 0333259  
 Inj Date : 04-DEC-2010 11:00  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MALNT1AA GOK290000-259B;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.542	3.542	(1.000)	92992	40.0000	(Q)
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	398163	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	211707	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	364403	40.0000	
* 5 Chrysene-d12	240		13.180	13.190	(1.000)	367318	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	381925	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	224112	68.3730	68.37
\$ 8 Phenol-d5	99		3.231	3.231	(0.912)	313826	76.1385	76.14
\$ 10 1,2-Dichlorobenzene-d4	152		3.739	3.739	(1.056)	74268	32.4283	32.43 (q)
\$ 11 Nitrobenzene-d5	82		4.164	4.174	(0.841)	125990	37.3593	37.36
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	276940	40.6086	40.61
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	95756	104.089	104.1
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	328660	45.4252	45.42
108 Hexachlorobenzene	284		Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 q - Qualifier signal exceeded ratio warning limit.

12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120401.D  
 Lab Smp Id: MALNT1AA GOK290000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Client Smp ID: 0333259  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	92992	-24.17
2 Naphthalene-d8	530514	265257	1061028	398163	-24.95
3 Acenaphthene-d10	282538	141269	565076	211707	-25.07
4 Phenanthrene-d10	462722	231361	925444	364403	-21.25
5 Chrysene-d12	435850	217925	871700	367318	-15.72
6 Perylene-d12	422284	211142	844568	381925	-9.56

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	0.00
5 Chrysene-d12	13.19	12.69	13.69	13.18	-0.08
6 Perylene-d12	15.54	15.04	16.04	15.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: MALNT1AA GOK290000- Client Smp ID: 0333259  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	68.37	68.37	41-105
\$ 8 Phenol-d5	100.0	76.14	76.14	43-122
\$ 10 1,2-Dichlorobenzen	50.00	32.43	64.86	60-120
\$ 11 Nitrobenzene-d5	50.00	37.36	74.72	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.61	81.22	58-105
\$ 13 2,4,6-Tribromophen	100.0	104.1	104.09	61-118
\$ 14 Terphenyl-d14	50.00	45.42	90.85	69-110

Data File: \\SV5\chem\sv5.1\120410.B\S120401.D

Date : 04-DEC-2010 11:00

Client ID: 0333259

Sample Info: HPLNT1A4 GOK290000-259B;0;11000;11000;5

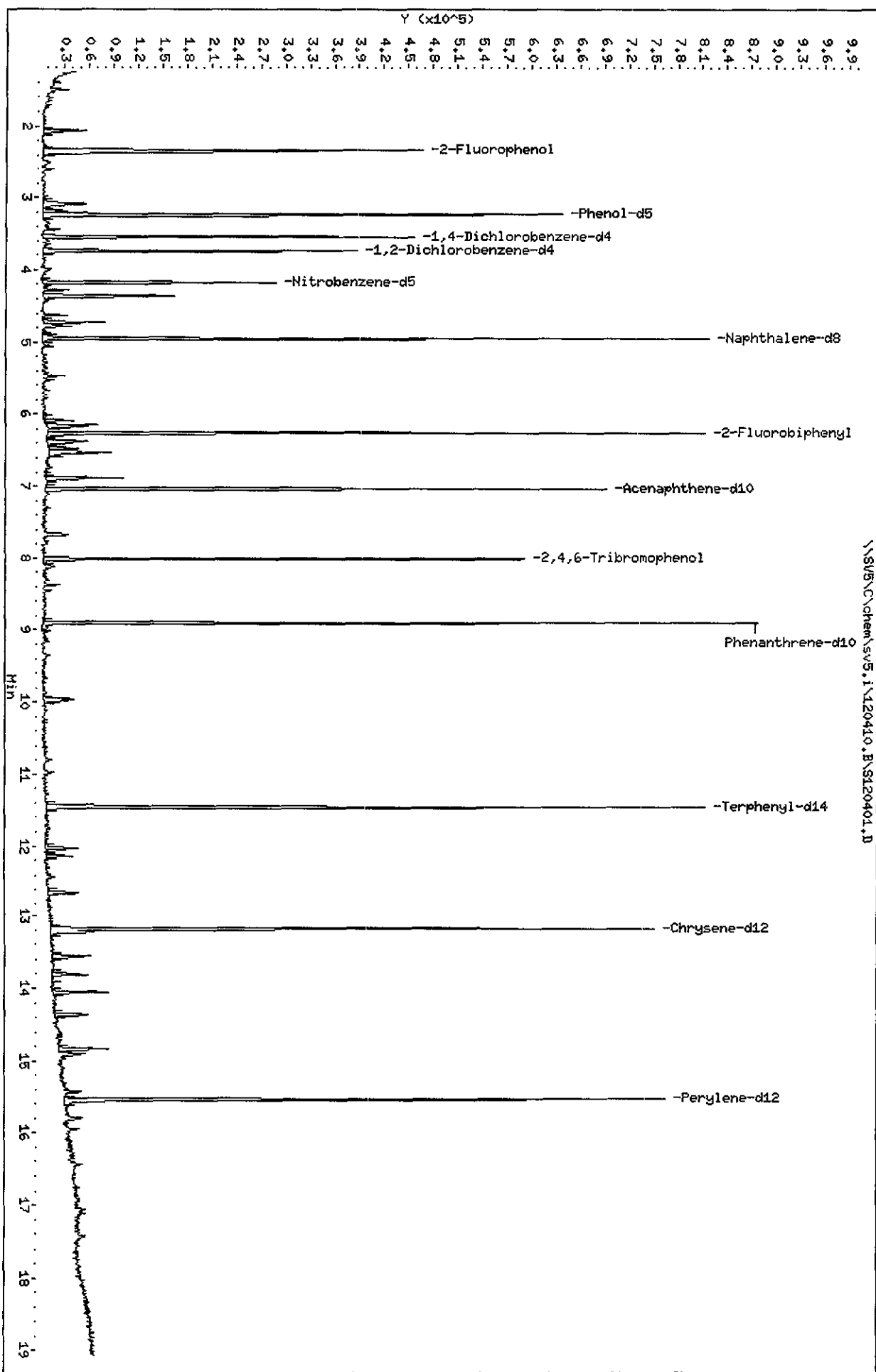
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120402.D  
 Lab Smp Id: MALNT1AC G0K290000-  
 Inj Date : 04-DEC-2010 11:25  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MALNT1AC G0K290000-259C;3;LCS;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 2 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	109173	40.0000	
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	480655	40.0000	
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	273170	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	457745	40.0000	
* 5 Chrysene-d12	240	13.190	13.190	(1.000)	453496	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	449517	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	294060	76.4163	76.42
\$ 8 Phenol-d5	99	3.242	3.231	(0.915)	407728	84.2590	84.26
\$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
\$ 11 Nitrobenzene-d5	82	4.174	4.174	(0.843)	174096	42.7640	42.76
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	381202	43.3201	43.32
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	124056	104.510	104.5
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	406284	45.4830	45.48
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	238942	95.7505	95.75

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TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120402.D  
 Lab Smp Id: MALNT1AC.GOK290000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	109173	-10.97
2 Naphthalene-d8	530514	265257	1061028	480655	-9.40
3 Acenaphthene-d10	282538	141269	565076	273170	-3.32
4 Phenanthrene-d10	462722	231361	925444	457745	-1.08
5 Chrysene-d12	435850	217925	871700	453496	4.05
6 Perylene-d12	422284	211142	844568	449517	6.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	0.00
5 Chrysene-d12	13.19	12.69	13.69	13.19	0.00
6 Perylene-d12	15.54	15.04	16.04	15.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: MALNT1AC G0K290000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	95.75	95.75	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	76.42	76.42	41-105
\$ 8 Phenol-d5	100.0	84.26	84.26	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.76	85.53	46-118
\$ 12 2-Fluorobiphenyl	50.00	43.32	86.64	58-105
\$ 13 2,4,6-Tribromophen	100.0	104.5	104.51	61-118
\$ 14 Terphenyl-d14	50.00	45.48	90.97	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\S120402.D  
 Lab Smp Id: MALNT1AC GOK290000-  
 Inj Date : 04-DEC-2010 11:25  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MALNT1AC GOK290000-259C;3;LCS;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Meth Date : 06-Dec-2010 09:27 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 2 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	109173	40.0000	
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	480655	40.0000	
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	273170	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	457745	40.0000	
* 5 Chrysene-d12	240	13.190	13.190	(1.000)	453496	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	449517	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	294060	76.4163	76.42
\$ 8 Phenol-d5	99	3.242	3.231	(0.915)	407728	84.2590	84.26
\$ 10 1,2-Dichlorobenzene-d4	152	3.542	3.739	(1.000)	109173	40.6039	40.60 (qR)
\$ 11 Nitrobenzene-d5	82	4.174	4.174	(0.843)	174096	42.7640	42.76
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	381202	43.3201	43.32
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	124056	104.510	104.5
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	406284	45.4830	45.48
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	238942	95.7505	95.75

QC Flag Legend

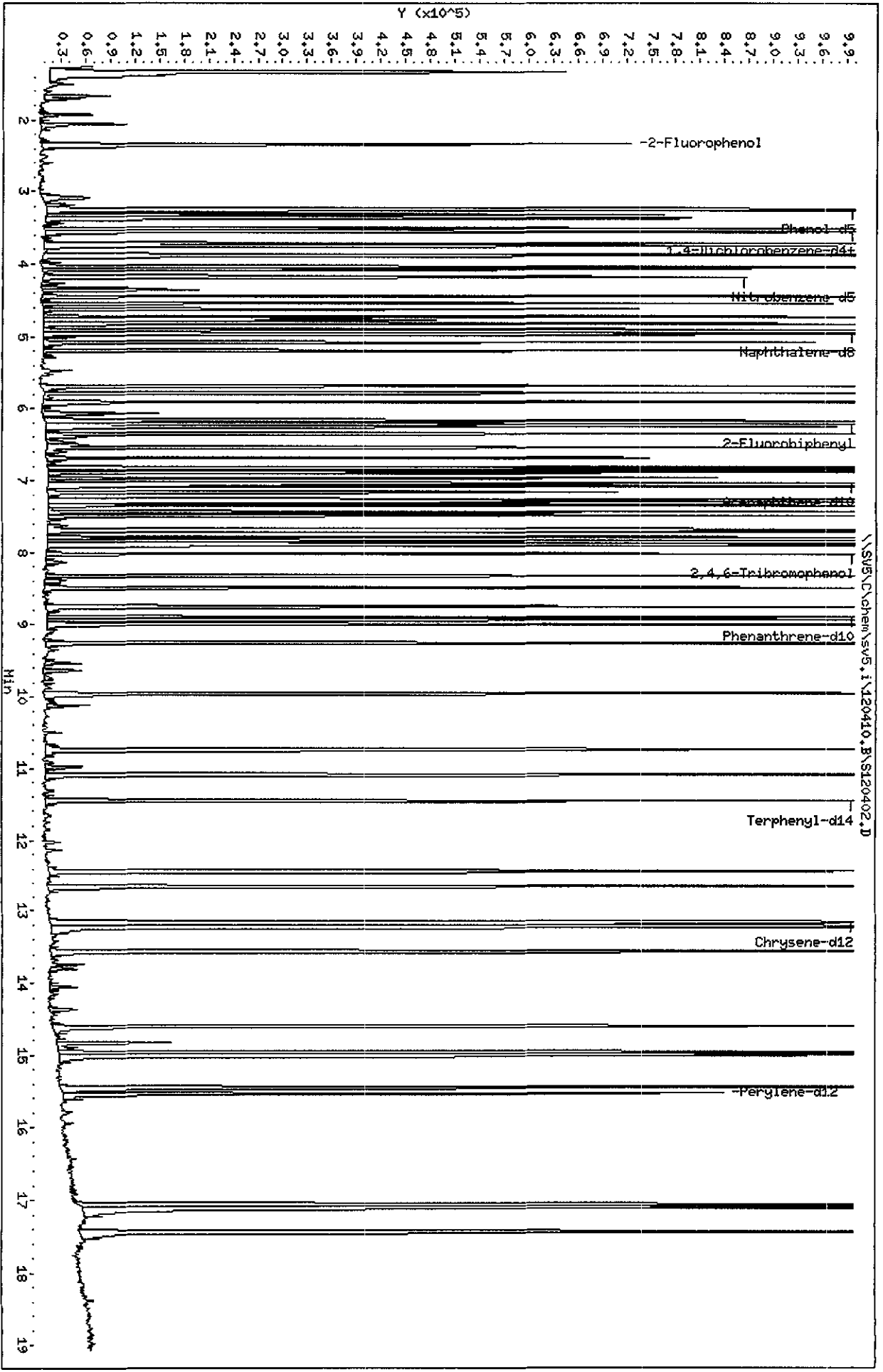
R - Spike/Surrogate failed recovery limits.  
 q - Qualifier signal exceeded ratio warning limit.



Data File: \\SV5\C\chem\sv5.1\120410.B\SI20402.D  
Date : 04-DEC-2010 11:25

Client ID:  
Sample Info: HALNTIAC GOK290000-259C;3;LCS;1000;1000;2  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i  
Operator: KT  
Column diameter: 2.00



Date : 04-DEC-2010 11:25

Client ID:

Instrument: sv5.i

Sample Info: MALNT1AC GOK290000-259C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

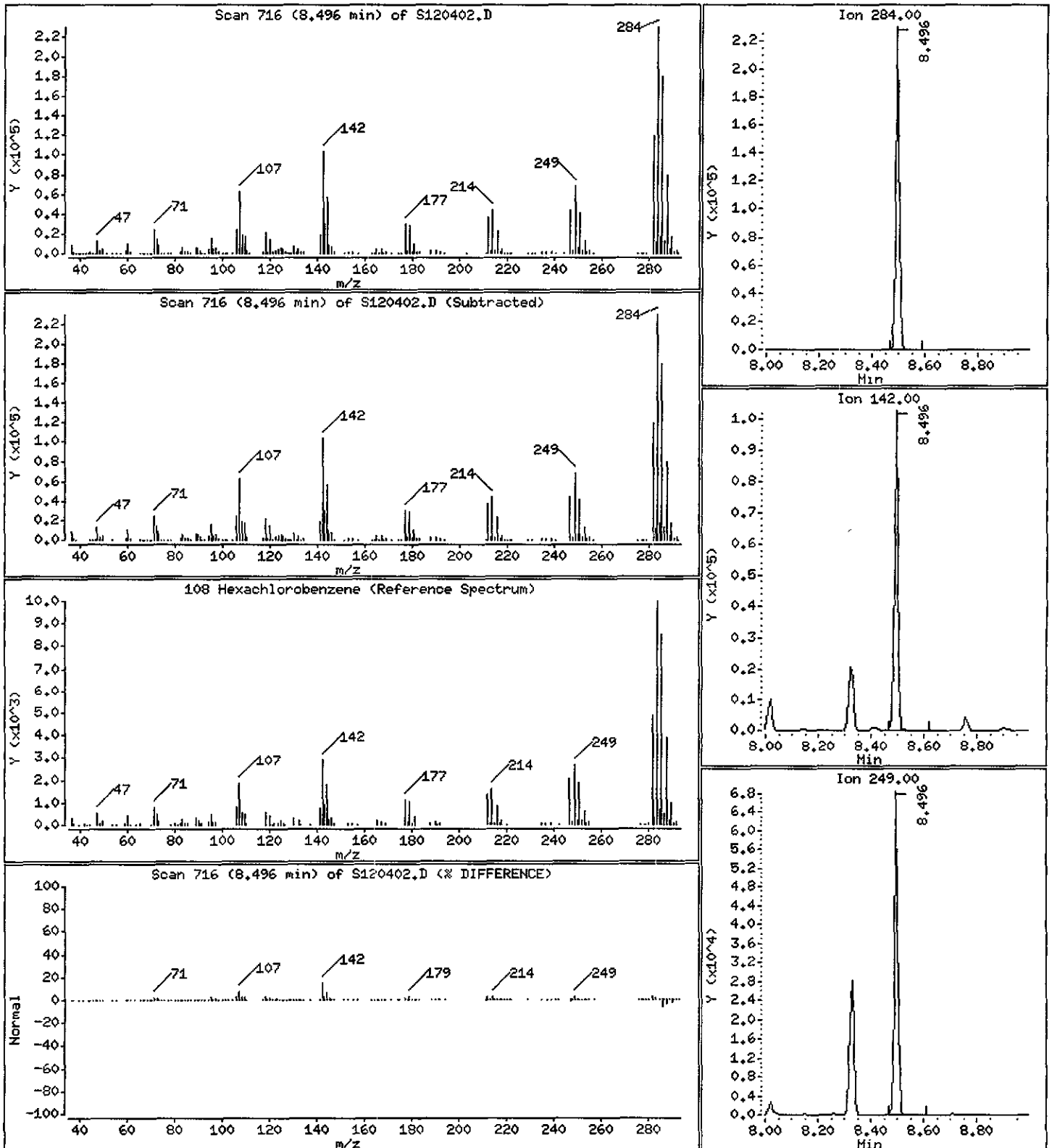
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 95.75 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120403.D  
 Lab Smp Id: MALNT1AD G0K290000-  
 Inj Date : 04-DEC-2010 11:49  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MALNT1AD G0K290000-259L;3;LCSD;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 QC Sample: LCSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN ( NG)	FINAL ( ug/L)
			RT	EXP RT	REL RT	RESPONSE		
* 1 1,4-Dichlorobenzene-d4	152		3.542	3.542	(1.000)	102713	40.0000	
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	430796	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	236179	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	365677	40.0000	
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	363411	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	362551	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	275728	76.1589	
\$ 8 Phenol-d5	99		3.231	3.231	(0.912)	378621	83.1649	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.					
\$ 11 Nitrobenzene-d5	82		4.174	4.174	(0.843)	156857	42.9888	
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	339574	44.6335	
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	104614	101.935	
\$ 14 Terphenyl-d14	244		11.459	11.460	(0.869)	320301	44.7458	
108 Hexachlorobenzene	284		8.496	8.496	(0.955)	201002	100.827	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

*Handwritten:* 12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120403.D  
 Lab Smp Id: MALNT1AD GOK290000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	102713	-16.24
2 Naphthalene-d8	530514	265257	1061028	430796	-18.80
3 Acenaphthene-d10	282538	141269	565076	236179	-16.41
4 Phenanthrene-d10	462722	231361	925444	365677	-20.97
5 Chrysene-d12	435850	217925	871700	363411	-16.62
6 Perylene-d12	422284	211142	844568	362551	-14.15

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	-0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	-0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	-0.00
5 Chrysene-d12	13.19	12.69	13.69	13.19	-0.00
6 Perylene-d12	15.54	15.04	16.04	15.54	-0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: MALNT1AD GOK290000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCSD  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	100.8	100.83*	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	76.16	76.16	41-105
\$ 8 Phenol-d5	100.0	83.16	83.16	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.99	85.98	46-118
\$ 12 2-Fluorobiphenyl	50.00	44.63	89.27	58-105
\$ 13 2,4,6-Tribromophen	100.0	101.9	101.93	61-118
\$ 14 Terphenyl-d14	50.00	44.74	89.49	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\S120403.D  
 Lab Smp Id: MALNT1AD GOK290000-  
 Inj Date : 04-DEC-2010 11:49  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MALNT1AD GOK290000-259L;3;LCSD;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Meth Date : 06-Dec-2010 09:27 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 QC Sample: LCSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.542	3.542	(1.000)	102713	40.0000	
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	430796	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	236179	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	365677	40.0000	
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	363411	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	362551	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	275728	76.1589	76.16
\$ 8 Phenol-d5	99		3.231	3.231	(0.912)	378621	83.1649	83.16
\$ 10 1,2-Dichlorobenzene-d4	152		3.542	3.739	(1.000)	102715	40.6047	40.60 (qR)
\$ 11 Nitrobenzene-d5	82		4.174	4.174	(0.843)	156857	42.9888	42.99
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	339574	44.6335	44.63
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	104614	101.935	101.9
\$ 14 Terphenyl-d14	244		11.459	11.460	(0.869)	320301	44.7458	44.74
108 Hexachlorobenzene	284		8.496	8.496	(0.955)	201002	100.827	100.8 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 q - Qualifier signal exceeded ratio warning limit.

Data File: \\SV5\Chem\sv5.1\120410.B\SI20403.D  
Date: 04-DEC-2010 11:49

Client ID:

Sample Info: MALNT1AD GOK290000-259L;3;LCSD;11000;11000;2

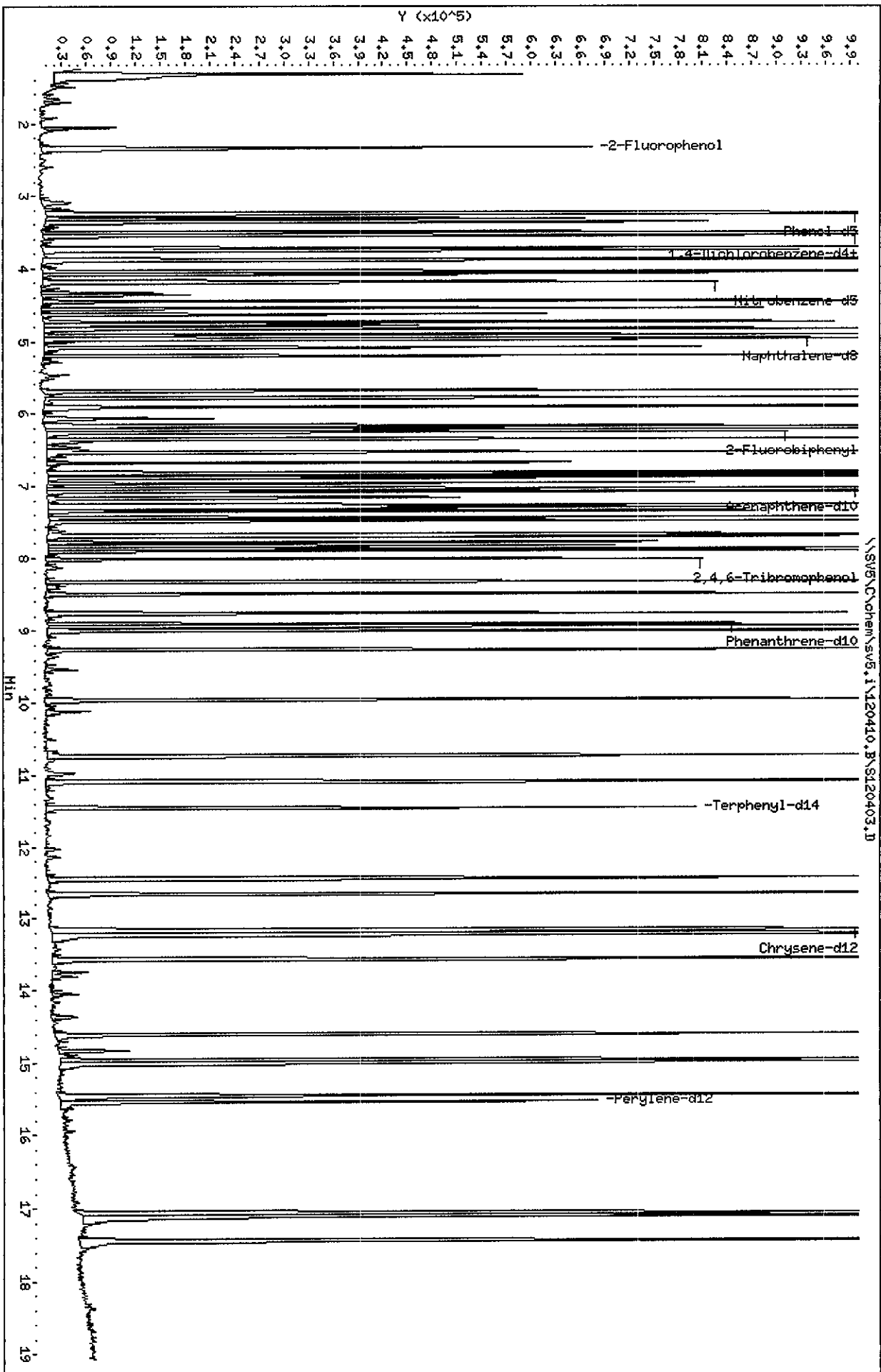
Volume Injected (ul): 1.0

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



Date : 04-DEC-2010 11:49

Client ID:

Instrument: sv5.i

Sample Info: MALNT1AD GOK290000-259L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

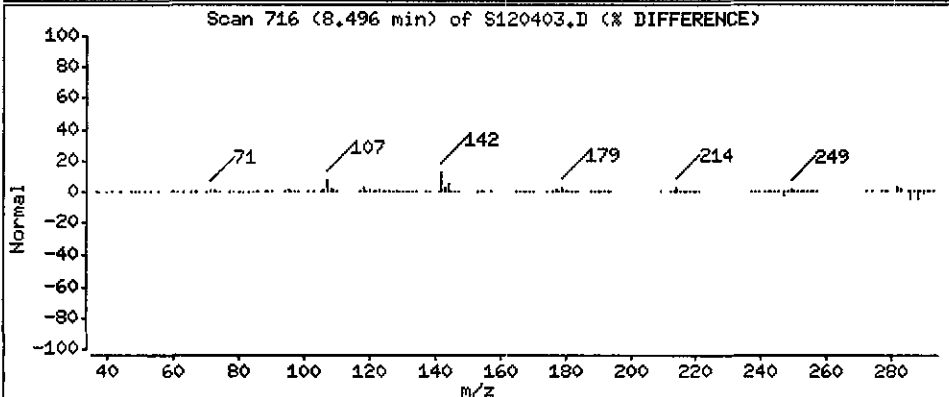
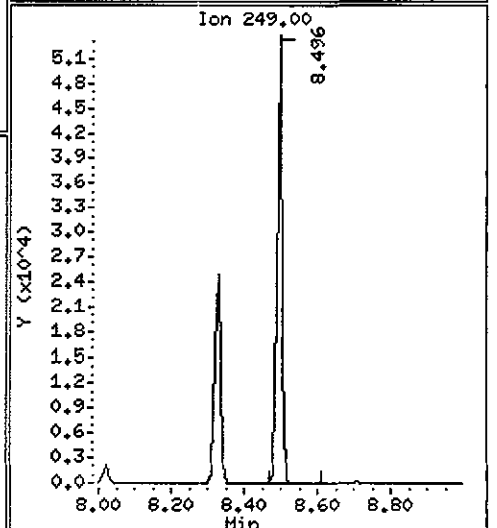
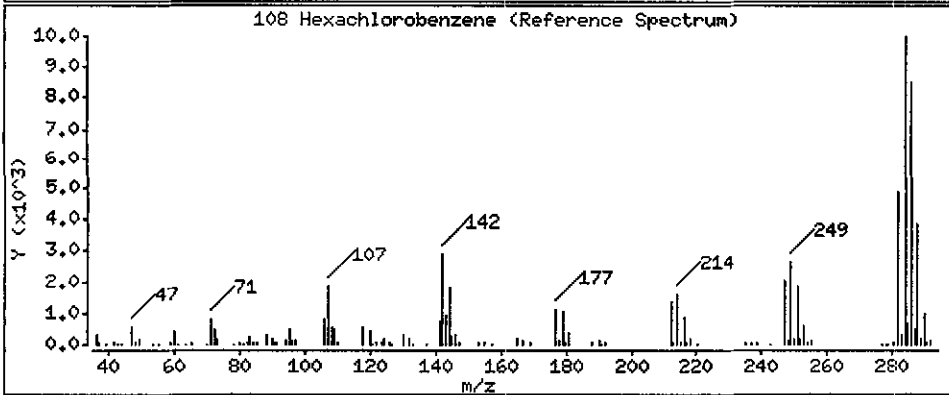
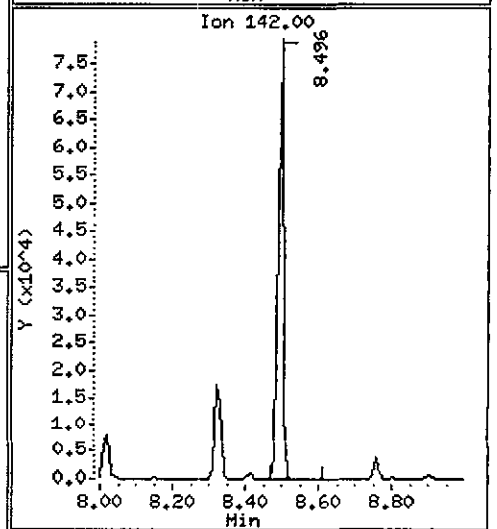
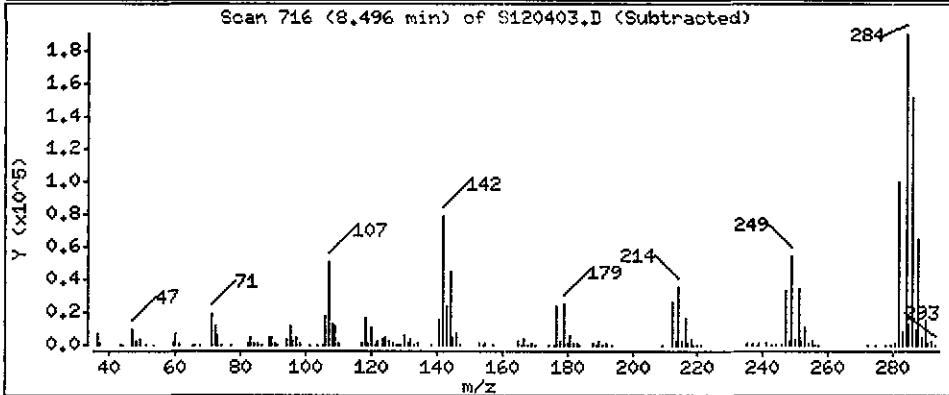
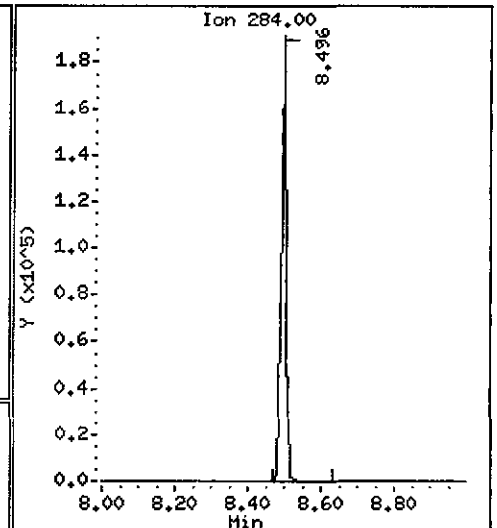
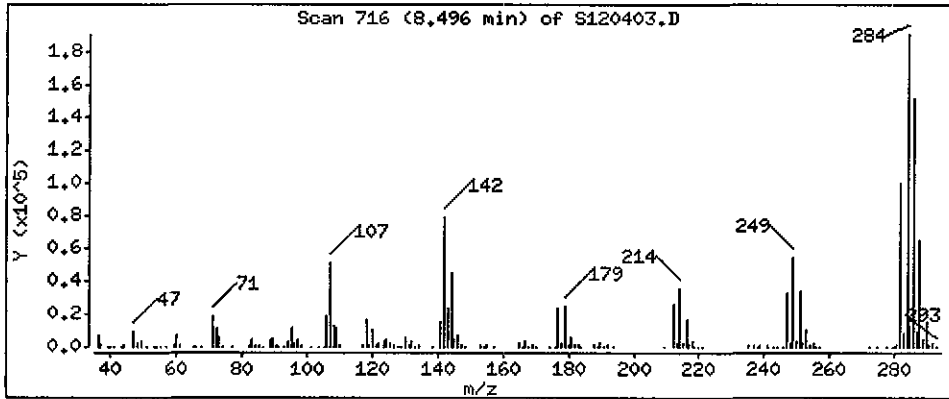
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 100.8 ug/L





TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\120410.B\S120406.D  
 Lab Smp Id: MAK001AA GOK270427- Client Smp ID: 0333259  
 Inj Date : 04-DEC-2010 13:03  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MAK001AA GOK270427-1;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	81705	40.0000	(Q)
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	350866	40.0000	
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	183785	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	316506	40.0000	
* 5 Chrysene-d12	240	13.180	13.190	(1.000)	326571	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	346494	40.0000	
§ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	206149	71.5810	71.58
§ 8 Phenol-d5	99	3.231	3.231	(0.912)	292124	80.6640	80.66
§ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	71243	35.4047	35.40(q)
§ 11 Nitrobenzene-d5	82	4.164	4.174	(0.841)	115349	38.8147	38.81
§ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	257876	43.5581	43.56
§ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	88558	110.890	110.9
§ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	294541	45.7889	45.79
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 q - Qualifier signal exceeded ratio warning limit.

*by*  
 12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120406.D  
 Lab Smp Id: MAK001AA GOK270427-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHC.B.SUB;;0;0333259;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Client Smp ID: 0333259  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	81705	-33.37
2 Naphthalene-d8	530514	265257	1061028	350866	-33.86
3 Acenaphthene-d10	282538	141269	565076	183785	-34.95
4 Phenanthrene-d10	462722	231361	925444	316506	-31.60
5 Chrysene-d12	435850	217925	871700	326571	-25.07
6 Perylene-d12	422284	211142	844568	346494	-17.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	0.00
5 Chrysene-d12	13.19	12.69	13.69	13.18	-0.08
6 Perylene-d12	15.54	15.04	16.04	15.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: MAK001AA G0K270427- Client Smp ID: 0333259  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	71.58	71.58	41-105
\$ 8 Phenol-d5	100.0	80.66	80.66	43-122
\$ 10 1,2-Dichlorobenzen	50.00	35.40	70.81	60-120
\$ 11 Nitrobenzene-d5	50.00	38.81	77.63	46-118
\$ 12 2-Fluorobiphenyl	50.00	43.56	87.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	110.9	110.89	61-118
\$ 14 Terphenyl-d14	50.00	45.79	91.58	69-110

Data File: \\SV5\chem\sv5.i\120410.B\S120406.D

Date: 04-DEC-2010 13:03

Client ID: 0333259

Sample Info: HMK001A GKKZ70427-1;0;11000;1000;5

Volume Injected (uL): 1.0

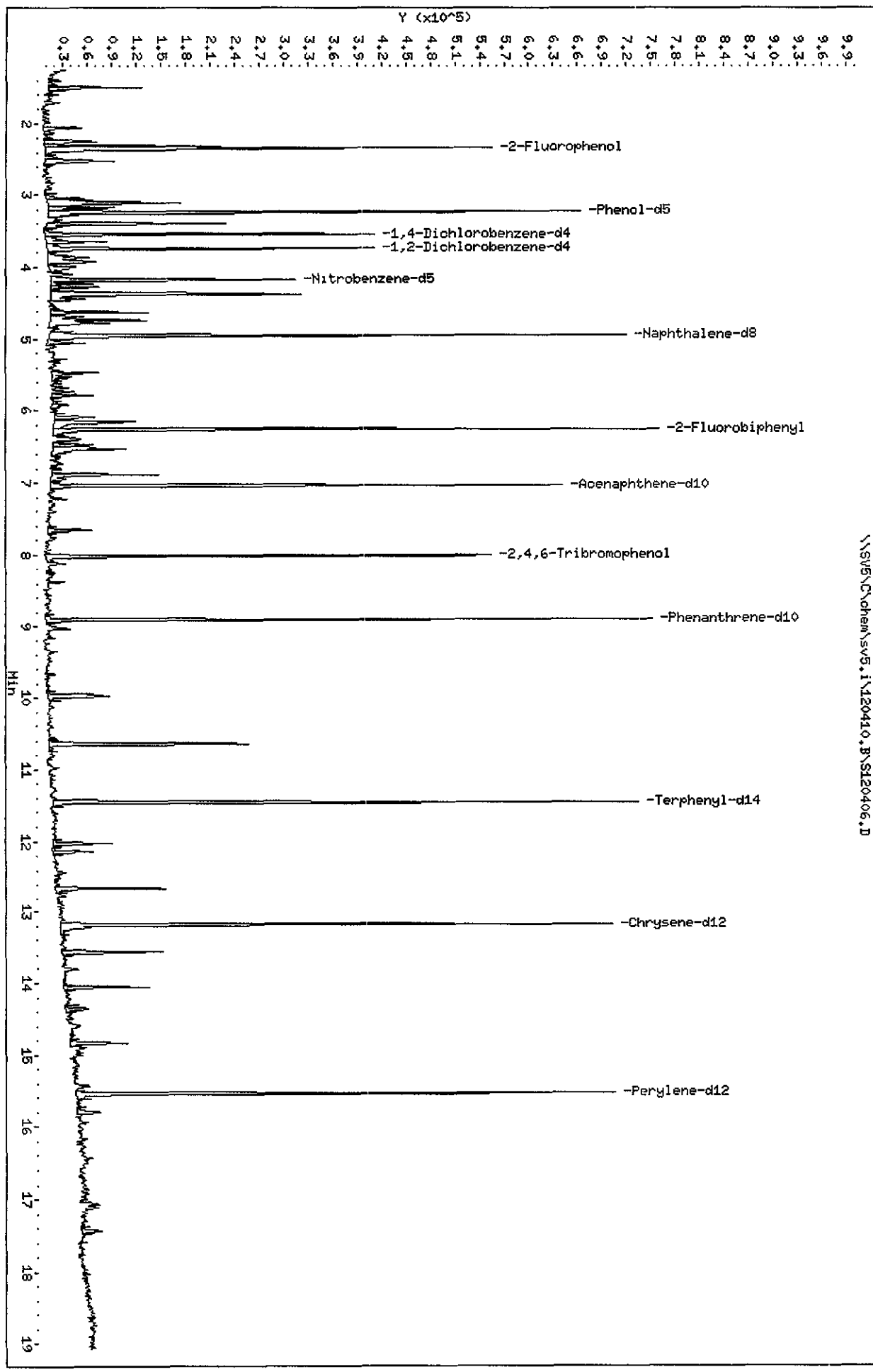
Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00

\\SV5\chem\sv5.i\120410.B\S120406.D



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\120410.B\S120407.D  
 Lab Smp Id: MAK011AA GOK270427- Client Smp ID: 0333259  
 Inj Date : 04-DEC-2010 13:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MAK011AA GOK270427-2;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	127050	40.0000	(Q)
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	566097	40.0000	
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	304247	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	488035	40.0000	
* 5 Chrysene-d12	240	13.180	13.190	(1.000)	483446	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	508088	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	291825	65.1648	65.16
\$ 8 Phenol-d5	99	3.231	3.231	(0.912)	419654	74.5208	74.52
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	97648	31.2073	31.21(q)
\$ 11 Nitrobenzene-d5	82	4.164	4.174	(0.841)	163368	34.0722	34.07
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	354443	36.1649	36.16
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	136726	103.418	103.4
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	419883	44.0933	44.09
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	12162	4.57116	4.571

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 q - Qualifier signal exceeded ratio warning limit.

*Handwritten signature*  
 12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120407.D  
 Lab Smp Id: MAK011AA G0K270427-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Client Smp ID: 0333259  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	127050	3.61
2 Naphthalene-d8	530514	265257	1061028	566097	6.71
3 Acenaphthene-d10	282538	141269	565076	304247	7.68
4 Phenanthrene-d10	462722	231361	925444	488035	5.47
5 Chrysene-d12	435850	217925	871700	483446	10.92
6 Perylene-d12	422284	211142	844568	508088	20.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	-0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	-0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	-0.00
5 Chrysene-d12	13.19	12.69	13.69	13.18	-0.08
6 Perylene-d12	15.54	15.04	16.04	15.54	-0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
Sample Matrix: GAS Fraction: SV  
Lab Smp Id: MAK011AA G0K270427- Client Smp ID: 0333259  
Level: LOW Operator: KT  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: Quant Type: ISTD  
Sublist File: S11JZHCB.SUB  
Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.16	65.16	41-105
\$ 8 Phenol-d5	100.0	74.52	74.52	43-122
\$ 10 1,2-Dichlorobenzen	50.00	31.21	62.41	60-120
\$ 11 Nitrobenzene-d5	50.00	34.07	68.14	46-118
\$ 12 2-Fluorobiphenyl	50.00	36.16	72.33	58-105
\$ 13 2,4,6-Tribromophen	100.0	103.4	103.42	61-118
\$ 14 Terphenyl-d14	50.00	44.09	88.19	69-110

Data File: \\SV5\Chem\sv5.i\120410.B\S120407.D

Date : 04-DEC-2010 13:27

Client ID: 0333259

Instrument: sv5.i

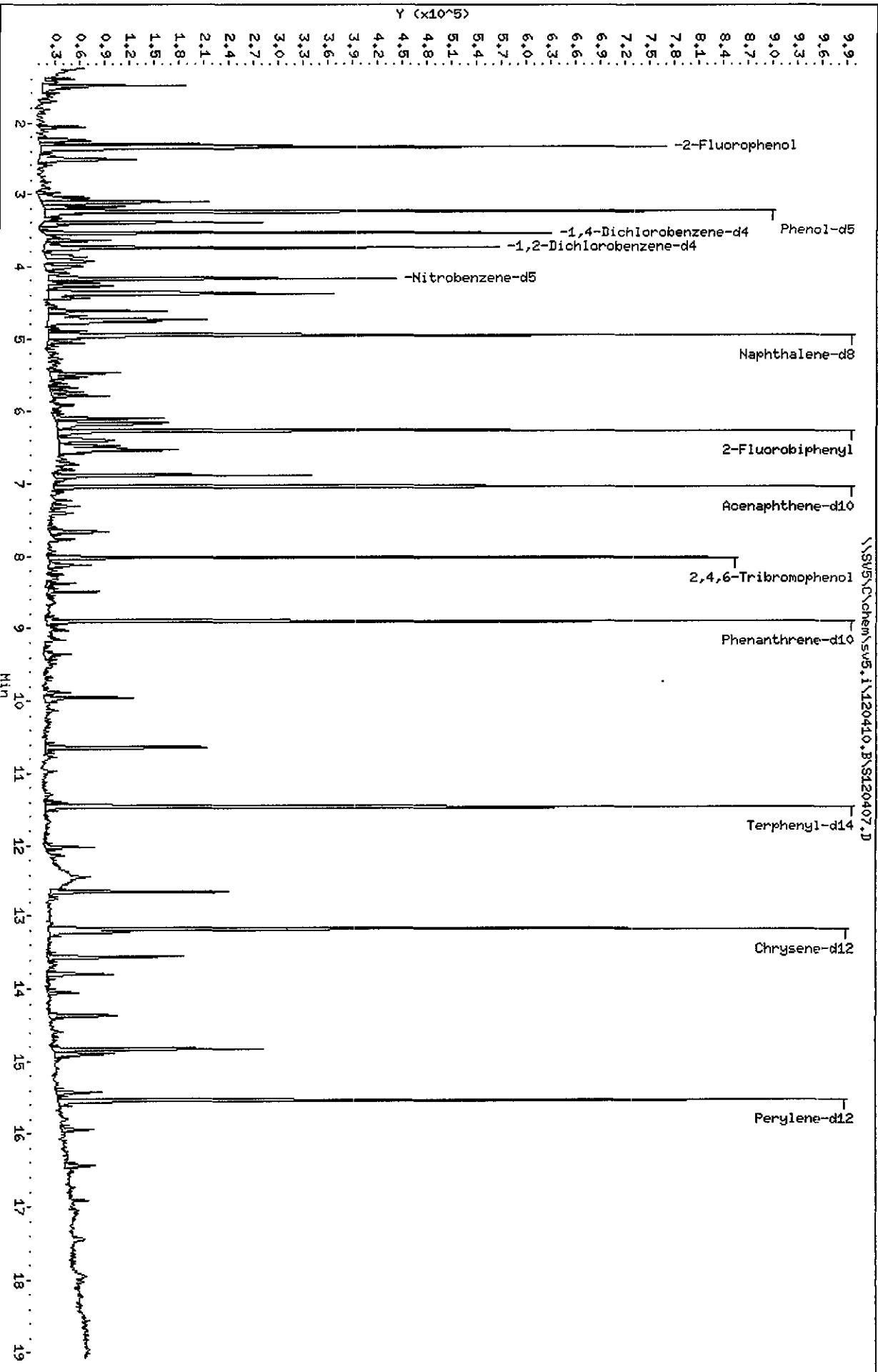
Sample Info: HAK011A GOK270427-2;0;1000;1000;5

Volume Injected (uL): 1.0

Operator: KT

Column phase:

Column diameter: 2.00





Date : 04-DEC-2010 13:27

Client ID: 0333259

Instrument: sv5.i

Sample Info: MAK011AA GOK270427-2;0;;1000;;1000;5

Volume Injected (uL): 1.0

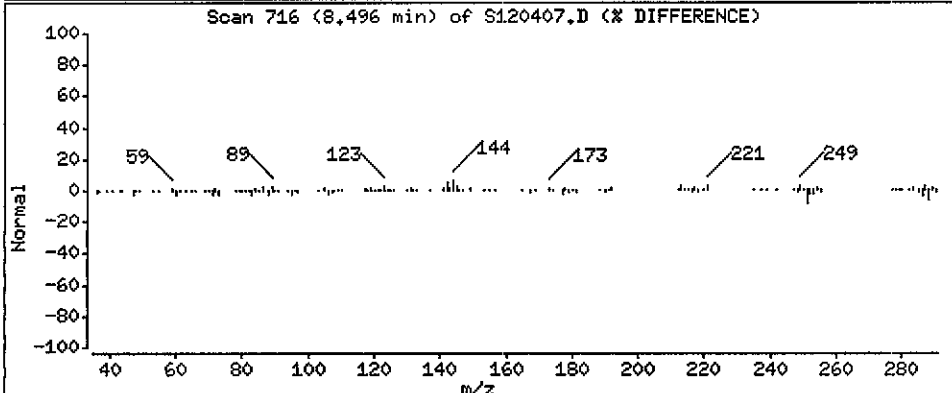
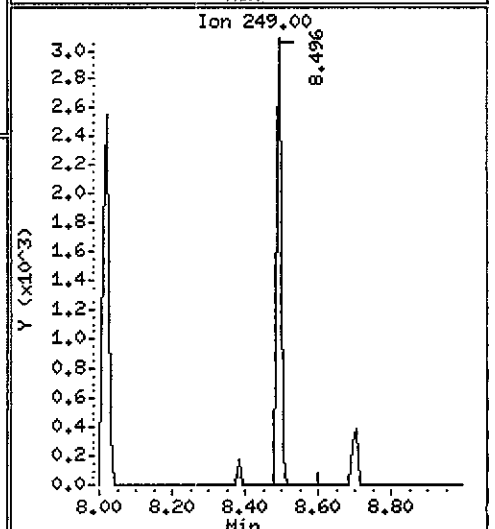
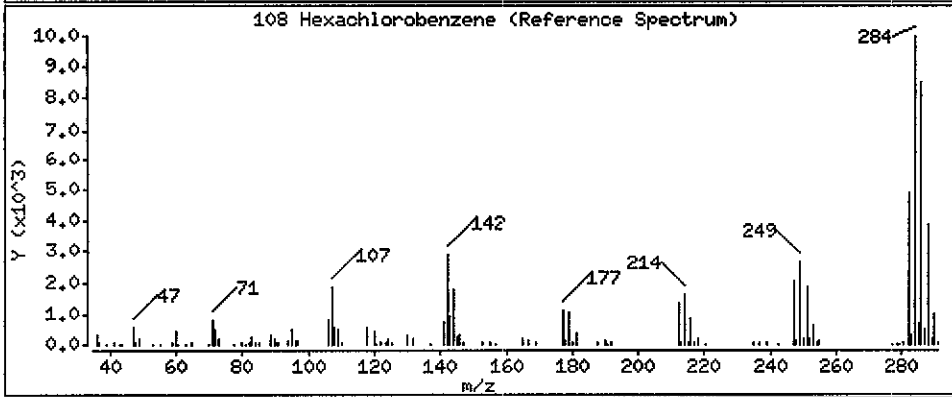
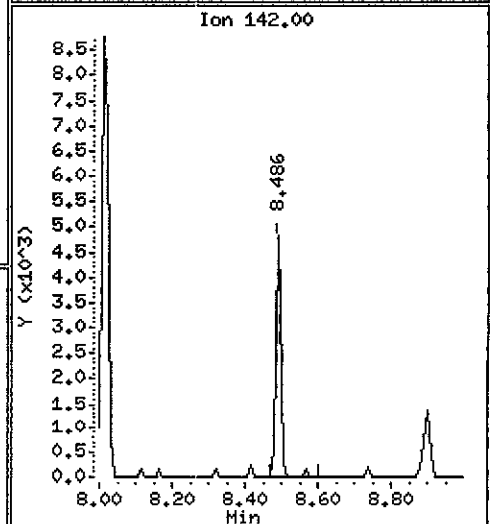
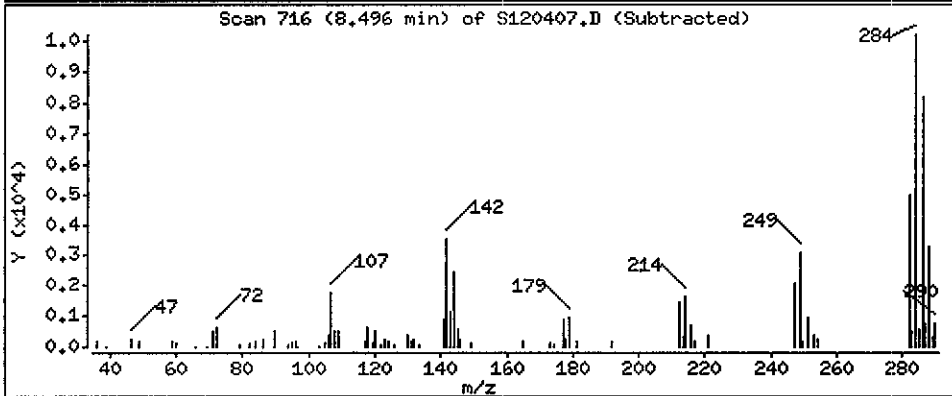
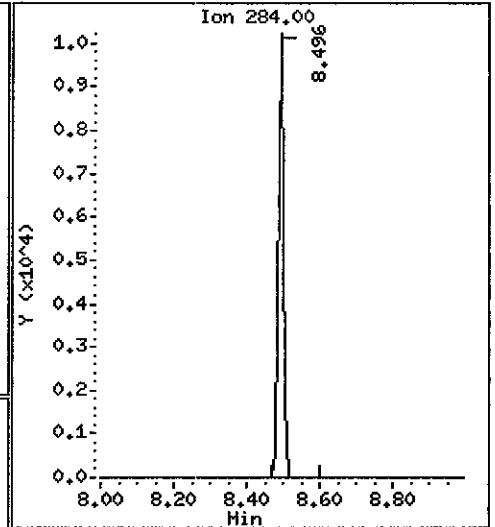
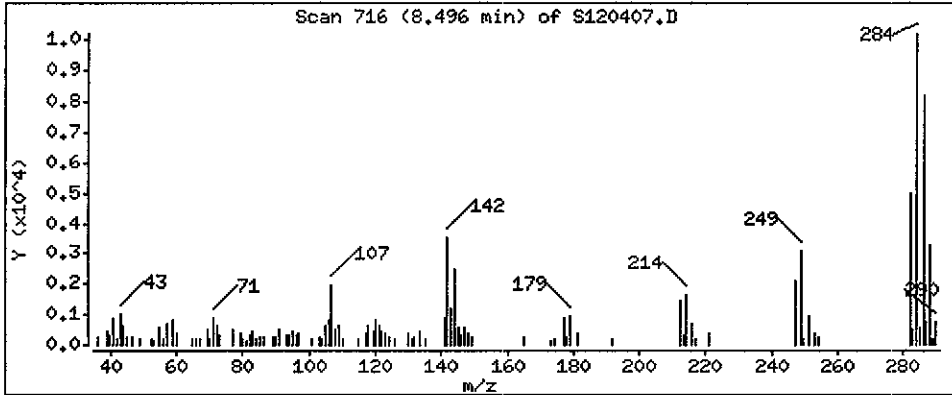
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 4,571 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120408.D  
 Lab Smp Id: MAK021AA GOK270427- Client Smp ID: 0333259  
 Inj Date : 04-DEC-2010 13:52  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MAK021AA GOK270427-3;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0333259;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	128752	40.0000	(Q)
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	551220	40.0000	
* 3 Acenaphthene-d10	164	7.035	7.045	(1.000)	297707	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	475997	40.0000	
* 5 Chrysene-d12	240	13.180	13.190	(1.000)	455083	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	479573	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	293667	64.7093	64.71
\$ 8 Phenol-d5	99	3.231	3.231	(0.912)	419821	73.5650	73.56
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	79180	24.9706	24.97 (qR)
\$ 11 Nitrobenzene-d5	82	4.164	4.174	(0.841)	122020	26.1354	26.14
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.890)	130303	13.5873	13.59 (R)
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.140)	21851	16.8910	16.89 (R)
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	58033	6.47406	6.474 (aR)
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

*Handwritten:* 12/10

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120408.D  
 Lab Smp Id: MAK021AA G0K270427-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Client Smp ID: 0333259  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	128752	5.00
2 Naphthalene-d8	530514	265257	1061028	551220	3.90
3 Acenaphthene-d10	282538	141269	565076	297707	5.37
4 Phenanthrene-d10	462722	231361	925444	475997	2.87
5 Chrysene-d12	435850	217925	871700	455083	4.41
6 Perylene-d12	422284	211142	844568	479573	13.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.04	-0.15
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	0.00
5 Chrysene-d12	13.19	12.69	13.69	13.18	-0.08
6 Perylene-d12	15.54	15.04	16.04	15.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
Sample Matrix: GAS Fraction: SV  
Lab Smp Id: MAK021AA G0K270427- Client Smp ID: 0333259  
Level: LOW Operator: KT  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: Quant Type: ISTD  
Sublist File: S11JZHCB.SUB  
Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	64.71	64.71	41-105
\$ 8 Phenol-d5	100.0	73.56	73.56	43-122
\$ 10 1,2-Dichlorobenzen	50.00	24.97	49.94*	60-120
\$ 11 Nitrobenzene-d5	50.00	26.14	52.27	46-118
\$ 12 2-Fluorobiphenyl	50.00	13.59	27.17*	58-105
\$ 13 2,4,6-Tribromophen	100.0	16.89	16.89*	61-118
\$ 14 Terphenyl-d14	50.00	6.474	12.95*	69-110

Data File: \\SV5\C\chem\sv5.i\120410.B\120408.D

Date : 04-DEC-2010 13:52

Client ID: 0333259

Sample Info: HAKO21A4 GOK270427-3f0;11000;11000;5

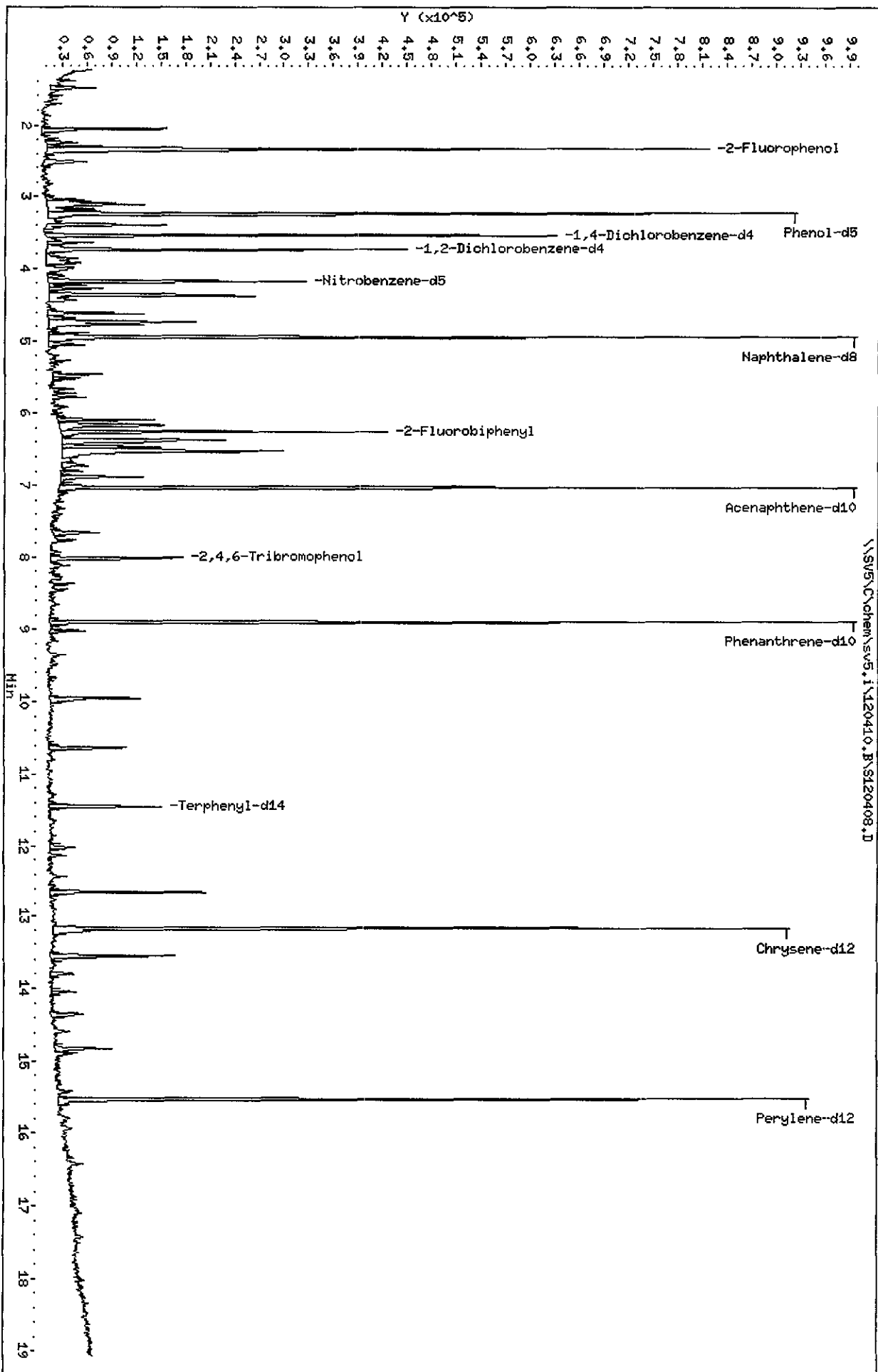
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\120410.B\S120409.D  
 Lab Smp Id: MAK031AA G0K270427- Client Smp ID: 0333259  
 Inj Date : 04-DEC-2010 14:16  
 Operator : KT Inst ID: sv5.i  
 Smp Info : MAK031AA G0K270427-4;0;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Meth Date : 06-Dec-2010 09:40 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.542	3.542	(1.000)	104245	40.0000	(Q)
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	453452	40.0000	
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	243746	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	412267	40.0000	
* 5 Chrysene-d12	240	13.180	13.190	(1.000)	397788	40.0000	
* 6 Perylene-d12	264	15.543	15.543	(1.000)	404231	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	244971	66.6691	66.67
\$ 8 Phenol-d5	99	3.231	3.231	(0.912)	350245	75.8015	75.80
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	65877	25.6594	25.66 (QR)
\$ 11 Nitrobenzene-d5	82	4.164	4.174	(0.841)	132030	34.3767	34.38
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	305695	38.9331	38.93
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	113102	106.784	106.8
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	363650	46.4114	46.41
108 Hexachlorobenzene	284	8.496	8.496	(0.955)	6051	2.69228	2.692

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.

12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S120409.D  
 Lab Smp Id: MAK031AA GOK270427-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHC.B.SUB;;0;0333259;8270F.M

Calibration Date: 04-DEC-2010  
 Calibration Time: 10:36  
 Client Smp ID: 0333259  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	104245	-14.99
2 Naphthalene-d8	530514	265257	1061028	453452	-14.53
3 Acenaphthene-d10	282538	141269	565076	243746	-13.73
4 Phenanthrene-d10	462722	231361	925444	412267	-10.90
5 Chrysene-d12	435850	217925	871700	397788	-8.73
6 Perylene-d12	422284	211142	844568	404231	-4.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.95	4.45	5.45	4.95	-0.00
3 Acenaphthene-d10	7.05	6.55	7.55	7.05	-0.00
4 Phenanthrene-d10	8.90	8.40	9.40	8.90	-0.00
5 Chrysene-d12	13.19	12.69	13.69	13.18	-0.08
6 Perylene-d12	15.54	15.04	16.04	15.54	-0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: MAK031AA GOK270427- Client Smp ID: 0333259  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\120410.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0333259;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.67	66.67	41-105
\$ 8 Phenol-d5	100.0	75.80	75.80	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.66	51.32*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.38	68.75	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.93	77.87	58-105
\$ 13 2,4,6-Tribromophen	100.0	106.8	106.78	61-118
\$ 14 Terphenyl-d14	50.00	46.41	92.82	69-110

Data File: \\SV5\C\chem\sv5.i\120410.B\S120409.D  
Date: 04-DEC-2010 14:16

Client ID: 0333259

Sample Inlet: HAK031A4 GOK270427-4;0;0;11000;11000;5

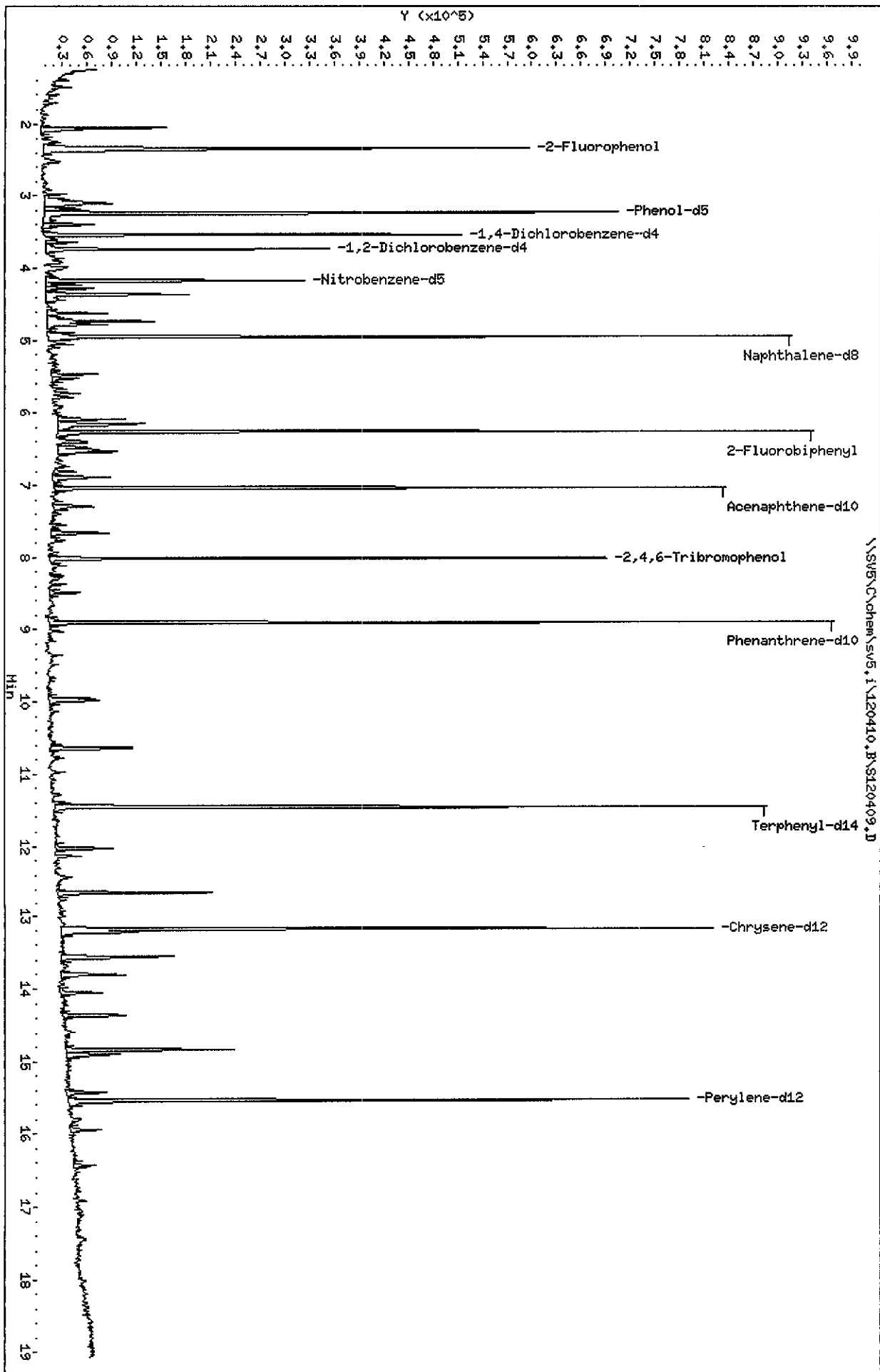
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



Date : 04-DEC-2010 14:16

Client ID: 0333259

Instrument: sv5.i

Sample Info: MAK031AA GOK270427-4;0;;;1000;;1000;5

Volume Injected (uL): 1.0

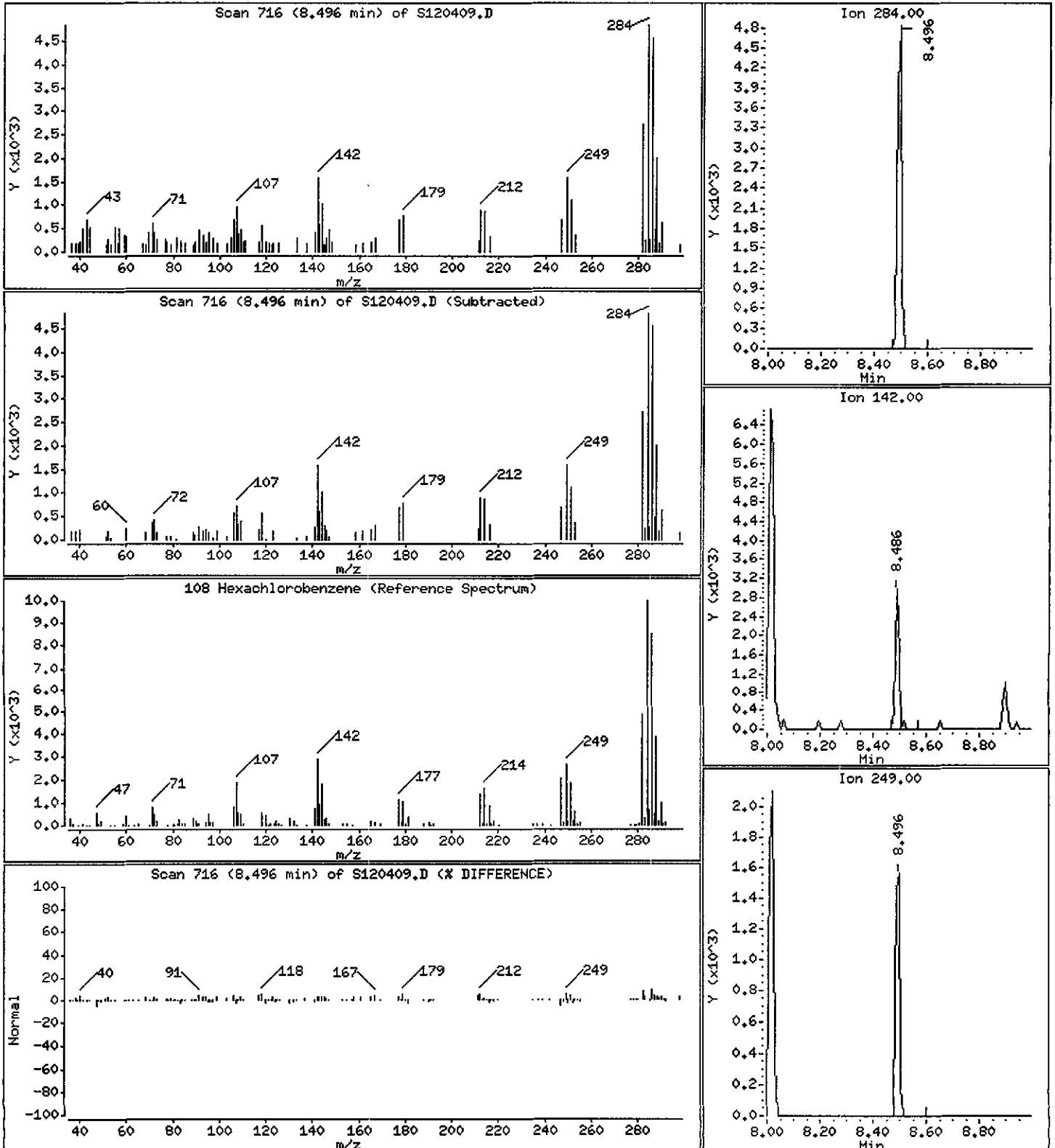
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 2.692 ug/L



## **Initial Calibration**

*Includes (as applicable):*

*runlog*

*standard raw data*

*statistical summary*

*ms tune data*

Instrument: SV5

DFTPP Mix ID: 10MSSV0129

Injection Date: 10/02/10

STD Mix IDs: 10MSSV0307-0313

Initiator/Date: KT-10/03/10

2<sup>nd</sup> Source Mix ID: 10MSSV0314, 342

Reviewer/Date: D. J. 10/4/10

NCM \_\_\_\_\_

**I: SPCCs** The SPCC RRFs must be greater than 0.050.

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**II: CCCs** The CCC % RSDs must be less than 30%

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fluoranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

**III: Other Criteria**

The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG: \_\_\_\_\_

Tailing and degradation criteria are met.

The Tune Documentation is present and meets criteria

All Internal Standards within 50-200% of ICAL mid-point.

Calibration History Included.

Manual re-integrations are checked/initialed and hardcopies included.

Standards analyzed with within 12 hours of Tune time.

Retention time correct for Isomers and all other analytes.

Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)

The second source standard meets the SSCS criteria

File Name: \_\_\_\_\_

Initiated	Reviewed
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**IV: Non-CCC Compounds Over 15% (Write compound and %D)**

None

**V: Second Source Compounds Over 25% (Write compound and %D)**

None

GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)  
 JZ = EPA TO-13A (WS-MS-0005)  
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)  
 QI = EPA 8270C-SIM (WS-MS-0008)  
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)  
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i  
 Batch ID : 100210.B  
 ICAL Date: See Calib Report  
 See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
02-OCT-2010	11:43	KT	Primer	QC001.D	NA	NA	NA		
02-OCT-2010	12:06	KT	DFTPP 50ug/ml	DFT1002.D	NA	NA	NA		
02-OCT-2010	12:27	KT	HSL_005 ug/ml CS-1	HSL1002A.	NA	NA	NA		
02-OCT-2010	12:53	KT	HSL_010 ug/ml CS-2	HSL1002B.	NA	NA	NA		
02-OCT-2010	13:18	KT	HSL_020 ug/ml CS-3	HSL1002C.	NA	NA	NA		
02-OCT-2010	13:44	KT	HSL_050 ug/ml CS-4	HSL1002D.	NA	NA	NA		
02-OCT-2010	14:09	KT	HSL_080 ug/ml CS-5	HSL1002E.	NA	NA	NA		
02-OCT-2010	14:35	KT	HSL_120 ug/ml CS-6	HSL1002F.	NA	NA	NA		
02-OCT-2010	15:00	KT	HSL_160 ug/ml CS-7	HSL1002G.	NA	NA	NA		
02-OCT-2010	16:11	KT	HSL_050 ug/ml ICV	HSL1002H.	NA	NA	NA		
02-OCT-2010	16:36	KT	Benzidines ICV 50ug/mL	HSL1002I.	NA	NA	NA		

SVS HBL  
 10/2/10

Report Date : 03-Oct-2010 11:10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method File : \\SV5\C\chem\sv5.1\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Calibration File Names:  
 Level 1: \\SV5\C\chem\sv5.1\081710.B\AP90817A.D  
 Level 2: \\SV5\C\chem\sv5.1\081710.B\AP90817B.D  
 Level 3: \\SV5\C\chem\sv5.1\081710.B\AP90817C.D  
 Level 4: \\SV5\C\chem\sv5.1\081710.B\AP90817D.D  
 Level 5: \\SV5\C\chem\sv5.1\081710.B\AP90817E.D  
 Level 6: \\SV5\C\chem\sv5.1\081710.B\AP90817F.D  
 Level 7: \\SV5\C\chem\sv5.1\081710.B\AP90817G.D

Compound	10.0000							20.0000							50.0000							80.0000							120.0000							Curve	h	Coefficients		RSD of R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	m1	m2										
15 N-Nitrosodimethylamine	0.92899	0.88268	0.91048	0.91970	0.93146	0.93216		0.92899	0.88268	0.91048	0.91970	0.93146	0.93216		0.92899	0.88268	0.91048	0.91970	0.93146	0.93216		0.92899	0.88268	0.91048	0.91970	0.93146	0.93216		0.92184		2.16207									
16 pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256		1.67117	1.37423	1.59449	1.56610	1.52299	1.53256		1.67117	1.37423	1.59449	1.56610	1.52299	1.53256		1.67117	1.37423	1.59449	1.56610	1.52299	1.53256		1.54111		5.85560									
23 Aniline	2.20796	2.15935	2.11988	2.26058	2.29749	2.33400		2.20796	2.15935	2.11988	2.26058	2.29749	2.33400		2.20796	2.15935	2.11988	2.26058	2.29749	2.33400		2.20796	2.15935	2.11988	2.26058	2.29749	2.33400		2.28673		3.09783									
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06583	2.06089		2.04111	1.96212	2.02834	2.03430	2.06583	2.06089		2.04111	1.96212	2.02834	2.03430	2.06583	2.06089		2.04111	1.96212	2.02834	2.03430	2.06583	2.06089		2.03729		1.80250									

Manual concentration for 2,4,5-Trichlorophenol @ Level 3:  
 $\frac{55529}{328608} \times \frac{600}{20} = 0.33796$  by 11/1/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270F.M  
 Last Edit : 03-Oct-2010 11:09 onlshim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients ml	mg or R^2
26 Bis(2-chloroethyl) ether	1.47335 1.44264	1.38282	1.39491	1.43824	1.42519	1.44300	AVRG		1.42859	2.17028
27 2-Chlorophenol	1.52099 1.57039	1.55593	1.56903	1.58168	1.56789	1.58074	AVRG		1.86381	1.32808
28 1,3-Dichlorobenzene	1.68903 1.72457	1.69173	1.67784	1.73135	1.68641	1.72289	AVRG		1.70337	1.39370
29 1,4-Dichlorobenzene	1.77132 1.81444	1.79861	1.74013	1.76898	1.78200	1.79288	AVRG		1.78118	1.35239
30 Benzyl Alcohol	1.01643 1.09506	1.03654	0.99182	1.04980	1.07792	1.08952	AVRG		1.05101	3.69696
31 1,2-Dichlorobenzene	1.62008 1.64591	1.63185	1.60455	1.68061	1.63410	1.64415	AVRG		1.63746	1.45884
32 2-Methylphenol	1.40818 1.47869	1.38830	1.39110	1.42630	1.45855	1.46154	AVRG		1.43012	2.50558



WestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.1\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients ml	m2	VRSD or R^2
33 2,2'-oxybis(1-Chloropropane)	2.29502 2.28770	2.22080	2.28329	2.27928	2.27018	2.27830	AVRG		2.27365		1.08468
34 4-Methylphenol	1.48506 1.58763	1.48913	1.46270	1.52239	1.52652	1.55886	AVRG		1.51904		2.88378
36 Hexachloroethane	0.60928 0.60919	0.60836	0.60573	0.61394	0.60427	0.59381	AVRG		0.60636		1.04319
37 N-Nitrosodipropylamine	0.94498 1.04757	0.97005	1.01302	1.02370	1.04700	1.03627	AVRG		1.01180		3.92645
43 Nitrobenzene	0.32855 0.32901	0.32502	0.32543	0.33083	0.33379	0.33450	AVRG		0.33115		1.48904
44 Isophorone	0.53431 0.65411	0.52291	0.51160	0.53344	0.53648	0.56468	AVRG		0.63579		2.81109
48 2-Nitrophenol	0.18508 0.20508	0.18833	0.18840	0.20021	0.20022	0.20702	AVRG		0.19648		4.42274

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISID  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Level							Curve	Coefficients		MSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		mi	m2	
46 2,4-Dimethylphenol	0.34459 0.35785	0.34167	0.34307	0.34912	0.34788	0.35962	AVRG	0.34911			2.02786
47 Bis(2-chloroethoxy)methane	0.41146 0.38545	0.37494	0.38565	0.38249	0.38600	0.39859	AVRG	0.38908			3.10601
49 2,4-Dichlorophenol	0.25434 0.27809	0.26318	0.27019	0.27037	0.27274	0.28180	AVRG	0.27010			3.38345
50 Benzoic Acid	0.16747 0.22180	0.16266	0.17423	0.19357	0.21024	0.22272	AVRG	0.19324			13.35202
51 1,2,4-Trichlorobenzene	0.29430 0.29091	0.28827	0.28475	0.29747	0.29189	0.29959	AVRG	0.29246			1.78989
52 Naphthalene	1.09979 1.10247	1.12462	1.07435	1.09325	1.09870	1.13821	AVRG	1.10443			1.89960
54 4-Chloroaniline	0.40751 0.43667	0.42534	0.43254	0.43910	0.43781	0.44905	AVRG	0.43288			3.06843



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\sv5\C\chem\sv5.1\100210.B\8270F.m  
 Last Modt : 03-Oct-2010 11:09 onishlm

Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	Coefficients		R <sup>2</sup> or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	b	m1	m2						
73 2-Nitroaniline	1.31576 0.38278	0.31759	0.33397	0.25205	0.34821	0.35794		AVRG	0.34119							5.87334
76 Dimethylphthalate	1.23388 1.30237	1.25191	1.29803	1.34660	1.31165	1.32891		AVRG	1.29606							3.09317
77 Acenaphthylene	1.85531 2.02968	1.91304	1.91818	2.01646	1.98204	1.99786		AVRG	1.96037							3.15026
79 2,6-Dinitrotoluene	0.28347 0.31106	0.27378	0.29890	0.31220	0.31294	0.32140		AVRG	0.30197							5.78879
80 3-Nitroaniline	0.35362 0.39603	0.34622	0.35978	0.40036	0.38674	0.39559		AVRG	0.37691							5.06851
81 Acenaphthene	1.25874 1.25463	1.22468	1.26733	1.27046	1.21141	1.24761		AVRG	1.24787							1.76776
82 2,4-Dinitrophenol	4083 265688	7527	23799	58864	110384	199007		AVRG	0.10620	5.22413	-0.71963					0.99812

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\SV5.1\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onlshim

Compound	120.0000							Curve	b	Coefficients		VRSD OF R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	mi			m2		
83 Dibenzofuran	1.57786 1.71077	1.62124	1.66200	1.69530	1.65117	1.68480	AVRG		1.68612		2.77923	
84 4-Nitrophenol	0.12742 0.17404	0.14148	0.15316	0.16076	0.17130	0.16683	AVRG		0.15634		10.90920	
86 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42184	0.41035	0.42305	AVRG		0.39633		8.61882	
91 Fluorene	1.34867 1.40640	1.33840	1.34292	1.39902	1.39899	1.37835	AVRG		1.37139		2.00587	
92 Diethylphthalate	1.22240 1.38087	1.29889	1.31549	1.37912	1.31873	1.37345	AVRG		1.32699		4.31889	
93 4-Chlorophenyl-phenylether	0.54964 0.57695	0.55917	0.56887	0.53265	0.56708	0.57698	AVRG		0.57019		2.42913	
94 4-Nitroaniline	0.33346 0.40453	0.33747	0.37329	0.38337	0.39216	0.39102	AVRG		0.37361		7.42395	





TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
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 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.1\100210.B\8270f.m  
 Labt Edit : 03-Oct-2010 11:09 onlshim

Compound	5.0000							10.0000							20.0000							50.0000							80.0000							120.0000							Curve	b	Coefficients		R <sup>2</sup> or R <sup>2</sup>		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	m1	m2												
136 Butylbenzylphthalate	0.64984	0.60187	0.89142	0.62586	0.61590	0.65233	0.64929	0.99731	0.97731	1.03245	1.04489	1.06449	1.10831	1.10831	1.05284	1.10175	1.06320	1.09705	1.05985	1.12241	1.12241	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831	1.10831	1.05284	1.10175	1.06320	1.09705	1.05985	1.12241	1.12241	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.05985	1.12241	1.12241	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
141 bis(2-ethylhexyl)Phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89539	0.89354	0.80897	0.84032	0.85193	0.84371	0.89539	0.89539	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47616	1.47616	1.50770	1.23185	1.35627	1.34433	1.39356	1.47616	1.47616	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336
144 Benzo (b) Fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132	0.91132	1.02572	0.81077	0.82747	0.99930	0.95373	0.91132	0.91132	0.39148	0.37695	0.39090	0.39905	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40353	0.42717	0.42717	0.42415	0.40189	0.40189	0.40189	0.40189	0.40189	0.40189	0.62663	1.06549	1.08994	0.40189	0.85316	1.37975	1.37975	3.95034	4.08847	2.59426	4.83885	4.34816	6.65055	10.55336



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : FALCON  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Levels							Curve	Coefficients			RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		ml	mg		
145 Benzo (k) Fluoranthene	1.22939 1.10447	1.16528	1.20022	1.09895	1.14223	1.19597	AVRG	1.16236			4.27893	
147 Benzo (e) Pyrene	0.90394 0.97185	0.92734	0.90787	0.95877	0.96997	0.96929	AVRG	0.94425			3.22007	
148 Benzo (a) Pyrene	0.98300 1.06523	0.97686	0.99402	1.02789	1.07610	1.06275	AVRG	1.02655			4.11137	
151 Indeno (1,2,3-cd) Pyrene	0.73783 0.97995	0.73267	0.73671	0.84998	0.84057	0.93730	AVRG	0.83039			12.15083	
152 Dibenzo (a,h) Anthracene	0.88099 1.00392	0.84384	0.87256	0.92240	0.95990	1.00944	AVRG	0.92758			7.07091	
153 Benzo (g,h,i) Perylene	0.95028 1.04026	0.98487	0.97380	0.99974	1.01731	1.05397	AVRG	1.00427			3.45188	
154 Benzo (b,k) Fluoranthene Totals	2.03951 2.13019	1.97605	2.02770	2.09825	2.09596	2.10729	AVRG	2.06785			2.64859	





TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Curve	Formula	Units
Averaged	Amt * Resp/ml	Response
Linear	Amt = b + Resp/ml	Response
Quad	Amt = b + m1*Resp + m2*Resp^2	Response

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
Last Edit: 04-Oct-2010 09:00 onishim  
Compound : 82 2,4-Dinitrophenol  
Mass: 184.00  
Istd Compound: \* 3 Acenaphthene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged  
Origin: None  
Amt = Rsp/ml  
ml = 0.15933171100000  
RSD: 26.349

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	7.572	5.00000	4083	7.468	40.000	321839	0.10149173965865
2	7.572	10.00000	7537	7.468	40.000	272639	0.11057845722732
3	7.572	20.00000	23799	7.468	40.000	328608	0.14484735512036
4	7.582	50.00000	58864	7.468	40.000	282538	0.15667209366528
5	7.572	80.00000	110384	7.468	40.000	300315	0.18378036395118
6	7.582	120.00000	199007	7.468	40.000	322596	0.20563077864160
7	7.582	160.00000	265655	7.478	40.000	328259	0.20232118540543

Lvl	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\ESL1002G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
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1	7.582	50.000	50142	7.468	40.000	236662	0.16949742670982
2	7.572	50.000	58864	7.468	40.000	282538	0.16667209366528
3	7.582	50.000	56608	7.468	40.000	239304	0.18924213552636
4	7.589	50.000	98553	7.485	40.000	440855	0.17883975456783
5	7.599	50.000	81881	7.485	40.000	371846	0.17616109894957
6	7.599	50.000	35068	7.495	40.000	283828	0.15521794889863
7	7.599	50.000	52896	7.496	40.000	256342	0.16507946415236
8	7.599	50.000	50586	7.495	40.000	224545	0.18022578993075
9	7.610	50.000	31559	7.506	40.000	165705	0.15236233064784
10	7.610	50.000	50181	7.506	40.000	226619	0.17714666466625
11	7.610	50.000	44092	7.506	40.000	201923	0.17468837130986
12	7.620	50.000	81056	7.516	40.000	329174	0.19699247206645
13	7.620	50.000	93793	7.516	40.000	378407	0.19829020076267
14	7.630	50.000	68549	7.516	40.000	271629	0.20189007801082
15	7.630	50.000	54835	7.516	40.000	219680	0.19969045884924
16	7.630	50.000	67628	7.527	40.000	267569	0.20219980640508
17	7.630	50.000	94376	7.527	40.000	349016	0.21632475301992
18	7.635	50.000	51607	7.532	40.000	209252	0.19730086211840
19	7.635	50.000	62563	7.531	40.000	260404	0.19220288474831
20	7.646	50.000	80386	7.542	40.000	334425	0.19229662854153
21	7.645	50.000	25473	7.542	40.000	302573	0.06735035842590
22	7.645	50.000	17649	7.542	40.000	223404	0.06220030080034
23	7.646	50.000	68382	7.542	40.000	292758	0.18686286967393
24	7.656	50.000	97952	7.552	40.000	390143	0.20085353319168
25	7.656	50.000	63647	7.552	40.000	289221	0.17605084001507
26	7.666	50.000	79703	7.563	40.000	331752	0.19219899201613
27	7.677	50.000	59624	7.573	40.000	245725	0.19411618679418
28	7.687	50.000	60561	7.583	40.000	237909	0.20364425053277
29	7.687	50.000	42226	7.583	40.000	172923	0.19535168832370
30	7.687	50.000	51997	7.583	40.000	208221	0.19977619932668
31	7.697	50.000	51275	7.594	40.000	202822	0.20224630464151
32	7.697	50.000	65531	7.594	40.000	250339	0.20941523294413
33	7.760	50.000	76785	7.656	40.000	344524	0.17829817371214

34	7.759	50.000	58725	7.656	40.000	303207	0.18132826748723
35	7.770	50.000	66249	7.666	40.000	308864	0.17159397016162
36	7.780	50.000	63983	7.677	40.000	288883	0.17718730420274
37	7.780	50.000	61267	7.677	40.000	292290	0.16768825481542
38	7.791	50.000	56069	7.687	40.000	238922	0.18773993186061
39	7.791	50.000	50573	7.687	40.000	243613	0.16607652300986
40	7.791	50.000	55930	7.687	40.000	256301	0.17457598682799
41	7.791	50.000	55930	7.687	40.000	256301	0.17457598682799
42	7.791	50.000	43995	7.687	40.000	215682	0.16318468856928
43	7.801	50.000	55653	7.697	40.000	269061	0.16550299002828
44	7.801	50.000	52406	7.697	40.000	242418	0.17294425331452
45	7.801	50.000	49689	7.697	40.000	246748	0.16110039392417
46	7.801	50.000	83728	7.697	40.000	361851	0.18511044601231
47	7.801	50.000	69470	7.697	40.000	316865	0.17539330629763
48	7.811	50.000	98764	7.708	40.000	448001	0.17636389204488
49	7.811	50.000	65199	7.708	40.000	319060	0.16347771579013
50	7.811	50.000	63819	7.708	40.000	326041	0.15659134894078
51	7.811	50.000	69420	7.708	40.000	325539	0.17059707131864
52	7.822	50.000	66513	7.718	40.000	295770	0.17990465564459
53	7.822	50.000	58901	7.718	40.000	274779	0.17148617616339
54	7.822	50.000	58321	7.718	40.000	264752	0.17622831933281
55	7.816	50.000	90734	7.713	40.000	414154	0.17526620532459
56	7.858	50.000	49564	7.754	40.000	260934	0.15195873285965
57	7.858	50.000	63475	7.754	40.000	318667	0.15935129774969
58	7.889	50.000	58884	7.785	40.000	318462	0.14792094504211
59	7.889	50.000	52456	7.796	40.000	304639	0.13775255302177
60	7.889	50.000	44855	7.796	40.000	283970	0.12636546114026
61	7.889	50.000	40711	7.785	40.000	264293	0.12322990014870
Avg	7.719	50.000	61661	7.615	40.000	4333	0.17364233986573

Ind	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\SSL1002H

2 1_8270STD	\\sv5\C\chem\sv5.i\100210.B\ESL1002D	
3 1_8270STD	\\sv5\C\chem\sv5.i\100210.B\QC001	
4 1_8270STD	\\sv5\C\chem\sv5.i\100210.B\HSL1001	
5 1_8270STD	\\sv5\C\chem\sv5.i\093010.B\HSL0930	
6 1_8270STD	\\sv5\C\chem\sv5.i\092910a.B\HSL0929a	
7 1_8270STD	\\sv5\C\chem\sv5.i\092910.B\HSL0929	
8 1_8270STD	\\sv5\C\chem\sv5.i\092910.B\QC001	
9 1_8270STD	\\sv5\C\chem\sv5.i\092810a.B\ESL0928	
10 1_8270STD	\\sv5\C\chem\sv5.i\092810.B\HSL0928	
11 1_8270STD	\\sv5\C\chem\sv5.i\092710.B\HSL0927	
12 1_8270STD	\\sv5\C\chem\sv5.i\092510.B\QC001	
13 1_8270STD	\\sv5\C\chem\sv5.i\092510.B\ESL0925	
14 1_8270STD	\\sv5\C\chem\sv5.i\092410.B\QC001	
15 1_8270STD	\\sv5\C\chem\sv5.i\092410.B\HSL0924	
16 1_8270STD	\\sv5\C\chem\sv5.i\092310a.B\HSL0923a	
17 1_8270STD	\\sv5\C\chem\sv5.i\092310a.B\QC001	
18 1_8270STD	\\sv5\C\chem\sv5.i\092310.B\QC001	
19 1_8270STD	\\sv5\C\chem\sv5.i\092310.B\HSL0923	
20 1_8270STD	\\sv5\C\chem\sv5.i\092210.B\ESL0922a	
21 1_8270STD	\\sv5\C\chem\sv5.i\092210.B\HSL0922	
22 1_8270STD	\\sv5\C\chem\sv5.i\092210.B\QC001	
23 1_8270STD	\\sv5\C\chem\sv5.i\092110.B\HSL0921	
24 1_8270STD	\\sv5\C\chem\sv5.i\092010.B\QC001	
25 1_8270STD	\\sv5\C\chem\sv5.i\092010.B\HSL0920	
26 1_8270STD	\\sv5\C\chem\sv5.i\091910a.B\HSL0919a	
27 1_8270STD	\\sv5\C\chem\sv5.i\091910.B\HSL0919	
28 1_8270STD	\\sv5\C\chem\sv5.i\091910.B\QC001	
29 1_8270STD	\\sv5\C\chem\sv5.i\091710.B\HSL0917	
30 1_8270STD	\\sv5\C\chem\sv5.i\091710.B\QC001	
31 1_8270STD	\\sv5\C\chem\sv5.i\091510b.B\HSL0915b	
32 1_8270STD	\\sv5\C\chem\sv5.i\091510b.B\QC003	
33 1_8270STD	\\sv5\C\chem\sv5.i\091010.B\HSL0910	
34 1_8270STD	\\sv5\C\chem\sv5.i\091010.B\QC001	



35 1_8270STD	\\sv5\c\chem\sv5.i\090910a.B\ESL0909a	
36 1_8270STD	\\sv5\c\chem\sv5.i\090910.B\ESL0909	
37 1_8270STD	\\sv5\c\chem\sv5.i\090910.B\QC001	
38 1_8270STD	\\sv5\c\chem\sv5.i\090810.B\ESL0908	
39 1_8270STD	\\sv5\c\chem\sv5.i\090810.B\Primer	
40 1_8270STD	\\sv5\c\chem\sv5.i\090710.B\ESL0907	
41 1_8270STD	\\sv5\c\chem\sv5.i\090710.B\ESL0907	
42 1_8270STD	\\sv5\c\chem\sv5.i\090110.B\ESL0901	
43 1_8270STD	\\sv5\c\chem\sv5.i\083110.B\ESL0831	
44 1_8270STD	\\sv5\c\chem\sv5.i\083010.B\QC001	
45 1_8270STD	\\sv5\c\chem\sv5.i\083010.B\ESL0830	
46 1_8270STD	\\sv5\c\chem\sv5.i\082710.B\QC001	
47 1_8270STD	\\sv5\c\chem\sv5.i\082710.B\ESL0827	
48 1_8270STD	\\sv5\c\chem\sv5.i\082610.B\ESL0826	
49 1_8270STD	\\sv5\c\chem\sv5.i\082610.B\QC001	
50 1_8270STD	\\sv5\c\chem\sv5.i\082510.B\QC001	
51 1_8270STD	\\sv5\c\chem\sv5.i\082510.B\ESL0825	
52 1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\ESL0823	
53 1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\ESL0823H	
54 1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\ESL0823D	
55 1_8270STD	\\sv5\c\chem\sv5.i\082310A.B\ESL0823A	
56 1_8270STD	\\sv5\c\chem\sv5.i\082010.B\ESL0820	
57 1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001	
58 1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\ESL0818A	
59 1_8270STD	\\sv5\c\chem\sv5.i\081810.B\ESL0818	
60 1_8270STD	\\sv5\c\chem\sv5.i\081710.B\ESL0817D	
61 1_8270STD	\\sv5\c\chem\sv5.i\081710.B\ESL0817H	

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit: 04-Oct-2010 09:00 onishim  
 Compound : 110 Pentachlorophenol  
 Mass: 266.00  
 Istd Compound: \* 4 Phenanthrene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged  
 Origin: None  
 Amt = Rsp/ml  
 ml = 0.11930897400000  
 RSD: 15.221

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	9.240	5.00000	5849	9.406	40.000	496356	0.09427104739340
2	9.240	10.00000	10551	9.406	40.000	428440	0.09850620857063
3	9.240	20.00000	30451	9.406	40.000	525834	0.11581982146457
4	9.240	50.00000	67882	9.406	40.000	462722	0.11736318014704
5	9.240	80.00000	126397	9.406	40.000	477777	0.13227614555582
6	9.240	120.00000	215360	9.406	40.000	515607	0.13922748656761
7	9.250	160.00000	293184	9.406	40.000	532284	0.13770092657303

Lvl	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002G

Continuing Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
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1	9.240	50.000	62905	9.406	40.000	380734	0.13217837125132
2	9.240	50.000	67882	9.406	40.000	462722	0.11735118014704
3	9.257	50.000	111129	9.423	40.000	682643	0.12835256742218
4	9.257	50.000	88353	9.423	40.000	569627	0.12408541027725
5	9.267	50.000	65176	9.423	40.000	444572	0.11728313973889
6	9.268	50.000	60510	9.433	40.000	402268	0.12113317489833
7	9.278	50.000	51724	9.433	40.000	342388	0.12085470285174
8	9.278	50.000	37406	9.444	40.000	257561	0.11618529202791
9	9.278	50.000	56152	9.444	40.000	367144	0.12235635064171
10	9.278	50.000	49579	9.444	40.000	316244	0.12643148960928
11	9.299	50.000	89278	9.455	40.000	523239	0.13391557714699
12	9.288	50.000	102299	9.454	40.000	604130	0.13546620760432
13	9.299	50.000	74887	9.454	40.000	434948	0.13773968382427
14	9.299	50.000	61171	9.455	40.000	350214	0.13973399121680
15	9.309	50.000	72641	9.475	40.000	436116	0.13325078648800
16	9.309	50.000	99213	9.475	40.000	545533	0.14549147347640
17	9.314	50.000	56050	9.480	40.000	341600	0.13126463700234
18	9.314	50.000	67187	9.480	40.000	410196	0.13103394474836
19	9.324	50.000	90596	9.490	40.000	530756	0.13655389670583
20	9.324	50.000	32043	9.490	40.000	484990	0.08285552279428
21	9.324	50.000	22238	9.490	40.000	346959	0.05127522272084
22	9.324	50.000	81528	9.490	40.000	462218	0.14110744280837
23	9.335	50.000	103580	9.511	40.000	589949	0.144045959905009
24	9.335	50.000	72155	9.501	40.000	446329	0.12932770831140
25	9.355	50.000	91662	9.521	40.000	517550	0.14168502067433
26	9.366	50.000	67431	9.532	40.000	396847	0.13593349578049
27	9.366	50.000	71407	9.542	40.000	407176	0.14029707055426
28	9.366	50.000	49946	9.532	40.000	298933	0.13366473423811
29	9.366	50.000	58621	9.542	40.000	335623	0.13973059057335
30	9.386	50.000	53858	9.552	40.000	329730	0.13067176174446
31	9.387	50.000	69993	9.552	40.000	399673	0.14010053218506
32	9.459	50.000	87217	9.625	40.000	539077	0.12943160253544
33	9.459	50.000	77540	9.625	40.000	458679	0.13524054949104

34	9.470	50.000	79232	9.646	40.000	482971	0.13124100618878
35	9.480	50.000	75075	9.656	40.000	465501	0.12902227922174
36	9.480	50.000	69872	9.656	40.000	435300	0.12841167011257
37	9.490	50.000	60626	9.656	40.000	378611	0.12810193047746
38	9.490	50.000	60476	9.666	40.000	383533	0.12614507747704
39	9.490	50.000	68275	9.656	40.000	401081	0.13618196823086
40	9.490	50.000	68275	9.656	40.000	401081	0.13618196823086
41	9.490	50.000	51783	9.666	40.000	337799	0.12263624226241
42	9.501	50.000	70205	9.677	40.000	425699	0.13193359627342
43	9.511	50.000	60939	9.677	40.000	381025	0.12794751000591
44	9.501	50.000	61157	9.677	40.000	380328	0.12864054184809
45	9.500	50.000	98266	9.676	40.000	586969	0.13393007126441
46	9.500	50.000	82460	9.677	40.000	500580	0.13178313156738
47	9.511	50.000	117721	9.687	40.000	687233	0.13703765680635
48	9.511	50.000	77582	9.687	40.000	485585	0.12761613929590
49	9.511	50.000	77449	9.687	40.000	498103	0.12439033693834
50	9.511	50.000	85917	9.687	40.000	500311	0.13738174855240
51	9.521	50.000	80098	9.697	40.000	460974	0.13900653832971
52	9.521	50.000	71155	9.697	40.000	428920	0.13271472535671
53	9.521	50.000	72603	9.697	40.000	415811	0.13969461632809
54	9.526	50.000	108254	9.702	40.000	650674	0.13309768025155
55	9.568	50.000	64139	9.744	40.000	411802	0.12460162893818
56	9.578	50.000	85309	9.754	40.000	511730	0.13336564203779
57	9.599	50.000	78595	9.785	40.000	486034	0.12936543533991
58	9.609	50.000	72755	9.785	40.000	467607	0.12447204597023
59	9.609	50.000	67958	9.785	40.000	451801	0.12033262431911
60	9.609	50.000	63635	9.785	40.000	418038	0.12177840292031
Avy	9.411	50.000	72233	9.581	40.000	6967	0.12849428241810

Ind	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\EST1.D02E
2	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\EST1.D02D

3	1_8270STD	\\sv5\c\chem\sv5.i\100110.B\HSL1001
4	1_8270STD	\\sv5\c\chem\sv5.i\093010.B\HSL0930
5	1_8270STD	\\sv5\c\chem\sv5.i\092910A.B\HSL0929A
6	1_8270STD	\\sv5\c\chem\sv5.i\092910.B\HSL0929
7	1_8270STD	\\sv5\c\chem\sv5.i\092910.B\QC001
8	1_8270STD	\\sv5\c\chem\sv5.i\092810A.B\HSL0928
9	1_8270STD	\\sv5\c\chem\sv5.i\092810.B\HSL0928
10	1_8270STD	\\sv5\c\chem\sv5.i\092710.B\HSL0927
11	1_8270STD	\\sv5\c\chem\sv5.i\092510.B\QC001
12	1_8270STD	\\sv5\c\chem\sv5.i\092510.B\HSL0925
13	1_8270STD	\\sv5\c\chem\sv5.i\092410.B\QC001
14	1_8270STD	\\sv5\c\chem\sv5.i\092410.B\HSL0924
15	1_8270STD	\\sv5\c\chem\sv5.i\092310A.B\HSL0923A
16	1_8270STD	\\sv5\c\chem\sv5.i\092310A.B\QC001
17	1_8270STD	\\sv5\c\chem\sv5.i\092310.B\QC001
18	1_8270STD	\\sv5\c\chem\sv5.i\092310.B\HSL0923
19	1_8270STD	\\sv5\c\chem\sv5.i\092210.B\HSL0922a
20	1_8270STD	\\sv5\c\chem\sv5.i\092210.B\HSL0922
21	1_8270STD	\\sv5\c\chem\sv5.i\092210.B\QC001
22	1_8270STD	\\sv5\c\chem\sv5.i\092110.B\HSL0921
23	1_8270STD	\\sv5\c\chem\sv5.i\092010.B\QC001
24	1_8270STD	\\sv5\c\chem\sv5.i\092010.B\HSL0920
25	1_8270STD	\\sv5\c\chem\sv5.i\091910a.B\HSL0919a
26	1_8270STD	\\sv5\c\chem\sv5.i\091910.B\HSL0919
27	1_8270STD	\\sv5\c\chem\sv5.i\091910.B\QC001
28	1_8270STD	\\sv5\c\chem\sv5.i\091710.B\HSL0917
29	1_8270STD	\\sv5\c\chem\sv5.i\091710.B\QC001
30	1_8270STD	\\sv5\c\chem\sv5.i\091510b.B\HSL0915b
31	1_8270STD	\\sv5\c\chem\sv5.i\091510b.B\QC003
32	1_8270STD	\\sv5\c\chem\sv5.i\091010.B\HSL0910
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34	1_8270STD	\\sv5\c\chem\sv5.i\090910a.B\HSL0909a
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37 1_8270STD	\\sv5\c\chem\sv5.i\090820.B\HSL0908	
38 1_8270STD	\\sv5\c\chem\sv5.i\090810.B\Primer	
39 1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907	
40 1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907	
41 1_8270STD	\\sv5\c\chem\sv5.i\090110.B\HSL0901	
42 1_8270STD	\\sv5\c\chem\sv5.i\083110.B\HSL0831	
43 1_8270STD	\\sv5\c\chem\sv5.i\083010.B\QC001	
44 1_8270STD	\\sv5\c\chem\sv5.i\083010.B\HSL0830	
45 1_8270STD	\\sv5\c\chem\sv5.i\082710.B\QC001	
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47 1_8270STD	\\sv5\c\chem\sv5.i\082610.B\HSL0826	
48 1_8270STD	\\sv5\c\chem\sv5.i\082610.B\QC001	
49 1_8270STD	\\sv5\c\chem\sv5.i\082510.B\QC001	
50 1_8270STD	\\sv5\c\chem\sv5.i\082510.B\HSL0825	
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52 1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H	
53 1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D	
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55 1_8270STD	\\sv5\c\chem\sv5.i\082010.B\HSL0820	
56 1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001	
57 1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A	
58 1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818	
59 1_8270STD	\\sv5\c\chem\sv5.i\081710.B\HSL0817D	
60 1_8270STD	\\sv5\c\chem\sv5.i\081710.B\HSL0817H	

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6825896	5.000	PASS
Benzidine	0.6244503	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	189907	8.9	20.5	PASS

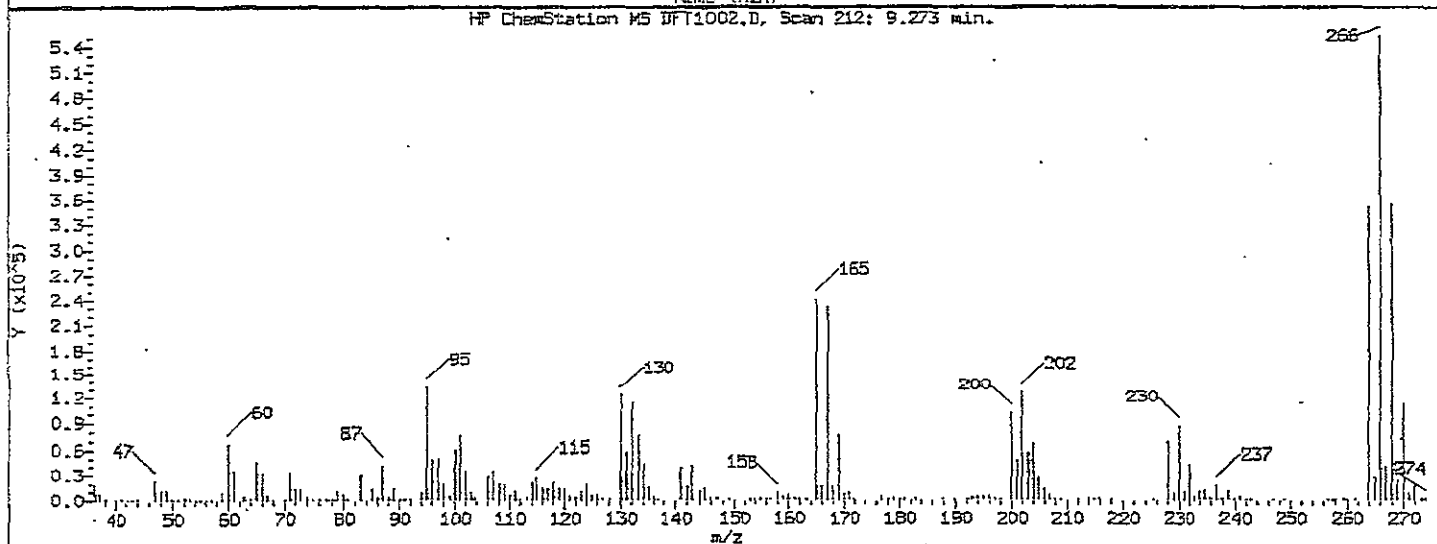
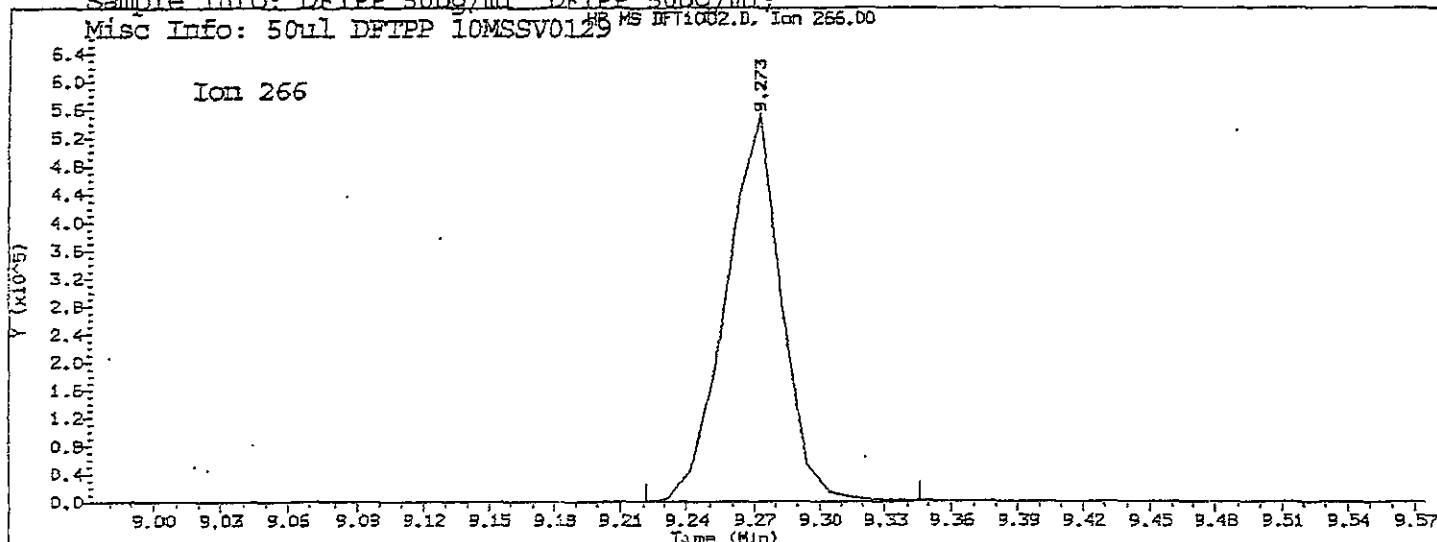
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT1002.D, Ion 266.00



Pentachlorophenol

Exp. RT = 9.387  
Found RT = 9.273

Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

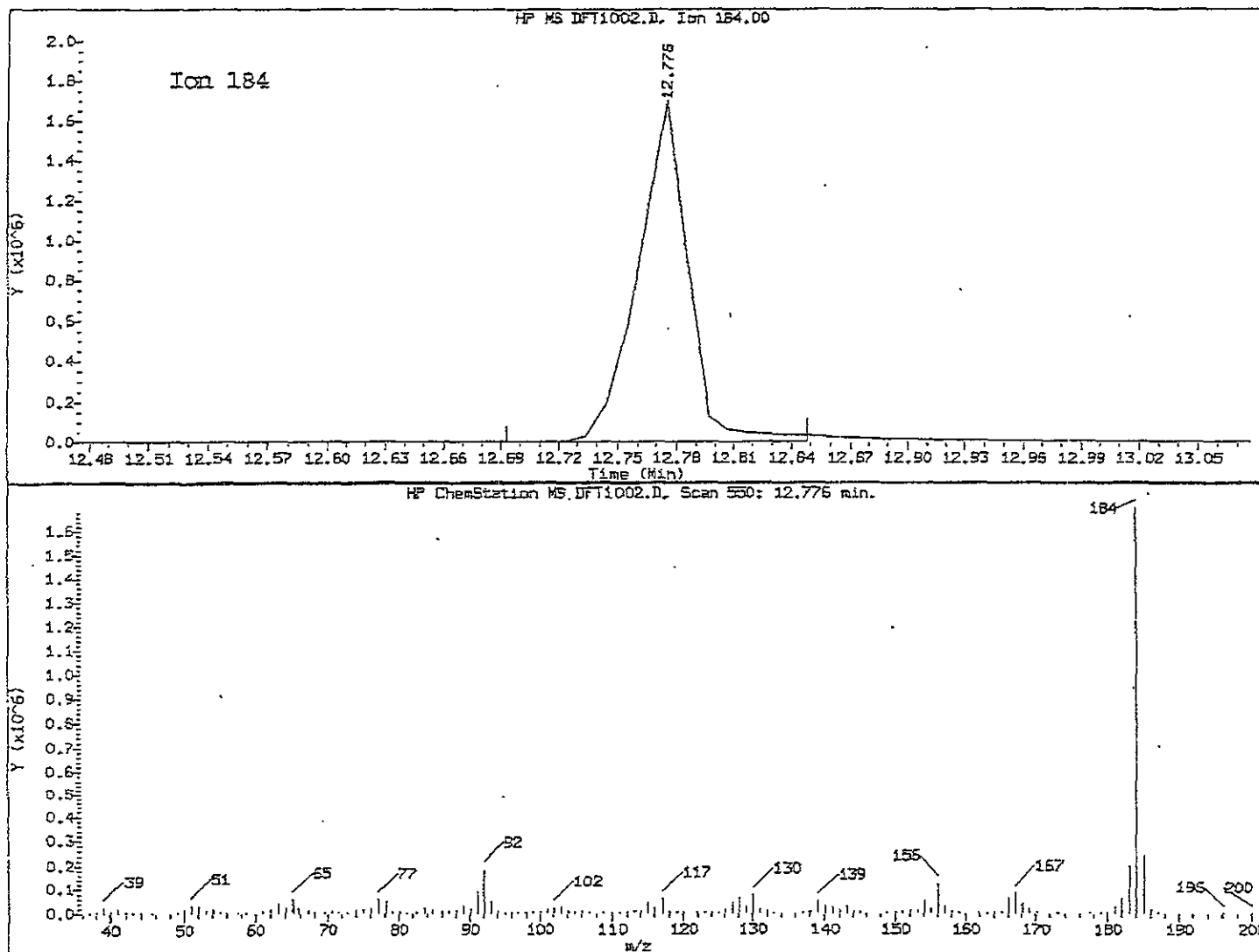
Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683 Maximum Allowed = 5.0



Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFIIPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;  
Misc Info: 50ul DFIPP 10MSSV0129



Benzidine

Exp. RT = 12.911  
Found RT = 12.776

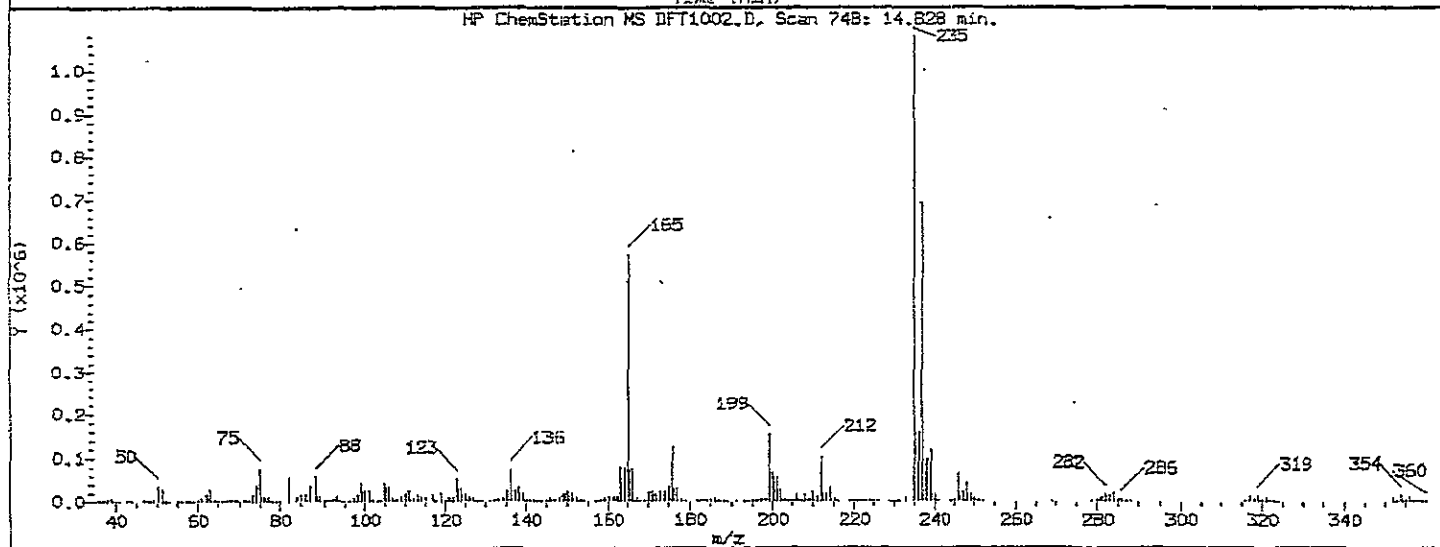
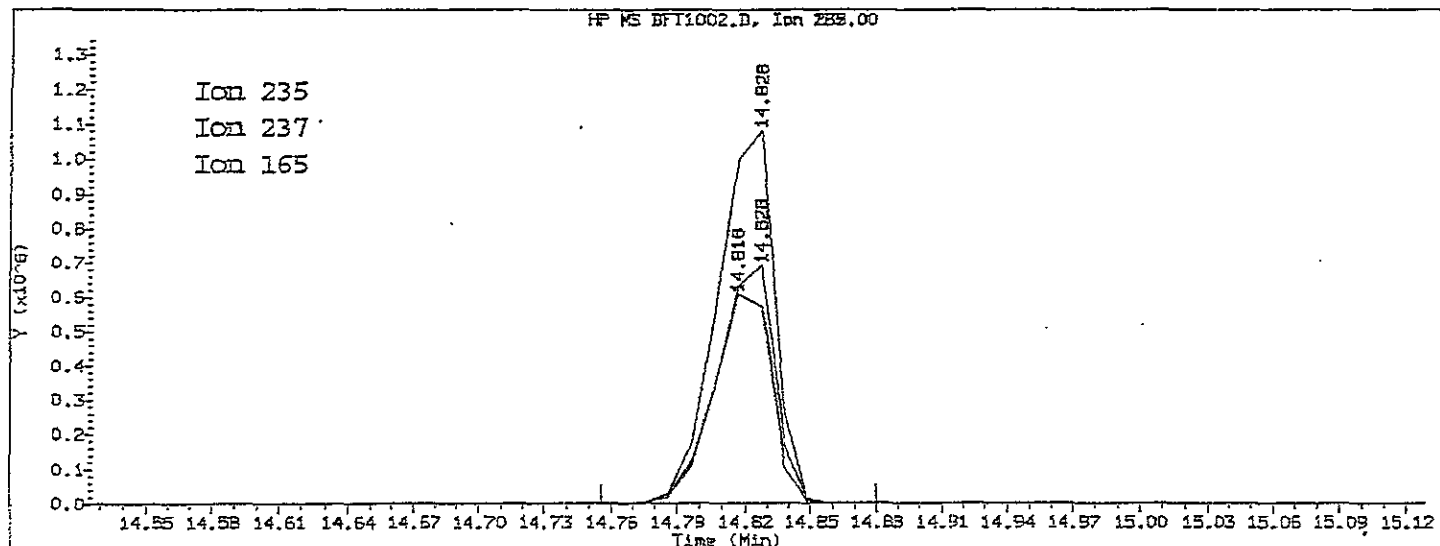
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFIPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;  
Misc Info: 50ul DFIPP 10MSSV0129



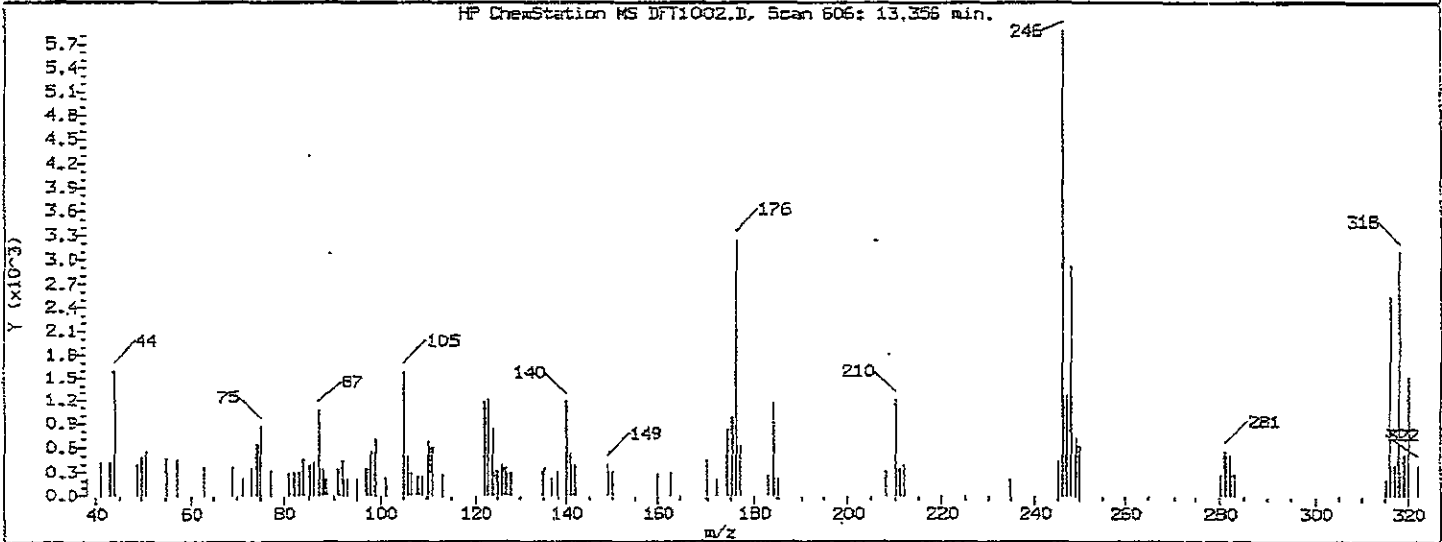
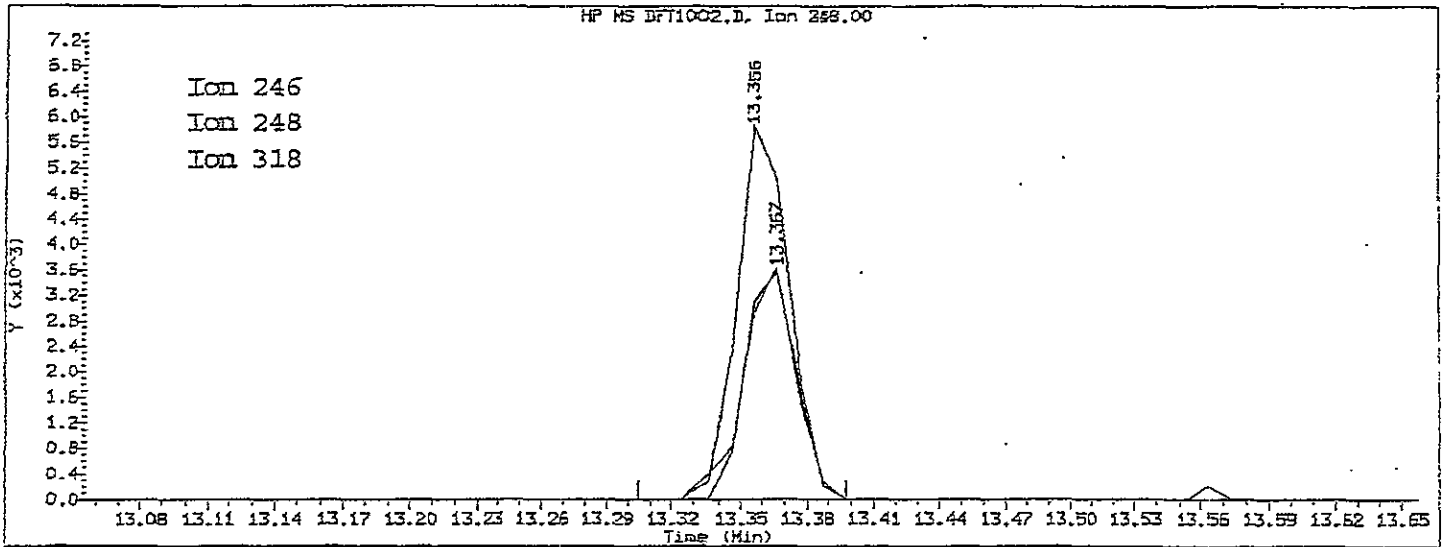
4,4'-DDT

Exp. RT = 14.942  
Found RT = 14.828

Mass	Area	Ratio
235	1937042	100.00
237	1226081	63.30
165	1111108	57.36

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



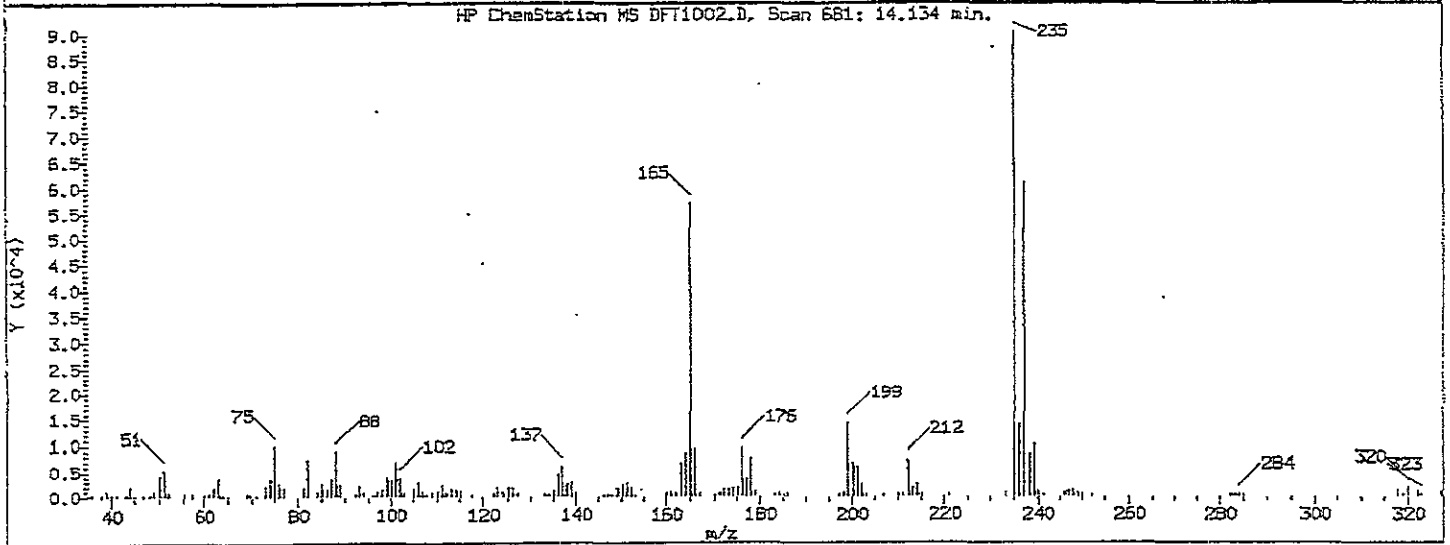
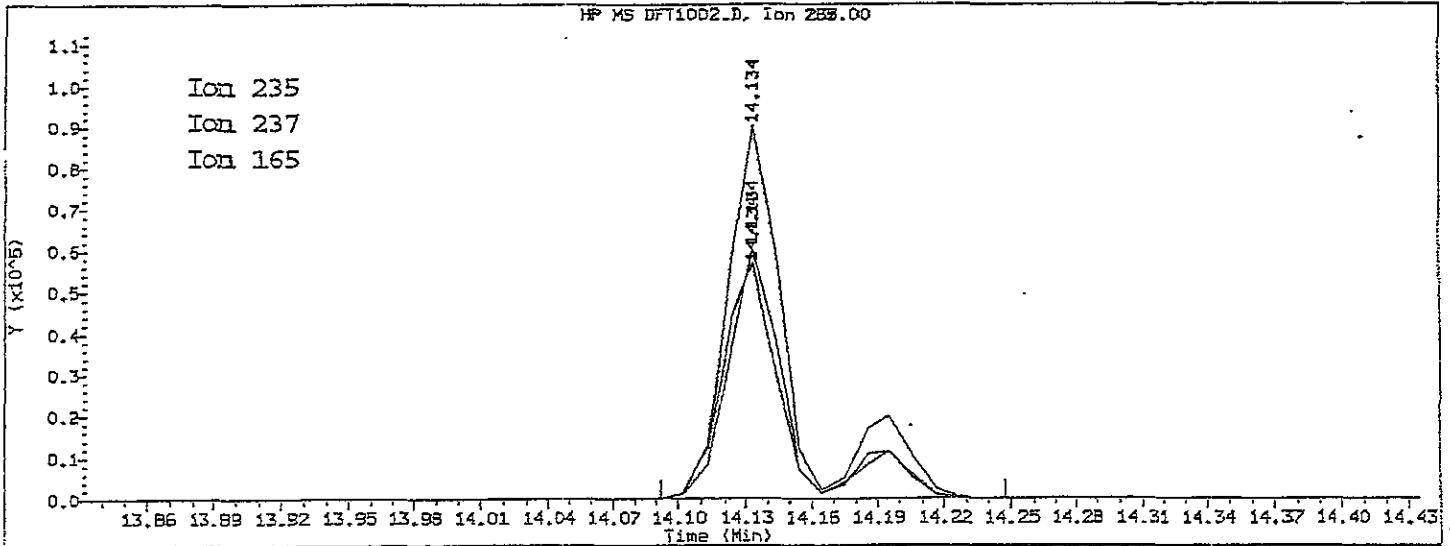
4,4'-DDE

Exp. RT = 13.470  
Found RT = 13.356

Mass	Area	Ratio
246	9630	100.00
248	5964	61.93
318	0	0.00

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;  
Misc Info: 50ul DFIPP 10MSSV0129

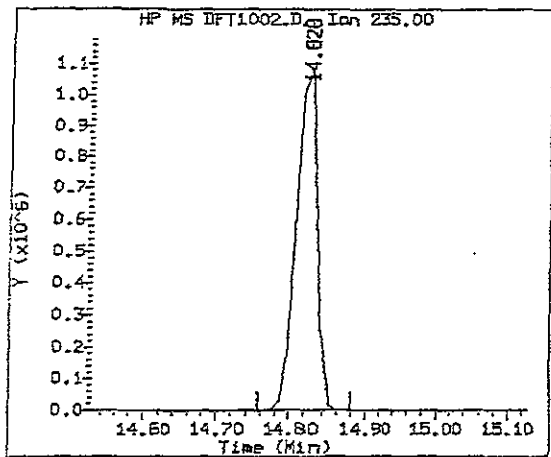


4, 4'-DDD

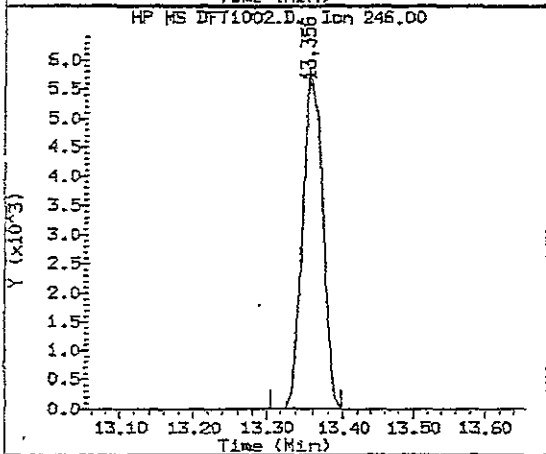
Exp. RT = 14.248

Found RT = 14.134

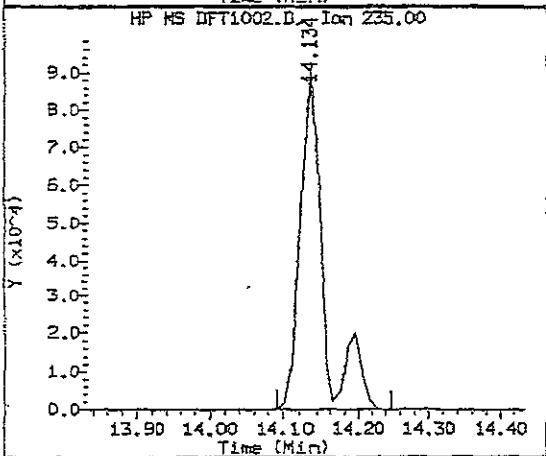
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 14.828  
 Area: 1937042



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.356  
 Area: 9630



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.134  
 Area: 180277

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	189907	8.9	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\100210.B\DFT1002.D  
 Lab Smp Id: DF1PP 50ug/ml  
 Inj Date : 02-OCT-2010 12:06  
 Operator : KT Inst ID: sv5.i  
 Smp Info : DF1PP 50ug/ml;  
 Misc Info : 50ul DF1PP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\100210.B\DFT1PP.m  
 Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD  
 Cal Date : Cal File:  
 Als bottle: 96 QC Sample: DF1PP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: SV5

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	OR-COL	FINAL	TARGET RANGE	RATIO
				( ug/L)	( ug/L)			
1 df1pp				CAS #: 5074-71-5				
0.000	11.201	( 0.000)	198	746588			0.00- 100.00	100.00
0.000	11.201	( 0.000)	51	320640			30.00- 80.00	42.94
0.000	11.201	( 0.000)	68	4826			0.00- 2.00	1.62
0.000	11.201	( 0.000)	69	298048			0.00- 0.00	39.92
0.000	11.201	( 0.000)	70	1813			0.00- 2.00	0.64
0.000	11.201	( 0.000)	127	406528			25.00- 75.00	54.44
0.000	11.201	( 0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
0.000	11.201	( 0.000)	199	49104			5.00- 9.00	6.58
0.000	11.201	( 0.000)	275	170816			10.00- 30.00	22.88
0.000	11.201	( 0.000)	365	20496			0.75- 0.00	2.74
0.000	11.201	( 0.000)	441	100984			0.01- 99.99	74.22
0.000	11.201	( 0.000)	442	702528			40.00- 110.00	64.09
0.000	11.201	( 0.000)	443	136064			15.00- 24.00	19.37

Date : 02-OCT-2010 12:06

Client ID:

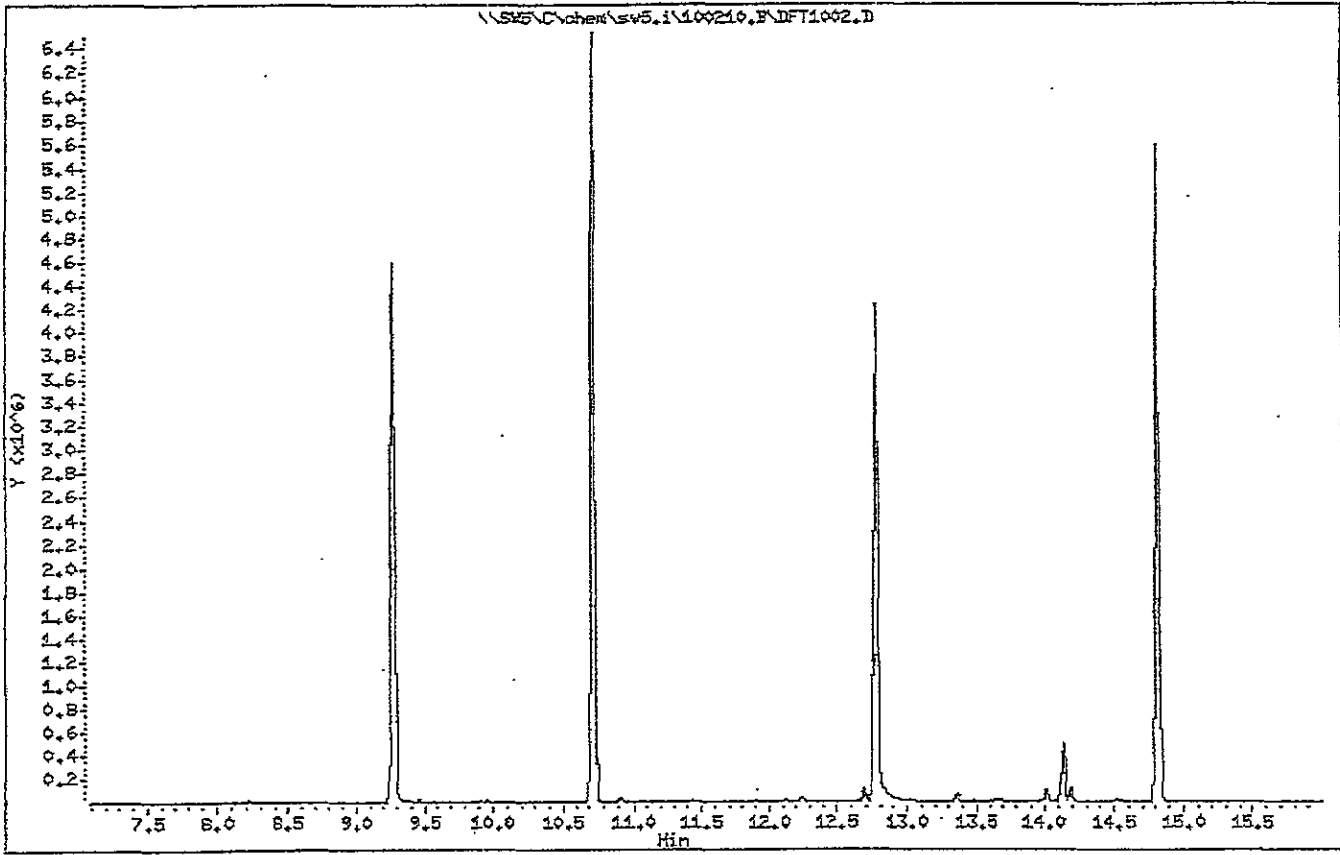
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KI

Column phase:

Column diameter: 2.00



Date: 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

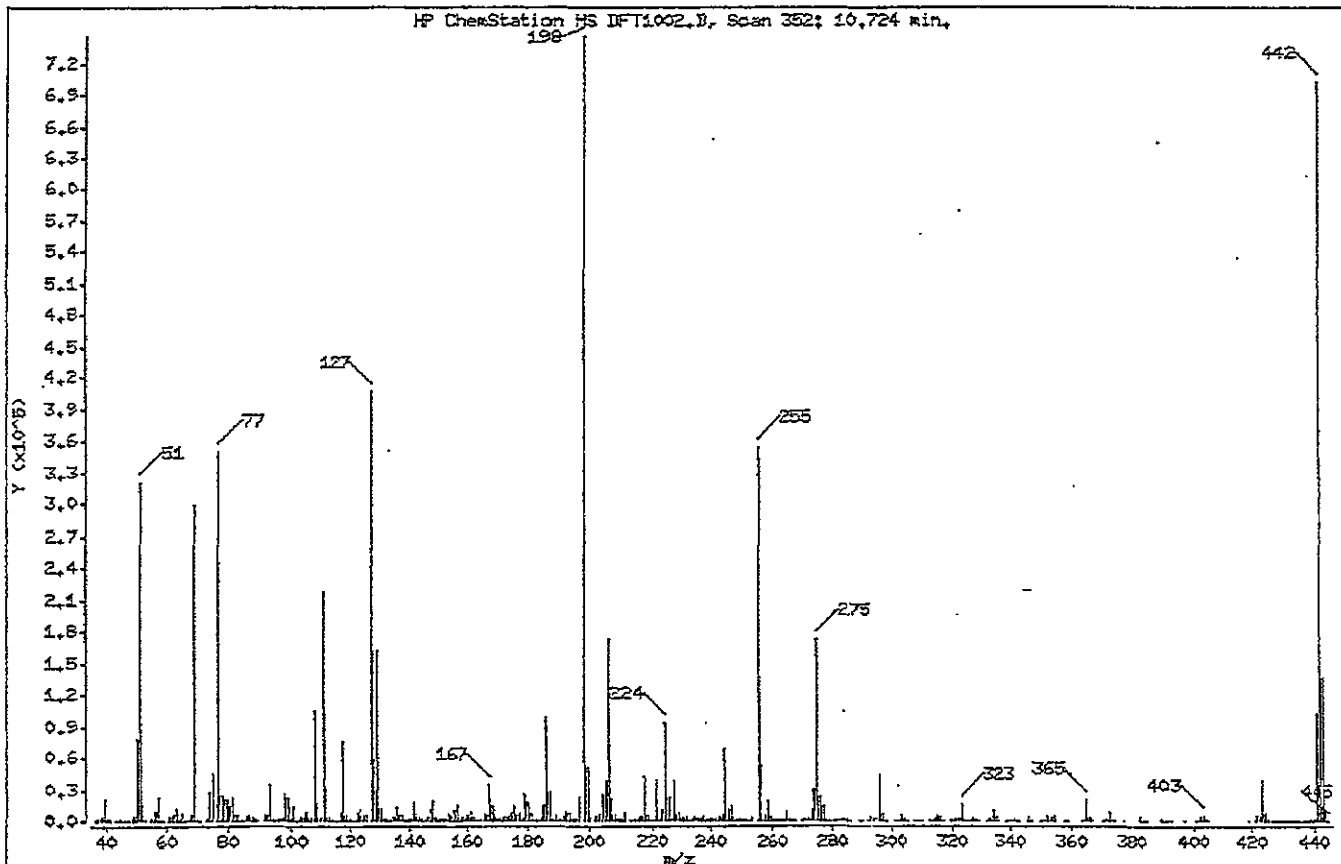
Sample Info: IFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

1 of 1pp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	42.94
69	Less than 2.00% of mass 69	0.65 ( 1.62)
69	Mass 69 relative abundance	39.92
70	Less than 2.00% of mass 69	0.26 ( 0.64)
127	25.00 - 75.00% of mass 198	54.44
157	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	22.88
365	Greater than 0.75% of mass 198	2.74
441	Present, but less than mass 443	13.52
442	40.00 - 110.00% of mass 198	94.09
443	15.00 - 24.00% of mass 442	18.22 ( 19.37)



Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: IFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: IFT1002.D

Spectrum: HP ChemStation MS IFT1002.D, Scan 352: 10.724 min.

Location of Maximum: 198.00

Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	203	130.00	12809	219.20	447	321.00	1763
37.10	1216	131.00	2287	221.00	37608	322.10	913
38.10	3314	132.00	1225	223.10	9674	323.10	16294
39.10	21392	133.00	620	224.10	93432	324.10	2245
40.00	1076	134.00	3794	225.10	21544	324.80	382
41.10	949	135.10	11378	226.10	1736	326.00	507
43.10	352	136.00	4886	227.00	37976	327.00	2789
44.00	922	137.00	5203	228.00	4945	328.00	1262
45.00	428	138.00	1265	229.00	7548	329.10	343
47.00	204	139.00	791	230.00	1024	331.30	894
49.10	2676	140.00	2233	231.10	2757	333.00	1455
50.10	77024	141.00	17480	232.00	528	334.10	9590
51.10	320640	142.00	7259	233.00	641	335.00	2774
52.10	16189	143.00	3921	234.00	2909	336.00	291
53.10	963	144.00	1375	235.00	2419	339.00	369
55.00	1815	145.10	829	236.10	1608	340.00	399
56.00	8872	146.00	3251	237.00	3192	341.00	2042
57.00	22504	147.00	9463	238.00	581	342.10	852
58.00	755	148.00	18744	239.00	1185	343.20	220
59.10	372	149.00	4031	240.00	1065	346.00	2819
61.00	3888	150.10	1094	241.00	1870	346.90	608
62.00	4800	151.20	2277	242.00	3682	350.30	205
63.10	11199	152.10	1506	243.10	4924	351.00	283
64.10	1448	153.00	6113	244.10	66488	352.00	5049
65.10	6509	154.00	5445	245.10	9885	353.10	3110
66.00	499	155.00	10151	246.00	14373	354.00	5432
67.10	461	156.10	14866	247.00	3022	355.00	1087
68.00	4826	157.10	3676	248.10	618	358.00	241
69.00	298048	158.10	3734	249.00	2441	359.00	574
70.10	1913	159.00	2313	250.00	627	363.50	249
71.10	410	160.00	5246	250.90	1000	365.00	20496
73.10	2021	161.10	8666	252.00	755	366.00	3156
74.00	28000	162.00	2863	253.10	2603	367.00	225
75.00	45304	163.10	562	255.00	353024	370.10	477
76.10	15795	164.00	1067	256.00	51440	370.90	1541

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D  
 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.  
 Location of Maximum: 198.00  
 Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	349952	165.00	6962	257.00	4474	372.10	8489
78.10	23464	166.00	5717	258.00	19504	373.10	1814
79.00	20048	167.00	33648	259.10	3095	373.90	348
80.00	14146	168.00	13822	260.00	645	377.10	263
81.00	22008	169.00	2802	261.10	797	383.00	2624
82.00	5822	170.00	1014	262.20	249	383.90	598
83.00	5093	171.00	1339	263.00	259	385.00	289
84.00	814	172.00	3224	264.10	532	390.00	1367
85.00	3848	173.00	4109	265.00	7904	391.00	754
86.00	5985	174.00	7189	266.00	1181	392.10	664
87.00	2652	175.10	13638	267.20	204	393.20	281
88.00	1078	176.10	4293	267.60	232	397.00	230
89.00	472	177.00	6577	270.00	489	400.90	335
91.00	5074	178.10	1572	271.00	901	402.00	3464
92.00	5292	179.00	25912	272.10	1129	403.00	5568
93.00	34848	180.00	15984	273.00	10963	404.10	1777
94.00	2386	181.00	7182	274.00	30032	405.00	292
95.00	749	182.00	1353	275.00	170816	418.90	289
96.00	1660	183.00	559	276.10	22944	421.00	5400
97.10	1007	184.10	2227	277.00	13493	422.00	4183
98.00	25944	185.10	13301	278.10	2281	423.00	37592
99.00	21688	186.00	97584	279.00	648	424.00	6802
100.00	1844	187.10	27792	261.10	266	425.00	930
101.00	13609	188.10	2556	262.00	217	426.50	251
102.10	646	189.00	5094	283.00	1957	427.30	338
103.00	3748	189.90	756	284.00	1097	428.40	200
104.00	8390	191.10	2995	285.10	2569	429.20	300
105.00	8389	192.00	7909	286.10	444	430.20	272
106.10	3007	193.00	7605	289.00	691	431.10	404
107.00	104896	194.10	1998	290.10	589	431.50	324
108.00	17616	195.10	1331	292.10	763	432.20	298
109.00	3545	196.00	22448	293.00	3141	432.50	326
110.00	218112	198.00	746688	294.10	1275	433.30	317
111.00	30736	199.00	49104	296.00	42616	433.70	342
112.00	4281	200.00	4038	297.00	6196	434.30	362

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D  
 Spectrum: HP ChemStation HS DFT1002.D, Scan 352: 10.724 min.  
 Location of Maximum: 198.00  
 Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1310	201.60	4029	298.00	465	434.90	650
114.40	467	203.00	4788	301.00	504	435.90	530
115.00	646	204.00	23416	302.00	695	436.50	586
116.10	6327	205.00	36288	303.10	5810	436.90	846
117.00	75520	206.10	172362	304.00	2035	437.50	628
118.00	5507	207.10	24328	305.10	290	438.20	1136
119.00	839	208.00	5487	308.00	764	439.30	1267
120.10	1180	209.00	2186	309.10	446	441.00	100984
121.00	807	210.00	2002	310.00	839	442.00	702528
122.00	6408	211.10	7473	312.20	271	443.00	136064
123.00	10302	213.00	410	312.90	292	444.00	12344
124.00	4600	214.10	372	314.00	2431	445.10	689
125.00	4447	215.10	1837	315.00	5363		
127.00	406528	216.00	3226	316.00	2900		
128.00	28392	217.00	41648	317.10	353		
129.00	161024	218.00	5398	319.80	287		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 005 ug/ml CS-1;1;1;1;1;4  
 Misc Info : 3;0;1 8270STD.SUB;10MSSV0307;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 1 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QDANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	OR-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955 (1.000)	141539	40.0000		
* 2 Naphthalene-d8	136	5.374	5.374 (1.000)	605687	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468 (1.000)	321839	40.0000		
* 4 Phenanthrene-d10	188	9.406	9.405 (1.000)	496356	40.0000		
* 5 Chrysene-d12	240	13.779	13.779 (1.000)	453007	40.0000		
* 6 Perylene-d12	264	16.162	16.162 (1.000)	445119	40.0000		
\$ 7 2-Fluorophenol	112	2.742	2.732 (0.693)	25566	5.00000	5.124	
\$ 8 Phenol-d5	99	3.613	3.613 (0.914)	30471	5.00000	4.857	
\$ 9 2-Chlorophenol-d4	132	3.758	3.758 (0.950)	26144	5.00000	4.745	
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162 (1.052)	16945	5.00000	4.861	
\$ 11 Nitrobenzene-d5	82	4.576	4.576 (0.852)	25006	5.00000	4.874 (M)	
\$ 12 2-Fluorobiphenyl	172	6.680	6.680 (0.895)	51695	5.00000	4.986	
\$ 13 2,4,6-Tribromophenol	330	8.473	8.473 (1.135)	6048	5.00000	4.925	
\$ 14 Terphenyl-d14	244	12.017	12.017 (0.872)	44456	5.00000	4.982	
15 N-Nitrosodimethylamine	74	1.716	1.706 (0.434)	16436	5.00000	5.040 (q)	
16 Pyridine	79	1.737	1.726 (0.439)	29567	5.00000	5.422 (q)	
23 Aniline	93	3.654	3.654 (0.924)	39064	5.00000	4.892 (Q)	
24 Phenol	94	3.623	3.623 (0.916)	36112	5.00000	5.009 (Q)	
26 Bis(2-chloroethyl) ether	93	3.716	3.716 (0.940)	26067	5.00000	5.157	
27 2-Chlorophenol	128	3.768	3.768 (0.953)	26910	5.00000	4.863	
28 1,3-Dichlorobenzene	146	3.923	3.923 (0.952)	29863	5.00000	4.958	
29 1,4-Dichlorobenzene	146	3.975	3.975 (1.005)	31337	5.00000	4.972	
30 Benzyl Alcohol	108	4.120	4.120 (1.042)	17983	5.00000	4.835	
31 1,2-Dichlorobenzene	146	4.172	4.172 (1.055)	28663	5.00000	4.947	
32 2-Methylphenol	108	4.255	4.255 (1.075)	24914	5.00000	4.923	
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297 (1.086)	40622	5.00000	5.049	
34 4-Methylphenol	108	4.421	4.421 (1.118)	26292	5.00000	4.891	
36 Hexachloroethane	117	4.504	4.504 (1.139)	10779	5.00000	5.024	
37 N-Nitrosodimpropylamine	70	4.442	4.442 (1.123)	16719	5.00000	4.670	
42 Nitrobenzene	77	4.597	4.597 (0.855)	24875	5.00000	4.960	
44 Isophorone	82	4.856	4.856 (0.904)	48024	5.00000	4.980	
45 2-Nitrophenol	139	4.960	4.960 (0.923)	14088	5.00000	4.735	
46 2,4-Dimethylphenol	107	5.012	5.012 (0.933)	26069	5.00000	4.935	

by  
10-7-10

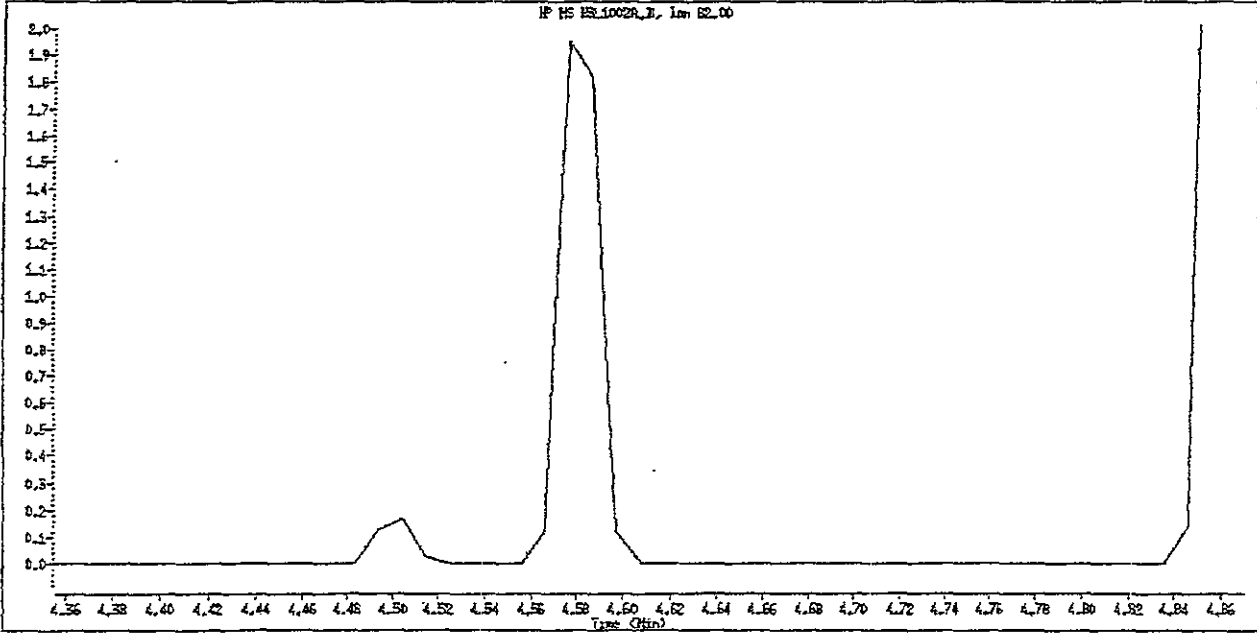
Compounds	QUANT SIG MASS	RT	REP RT	REL RT	RESPONSE	AMOUNTS	
						CR1-AMT ( NG)	CR1-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50 Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	22282	5.00000	5.032
52 Naphthalene	128	5.395	5.395	(1.004)	83236	5.00000	4.977
54 4-Chloroaniline	127	5.488	5.488	(1.021)	30853	5.00000	4.707
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	10823	5.00000	4.994
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	22205	5.00000	4.862
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	51849	5.00000	4.936
65 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	10813	5.00000	4.503
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	12546	5.00000	4.886
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	12400	5.00000	4.483
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	45713	5.00000	5.047
73 2-Nitroaniline	65	6.949	6.949	(0.931)	12703	5.00000	4.627
76 Dimethylphthalate	163	7.219	7.229	(0.967)	49639	5.00000	4.760
77 Acenaphthylene	152	7.281	7.281	(0.975)	75041	5.00000	4.758
79 2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	11404	5.00000	4.694 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	14226	5.00000	4.691 (Q)
81 Acenaphthene	153	7.509	7.509	(1.006)	50639	5.00000	5.044
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	4083	5.00000	6.945 (q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	63477	5.00000	4.764
84 4-Nitrophenol	109	7.675	7.675	(1.028)	5114	5.00000	4.065 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	13823	5.00000	4.335 (q)
91 Fluorene	166	8.131	8.131	(1.089)	54136	5.00000	4.906
92 Diethylphthalate	149	8.100	8.100	(1.085)	49177	5.00000	4.606
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	22112	5.00000	4.820
94 4-Nitroaniline	138	8.214	8.214	(1.100)	13415	5.00000	4.463
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	5780	5.00000	7.325 (q)
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	41998	5.86000	5.582
100 Azobenzene	77	8.348	8.348	(0.888)	48101	5.00000	4.928
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	11766	5.00000	4.856
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	14244	5.00000	5.264
110 Pentachlorophenol	266	9.240	9.240	(0.982)	5849	5.00000	7.264
114 Phenanthrene	178	9.437	9.437	(1.003)	80873	5.00000	5.169
115 Anthracene	178	9.499	9.499	(1.010)	77577	5.00000	4.963
118 Carbazole	167	9.768	9.768	(1.039)	70241	5.00000	4.920
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	79722	5.00000	4.641
126 Fluoranthene	202	11.302	11.302	(1.202)	64427	5.00000	4.596
127 Benzidine	184	11.571	11.571	(0.840)	44267	5.00000	4.822
128 Pyrene	202	11.665	11.665	(0.847)	71230	5.00000	5.030
134 3,3'-Dimethylbenzidine	212	12.867	12.867	(0.934)	37074	5.00000	4.574
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	36798	5.00000	5.185
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	62384	5.00000	5.170
139 Chrysene	228	13.820	13.831	(1.003)	59618	5.00000	4.830
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	22168	5.00000	4.870
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	51997	5.00000	5.319
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	76353	5.00000	4.886
144 Benzo (b) Fluoranthene	252	15.572	15.582	(0.963)	45075	5.00000	4.473 (Q)
145 Benzo (k) Fluoranthene	252	15.613	15.623	(0.966)	68403	5.00000	5.288 (q)
147 Benzo (e) pyrene	252	15.996	16.007	(0.990)	50295	5.00000	4.786
148 Benzo (a) pyrene	252	16.069	16.079	(0.994)	54694	5.00000	4.788
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.101)	41053	5.00000	4.443
152 Dibenzo (a,h) anthracene	278	17.841	17.841	(1.104)	49018	5.00000	4.749
153 Benzo (g,h,i) perylene	276	18.224	18.235	(1.128)	53428	5.00000	4.761

Compounds	QUANT SIG MASS	PT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	QS-COL ( NG)
M 152 benzo b,k Fluoranthene Totals	252				113478	5.00000	4.931(A)

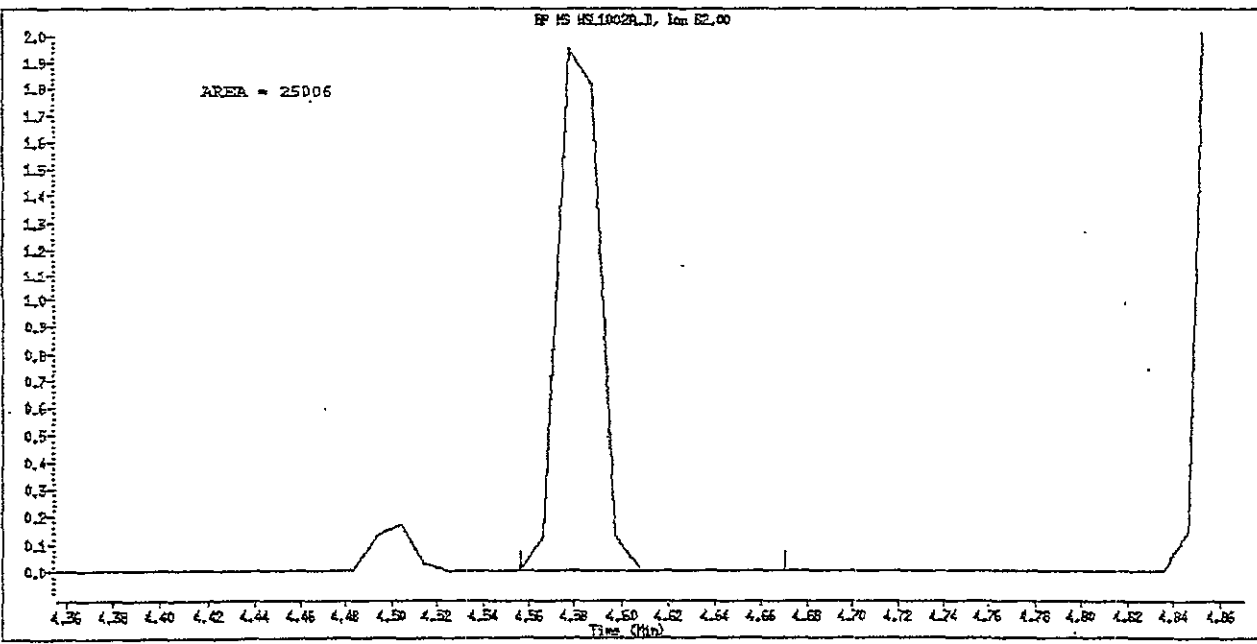
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002A.D  
Inj. Date and Time: 02-OCT-2010 12:27  
Instrument ID: svS.i  
Client ID: 8270F.M  
Compound Name: Nitrobenzene-25  
CAS #: 4165-60-0  
Report Date: 10/03/2010



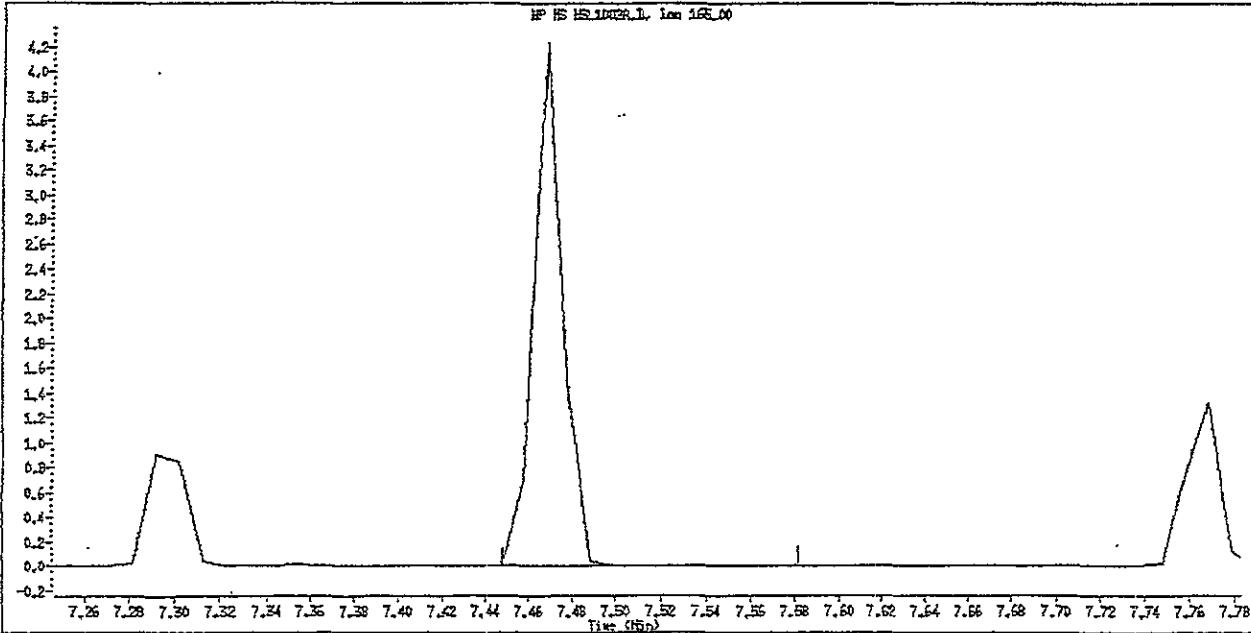
Original Integration



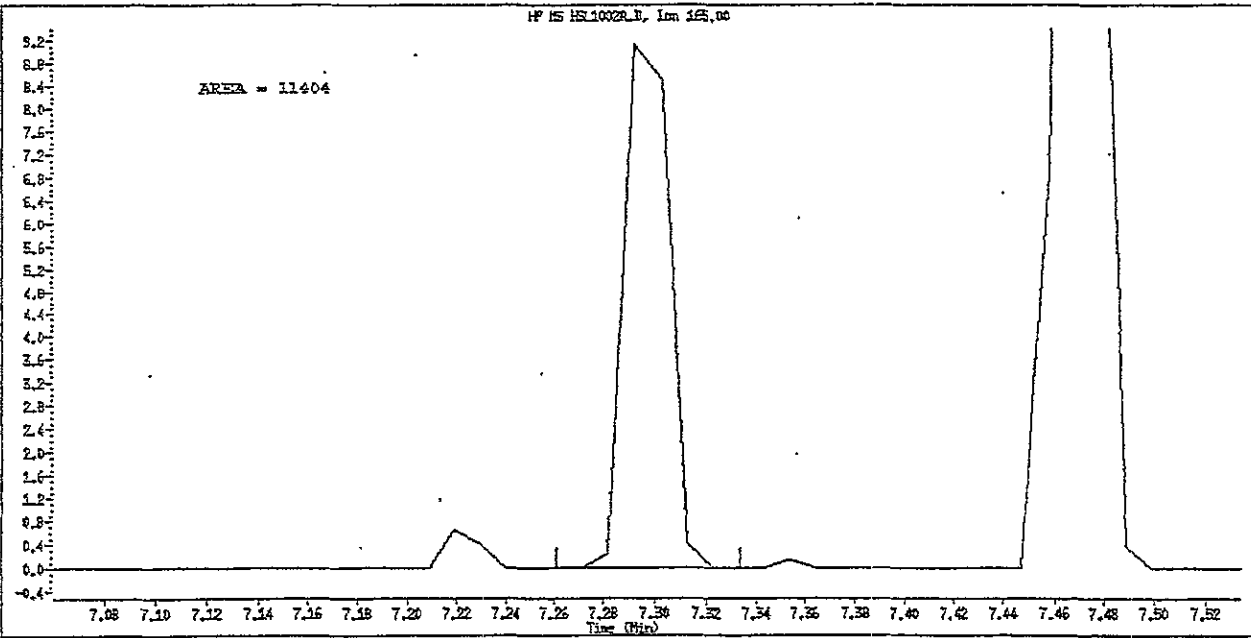
Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Peak Not Found

Data File Name: HSI1002A.D  
Inj. Date and Time: 02-OCT-2010 12:27  
Instrument ID: svS.i  
Client ID: 82707.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Wrong Peak



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 005 ug/ml CS-1;1;1;1;1;1;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0307;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D  
 Als bottle: 1 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SIG	MASS	AMOUNTS				CAL-AMT (. NG)	CON-COL (. NG)	
			RT	EXP RT	REL RT	RESPONSE			
* 1 1,4-Dichlorobenzene-d4	152		3.955	3.955	(1.000)	141539	40.0000	(Q)	
* 2 Naphthalene-d8	136		5.374	5.374	(1.000)	605687	40.0000		
* 3 Acenaphthene-d10	164		7.468	7.468	(1.000)	321839	40.0000		
* 4 Phenanthrene-d10	188		9.406	9.405	(1.000)	496356	40.0000		
* 5 Chrysenes-d12	240		13.779	13.779	(1.000)	453007	40.0000		
* 6 Perylene-d12	264		16.162	16.162	(1.000)	445119	40.0000		
\$ 7 2-Fluorophenol	112		2.742	2.732	(0.693)	25566	5.00000	4.894	
\$ 8 Phenol-d5	99		3.613	3.613	(0.914)	30471	5.00000	4.587	
\$ 9 2-Chlorophenol-d4	132		3.758	3.758	(0.950)	26144	5.00000	4.626	
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	16945	5.00000	4.793	
\$ 11 Nitrobenzene-d5	82		Compound Not Detected.						
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	51695	5.00000	5.025	
\$ 13 2,4,6-Trichlorophenol	330		8.473	8.473	(1.135)	6048	5.00000	4.760	
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	44456	5.00000	5.032	
15 N-Nitrosodimethylamine	74		1.716	1.706	(0.434)	16436	5.00000	4.767 (q)	
16 Pyridine	79		1.737	1.726	(0.439)	29567	5.00000	5.146	
23 Aniline	93		3.654	3.654	(0.924)	39864	5.00000	4.689 (Q)	
24 Phenol	94		3.623	3.623	(0.916)	36112	5.00000	5.211 (Q)	
26 Bis(2-chloroethyl) ether	93		3.716	3.716	(0.940)	26057	5.00000	4.856	
27 2-Chlorophenol	128		3.768	3.768	(0.953)	26910	5.00000	4.813	
28 1,3-Dichlorobenzene	146		3.923	3.923	(0.992)	29883	5.00000	4.837	
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	31337	5.00000	5.017	
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	17983	5.00000	4.681	
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	28663	5.00000	4.842	
32 2-Methylphenol	108		4.255	4.255	(1.076)	24914	5.00000	4.770	
33 2,2'-oxybis(1-Chloropropane)	45		4.297	4.297	(1.086)	40622	5.00000	4.077	
34 4-Methylphenol	108		4.421	4.421	(1.118)	26292	5.00000	4.723	
36 Hexachloroethane	117		4.504	4.504	(1.139)	10779	5.00000	4.891	
37 N-Nitrosodimethylamine	70		4.442	4.442	(1.123)	16719	5.00000	4.298	
42 Nitrobenzene	77		4.597	4.597	(0.855)	24875	5.00000	4.659	
44 Isophorone	82		4.856	4.856	(0.904)	48024	5.00000	4.744	
45 2-Nitrophenol	139		4.960	4.960	(0.923)	14088	5.00000	4.833	
46 2,4-Dimethylphenol	107		5.012	5.012	(0.933)	26089	5.00000	4.820	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-BMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.126	5.126 (0.954)		31152	5.00000	5.259
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)		19256	5.00000	4.834
50 Benzoic Acid	122	5.064	5.115 (0.946)		12679	5.00000	4.202
51 1,2,4-Trichlorobenzene	180	5.322	5.322 (0.990)		22282	5.00000	5.160
52 Naphthalene	128	5.395	5.395 (1.004)		83236	5.00000	4.937
54 4-Chloroaniline	127	5.488	5.488 (1.021)		30853	5.00000	4.652
57 Hexachlorobutadiene	225	5.613	5.613 (1.044)		10823	5.00000	5.267
60 4-Chloro-3-Methylphenol	107	6.069	6.069 (1.129)		22205	5.00000	4.844
63 2-Methylnaphthalene	142	6.203	6.203 (1.154)		51849	5.00000	5.040
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.866)		10813	5.00000	4.405
69 2,4,6-Trichlorophenol	196	6.576	6.576 (0.881)		12546	5.00000	5.149
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.888)		12490	5.00000	4.633
71 2-Chloronaphthalene	162	6.784	6.784 (0.908)		45713	5.00000	5.066
73 2-Nitroaniline	65	6.949	6.949 (0.931)		12703	5.00000	4.204
76 Dimethylphthalate	163	7.219	7.229 (0.967)		49639	5.00000	4.763
77 Acenaphthylene	152	7.281	7.281 (0.975)		75041	5.00000	4.757
79 2,6-Dinitrotoluene	165	7.468	7.302 (1.000)		39415	5.00000	16.89 (Q)
80 3-Nitroaniline	138	7.447	7.447 (0.997)		14226	5.00000	4.597 (Q)
81 Acenaphthene	153	7.509	7.509 (1.006)		50639	5.00000	5.038
82 2,4-Dinitrophenol	184	7.571	7.571 (1.014)		4083	5.00000	5.740 (q)
83 Dibenzofuran	168	7.696	7.706 (1.031)		63477	5.00000	4.780
84 4-Nitrophenol	109	7.675	7.675 (1.028)		5114	5.00000	3.785 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768 (1.040)		13823	5.00000	4.422 (q)
91 Fluorene	166	8.131	8.131 (1.089)		54136	5.00000	4.976
92 Diethylphthalate	149	8.100	8.100 (1.085)		49177	5.00000	4.514
93 4-Chlorophenyl-phenylether	204	8.152	8.152 (1.092)		22112	5.00000	4.930
94 4-Nitroaniline	138	8.214	8.214 (1.100)		13415	5.00000	4.435
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276 (0.880)		5780	5.00000	8.076 (q)
98 N-Nitrosodiphenylamine	169	8.317	8.317 (0.884)		41998	5.86000	5.430
100 Azobenzene	77	8.348	8.348 (0.886)		48101	5.00000	4.470
101 4-Bromophenyl-phenylether	248	8.794	8.794 (0.935)		11766	5.00000	4.905
108 Hexachlorobenzene	284	8.981	8.981 (0.955)		14244	5.00000	5.498
110 Pentachlorophenol	266	9.240	9.240 (0.982)		5849	5.00000	3.762
114 Phenanthrene	178	9.437	9.437 (1.003)		80873	5.00000	5.224
115 Anthracene	178	9.499	9.499 (1.010)		77577	5.00000	4.979
118 Carbazole	167	9.768	9.768 (1.039)		70241	5.00000	4.847
120 Di-n-butylphthalate	149	10.463	10.463 (1.112)		79722	5.00000	4.549
126 Fluoranthene	202	11.302	11.302 (1.202)		64427	5.00000	4.624
127 Benzidine	184	11.571	11.571 (0.840)		44267	5.00000	4.759
128 Pyrene	202	11.665	11.665 (0.847)		71230	5.00000	5.029
134 3,3'-dimethylbenzidine	212	12.867	12.867 (0.934)		37074	5.00000	4.644
136 Butylbenzylphthalate	149	12.991	12.991 (0.943)		36798	5.00000	5.084
138 Benzo (a) Anthracene	228	13.758	13.758 (0.998)		62384	5.00000	5.220
139 Chrysene	228	13.820	13.831 (1.003)		59618	5.00000	4.801
140 3,3'-Dichlorobenzidine	252	13.799	13.799 (1.002)		22168	5.00000	5.069
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110 (1.024)		51997	5.00000	5.218
142 Di-n-octylphthalate	149	15.157	15.167 (1.100)		76953	5.00000	4.752
144 Benzo (h) fluoranthene	252	15.572	15.582 (0.963)		45075	5.00000	4.270 (Q)
145 Benzo (k) fluoranthene	252	15.613	15.623 (0.966)		68403	5.00000	5.546 (q)
147 Benzo (e) pyrene	252	15.996	16.007 (0.990)		50295	5.00000	4.807
148 Benzo (a) pyrene	252	16.069	16.079 (0.994)		54694	5.00000	4.761
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800 (1.101)		41053	5.00000	4.039
152 Dibenzo (a, h) anthracene	278	17.841	17.841 (1.104)		49018	5.00000	4.706
153 Benzo (g, h, i) perylene	276	18.224	18.235 (1.120)		53420	5.00000	4.784

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				113478	5.00000	4.958 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0307;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141539	15.42
2 Naphthalene-d8	530514	265257	1061028	605687	14.17
3 Acenaphthene-d10	282538	141269	565076	321839	13.91
4 Phenanthrene-d10	462722	231361	925444	496356	7.27
5 Chrysene-d12	435850	217925	871700	453007	3.94
6 Perylene-d12	422284	211142	844568	445119	5.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVEB\chem\svb.1\400210.M\HIL1002A.D

Date: 02-OCT-2010 12:27

Client ID: 8270F.N

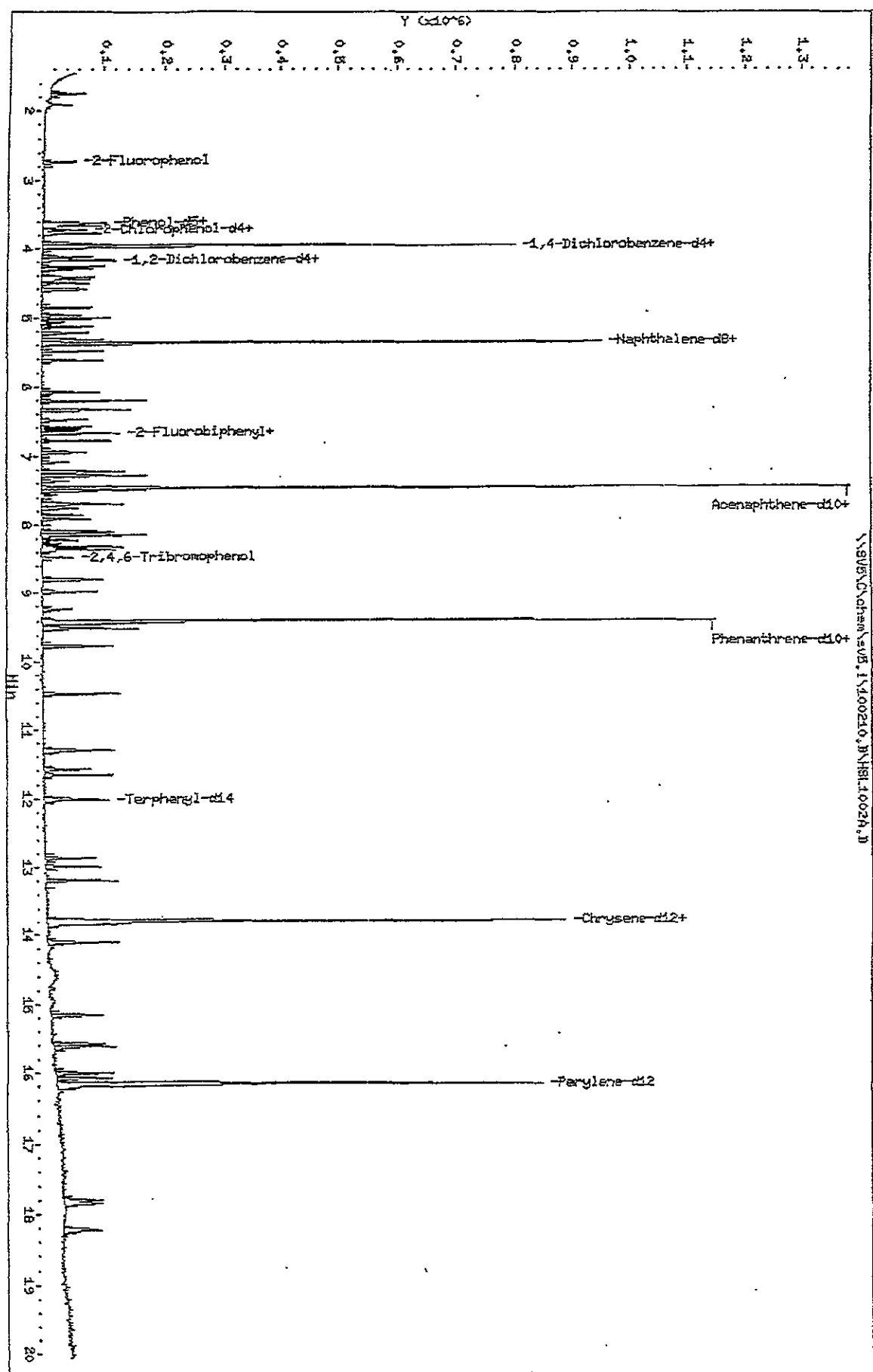
Sample Info: HIL\_005 ug/ml CS-1111111114

Column Phase: 1

Instrument: svb.1

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002B.D  
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955 (1.000)		116839	40.0000	(Q)
* 2 Naphthalene-d8	136	5.364	5.374 (1.000)		493196	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468 (1.000)		272639	40.0000	
* 4 Phenanthrene-d10	188	9.406	9.405 (1.000)		428440	40.0000	
* 5 Chrysene-d12	240	13.779	13.779 (1.000)		412260	40.0000	
* 6 Perylene-d12	264	16.162	16.162 (1.000)		419005	40.0000	
§ 7 2-Fluorophenol	112	2.732	2.732 (0.691)		38100	10.0000	9.251
§ 8 Phenol-d5	98	3.613	3.613 (0.914)		48878	10.0000	9.438
§ 9 2-Chlorophenol-d4	132	3.747	3.758 (0.948)		45430	10.0000	9.989
§ 10 1,2-Dichlorobenzene-d4	152	4.151	4.162 (1.050)		28658	10.0000	9.959
§ 11 Nitrobenzene-d5	82	4.576	4.576 (0.853)		42237	10.0000	10.11 (QM)
§ 12 2-Fluorobiphenyl	172	6.680	6.680 (0.895)		85886	10.0000	9.779
§ 13 2,4,6-Tribromophenol	330	8.473	8.473 (1.135)		11265	10.0000	9.308
§ 14 Terphenyl-d14	244	12.017	12.017 (0.872)		81026	10.0000	9.978
15 N-Nitrosodimethylamine	74	1.706	1.706 (0.431)		25783	10.0000	9.578 (q)
15 Pyridine	79	1.737	1.726 (0.439)		40141	10.0000	8.917 (Q)
23 Aniline	93	3.654	3.654 (0.924)		63074	10.0000	9.568 (q)
24 Phenol	94	3.623	3.623 (0.916)		57313	10.0000	9.631 (Q)
26 Bis(2-chloroethyl) ether	93	3.716	3.716 (0.940)		40383	10.0000	9.577
27 2-Chlorophenol	128	3.768	3.768 (0.953)		45449	10.0000	9.950
28 1,3-Dichlorobenzene	146	3.913	3.923 (0.990)		49415	10.0000	9.932
29 1,4-Dichlorobenzene	146	3.975	3.975 (1.005)		52537	10.0000	10.10
30 Benzyl Alcohol	108	4.120	4.120 (1.042)		30277	10.0000	9.862
31 1,2-Dichlorobenzene	146	4.172	4.172 (1.055)		47666	10.0000	9.966
32 2-Methylphenol	108	4.255	4.255 (1.076)		40581	10.0000	9.714
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297 (1.086)		64869	10.0000	9.768
34 4-Methylphenol	108	4.421	4.421 (1.118)		43497	10.0000	9.803
36 Hexachloroethane	117	4.504	4.504 (1.139)		17770	10.0000	10.03
37 N-Nitrosodipropylamine	70	4.442	4.442 (1.123)		28235	10.0000	9.587
42 Nitrobenzene	77	4.597	4.597 (0.857)		40198	10.0000	9.845
44 Isophorone	82	4.856	4.856 (0.905)		76804	10.0000	9.782
45 2-Nitrophenol	139	4.960	4.960 (0.925)		23221	10.0000	9.585
46 2,4-Dimethylphenol	107	5.012	5.012 (0.934)		42128	10.0000	9.787

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	YEL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50 Benzoic Acid	122	5.084	5.115	(0.946)	20056	10.0000	8.418
51 1,2,4-Trichlorobenzene	180	5.323	5.322	(0.992)	35544	10.0000	9.857
52 Naphthalene	128	5.395	5.395	(1.006)	138665	10.0000	10.18
54 4-Chloroaniline	127	5.488	5.488	(1.023)	52444	10.0000	9.825
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	17030	10.0000	9.650
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.131)	35592	10.0000	9.570
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	83922	10.0000	9.811
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	18919	10.0000	9.300
69 2,4,5-Trichlorophenol	196	6.576	6.576	(0.881)	20325	10.0000	9.344
70 2,4,5-Trichlorophenol	196	6.618	6.628	(0.886)	22419	10.0000	9.567
71 2-Chloronaphthalene	162	6.773	6.784	(0.907)	74574	10.0000	9.719
73 2-Nitroaniline	65	6.950	6.949	(0.931)	21647	10.0000	9.308
76 Dimethylphthalate	163	7.219	7.229	(0.967)	85330	10.0000	9.659
77 Acenaphthylene	152	7.281	7.281	(0.975)	130382	10.0000	9.758
79 2,5-Dinitrotoluene	165	7.291	7.302	(0.976)	18661	10.0000	9.067 (QM)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	23598	10.0000	9.186 (Q)
81 Acenaphthene	153	7.509	7.509	(1.006)	83474	10.0000	9.834
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	7537	10.0000	10.11 (Q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	110503	10.0000	9.789
84 4-Nitrophenol	109	7.675	7.675	(1.028)	9643	10.0000	9.049 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.046)	24530	10.0000	9.080
91 Fluorene	166	8.131	8.131	(1.089)	91225	10.0000	9.759
92 Diethylphthalate	149	8.100	8.100	(1.085)	88532	10.0000	9.788
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	38113	10.0000	9.807
94 4-Nitroaniline	138	8.214	8.214	(1.100)	23002	10.0000	9.033
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	11282	10.0000	11.10
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	74860	11.7000	11.53
100 Azobenzene	77	8.349	8.348	(0.888)	82437	10.0000	9.784
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	19623	10.0000	9.478
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	23622	10.0000	10.11
110 Pentachlorophenol	266	9.240	9.240	(0.982)	10551	10.0000	10.90
114 Phenanthrene	178	9.437	9.437	(1.003)	134966	10.0000	9.995
115 Anthracene	178	9.499	9.499	(1.010)	130416	10.0000	9.667
118 Carbazole	167	9.768	9.768	(1.039)	120549	10.0000	9.782
120 Di-n-butylphthalate	149	10.463	10.463	(1.112)	141693	10.0000	9.555
126 Fluoranthene	202	11.302	11.302	(1.202)	115262	10.0000	9.526
127 Benzidine	184	11.571	11.571	(0.840)	78774	10.0000	9.428
128 Pyrene	202	11.654	11.665	(0.846)	127577	10.0000	9.901
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	66361	10.0000	8.997
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	62632	10.0000	9.605
138 Benzo (a) Anthracene	228	13.748	13.758	(0.998)	102768	10.0000	9.360
139 Chrysene	228	13.820	13.831	(1.003)	113552	10.0000	10.11
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	38850	10.0000	9.379
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	83377	10.0000	9.372
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	126961	10.0000	8.928
144 Benzo (b) Fluoranthene	252	15.572	15.582	(0.963)	84929	10.0000	8.954 (Q)
145 Benzo (k) Fluoranthene	252	15.613	15.623	(0.966)	122065	10.0000	10.02 (Q)
147 Benzo (e) pyrene	252	15.996	15.007	(0.990)	97140	10.0000	9.821
148 Benzo (a) pyrene	252	16.069	16.079	(0.994)	102327	10.0000	9.516
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.101)	76748	10.0000	8.824
152 Dibenzo (a, h) anthracene	278	17.841	17.841	(1.104)	88393	10.0000	9.097
153 Benzo (g, h, i) perylene	276	18.224	18.235	(1.128)	103135	10.0000	9.804

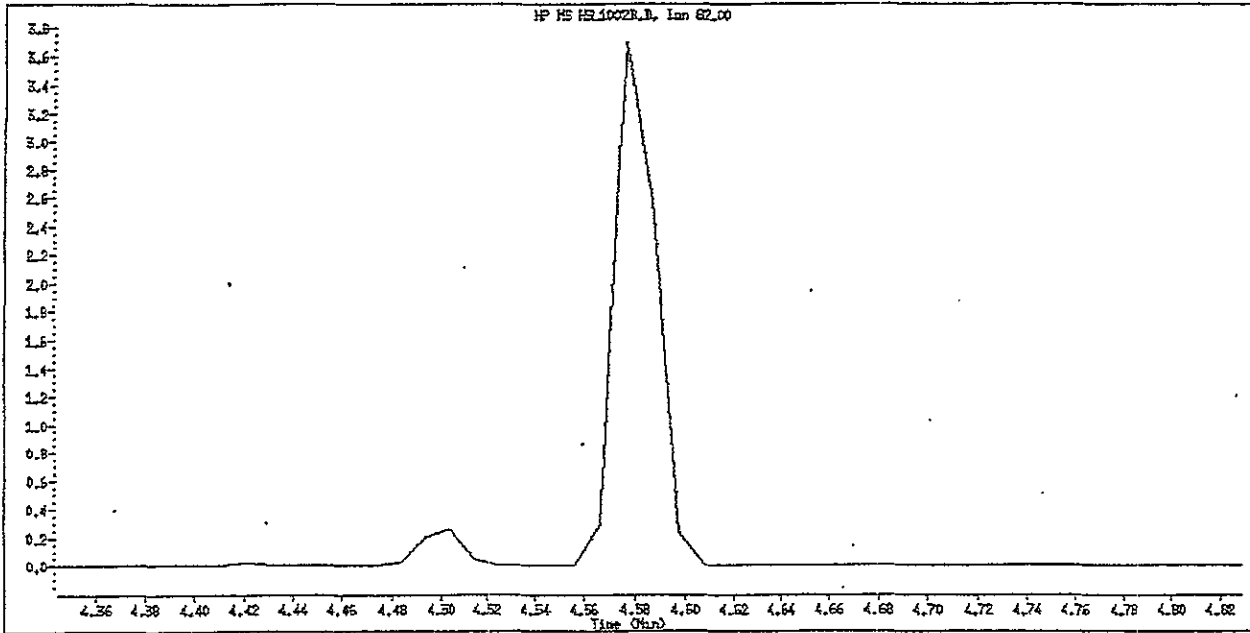
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	CR-COL ( NG)	
M 162 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.556 (A)	

QC Flag Legend

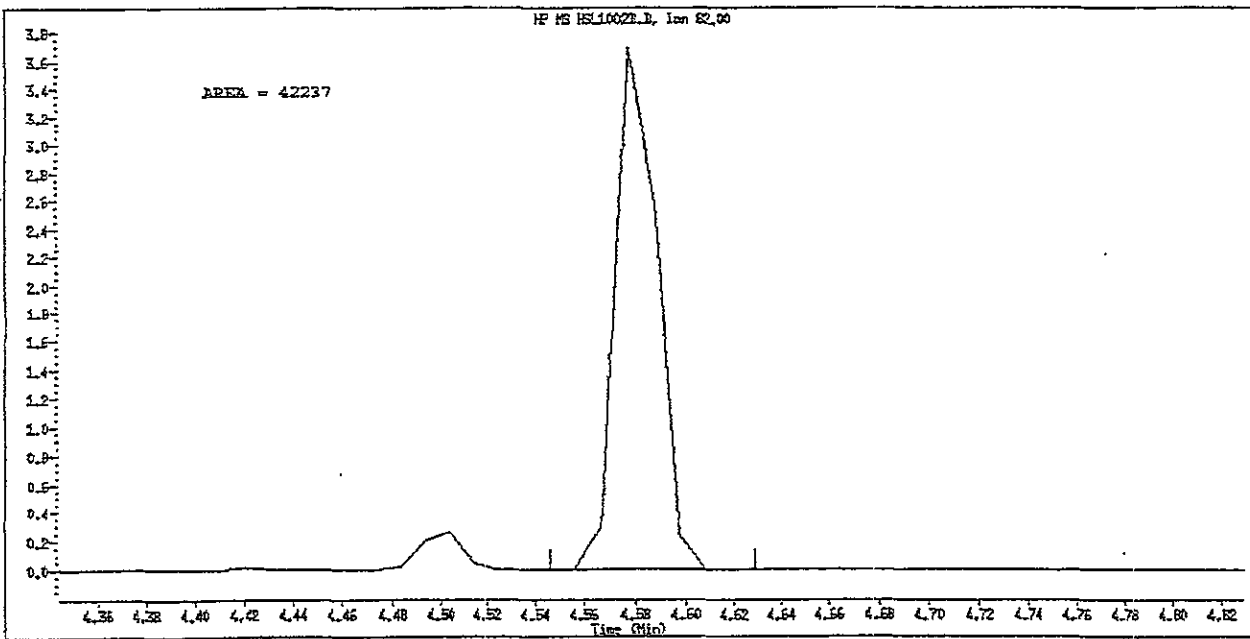
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.



Data File Name: HSI1002B.D  
Inj. Date and Time: 02-OCT-2010 12:53  
Instrument ID: svS.i  
Client ID: 827DF.M  
Compound Name: Nitrobenzene-d5  
CAS #: 4165-60-0  
Report Date: 10/03/2010



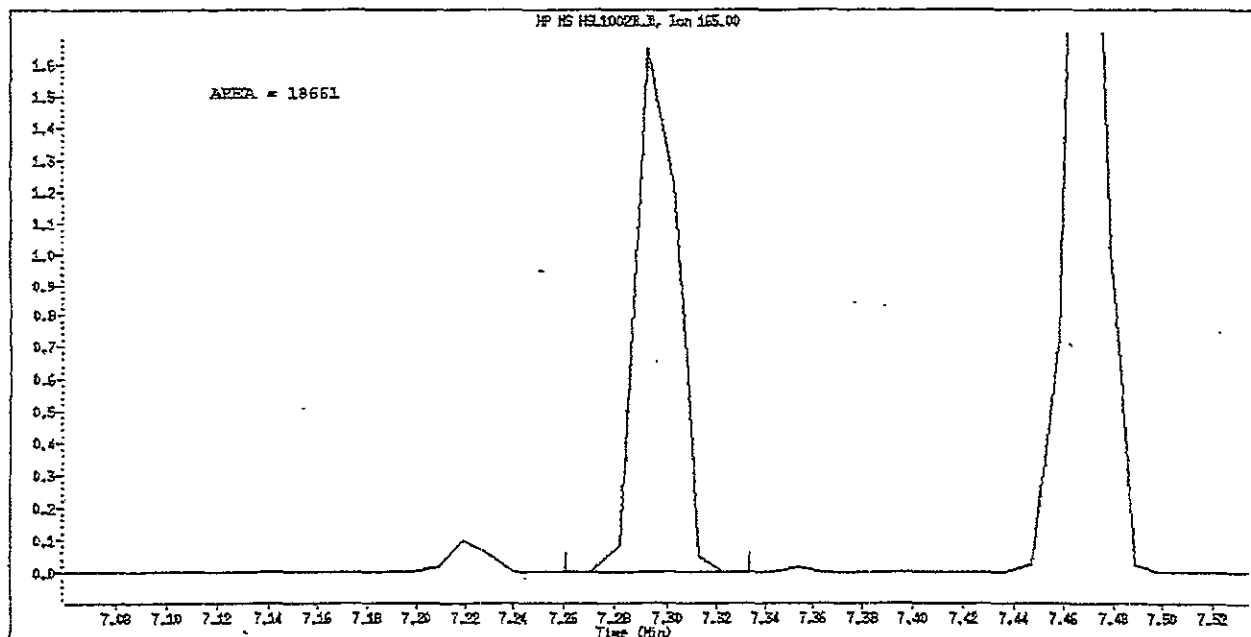
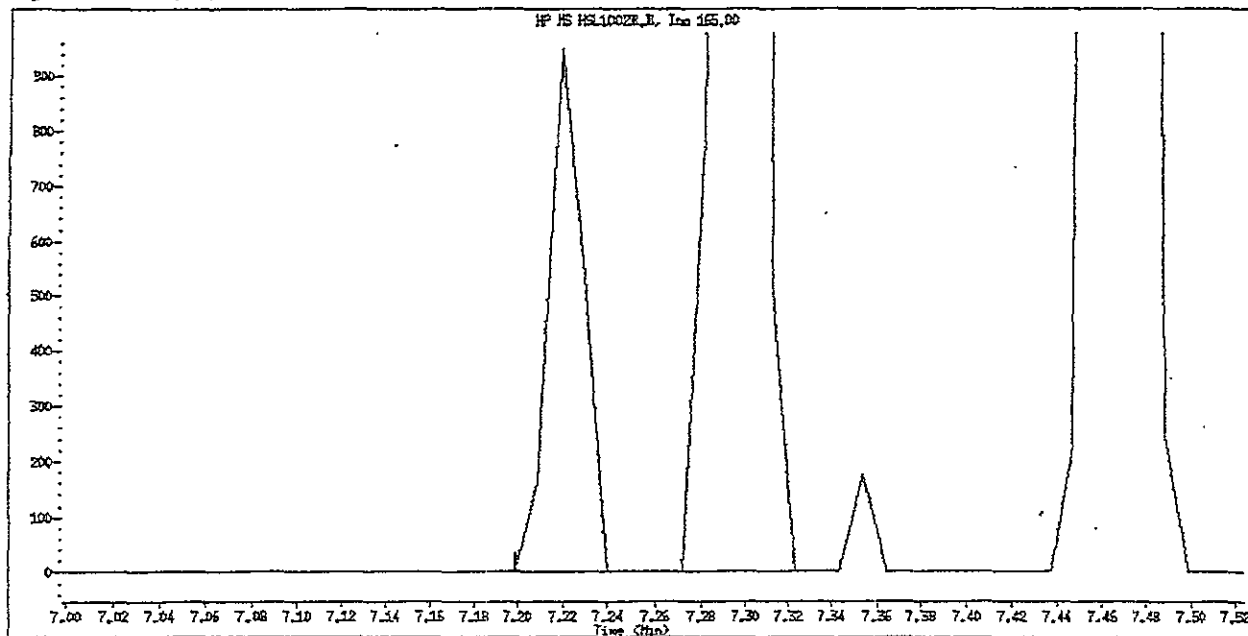
Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002B.D  
Inj. Date and Time: 02-OCT-2010 12:53  
Instrument ID: svS.1  
Client ID: 827CF.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 10/03/2010



Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SIG	MASS	RT	EXP RT	RES RT	RESPONSE	AMOUNTS		
							CAL-AMT ( NG)	ON-COL ( NG)	
* 1 1,4-Dichlorobenzene-d4		152	3.955	3.955	(1.000)	116839	40.0000	(Q)	
* 2 Naphthalene-d8		136	5.364	5.374	(1.005)	493196	40.0000		
* 3 Acenaphthene-d10		164	7.468	7.468	(1.000)	272639	40.0000		
* 4 Phenanthrene-d10		188	9.406	9.405	(1.000)	428440	40.0000		
* 5 Chrysene-d12		240	13.779	13.779	(1.000)	412260	40.0000		
* 6 Perylene-d12		254	16.162	16.162	(1.000)	419005	40.0000		
\$ 7 2-Fluorophenol		112	2.732	2.732	(0.691)	36100	10.0000	8.835	
\$ 8 Phenol-d5		99	3.613	3.613	(0.914)	48878	10.0000	8.513	
\$ 9 2-Chlorophenol-d4		132	3.747	3.758	(0.948)	45430	10.0000	9.716	
\$ 10 1,2-Dichlorobenzene-d4		152	4.151	4.162	(1.050)	28658	10.0000	9.820	
\$ 11 Nitrobenzene-d5	82		Compound Not Detected.						
\$ 12 2-Fluorobiphenyl		172	6.680	6.680	(0.895)	85886	10.0000	9.835	
\$ 13 2,4,6-Tribromophenol		330	8.473	8.473	(1.135)	11265	10.0000	10.46	
\$ 14 Terphenyl-d14		244	12.017	12.017	(0.872)	81026	10.0000	10.08	
15 N-Nitrosodimethylamine		74	1.706	1.706	(0.431)	25783	10.0000	9.059	
16 Pyridine		79	1.737	1.726	(0.439)	40141	10.0000	8.464	
23 Aniline		93	3.654	3.654	(0.924)	63074	10.0000	9.172 (q)	
24 Phenol		94	3.623	3.623	(0.916)	57313	10.0000	9.827 (Q)	
26 Bis(2-chloroethyl) ether		93	3.716	3.716	(0.940)	40353	10.0000	9.114	
27 2-Chlorophenol		128	3.768	3.768	(0.953)	45449	10.0000	9.848	
28 1,3-Dichlorobenzene		146	3.913	3.923	(0.990)	49415	10.0000	9.889	
29 1,4-Dichlorobenzene		146	3.975	3.975	(1.005)	52537	10.0000	10.19	
30 Benzyl Alcohol		108	4.120	4.120	(1.042)	30277	10.0000	9.547	
31 1,2-Dichlorobenzene		146	4.172	4.172	(1.055)	47666	10.0000	9.755	
32 2-Methylphenol		108	4.255	4.255	(1.076)	40581	10.0000	9.413	
33 2,2'-oxybis(1-Chloropropane)		45	4.297	4.297	(1.086)	64869	10.0000	7.888	
34 4-Methylphenol		108	4.421	4.421	(1.118)	43457	10.0000	9.466	
36 Hexachloroethane		117	4.504	4.504	(1.139)	17770	10.0000	9.768	
37 N-Nitrosodimethylamine		70	4.442	4.442	(1.123)	28335	10.0000	8.809	
42 Nitrobenzene		77	4.597	4.597	(0.857)	40198	10.0000	9.266	
44 Isophorone		82	4.856	4.856	(0.905)	76804	10.0000	9.318	
45 2-Nitrophenol		139	4.960	4.960	(0.925)	23221	10.0000	9.764	
46 2,4-Dimethylphenol		107	5.012	5.012	(0.934)	42128	10.0000	9.559	

10-3-10

Compounds	QUART SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	CON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.421
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	10.00
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	9.164
51 1,2,4-Trichlorobenzene	180	5.323	5.322	(0.992)	35544	10.0000	10.11
52 Naphthalene	128	5.395	5.395	(1.006)	138665	10.0000	10.10
54 4-Chloroaniline	127	5.488	5.488	(1.023)	52444	10.0000	9.711
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	17030	10.0000	10.18
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.131)	35592	10.0000	9.536
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	83922	10.0000	10.02
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	18919	10.0000	9.098
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	20325	10.0000	9.847
70 2,4,5-Trichlorophenol	196	6.618	6.628	(0.886)	22419	10.0000	9.889
71 2-Chloronaphthalene	162	6.773	6.784	(0.907)	74574	10.0000	9.756
73 2-Nitroaniline	65	6.950	6.949	(0.931)	21647	10.0000	8.456
76 Dimethylphthalate	163	7.219	7.229	(0.967)	85330	10.0000	9.665
77 Acenaphthylene	152	7.281	7.281	(0.975)	130392	10.0000	9.758
79 2,6-Dinitrotoluene	165	7.219	7.302	(0.967)	19698	10.0000	9.963 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	23598	10.0000	9.002 (q)
81 Acenaphthene	153	7.509	7.509	(1.006)	83474	10.0000	9.804
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	7537	10.0000	9.147 (q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	110503	10.0000	9.824
84 4-Nitrophenol	109	7.675	7.675	(1.028)	9643	10.0000	8.425 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	24530	10.0000	9.262
91 Fluorene	166	8.131	8.131	(1.089)	91225	10.0000	9.898
92 Diethylphthalate	149	8.100	8.100	(1.085)	88532	10.0000	9.594
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	38113	10.0000	10.03
94 4-Nitroaniline	138	8.214	8.214	(1.100)	23002	10.0000	8.977
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.890)	11282	10.0000	11.76
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	74860	11.7000	11.21
100 Azobenzene	77	8.349	8.348	(0.888)	82437	10.0000	8.875
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	19823	10.0000	9.575
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	23622	10.0000	10.56
110 Pentachlorophenol	266	9.240	9.240	(0.962)	10551	10.0000	7.861
114 Phenanthrene	178	9.437	9.437	(1.003)	134966	10.0000	10.10
115 Anthracene	178	9.498	9.499	(1.010)	130416	10.0000	9.697
118 Carbazole	167	9.768	9.768	(1.039)	120549	10.0000	9.637
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	141693	10.0000	9.367
126 Fluoranthene	202	11.302	11.302	(1.202)	115262	10.0000	9.583
127 Benridine	184	11.571	11.571	(0.840)	78774	10.0000	9.305
128 Pyrene	202	11.654	11.665	(0.846)	127577	10.0000	9.897
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	66351	10.0000	9.134
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	62032	10.0000	9.418
138 Benzo(a)anthracene	228	13.748	13.758	(0.998)	102788	10.0000	9.450
139 Chrysene	228	13.820	13.831	(1.003)	113552	10.0000	10.05
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	38850	10.0000	9.762
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	83377	10.0000	9.194
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	126961	10.0000	8.756
144 Benzo(b)fluoranthene	252	15.572	15.582	(0.963)	84929	10.0000	8.548 (Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.965)	122065	10.0000	10.51 (q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	97140	10.0000	9.863
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	102327	10.0000	9.463
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	76748	10.0000	8.022
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	88293	10.0000	9.016
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	163135	10.0000	9.811

Compounds	QUANT SIG MASS	RT	REP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	OK-COL ( NG)
M 152 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.607(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 02-OCT-2010  
 Lab File ID: HSL1002B.D Calibration Time: 13:44  
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	116839	-4.72
2 Naphthalene-d8	530514	265257	1061028	493196	-7.03
3 Acenaphthene-d10	282538	141269	565076	272639	-3.50
4 Phenanthrene-d10	462722	231361	925444	428440	-7.41
5 Chrysene-d12	435850	217925	871700	412260	-5.41
6 Perylene-d12	422284	211142	844568	419005	-0.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.19
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SUN\chem\avb\1100210.B\H11002B.D

Date: 02-07-2010 12:53

Client: ID: 8270F.H

Sample Info: HBL\_010 ug/ml CS-21112114

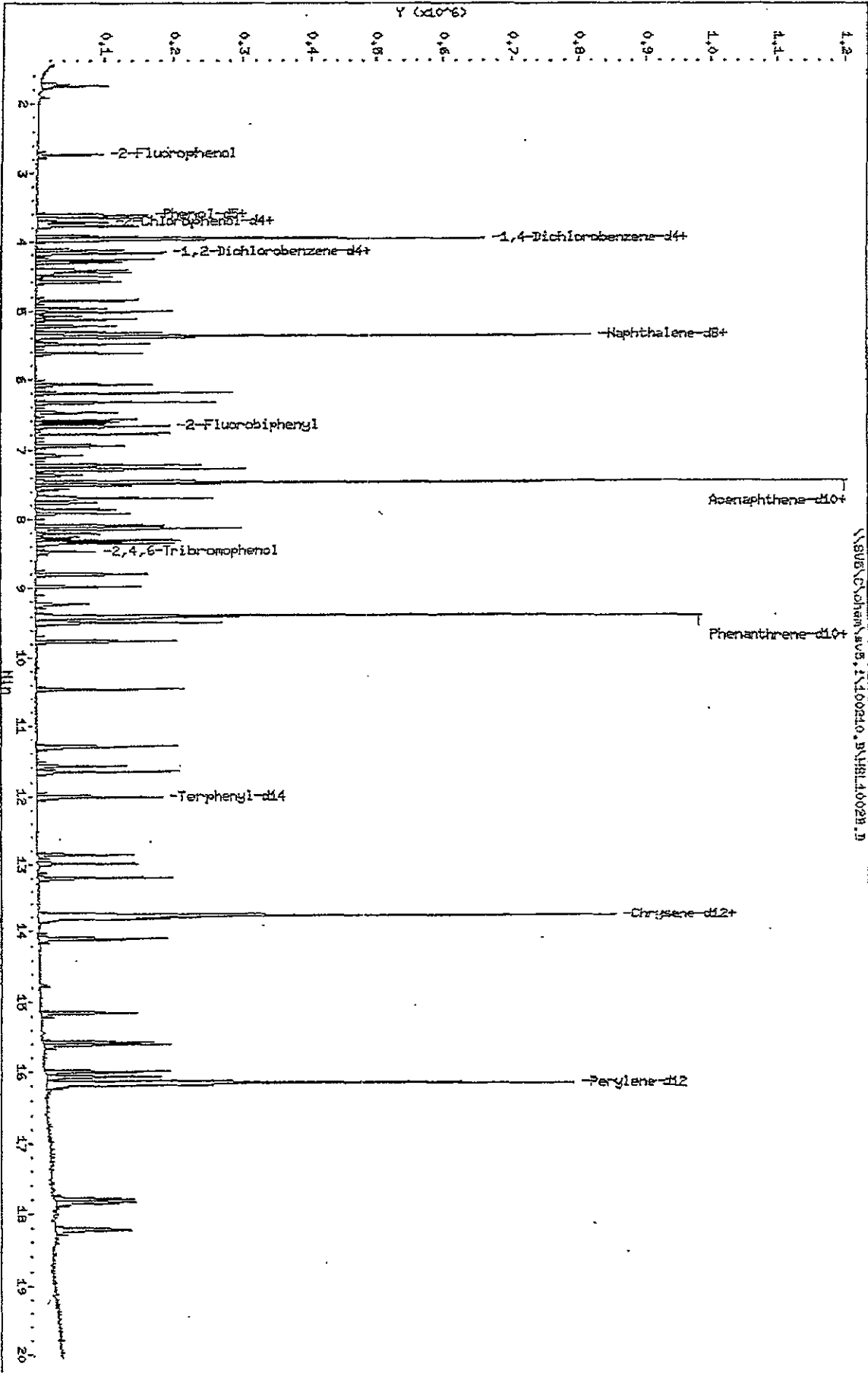
Column phase:

Page 8

Instrument: avb.1

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:18  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RRSPONSE	AMOUNTS	
							CAL-AMT ( NG)	DR-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	3.954	3.955 (1.000)	145926	40.0000		(Q)
* 2 Naphthalene-d8		136	5.364	5.374 (1.000)	625682	40.0000		
* 3 Acenaphthene-d10		164	7.467	7.468 (1.000)	328608	40.0000		
* 4 Phenanthrene-d10		188	9.405	9.405 (1.000)	525834	40.0000		
* 5 Chrysenes-d12		240	13.779	13.779 (1.000)	590727	40.0000		
* 6 Perylene-d12		264	16.162	16.162 (1.000)	619266	40.0000		
\$ 7 2-Fluorophenol		112	2.732	2.732 (0.691)	100961	20.0000		19.63
\$ 8 Phenol-d5		99	3.612	3.613 (0.914)	127066	20.0000		19.64
\$ 9 2-Chlorophenol-d4		132	3.747	3.758 (0.948)	112302	20.0000		19.77
\$ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162 (1.052)	72837	20.0000		20.27 (q)
\$ 11 Nitrobenzene-d5		82	4.576	4.576 (0.853)	103440	20.0000		19.52
\$ 12 2-Fluorobiphenyl		172	6.680	6.680 (0.895)	209764	20.0000		19.82
\$ 13 2,4,6-Tribromophenol		330	8.473	8.473 (1.135)	28698	20.0000		20.10
\$ 14 Terphenyl-d14		244	12.017	12.017 (0.872)	218324	20.0000		19.75
15 N-Nitrosodimethylamine		74	1.706	1.706 (0.431)	66431	20.0000		19.76 (q)
16 Pyridine		79	1.726	1.726 (0.437)	116339	20.0000		20.69 (Q)
23 Aniline		93	3.654	3.654 (0.924)	160510	20.0000		19.50
24 Phenol		94	3.623	3.623 (0.916)	147994	20.0000		19.91
26 Bis(2-chloroethyl)ether		93	3.716	3.716 (0.940)	101777	20.0000		19.53
27 2-Chlorophenol		128	3.768	3.768 (0.953)	114481	20.0000		20.07
28 1,3-Dichlorobenzene		146	3.913	3.923 (0.990)	122398	20.0000		19.70
29 1,4-Dichlorobenzene		146	3.975	3.975 (1.005)	126965	20.0000		19.54
30 Benzyl Alcohol		108	4.120	4.120 (1.042)	72366	20.0000		18.87
31 1,2-Dichlorobenzene		146	4.172	4.172 (1.055)	117073	20.0000		19.60
32 2-Methylphenol		108	4.255	4.255 (1.076)	101499	20.0000		19.45
33 2,2'-oxybis(1-chloropropane)		45	4.296	4.297 (1.086)	166596	20.0000		20.08
34 4-Methylphenol		108	4.421	4.421 (1.119)	106723	20.0000		19.26
36 Hexachloroethane		117	4.504	4.504 (1.139)	44196	20.0000		19.98
37 N-Nitrosodipropylamine		70	4.441	4.442 (1.123)	73913	20.0000		20.02
42 Nitrobenzene		77	4.597	4.597 (0.857)	101809	20.0000		19.65
44 Isophorone		82	4.856	4.856 (0.905)	151333	20.0000		19.21
45 2-Nitrophenol		129	4.960	4.960 (0.925)	58938	20.0000		19.18
46 2,4-Dinitrophenol		107	5.011	5.012 (0.934)	107325	20.0000		19.65

64  
 (0-3-10)



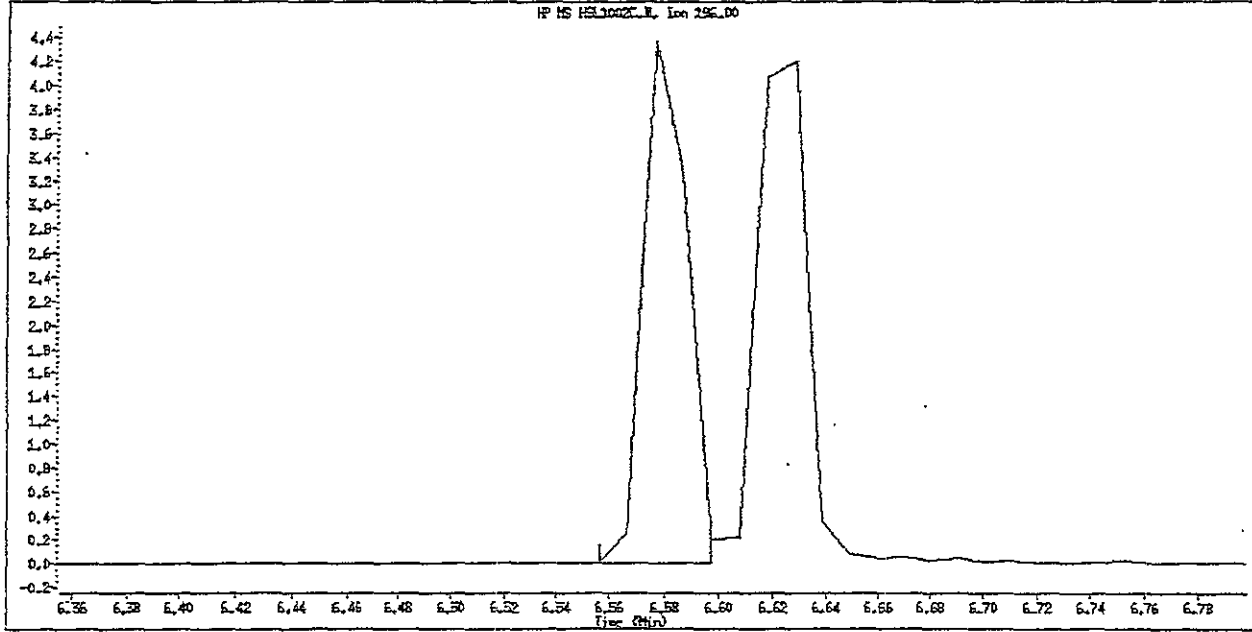
Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	CR-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126 (0.956)		120646	20.0000	19.62
49 2,4-Dichlorophenol	162	5.229	5.229 (0.975)		84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115 (0.950)		54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	180	5.322	5.322 (0.992)		89082	20.0000	19.47
52 Naphthalene	128	5.395	5.395 (1.005)		336100	20.0000	19.46
54 4-Chloroaniline	127	5.488	5.488 (1.023)		135348	20.0000	19.99
57 Hexachlorobutadiene	225	5.613	5.613 (1.046)		45138	20.0000	20.16
60 4-Chloro-3-Methylphenol	107	6.068	6.069 (1.131)		90970	20.0000	19.28
63 2-Methylnaphthalene	142	6.203	6.203 (1.156)		212981	20.0000	19.62
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.868)		47478	20.0000	19.36
69 2,4,6-Trichlorophenol	196	6.576	6.576 (0.881)		49658	20.0000	18.94(Q)
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.888)		55529	20.0000	19.66(QM)
71 2-Chloronaphthalene	162	6.784	6.784 (0.908)		180754	20.0000	19.54
73 2-Nitroaniline	65	6.949	6.949 (0.931)		54872	20.0000	19.58
76 Dimethylphthalate	163	7.219	7.229 (0.967)		213272	20.0000	20.03
77 Acenaphthylene	152	7.281	7.281 (0.975)		315165	20.0000	19.57
79 2,6-Dinitrotoluene	165	7.291	7.302 (0.976)		49111	20.0000	19.80(QM)
80 3-Nitroaniline	138	7.447	7.447 (0.997)		59114	20.0000	19.09
81 Acenaphthene	153	7.509	7.509 (1.006)		208228	20.0000	20.31
82 2,4-Dinitrophenol	184	7.571	7.572 (1.014)		23799	20.0000	19.52
83 Dibenzofuran	168	7.695	7.706 (1.031)		271431	20.0000	19.95
84 4-Nitrophenol	109	7.675	7.675 (1.028)		25164	20.0000	19.59(Q)
86 2,4-Dinitrotoluene	165	7.768	7.768 (1.040)		63223	20.0000	19.42
91 Fluorene	166	8.131	8.131 (1.089)		220647	20.0000	19.56
92 Diethylphthalate	149	8.100	8.100 (1.085)		216140	20.0000	19.83
93 4-Chlorophenyl-phenylether	204	8.151	8.152 (1.092)		93468	20.0000	19.95
94 4-Nitroaniline	138	8.214	8.214 (1.100)		61333	20.0000	19.98
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276 (0.880)		32982	20.0000	20.44
98 N-Nitrosodiphenylamine	169	8.317	8.317 (0.884)		186206	23.4000	23.36
100 Azobenzene	77	8.348	8.348 (0.888)		203290	20.0000	19.66
101 4-Bromophenyl-phenylether	248	8.794	8.794 (0.935)		50693	20.0000	19.75
108 Hexachlorobenzene	284	8.980	8.981 (0.955)		54528	20.0000	19.02
110 Pentachlorophenol	266	9.240	9.240 (0.982)		30451	20.0000	20.33
114 Phenanthrene	178	9.436	9.437 (1.003)		329718	20.0000	19.89
115 Anthracene	178	9.499	9.499 (1.010)		326558	20.0000	19.72
118 Carbazole	167	9.768	9.768 (1.039)		298921	20.0000	19.76
120 Di-n-Butylphthalate	149	10.462	10.463 (1.112)		358075	20.0000	19.68
126 Fluoranthene	202	11.302	11.302 (1.202)		306182	20.0000	20.75
127 Benzidine	184	11.571	11.571 (0.840)		222260	20.0000	18.56
128 Pyrene	202	11.665	11.665 (0.847)		345805	20.0000	18.73
134 3,3'-dimethylbenzidine	212	12.867	12.867 (0.934)		198960	20.0000	18.82
136 Butylbenzylphthalate	149	12.991	12.991 (0.943)		174685	20.0000	18.88
138 Benzo (a) Anthracene	228	13.758	13.758 (0.998)		304948	20.0000	19.38
139 Chrysene	228	13.820	13.831 (1.003)		314030	20.0000	19.51
140 3,3'-Dichlorobenzidine	252	13.799	13.799 (1.002)		115458	20.0000	19.45
141 Bis(2-ethylhexyl)Phthalate	149	14.110	14.110 (1.024)		248201	20.0000	19.47
142 Di-n-octylphthalate	149	15.157	15.167 (1.100)		400592	20.0000	19.66
144 Benzo (b) Fluoranthene	252	15.582	15.582 (0.964)		256213	20.0000	18.28(Q)
145 Benzo (k) Fluoranthene	252	15.613	15.623 (0.966)		371629	20.0000	20.65(g)
147 Benzo (e) pyrene	252	15.996	16.007 (0.990)		281015	20.0000	19.22
148 Benzo (a) pyrene	252	16.069	16.079 (0.994)		307781	20.0000	19.37
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800 (1.101)		228110	20.0000	17.74
152 Dibenzo (a, b) anthracene	278	17.841	17.841 (1.204)		270172	20.0000	18.81
153 Benzo (g, h, i) perylene	276	18.224	18.225 (1.128)		301520	20.0000	19.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	CH-COL ( NG)
N 162 benzo b,k Fluoranthene Totals	252				627842	20.0800	19.61 (A)

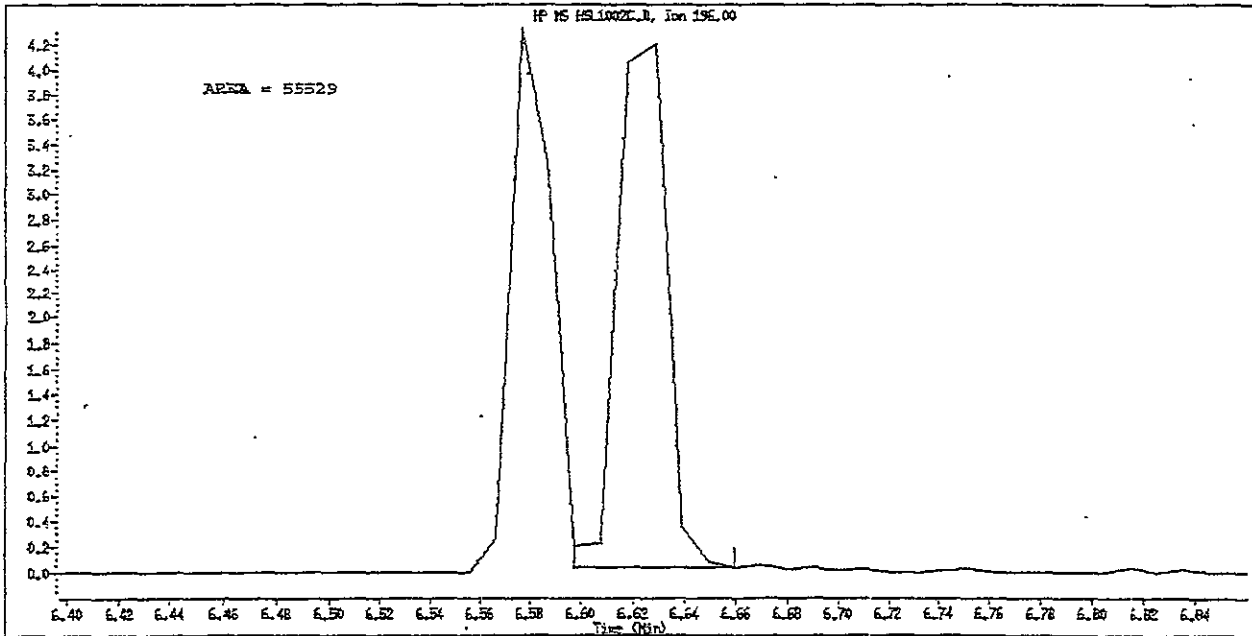
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002C.D  
Inj. Date and Time: 02-OCT-2010 13:18  
Instrument ID: svS.i  
Client ID: BZ70F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 10/03/2010



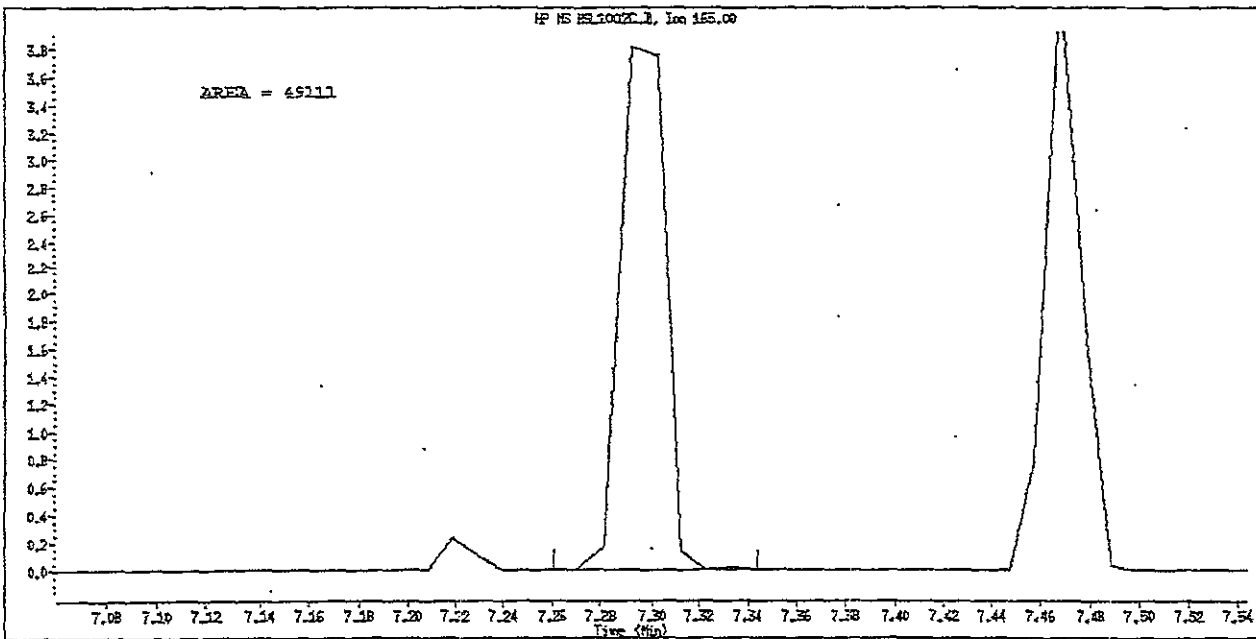
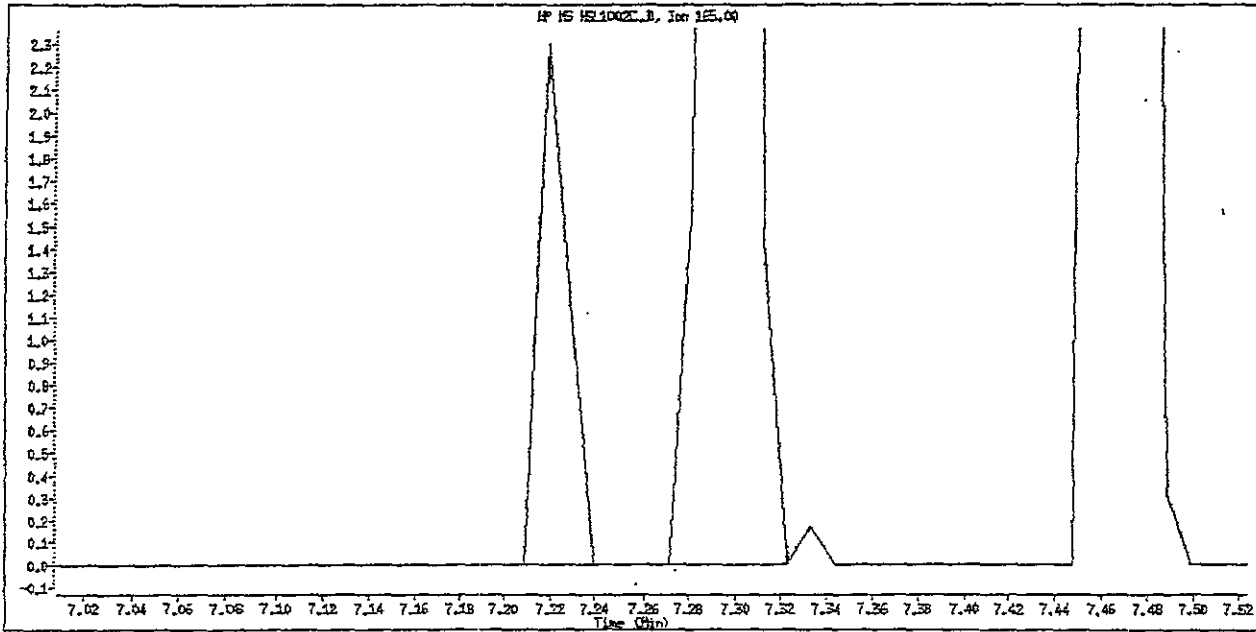
Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Wrong Peak

Data File Name: HSL1002C.D  
Inj. Date and Time: 02-OCT-2010 13:18  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 605-20-2  
Report Date: 10/03/2010



Manually Integrated By: truonk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:18  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SIG MSS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	DN-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.955 (1.000)		145926	40.0000	(Q)
* 2 Naphthalene-d8	136	5.364	5.374 (1.000)		625682	40.0000	
* 3 Acenaphthene-d10	164	7.467	7.468 (1.000)		328608	40.0000	
* 4 Phenanthrene-d10	188	9.405	9.405 (1.000)		525834	40.0000	
* 5 Chrysene-d12	240	13.779	13.779 (1.000)		590727	40.0000	
* 6 Perylene-d12	264	16.162	16.162 (1.000)		619266	40.0000	
\$ 7 2-Fluorophenol	112	2.732	2.732 (0.691)		100961	20.0000	18.75
\$ 8 Phenol-d5	99	3.612	3.613 (0.914)		127066	20.0000	18.55
\$ 9 2-Chlorophenol-d4	132	3.747	3.758 (0.948)		112302	20.0000	19.23
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162 (1.052)		72837	20.0000	19.98 (q)
\$ 11 Nitrobenzene-d5	82	4.576	4.576 (0.853)		103440	20.0000	18.64
\$ 12 2-Fluorobiphenyl	172	6.680	6.680 (0.895)		209764	20.0000	19.93
\$ 13 2,4,6-Tribromophenol	330	8.473	8.473 (1.135)		38698	20.0000	22.12
\$ 14 Terphenyl-d14	244	12.017	12.017 (0.672)		218324	20.0000	18.95
15 N-Nitrosodimethylamine	74	1.706	1.706 (0.431)		66431	20.0000	18.69
16 Pyridine	79	1.726	1.726 (0.437)		116339	20.0000	19.64
23 Aniline	93	3.654	3.654 (0.924)		160510	20.0000	18.69
24 Phenol	94	3.623	3.623 (0.916)		147994	20.0000	20.32
26 Bis(2-chloroethyl) ether	93	3.716	3.716 (0.940)		101777	20.0000	18.39
27 2-Chlorophenol	128	3.768	3.768 (0.953)		114481	20.0000	19.86
28 1,3-Dichlorobenzene	146	3.913	3.923 (0.990)		122398	20.0000	19.22
29 1,4-Dichlorobenzene	146	3.975	3.975 (1.005)		126965	20.0000	19.72
30 Benzyl Alcohol	108	4.120	4.120 (1.042)		72366	20.0000	18.27
31 1,2-Dichlorobenzene	146	4.172	4.172 (1.055)		117073	20.0000	19.18
32 2-Methylphenol	108	4.255	4.255 (1.076)		101499	20.0000	18.85
33 2,2'-oxybis(1-Chloropropane)	46	4.296	4.297 (1.086)		166596	20.0000	15.22
34 4-Methylphenol	108	4.421	4.421 (1.118)		106723	20.0000	18.60
36 Hexachloroethane	117	4.504	4.504 (1.139)		44196	20.0000	19.45
37 N-Nitrosodimethylamine	70	4.441	4.442 (1.123)		73913	20.0000	18.40
42 Nitrobenzene	77	4.597	4.597 (0.857)		101809	20.0000	18.46
44 Isophorone	82	4.856	4.856 (0.905)		191333	20.0000	18.30
45 2-Nitrophenol	139	4.960	4.960 (0.925)		58938	20.0000	19.57
46 2,4-Dimethylphenol	107	5.011	5.012 (0.934)		107325	20.0000	19.20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CEL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.125	5.126	(0.956)	120646	20.0000	19.38
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.54
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	17.49
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.992)	89082	20.0000	19.97
52 Naphthalene	128	5.395	5.395	(1.006)	336100	20.0000	19.30
54 4-Chloroaniline	127	5.488	5.488	(1.023)	135348	20.0000	19.76
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	45138	20.0000	21.26
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.131)	90970	20.0000	19.21
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	212981	20.0000	20.04
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	47478	20.0000	18.94
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	49658	20.0000	19.96 (Q)
70 2,4,5-Trichlorophenol	196	6.576	6.628	(0.881)	49658	20.0000	18.17 (Q)
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	180754	20.0000	19.62
73 2-Nitroaniline	65	6.949	6.949	(0.931)	54872	20.0000	17.78
76 Dimethylphthalate	163	7.219	7.229	(0.967)	213272	20.0000	20.04
77 Acenaphthylene	152	7.281	7.281	(0.975)	315165	20.0000	19.57
79 2,6-Dinitrotoluene	165	7.219	7.302	(0.967)	51125	20.0000	21.45 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	59114	20.0000	18.71
81 Acenaphthene	153	7.509	7.509	(1.006)	208228	20.0000	20.29
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	23799	20.0000	19.22
83 Dibenzofuran	168	7.695	7.706	(1.031)	271431	20.0000	20.02
84 4-Nitrophenol	109	7.675	7.675	(1.028)	25164	20.0000	18.24 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	63223	20.0000	19.81
91 Fluorene	166	8.131	8.131	(1.089)	220647	20.0000	19.86
92 Diethylphthalate	149	8.100	8.100	(1.085)	216140	20.0000	19.43
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	93468	20.0000	20.41
94 4-Nitroaniline	138	8.214	8.214	(1.100)	61333	20.0000	19.86
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.860)	32982	20.0000	20.90
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	186206	23.4000	22.72
100 Azobenzene	77	8.348	8.348	(0.888)	203290	20.0000	17.83
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	50693	20.0000	19.95
108 Hexachlorobenzene	264	8.980	8.981	(0.955)	54528	20.0000	19.87
110 Pentachlorophenol	266	9.240	9.240	(0.982)	30451	20.0000	18.48
114 Phenanthrene	178	9.436	9.437	(1.003)	329718	20.0000	20.10
115 Anthracene	178	9.499	9.499	(1.010)	326558	20.0000	19.78
118 Carbazole	167	9.768	9.768	(1.039)	298921	20.0000	19.47
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.29
126 Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.88
127 Benzidine	184	11.571	11.571	(0.840)	222260	20.0000	18.32
128 Pyrene	202	11.665	11.665	(0.847)	345805	20.0000	18.72
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	198960	20.0000	19.11
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	174685	20.0000	18.51
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	304948	20.0000	19.57
139 Chrysene	228	13.820	13.831	(1.003)	314030	20.0000	19.39
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	115458	20.0000	20.25
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	248201	20.0000	19.10
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	400592	20.0000	19.28
144 Benzo (b) fluoranthene	252	15.582	15.582	(0.964)	256213	20.0000	17.45 (Q)
145 Benzo (k) fluoranthene	252	15.613	15.623	(0.966)	371629	20.0000	21.66 (Q)
147 Benzo (a) pyrene	252	15.996	16.007	(0.990)	281015	20.0000	19.30
148 Benzo (a) pyrene	252	16.069	16.079	(0.994)	307781	20.0000	19.26
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.101)	226110	20.0000	15.13
152 Dibenzo (a, h) anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.64
153 Benzo (g, h, i) perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	OX-COL ( NS)
M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	19.72 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 02-OCT-2010
Lab File ID: HSL1002C.D	Calibration Time: 13:44
Lab Smp Id: HSL 020 ug/ml CS-3	Client Smp ID: 8270F.M
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: KT	
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m	
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	145926	19.00
2 Naphthalene-d8	530514	265257	1061028	625682	17.94
3 Acenaphthene-d10	282538	141269	565076	328608	16.31
4 Phenanthrene-d10	462722	231361	925444	525834	13.64
5 Chrysene-d12	435850	217925	871700	590727	35.53
6 Perylene-d12	422284	211142	844568	619266	46.65

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.20
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	-0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

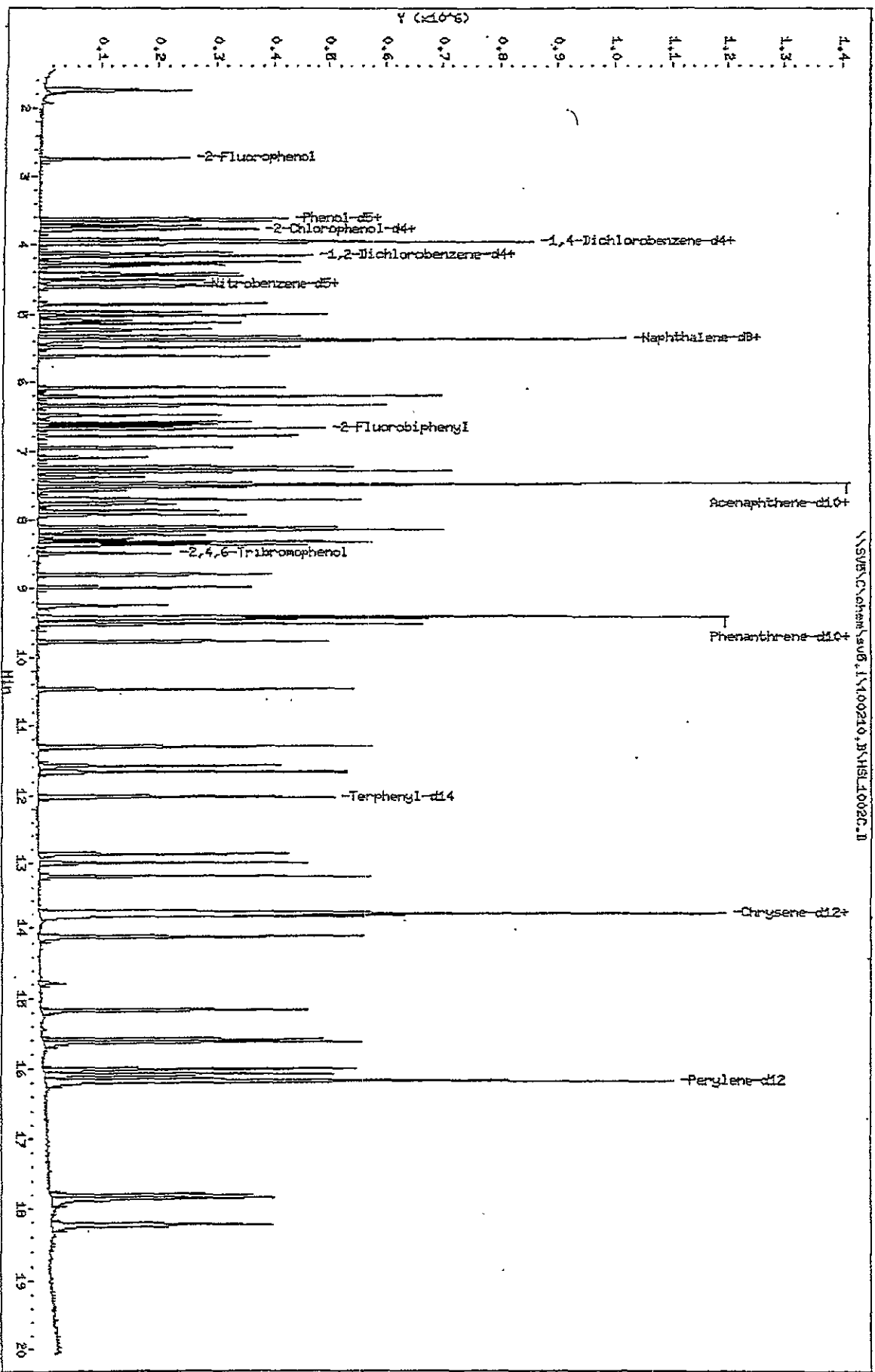
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\SIBV\Chem\sw6.1\100210.D\HSL1002C.D  
Date: 02-07-2010 13:18  
Client ID: B270F.H  
Sample Info: HSL\_020 ug/ml CS-3f1f3f3f4

Column phase: 1

Instrument: sw6.1  
Operator: KT  
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:44  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;1;;4; ; ; ; 4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	CF-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	3.955	3.955	(1.000)	122625	40.0000	
* 2 Naphthalene-d8		136	5.374	5.374	(1.000)	530514	40.0000	
* 3 Acenaphthene-d10		164	7.468	7.468	(1.000)	282538	40.0000	
* 4 Phenanthrene-d10		188	9.405	9.405	(1.000)	462722	40.0000	
* 5 Chrysene-d12		240	13.779	13.779	(1.000)	435850	40.0000	
* 6 Perylene-d12		264	16.162	16.162	(1.000)	422284	40.0000	
\$ 7 2-Fluorophenol		112	2.732	2.732	(0.691)	220986	50.0000	51.13
\$ 8 Phenol-d5		99	3.613	3.613	(0.914)	274382	50.0000	50.48
\$ 9 2-Chlorophenol-d4		132	3.758	3.758	(0.950)	244352	50.0000	51.19
\$ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162	(1.052)	151616	50.0000	50.20
\$ 11 Nitrobenzene-d5		82	4.576	4.576	(0.852)	226162	50.0000	50.33
\$ 12 2-Fluorobiphenyl		172	6.680	6.680	(0.895)	473978	50.0000	52.08
\$ 13 2,4,6-Tribromophenol		330	8.473	8.473	(1.135)	63311	50.0000	51.57
\$ 14 Terphenyl-d14		244	12.017	12.017	(0.872)	438253	50.0000	51.05
15 N-Nitrosodimethylamine		74	1.706	1.706	(0.431)	140972	50.0000	49.90 (M)
16 Pyridine		79	1.726	1.726	(0.437)	240053	50.0000	50.81 (M)
23 Aniline		93	3.654	3.654	(0.924)	346504	50.0000	50.08
24 Phenol		94	3.623	3.623	(0.916)	311820	50.0000	49.93
26 Bis(2-chloroethyl) ether		93	3.716	3.716	(0.940)	220455	50.0000	50.34
27 2-Chlorophenol		128	3.768	3.768	(0.953)	242442	50.0000	50.57
28 1,3-Dichlorobenzene		146	3.923	3.923	(0.992)	265384	50.0000	50.82
29 1,4-Dichlorobenzene		146	3.975	3.975	(1.005)	271151	50.0000	49.66
30 Benzyl Alcohol		108	4.120	4.120	(1.042)	150914	50.0000	49.94
31 1,2-Dichlorobenzene		146	4.172	4.172	(1.055)	257606	50.0000	51.32
32 2-Methylphenol		108	4.255	4.255	(1.076)	218610	50.0000	49.86
33 2,2'-oxybis(1-Chloropropane)		45	4.297	4.297	(1.085)	349371	50.0000	50.12
34 4-Methylphenol		108	4.421	4.421	(1.118)	233354	50.0000	50.11
36 Hexachloroethane		117	4.504	4.504	(1.139)	94106	50.0000	50.62
37 N-Nitrosodipropylamine		70	4.442	4.442	(1.123)	156914	50.0000	50.59
42 Nitrobenzene		77	4.597	4.597	(0.855)	219387	50.0000	49.95
44 Isophorone		82	4.856	4.856	(0.904)	420061	50.0000	49.74
45 2-Nitrophenol		138	4.960	4.960	(0.923)	132771	50.0000	50.95
46 2,4-Dimethylphenol		107	5.012	5.012	(0.933)	231517	50.0000	50.00

10-3-10

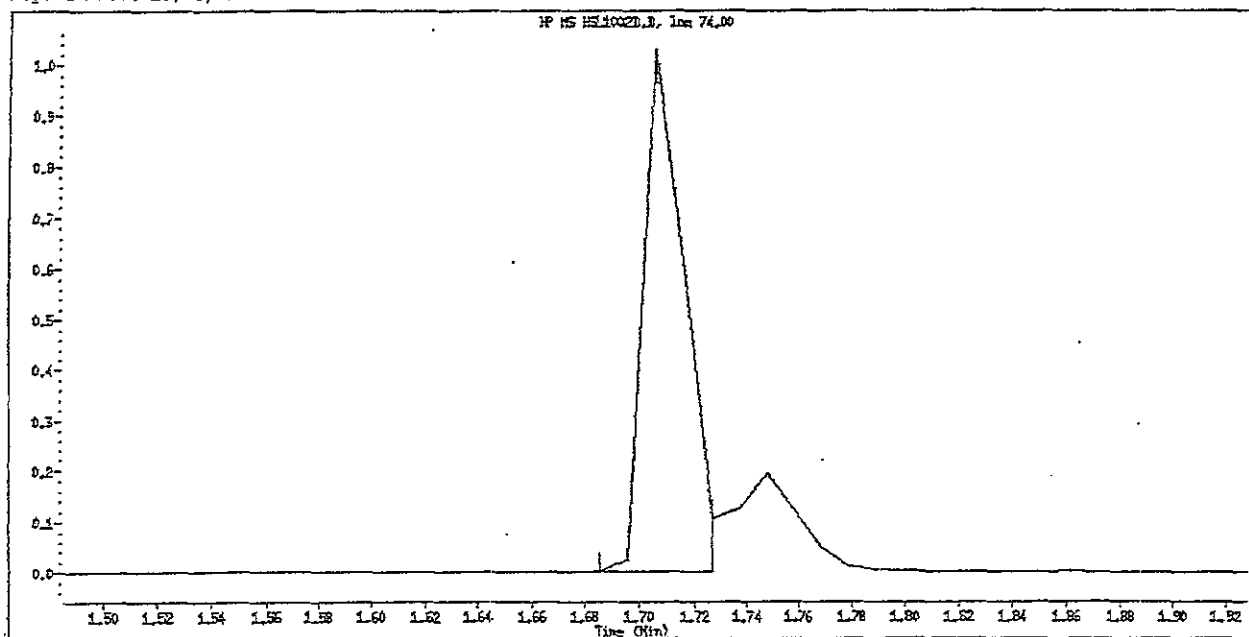
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	DF-COL ( NG)
47 Bis (2-chloroethoxy) methane	53	5.126	5.126	{0.954}	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	{0.973}	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	{0.952}	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	180	5.322	5.322	{0.990}	197265	50.0000	50.86
52 Naphthalene	128	5.395	5.395	{1.004}	724980	50.0000	49.49
54 4-Chloroaniline	127	5.488	5.488	{1.021}	291184	50.0000	50.72
57 Hexachlorobutadiene	225	5.613	5.613	{1.044}	95592	50.0000	50.36
60 4-Chloro-3-Methylphenol	107	6.069	6.069	{1.129}	205388	50.0000	51.34
63 2-Methylnaphthalene	142	6.203	6.203	{1.154}	464646	50.0000	50.50
66 Hexachlorocyclopentadiene	237	6.483	6.483	{0.868}	104908	50.0000	49.76
69 2,4,6-Trichlorophenol	196	6.576	6.576	{0.881}	113001	50.0000	50.13
70 2,4,5-Trichlorophenol	196	6.628	6.628	{0.888}	128196	50.0000	52.79
71 2-Chloronaphthalene	162	6.784	6.784	{0.908}	403257	50.0000	50.72
73 2-Nitroaniline	65	6.949	6.949	{0.931}	124335	50.0000	51.59
76 Dimethylphthalate	163	7.229	7.229	{0.968}	475258	50.0000	51.91
77 Acenaphthylene	152	7.281	7.281	{0.975}	712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302	{0.978}	110261	50.0000	51.69
80 3-Nitroaniline	138	7.447	7.447	{0.997}	141396	50.0000	53.11
81 Acenaphthene	153	7.509	7.509	{1.006}	446691	50.0000	50.90
82 2,4-Dinitrophenol	184	7.571	7.572	{1.014}	58864	50.0000	47.37
83 Dibenzofuran	168	7.706	7.706	{1.032}	598735	50.0000	51.18
84 4-Nitrophenol	109	7.675	7.675	{1.028}	56777	50.0000	51.41
86 2,4-Dinitrotoluene	165	7.768	7.768	{1.040}	148875	50.0000	53.18
91 Fluorene	166	8.131	8.131	{1.089}	494097	50.0000	51.01
92 Diethylphthalate	149	8.100	8.100	{1.085}	487067	50.0000	51.96
93 4-Chlorophenyl-phenylether	204	8.152	8.152	{1.092}	209308	50.0000	51.97
94 4-Nitroaniline	138	8.214	8.214	{1.100}	135397	50.0000	51.31
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	{0.880}	76137	50.0000	46.58
98 N-Nitrosodiphenylamine	169	8.317	8.317	{0.884}	409666	58.6000	58.41
100 Azobenzene	77	8.348	8.348	{0.888}	459960	50.0000	50.55
101 4-Bromophenyl-phenylether	248	8.794	8.794	{0.935}	115283	50.0000	51.04
108 Hexachlorobenzene	284	8.981	8.981	{0.955}	124963	50.0000	49.54
110 Pentachlorophenol	266	9.240	9.240	{0.982}	67882	50.0000	45.48
114 Phenanthrene	178	9.437	9.437	{1.003}	718164	50.0000	49.24
115 Anthracene	178	9.499	9.499	{1.010}	728681	50.0000	50.01
118 Carbazole	167	9.768	9.768	{1.039}	660885	50.0000	49.65
120 Di-n-Butylphthalate	149	10.463	10.463	{1.212}	799142	50.0000	49.90
126 Fluoranthene	202	11.302	11.302	{1.202}	639252	50.0000	48.92
127 Benzidine	184	11.571	11.571	{0.840}	450332	50.0000	50.98
128 Pyrene	202	11.665	11.665	{0.847}	701084	50.0000	51.46
134 3,3'-dimethylbenzidine	212	12.867	12.867	{0.934}	385489	50.0000	49.44
136 Butylbenzylphthalate	149	12.991	12.991	{0.943}	340978	50.0000	49.94
138 Benzo (a) Anthracene	228	13.758	13.758	{0.998}	569271	50.0000	49.03
139 Chrysene	228	13.831	13.831	{1.004}	597685	50.0000	50.33
140 3,3'-Dichlorobenzidine	252	13.799	13.799	{1.002}	217413	50.0000	49.65
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	{1.024}	464144	50.0000	49.35
142 Di-n-octylphthalate	149	15.167	15.167	{1.101}	732406	50.0000	48.72
144 Benzo (b) Fluoranthene	252	15.582	15.582	{0.964}	527487	50.0000	55.18
145 Benzo (k) fluoranthene	252	15.623	15.623	{0.967}	580084	50.0000	47.27
147 Benzo (a) pyrene	252	16.007	16.007	{0.990}	506622	50.0000	50.62
148 Benzo (a) pyrene	252	16.079	16.079	{0.995}	542578	50.0000	50.06
151 Indeno (1,2,3-cd) pyrene	276	17.800	17.800	{1.101}	447085	50.0000	51.00 (M)
152 Dibenzo (a,h) anthracene	278	17.841	17.841	{1.104}	486893	50.0000	49.72
153 Benzo (g,h,i) perylene	276	18.235	18.235	{1.128}	527720	50.0000	49.77

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				1107571	50.0000	50.74 (A)

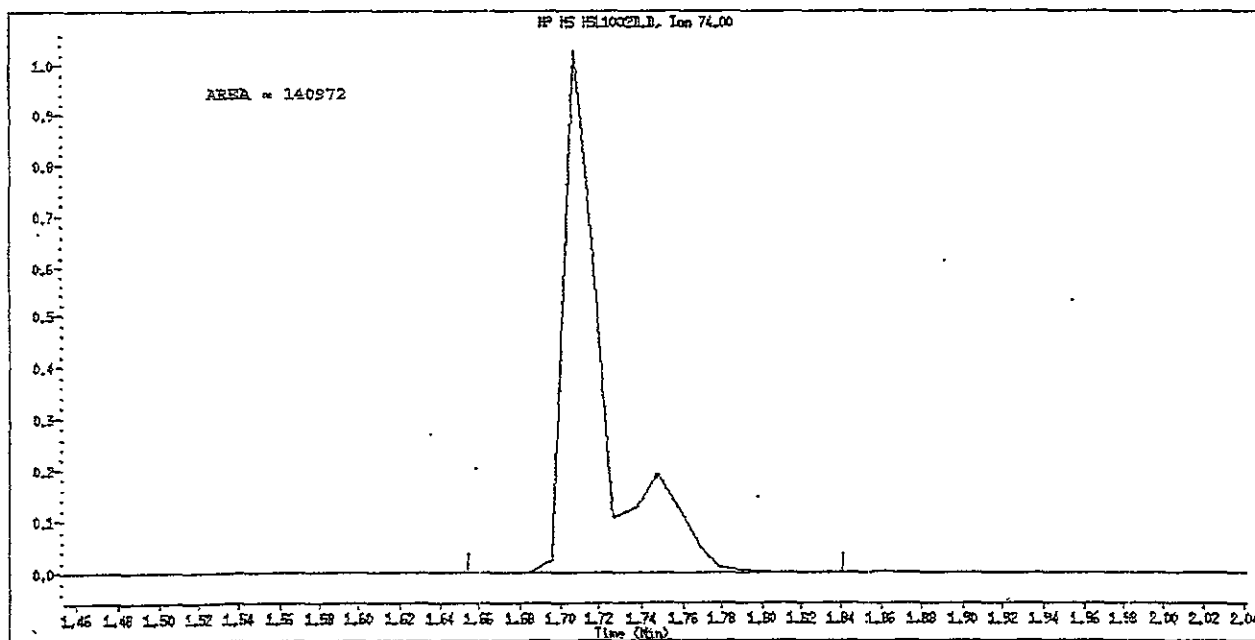
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: ESL1002D.D  
Inj. Date and Time: 02-OCT-2010 13:44  
Instrument ID: sv5.i  
Client ID: 827DF.M  
Compound Name: N-Nitrosodimethylamine  
CAS #: 62-75-9  
Report Date: 10/03/2010



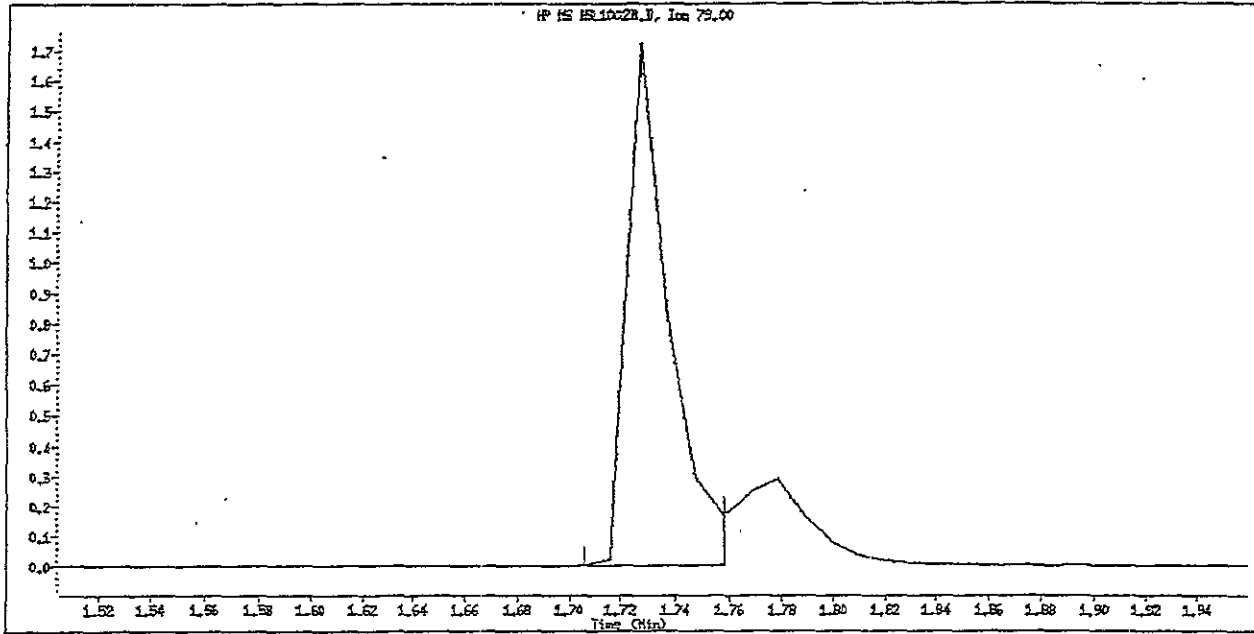
Original Integration



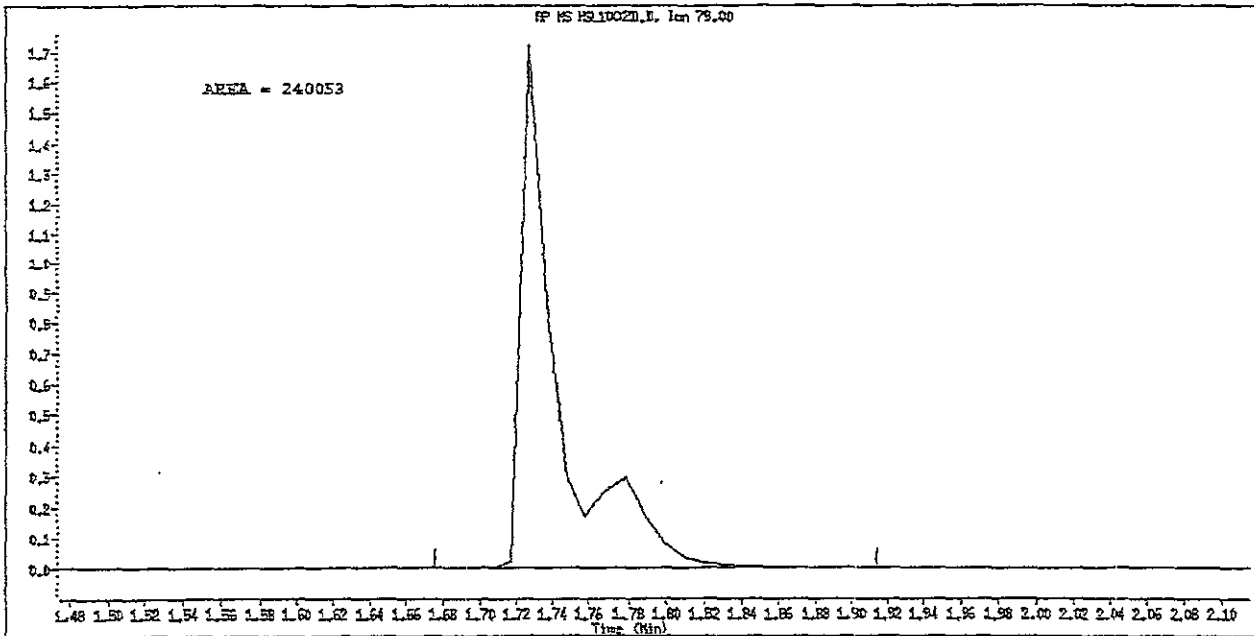
Manual Integration

Manually Integrated By: uruonk  
Manual Integration Reason: Poor Chromatography

Data File Name: HS11002D.D  
Inj. Date and Time: 02-OCT-2010 13:44  
Instrument ID: svS.i  
Client ID: 8270F.M  
Compound Name: Pyridine  
CAS #: 110-86-1  
Report Date: 10/03/2010



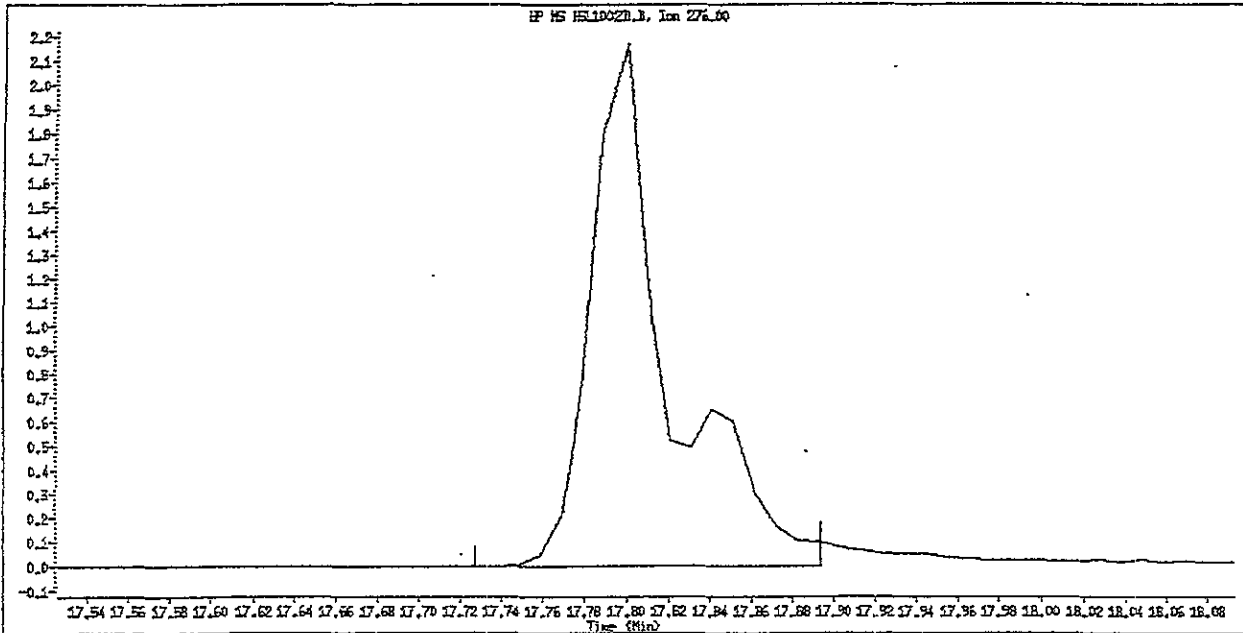
Original Integration



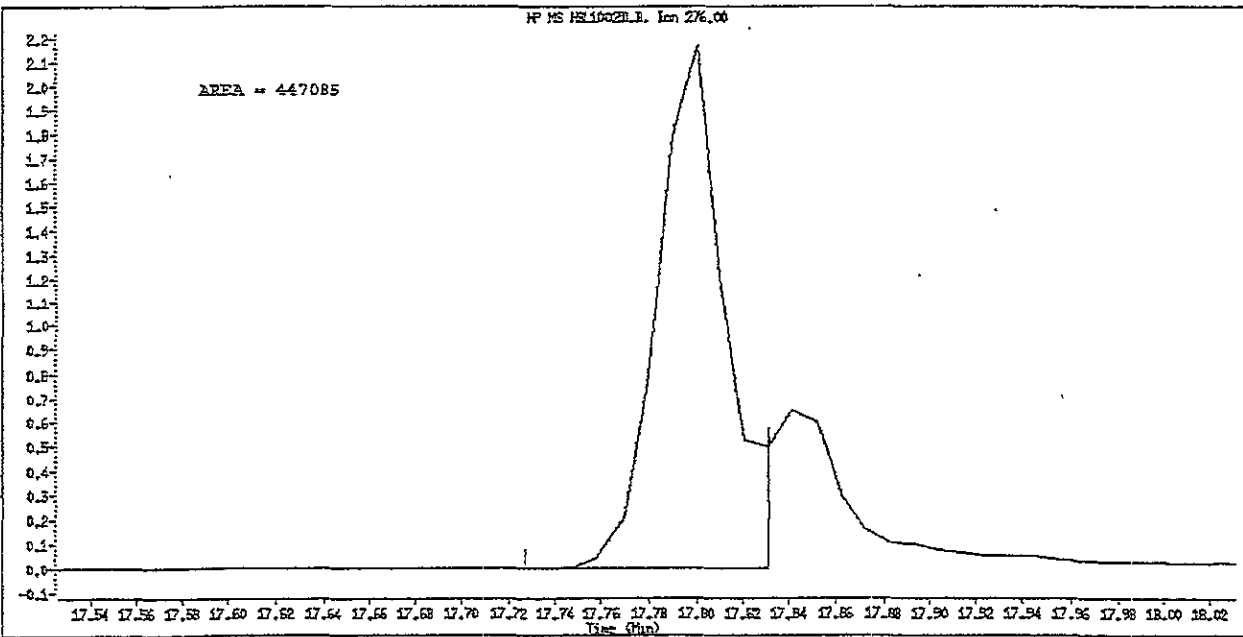
Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Poor Chromatography

Data File Name: HSI1002D.D  
Inj. Date and Time: 02-OCT-2010 13:44  
Instrument ID: svk.i  
Client ID: 62707.M  
Compound Name: Indeno (1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:44  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;1;;4;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT	SIG	MASS	RT	EIP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-RMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152			3.955	3.955	(1.000)	122625	40.0000	
* 2 Naphthalene-d8	136			5.374	5.374	(1.000)	530514	40.0000	
* 3 Acenaphthene-d10	164			7.468	7.468	(1.000)	282538	40.0000	
* 4 Phenanthrene-d10	188			9.405	9.405	(1.000)	462722	40.0000	
* 5 Chrysene-d12	240			13.779	13.779	(1.000)	435850	40.0000	
* 6 Perylene-d12	264			16.162	16.162	(1.000)	422284	40.0000	
\$ 7 2-Fluorophenol	112			2.732	2.732	(0.691)	220986	50.0000	48.83
\$ 8 Phenol-d5	99			3.613	3.613	(0.914)	274382	50.0000	47.67
\$ 9 2-Chlorophenol-d4	132			3.758	3.758	(0.950)	244352	50.0000	49.80
\$ 10 1,2-Dichlorobenzene-d4	152			4.162	4.162	(1.052)	151616	50.0000	49.50
\$ 11 Nitrobenzene-d5	82			4.576	4.576	(0.852)	226162	50.0000	48.07
\$ 12 2-Fluorobiphenyl	172			6.680	6.680	(0.895)	473578	50.0000	52.38
\$ 13 2,4,6-Tribromophenol	330			8.473	8.473	(1.135)	63311	50.0000	56.75
\$ 14 Terphenyl-d14	244			12.017	12.017	(0.872)	438253	50.0000	51.56
15 N-Nitrosodimethylamine	74			1.706	1.706	(0.431)	105836	50.0000	35.43
16 Pyridine	79			1.726	1.726	(0.437)	182664	50.0000	36.70
23 Aniline	93			3.654	3.654	(0.824)	346504	50.0000	48.01
24 Phenol	94			3.623	3.623	(0.916)	311820	50.0000	50.94
26 Bis(2-chloroethyl) ether	93			3.716	3.716	(0.940)	220455	50.0000	47.40
27 2-Chlorophenol	128			3.768	3.768	(0.953)	242442	50.0000	50.05
28 1,3-Dichlorobenzene	146			3.923	3.923	(0.882)	265384	50.0000	49.58
29 1,4-Dichlorobenzene	146			3.975	3.975	(1.005)	271151	50.0000	50.11
30 Benzyl Alcohol	108			4.120	4.120	(1.042)	160814	50.0000	48.35
31 1,2-Dichlorobenzene	146			4.172	4.172	(1.055)	257606	50.0000	50.23
32 2-Methylphenol	108			4.255	4.255	(1.076)	218610	50.0000	48.31
33 2,2'-oxybis(1-Chloropropane)	45			4.297	4.297	(1.086)	348371	50.0000	40.48
34 4-Methylphenol	108			4.421	4.421	(1.118)	233354	50.0000	48.39
36 Hexachloroethane	117			4.504	4.504	(1.139)	94106	50.0000	49.29
37 N-Nitrosodipropylamine	70			4.442	4.442	(1.123)	156914	50.0000	46.48
42 Nitrobenzene	77			4.597	4.597	(0.855)	219387	50.0000	46.91
44 Isophorone	82			4.856	4.856	(0.904)	420061	50.0000	47.38
45 2-Nitrophenol	139			4.960	4.960	(0.922)	132771	50.0000	52.00
46 2,4-Dimethylphenol	107			5.012	5.012	(0.933)	231517	50.0000	48.84



Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.126	5.126 (0.954)		253648	50.0000	48.05
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)		179296	50.0000	51.39
50 Benzoic Acid	122	5.115	5.115 (0.952)		128366	50.0000	48.58
51 1,2,4-Trichlorobenzene	180	5.322	5.322 (0.990)		197265	50.0000	52.15
52 Naphthalene	128	5.395	5.395 (1.004)		724980	50.0000	49.10
54 4-Chloroaniline	127	5.488	5.488 (1.021)		291184	50.0000	50.12
57 Hexachlorobutadiene	225	5.613	5.613 (1.044)		95592	50.0000	53.21
60 4-Chloro-3-Methylphenol	107	6.069	6.069 (1.129)		205388	50.0000	51.16
63 2-Methylnaphthalene	142	6.203	6.203 (1.154)		464646	50.0000	51.57
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.868)		104908	50.0000	48.68
69 2,4,6-Trichlorophenol	196	6.576	6.576 (0.881)		113001	50.0000	52.83
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.888)		128196	50.0000	54.56
71 2-Chloronaphthalene	162	6.784	6.784 (0.908)		403257	50.0000	50.91
73 2-Nitroaniline	65	6.949	6.949 (0.931)		124335	50.0000	46.87
76 Dimethylphthalate	163	7.229	7.229 (0.968)		475258	50.0000	51.95
77 Acenaphthylene	152	7.281	7.281 (0.975)		712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302 (0.978)		110261	50.0000	53.62
80 3-Nitroaniline	138	7.447	7.447 (0.997)		141396	50.0000	52.05
81 Acenaphthene	153	7.509	7.509 (1.006)		448691	50.0000	50.85
82 2,4-Dinitrophenol	184	7.571	7.571 (1.014)		58864	50.0000	48.70
83 Dibenzofuran	168	7.706	7.706 (1.032)		598735	50.0000	51.36
84 4-Nitrophenol	109	7.675	7.675 (1.028)		56777	50.0000	47.87
86 2,4-Dinitrotoluene	165	7.768	7.768 (1.040)		148875	50.0000	54.24
91 Fluorene	166	8.131	8.131 (1.089)		494097	50.0000	51.73
92 Diethylphthalate	149	8.100	8.100 (1.085)		487067	50.0000	50.93
93 4-Chlorophenyl-phenylether	204	8.152	8.152 (1.092)		209308	50.0000	53.15
94 4-Nitroaniline	138	8.214	8.214 (1.100)		135397	50.0000	50.99
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276 (0.880)		76137	50.0000	46.45
98 N-Nitrosodiphenylamine	169	8.317	8.317 (0.884)		409666	58.6000	56.82
100 Azobenzene	77	8.348	8.348 (0.888)		459960	50.0000	45.55
101 4-Bromophenyl-phenylether	248	8.794	8.794 (0.935)		115283	50.0000	51.56
108 Hexachlorobenzene	284	8.981	8.981 (0.955)		124963	50.0000	51.74
110 Pentachlorophenol	266	9.240	9.240 (0.982)		67862	50.0000	46.83
114 Phenanthrene	178	9.437	9.437 (1.003)		718164	50.0000	49.76
115 Anthracene	178	9.499	9.499 (1.010)		728681	50.0000	50.17
118 Carbazole	167	9.768	9.768 (1.039)		660825	50.0000	48.92
120 Di-n-Butylphthalate	149	10.463	10.463 (1.112)		799142	50.0000	48.91
126 Fluoranthene	202	11.302	11.302 (1.202)		639252	50.0000	49.21
127 Benzidine	184	11.571	11.571 (0.840)		450332	50.0000	50.32
128 Pyrene	202	11.665	11.665 (0.847)		701084	50.0000	51.44
134 3,3'-dimethylbenzidine	212	12.867	12.867 (0.934)		385489	50.0000	50.19
136 Butylbenzylphthalate	149	12.991	12.991 (0.945)		340978	50.0000	48.97
138 Benzo (a) Anthracene	228	13.758	13.758 (0.998)		569271	50.0000	49.51
139 Chrysene	228	13.831	13.831 (1.004)		597685	50.0000	50.03
140 3,3'-Dichlorobenzidine	252	13.799	13.799 (1.002)		217413	50.0000	51.67
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110 (1.024)		464144	50.0000	48.41
142 Di-n-octylphthalate	149	15.167	15.167 (1.101)		732406	50.0000	47.78
144 Benzo (h) Fluoranthene	252	15.582	15.582 (0.964)		527487	50.0000	52.68
145 Benzo (k) Fluoranthene	252	15.623	15.623 (0.967)		580084	50.0000	49.57
147 Benzo (e) pyrene	252	16.007	16.007 (0.990)		506622	50.0000	51.04
148 Benzo (a) pyrene	252	16.079	16.079 (0.995)		542578	50.0000	49.78
151 Indeno (1,2,3-cd) pyrene	276	17.800	17.800 (1.101)		564014	50.0000	58.49
152 Dibenzo (a,h) anthracene	278	17.841	17.841 (1.104)		486893	50.0000	49.27
153 Benzo (g,h,i) perylene	276	18.235	18.235 (1.128)		527720	50.0000	49.81

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT	DE-COL
	MASS					( NG)	( NG)
M 152 benzo b,k Fluoranthene Totals	252				1107571	50.0000	51.00 [A]

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	122625	0.00
2 Naphthalene-d8	530514	265257	1061028	530514	0.00
3 Acenaphthene-d10	282538	141269	565076	282538	0.00
4 Phenanthrene-d10	462722	231361	925444	462722	0.00
5 Chrysene-d12	435850	217925	871700	435850	0.00
6 Perylene-d12	422284	211142	844568	422284	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

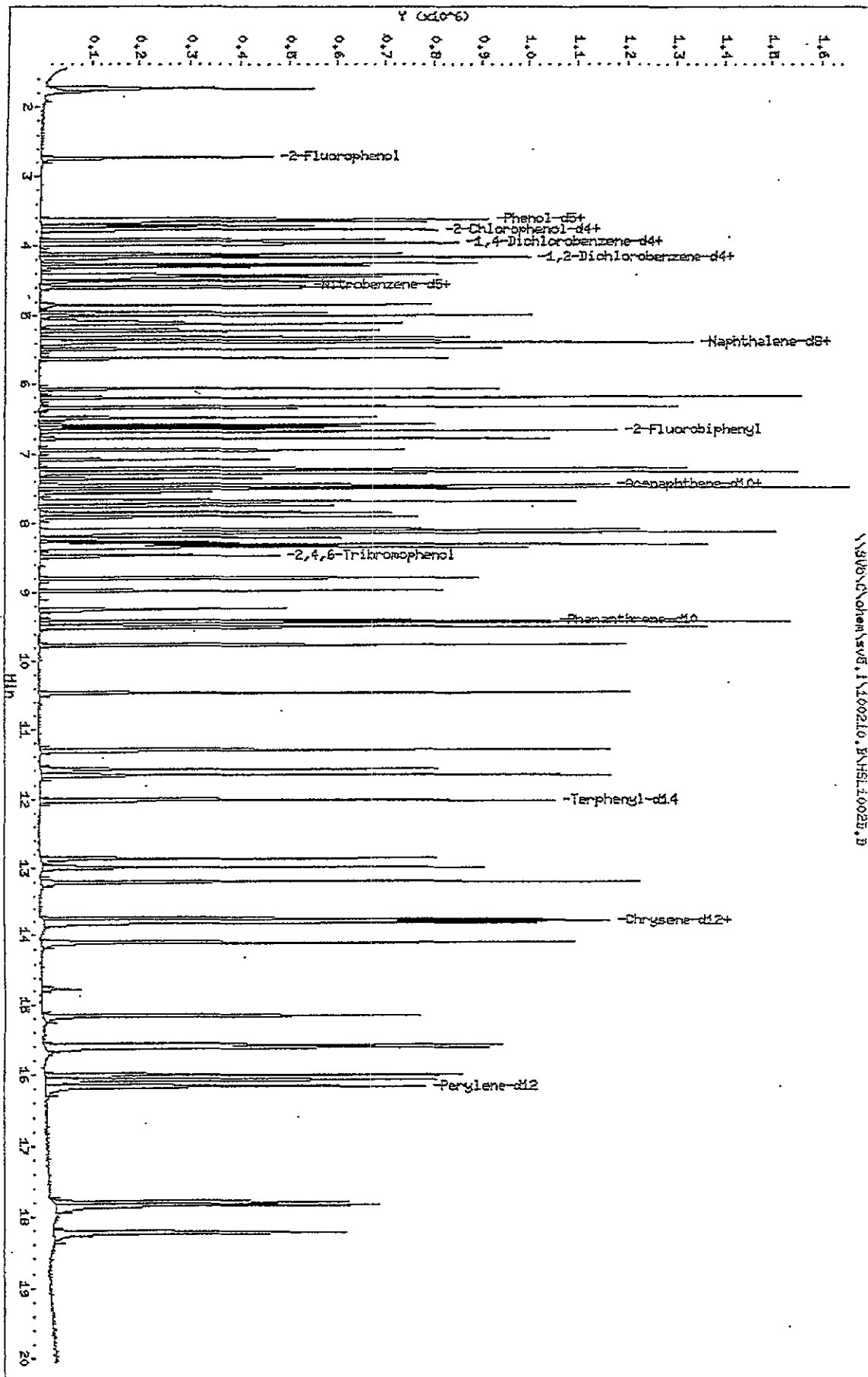
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SW6\Chem\SW6\_1\100210\_BVHSL1002D.D  
Date: 02-OCT-2010 13:44  
Olefin ID: 8270F.N  
Sample Info: HSL\_050 ug/ml CS-411441114

Column Phase: 1

Instrument: SW6.1  
Operator: KT  
Column Diameter: 2.00

\\SW6\Chem\SW6\_1\100210\_BVHSL1002D.D



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUNTY SIG	MRSS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.955	(1.000)	126989	40.0000		(g)
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	553454	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	308315	40.0000		
* 4 Phenanthrene-d10	188	9.405	9.405	(1.000)	477777	40.0000		
* 5 Chrysene-d12	240	13.789	13.779	(1.000)	466126	40.0000		
* 6 Perylene-d12	264	16.162	16.162	(1.000)	482782	40.0000		
\$ 7 2-Fluorophenol	112	2.742	2.732	(0.693)	364547	80.0000	81.44	
\$ 8 Phenol-d5	99	3.612	3.613	(0.914)	459352	80.0000	81.61	
\$ 9 2-Chlorophenol-d4	132	3.758	3.758	(0.950)	399981	80.0000	80.52	
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	252754	80.0000	80.82	
\$ 11 Nitrobenzene-d5	82	4.587	4.576	(0.853)	371989	80.0000	79.25	
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	755916	80.0000	78.14	
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473	(1.136)	107063	80.0000	82.04	
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.871)	758812	80.0000	79.25	
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	236570	80.0000	80.86	(g)
16 Pyridine	79	1.726	1.726	(0.437)	386806	80.0000	79.06	(Q)
23 Aniline	93	3.654	3.654	(0.924)	583513	80.0000	81.44	(Q)
24 Phenol	94	3.623	3.623	(0.916)	524930	80.0000	81.16	(Q)
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	362044	80.0000	79.83	
27 2-Chlorophenol	128	3.768	3.768	(0.953)	398210	80.0000	80.21	
28 1,3-Dichlorobenzene	146	3.923	3.923	(0.992)	428311	80.0000	79.20	
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	452588	80.0000	80.04	
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	273768	80.0000	82.05	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	415025	80.0000	79.84	
32 2-Methylphenol	108	4.255	4.255	(1.076)	369704	80.0000	81.43	
33 2,2'-oxybis(1-Chloropropane)	45	4.296	4.297	(1.085)	576575	80.0000	79.88	
34 4-Methylphenol	108	4.421	4.421	(1.118)	387704	80.0000	80.39	
36 Hexachloroethane	117	4.504	4.504	(1.138)	153472	80.0000	79.72	
37 N-Nitrosodimethylamine	70	4.442	4.442	(1.123)	265916	80.0000	82.78	
42 Nitrobenzene	77	4.597	4.597	(0.855)	369479	80.0000	80.64	
44 Isophorone	82	4.856	4.856	(0.904)	704520	80.0000	79.96	
45 2-Nitrophenol	139	4.960	4.960	(0.923)	221628	80.0000	81.52	
46 2,4-Dimethylphenol	107	5.011	5.012	(0.933)	385073	80.0000	79.72	

10-3-10

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.954)	426158	80.0000	79.16
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	301897	80.0000	80.78
50 Benzoic Acid	122	5.125	5.115	(0.954)	232711	80.0000	87.04
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	323096	80.0000	79.84
52 Naphthalene	128	5.395	5.395	(1.004)	1216155	80.0000	79.58
54 4-Chloroaniline	127	5.488	5.488	(1.021)	484619	80.0000	80.91
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	159233	80.0000	80.41
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	235335	80.0000	80.35
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	781029	80.0000	81.36
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	181608	80.0000	81.05
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	194036	80.0000	80.98
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	211635	80.0000	81.99
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	668023	80.0000	79.04
73 2-Nitroaniline	65	6.949	6.949	(0.931)	209144	80.0000	81.55
76 Dimethylphthalate	163	7.229	7.229	(0.968)	787815	80.0000	80.96
77 Acenaphthylene	152	7.281	7.281	(0.975)	1190475	80.0000	80.88
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	187961	80.0000	82.91
80 3-Nitroaniline	138	7.457	7.447	(0.999)	232287	80.0000	82.09
81 Acenaphthene	153	7.509	7.509	(1.006)	727612	80.0000	77.66
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	110384	80.0000	78.64
83 Dibenzofuran	168	7.706	7.706	(1.032)	991740	80.0000	79.76 (g)
84 4-Nitrophenol	109	7.675	7.675	(1.028)	102888	80.0000	87.65 (Q)
85 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	246471	80.0000	82.83
91 Fluorene	166	8.131	8.131	(1.089)	834271	80.0000	81.03
92 Diethylphthalate	149	8.100	8.100	(1.085)	792071	80.0000	79.50
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	340608	80.0000	79.56
94 4-Nitroaniline	138	8.224	8.214	(1.101)	235541	80.0000	83.97
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	134784	80.0000	76.76
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	695826	93.7000	96.08
100 Azobenzene	77	8.348	8.348	(0.888)	765053	80.0000	81.43
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	187352	80.0000	80.33
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	207655	80.0000	79.72
110 Pentachlorophenol	266	9.240	9.240	(0.982)	126397	80.0000	78.86
114 Phenanthrene	178	9.437	9.437	(1.003)	1188468	80.0000	78.92
115 Anthracene	178	9.509	9.499	(1.011)	1218608	80.0000	81.00
118 Carbazole	167	9.768	9.768	(1.039)	1118637	80.0000	81.29
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	1351850	80.0000	81.75
126 Fluoranthene	202	11.302	11.302	(1.202)	1107116	80.0000	82.05
127 Benzidine	184	11.571	11.571	(0.839)	799205	80.0000	81.12
128 Pyrene	202	11.665	11.665	(0.845)	1221015	80.0000	80.36
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.933)	715866	80.0000	82.31
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	598812	80.0000	78.53
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	1034950	80.0000	79.92
139 Chrysene	228	13.830	13.831	(1.003)	1040163	80.0000	78.52
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	392335	80.0000	80.33
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	820296	80.0000	78.20
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	1354893	80.0000	80.80
144 Benzo (b) Fluoranthene	252	15.582	15.582	(0.964)	920864	80.0000	84.26 (Q)
145 Benzo (k) Fluoranthene	252	15.623	15.623	(0.967)	1102899	80.0000	78.61 (g)
147 Benzo (e) pyrene	252	16.007	16.007	(0.990)	936566	80.0000	82.18
148 Benzo (a) pyrene	252	16.079	16.079	(0.995)	1039045	80.0000	83.86
151 Indeno (1,2,3-cd) pyrene	276	17.799	17.800	(1.101)	811625	80.0000	80.99
152 Dibenzo (a, h) anthracene	278	17.851	17.841	(1.105)	926841	80.0000	82.79
153 Benzo (g, h, i) perylene	276	18.235	18.235	(1.128)	982275	80.0000	81.04

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
						( NG)	( NG)
M 152 benzo b,k Fluoranthene Totals	252				2023783	80.0000	51.09 (A)

### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SUG MASS	AMOUNTS					CAL-AMT ( NG)	DN-COL ( NG)
		RT	EXP RT	REL RT	RESPONSE			
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.955 (1.000)		126989	40.0000	(g)	
* 2 Naphthalene-d8	136	5.374	5.374 (1.000)		553454	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468 (1.000)		300315	40.0000		
* 4 Phenanthrene-d10	128	9.405	9.405 (1.000)		477777	40.0000		
* 5 Chrysene-d12	240	13.789	13.779 (1.000)		485126	40.0000		
* 6 Perylene-d12	264	16.162	16.162 (1.000)		482782	40.0000		
\$ 7 2-Fluorophenol	112	2.742	2.732 (0.693)		364547	80.0000	77.78	
\$ 8 Phenol-d5	99	3.612	3.613 (0.914)		459352	80.0000	77.07	
\$ 9 2-Chlorophenol-d4	132	3.758	3.758 (0.950)		399981	80.0000	78.71	
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162 (1.052)		252754	80.0000	79.68	
\$ 11 Nitrobenzene-d5	82	4.587	4.576 (0.853)		371989	80.0000	75.79	
\$ 12 2-Fluorobiphenyl	172	6.680	6.680 (0.895)		755916	80.0000	78.58	
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473 (1.136)		107063	80.0000	90.29	
\$ 14 Terphenyl-d14	244	12.017	12.017 (0.871)		758812	80.0000	80.04	
15 N-Nitrosodimethylamine	74	1.706	1.706 (0.431)		236570	80.0000	76.48	
16 Pyridine	79	1.726	1.726 (0.437)		386806	80.0000	75.04	
23 Aniline	93	3.654	3.654 (0.924)		582513	80.0000	78.07 (Q)	
24 Phenol	94	3.623	3.623 (0.916)		524930	80.0000	82.81 (Q)	
26 Bis(2-chloroethyl) ether	93	3.716	3.716 (0.940)		352044	80.0000	75.18	
27 2-Chlorophenol	128	3.768	3.768 (0.953)		398210	80.0000	79.39	
28 1,3-Dichlorobenzene	146	3.923	3.923 (0.992)		428311	80.0000	77.27	
29 1,4-Dichlorobenzene	146	3.975	3.975 (1.005)		452588	80.0000	80.76	
30 Benzyl Alcohol	108	4.120	4.120 (1.042)		273768	80.0000	79.43	
31 1,2-Dichlorobenzene	146	4.172	4.172 (1.055)		415025	80.0000	78.14	
32 2-Methylphenol	108	4.255	4.255 (1.076)		369704	80.0000	78.90	
33 2,2'-oxybis(1-Chloropropane)	45	4.296	4.297 (1.086)		576575	80.0000	64.50	
34 4-Methylphenol	108	4.421	4.421 (1.118)		387704	80.0000	77.63	
36 Hexachloroethane	117	4.504	4.504 (1.139)		153472	80.0000	77.62	
37 N-Nitrosodipropylamine	70	4.442	4.442 (1.123)		265916	80.0000	76.06	
42 Nitrobenzene	77	4.557	4.597 (0.955)		369479	80.0000	75.74	
44 Isophorone	82	4.856	4.856 (0.904)		704520	80.0000	76.17	
45 2-Nitrophenol	139	4.960	4.960 (0.923)		221628	80.0000	83.21	
46 2,4-Dimethylphenol	107	5.011	5.012 (0.953)		385073	80.0000	77.86	



Compounds	QUANT SIG MASS	AMOUNTS				RESPONSE	AMOUNTS	
		RT	EXP RT	REL RT	CAL-RMT ( NG)		ON-COL ( NG)	
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.954)	426158	80.0000	77.29	
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	301857	80.0000	82.94	
50 Benzoic Acid	122	5.125	5.115	(0.954)	232711	80.0000	84.41	
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	323096	80.0000	81.88	
52 Naphthalene	128	5.395	5.395	(1.004)	1216155	80.0000	78.94	
54 4-Chloroaniline	127	5.488	5.488	(1.021)	484619	80.0000	79.97	
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	159233	80.0000	84.81	
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	335235	80.0000	80.06	
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	781029	80.0000	83.09	
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	181608	80.0000	79.29	
69 2,4,6-Trichlorophenol	195	6.576	6.576	(0.881)	194036	80.0000	85.34	
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	211635	80.0000	84.74	
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	668023	80.0000	79.34	
73 2-Nitroaniline	65	6.949	6.949	(0.931)	209144	80.0000	74.17	
76 Dimethylphthalate	163	7.229	7.229	(0.968)	787815	80.0000	81.01	
77 Acenaphthylene	152	7.281	7.281	(0.975)	1190475	80.0000	80.88	
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	187961	80.0000	86.21	
80 3-Nitroaniline	136	7.457	7.447	(0.999)	232287	80.0000	80.44	
81 Acenaphthene	153	7.509	7.509	(1.006)	727612	80.0000	77.58	
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	110384	80.0000	81.10	
83 Dibenzofuran	168	7.706	7.706	(1.032)	991740	80.0000	80.04 (q)	
84 4-Nitrophenol	109	7.675	7.675	(1.028)	102888	80.0000	81.61 (Q)	
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	246471	80.0000	84.49	
91 Fluorene	166	8.131	8.131	(1.089)	834271	80.0000	82.18	
92 Diethylphthalate	149	8.100	8.100	(1.088)	792071	80.0000	77.92	
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	340608	80.0000	81.38	
94 4-Nitroaniline	138	8.224	8.214	(1.101)	235541	80.0000	83.45	
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	134784	80.0000	75.96	
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	595826	93.7000	93.46	
100 Azobenzene	77	8.348	8.348	(0.888)	765053	80.0000	73.86	
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	187352	80.0000	81.15	
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	207655	80.0000	83.28	
110 Pentachlorophenol	266	9.240	9.240	(0.982)	126397	80.0000	84.45	
114 Phenanthrene	178	9.437	9.437	(1.003)	1188468	80.0000	79.75	
115 Anthracene	178	9.509	9.499	(1.011)	1218608	80.0000	81.25	
118 Carbazole	167	9.768	9.768	(1.038)	1118637	80.0000	80.19	
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	1251860	80.0000	80.14	
126 Fluoranthene	202	11.302	11.302	(1.202)	1107116	80.0000	82.54	
127 Benzidine	184	11.571	11.571	(0.839)	798205	80.0000	80.06	
128 Pyrene	202	11.665	11.665	(0.846)	1221015	80.0000	80.33	
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.933)	715866	80.0000	83.56	
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	598812	80.0000	77.10	
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	1034850	80.0000	80.70	
139 Chrysene	228	13.830	13.831	(1.003)	1040163	80.0000	78.06	
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	392335	80.0000	83.60	
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	820296	80.0000	76.71	
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	1354893	80.0000	79.24	
144 Benzo (b) fluoranthene	252	15.582	15.582	(0.964)	920884	80.0000	80.44 (Q)	
145 Benzo (k) fluoranthene	252	15.623	15.623	(0.967)	1102899	80.0000	82.44 (q)	
147 Benzo (e) pyrene	252	16.007	16.007	(0.990)	936566	80.0000	82.53	
148 Benzo (a) pyrene	252	16.079	16.079	(0.995)	1039045	80.0000	83.39	
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.181)	811625	80.0000	73.82	
152 Dibenzo (a, h) anthracene	276	17.851	17.841	(1.105)	926841	80.0000	82.04	
153 Benzo (g, h, i) perylene	276	18.235	18.235	(1.128)	982275	80.0000	81.10	

Compounds	QUERY SIG MSS	RT	RIP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	GR-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				2023783	80.0000	81.52 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	126989	3.56
2 Naphthalene-d8	530514	265257	1061028	553454	4.32
3 Acenaphthene-d10	282538	141269	565076	300315	6.29
4 Phenanthrene-d10	462722	231361	925444	477777	3.25
5 Chrysene-d12	435850	217925	871700	486126	11.54
6 Perylene-d12	422284	211142	844568	482782	14.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SRV\C\chem\svf,1\400210,3\HSL1002E.D

Date: 02-OCT-2010 14:09

Client: INT BR70F.H

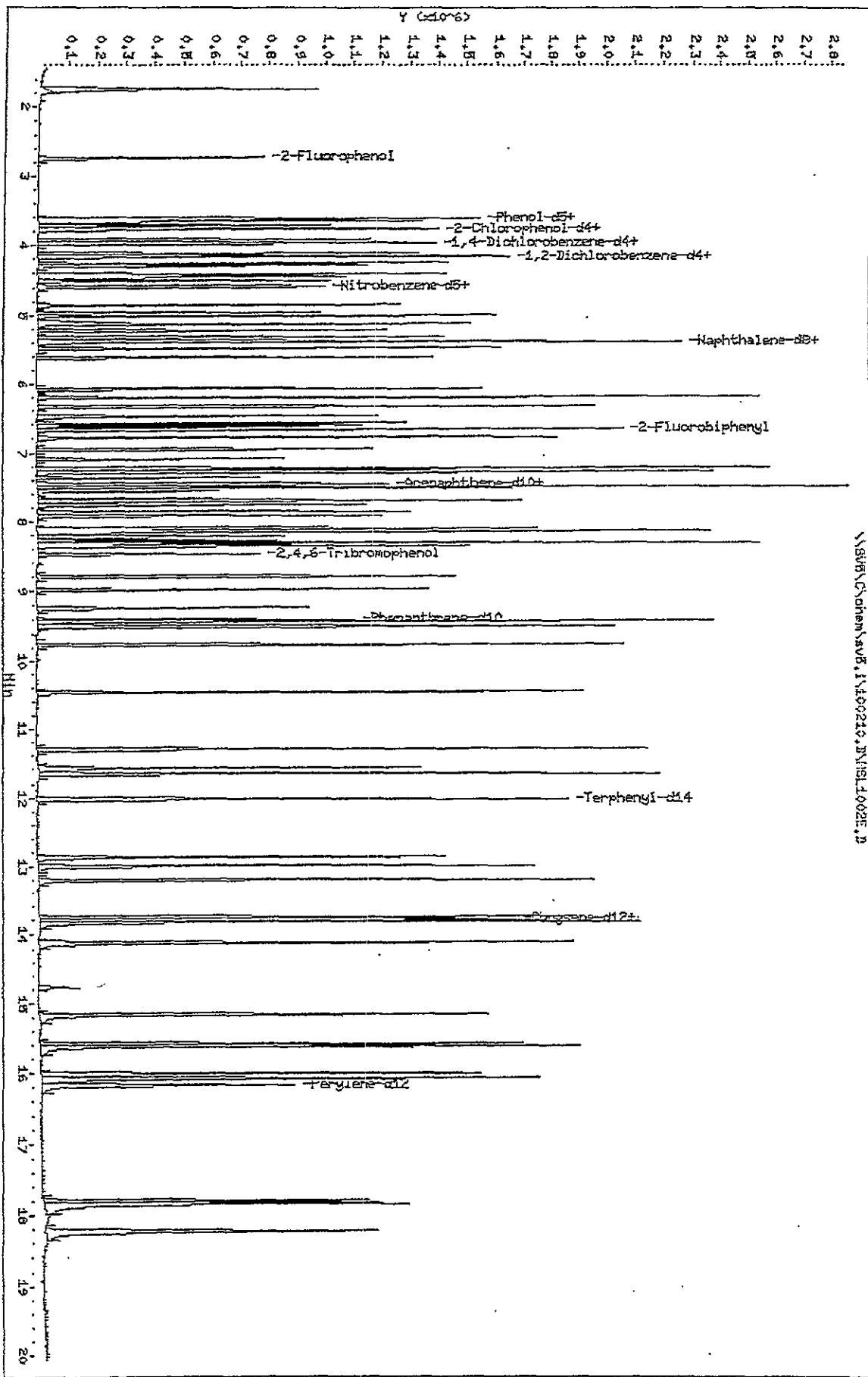
Sample Info: HSL\_080 ug/ml CS-B1411511114

Column phase: 1

Instrument: #V6.1

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	OR-CAL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	3.955	3.955 (1.000)	137751	40.0000		(Q)
* 2 Naphthalene-d8		136	5.374	5.374 (1.000)	591655	40.0000		
* 3 Acenaphthene-d10		164	7.468	7.468 (1.000)	322596	40.0000		
* 4 Phenanthrene-d10		188	9.406	9.406 (1.000)	515607	40.0000		
* 5 Chrysene-d12		240	13.769	13.779 (1.000)	509570	40.0000		
* 6 Perylene-d12		264	16.173	16.162 (1.000)	539588	40.0000		
\$ 7 2-Fluorophenol		112	2.732	2.732 (0.691)	568028	120.000	121.1	
\$ 8 Phenol-d5		99	3.613	3.613 (0.914)	759824	120.000	124.4	
\$ 9 2-Chlorophenol-d4		132	3.758	3.758 (0.950)	652805	120.000	121.7	
\$ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162 (1.052)	407247	120.000	120.0	
\$ 11 Nitrobenzene-d5		82	4.587	4.576 (0.853)	623501	120.000	124.4	
\$ 12 2-Fluorobiphenyl		172	6.680	6.680 (0.895)	1255441	120.000	120.8	
\$ 13 2,4,6-Tribromophenol		330	8.483	8.473 (1.135)	179053	120.000	127.7	
\$ 14 Terphenyl-d14		244	12.017	12.017 (0.871)	1251844	120.000	124.7	
15 N-Nitrosodimethylamine		74	1.706	1.706 (0.431)	388111	120.000	122.3 (q)	
16 Pyridine		79	1.727	1.726 (0.437)	633334	120.000	119.3 (Q)	
23 Aniline		93	3.654	3.654 (0.924)	964533	120.000	124.1 (Q)	
24 Phenol		94	3.623	3.623 (0.916)	851671	120.000	121.4 (Q)	
26 Bis(2-chloroethyl) ether		93	3.716	3.716 (0.940)	596323	120.000	121.2	
27 2-Chlorophenol		128	3.768	3.768 (0.953)	653244	120.000	121.3	
28 1,3-Dichlorobenzene		146	3.824	3.823 (0.992)	712032	120.000	121.4	
29 1,4-Dichlorobenzene		146	3.975	3.975 (1.005)	740915	120.000	120.8	
30 Benzyl Alcohol		108	4.120	4.120 (1.042)	450249	120.000	124.4	
31 1,2-Dichlorobenzene		146	4.172	4.172 (1.055)	679448	120.000	120.5	
32 2-Methylphenol		108	4.255	4.255 (1.076)	603967	120.000	122.6	
33 2,2'-oxybis(1-Chloropropane)		45	4.297	4.297 (1.086)	941514	120.000	120.2	
34 4-Methylphenol		108	4.421	4.421 (1.118)	644202	120.000	123.1	
36 Hexachloroethane		117	4.504	4.504 (1.139)	245394	120.000	117.5	
37 N-Nitrosodipropylamine		70	4.452	4.442 (1.125)	628242	120.000	122.9	
42 Nitrobenzene		77	4.607	4.597 (0.857)	593736	120.000	121.2	
44 Isophorone		82	4.857	4.856 (0.906)	1179801	120.000	125.2	
45 2-Nitrophenol		139	4.960	4.960 (0.923)	367467	120.000	126.4	
46 2,4-Dimethylphenol		107	5.012	5.012 (0.933)	638228	120.000	123.6	

10-3-10

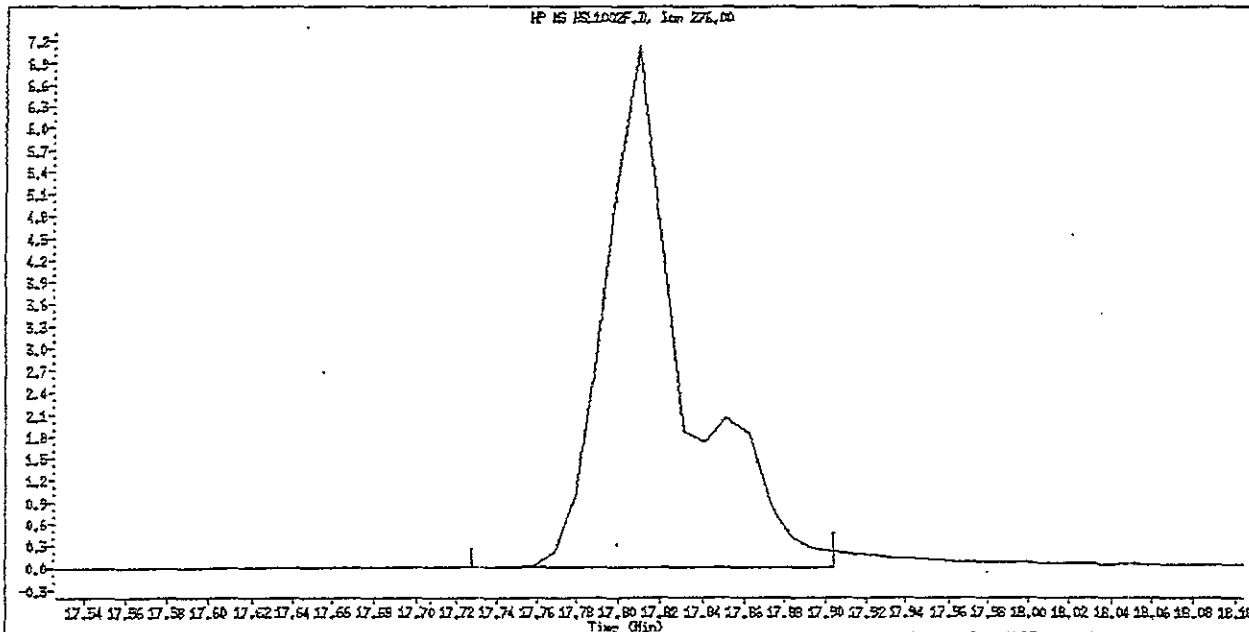
Compounds	QUANT SIG MASS	AMOUNTS				RESPONSE	CAL-AMT	CR-COL
		RT	EXP RT	REL RT	( NG)		( NG)	
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9	
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2	
50 Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3	
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	531764	120.000	122.9	
52 Naphthalene	128	5.395	5.395	(1.004)	2020315	120.000	123.7	
54 4-Chloroaniline	127	5.488	5.488	(1.021)	797064	120.000	124.5	
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	255231	120.000	120.6	
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	563840	120.000	126.4	
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1263302	120.000	123.1	
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	312226	120.000	129.7	
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.882)	331223	120.000	128.7	
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	343374	120.000	123.8	
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	1107604	120.000	122.0	
73 2-Nitroaniline	65	6.950	6.949	(0.931)	346408	120.000	125.9	
76 Dimethylphthalate	163	7.229	7.229	(0.968)	1286101	120.000	123.0	
77 Acenaphthylene	152	7.281	7.281	(0.975)	1933504	120.000	122.3	
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	311050	120.000	127.7	
80 3-Nitroaniline	138	7.457	7.447	(0.999)	382849	120.000	125.9	
81 Acenaphthene	153	7.509	7.509	(1.006)	1207616	120.000	120.0	
82 2,4-Dinitrophenol	184	7.582	7.572	(1.015)	199007	120.000	124.7	
83 Dibenzofuran	168	7.706	7.706	(1.032)	1630240	120.000	122.0 (g)	
84 4-Nitrophenol	109	7.675	7.675	(1.028)	161169	120.000	127.8 (Q)	
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	409418	120.000	128.1	
91 Fluorene	166	8.131	8.131	(1.089)	1333949	120.000	120.6	
92 Diethylphthalate	149	8.110	8.100	(1.086)	1329206	120.000	124.2	
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	558370	120.000	121.4	
94 4-Nitroaniline	138	8.224	8.214	(1.101)	378421	120.000	125.6	
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	236477	120.000	122.1	
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	1123239	141.000	143.7	
100 Azobenzene	77	8.359	8.348	(0.889)	1266722	120.000	124.9	
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	318358	120.000	126.5	
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	335728	120.000	119.4	
110 Pentachlorophenol	266	9.240	9.240	(0.982)	215360	120.000	122.2	
114 Phenanthrene	178	9.437	9.437	(1.003)	1942962	120.000	119.6	
115 Anthracene	178	9.509	9.499	(1.011)	2014163	120.000	124.0	
118 Carbazole	167	9.768	9.768	(1.039)	1828217	120.000	123.3	
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	2225048	120.000	124.7	
126 Fluoranthene	202	11.302	11.302	(1.202)	1829791	120.000	125.6	
127 Benzidine	184	11.582	11.571	(0.840)	1320429	120.000	127.8	
128 Pyrene	202	11.665	11.665	(0.846)	1963825	120.000	123.3	
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1214012	120.000	133.2	
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	997218	120.000	124.9	
138 Benzo(a)anthracene	228	13.758	13.758	(0.998)	1694281	120.000	124.8	
139 Chrysene	228	13.831	13.831	(1.003)	1715841	120.000	123.6	
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	653016	120.000	127.5	
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	1358794	120.000	124.5	
142 Di-2-octylphthalate	149	15.167	15.167	(1.100)	2256614	120.000	128.4	
144 Benzo(b)fluoranthene	252	15.592	15.582	(0.964)	1475217	120.000	120.8 (Q)	
145 Benzo(k)fluoranthene	252	15.623	15.623	(0.966)	1935987	120.000	123.5 (g)	
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	1569049	120.000	123.2	
148 Benzo(a)pyrene	252	16.079	16.079	(0.994)	1720343	120.000	124.2	
151 Indeno(1,2,3-cd)pyrene	276	17.810	17.800	(1.101)	1517263	120.000	135.5 (M)	
152 Dibenzo(a,h)anthracene	278	17.851	17.841	(1.104)	1634040	120.000	130.6	
153 Benzo(g,h,i)perylene	276	18.245	18.235	(1.128)	1706123	120.000	125.9	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene totals	252				3411204	120.000	122.3 (A)

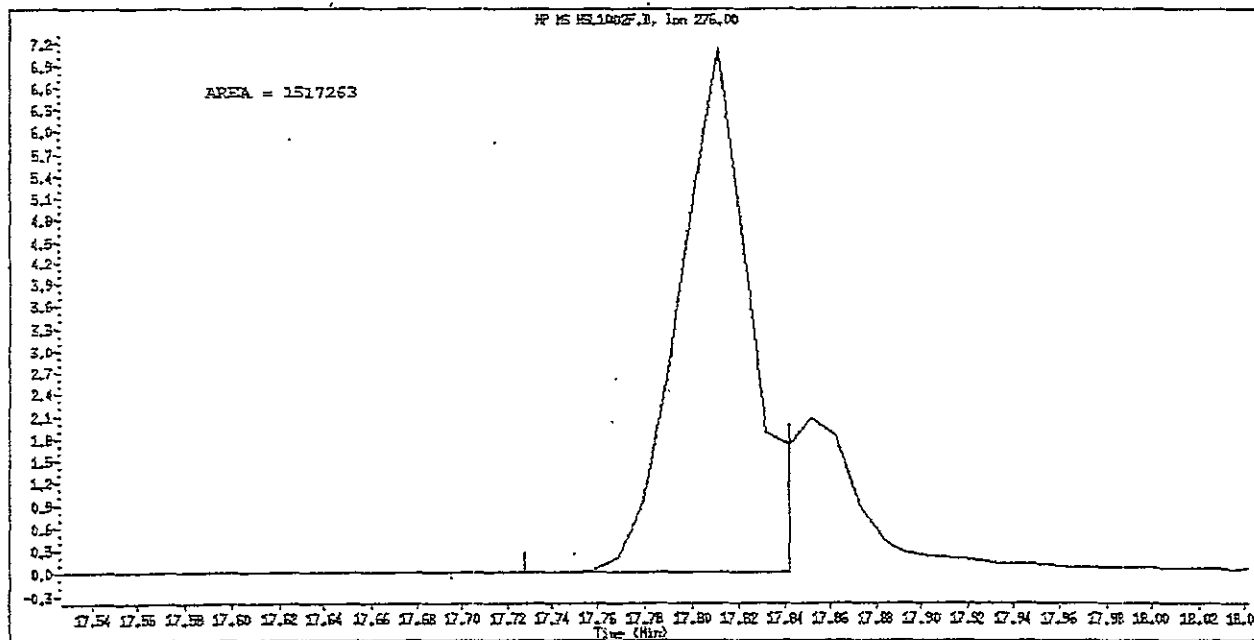
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: ESI1D02F.D  
Inj. Date and Time: 02-OCT-2010 14:35  
Instrument ID: SV5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	3.955	3.955 (1.000)		137751	40.0000	(Q)
* 2 Naphthalene-d8		136	5.374	5.374 (1.000)		591665	40.0000	
* 3 Acenaphthene-d10		164	7.468	7.468 (1.000)		322596	40.0000	
* 4 Phenanthrene-d10		188	9.406	9.405 (1.000)		515607	40.0000	
* 5 Chrysene-d12		240	13.789	13.779 (1.000)		509570	40.0000	
* 6 Perylene-d12		264	16.173	16.162 (1.000)		539588	40.0000	
§ 7 2-Fluorophenol		112	2.732	2.732 (0.691)		588028	120.000	115.7
§ 8 Phenol-d5		99	3.613	3.613 (0.914)		759824	120.000	117.5
§ 9 2-Chlorophenol-d4		132	3.758	3.758 (0.950)		652805	120.000	118.4
§ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162 (1.052)		407247	120.000	118.4
§ 11 Nitrobenzene-d5		82	4.587	4.576 (0.853)		623501	120.000	118.8
§ 12 2-Fluorobiphenyl		172	6.680	6.680 (0.895)		1255441	120.000	121.5
§ 13 2,4,6-Tribromophenol		330	8.483	8.473 (1.136)		179055	120.000	140.6
§ 14 Terphenyl-d14		244	12.017	12.017 (0.671)		1251844	120.000	126.0
15 N-Nitrosodimethylamine		74	1.706	1.706 (0.431)		388111	120.000	115.7
16 Pyridine		79	1.727	1.726 (0.437)		633334	120.000	113.3
23 Aniline		93	3.654	3.654 (0.924)		964533	120.000	119.0(Q)
24 Phenol		94	3.623	3.623 (0.916)		851671	120.000	123.8(Q)
26 Bis(2-chloroethyl) ether		93	3.716	3.716 (0.940)		596323	120.000	114.2
27 2-Chlorophenol		128	3.768	3.768 (0.953)		653244	120.000	120.0
28 1,3-Dichlorobenzene		146	3.924	3.923 (0.992)		712032	120.000	118.4
29 1,4-Dichlorobenzene		146	3.975	3.975 (1.005)		740915	120.000	121.9
30 Benzyl Alcohol		108	4.120	4.120 (1.042)		450249	120.000	120.4
31 1,2-Dichlorobenzene		146	4.172	4.172 (1.055)		679448	120.000	117.9
32 2-Methylphenol		108	4.255	4.255 (1.076)		603987	120.000	118.8
33 2,2'-oxybis(1-chloropropane)		45	4.297	4.297 (1.086)		941514	120.000	97.10
34 4-Methylphenol		108	4.421	4.421 (1.118)		644202	120.000	118.9
36 Hexachloroethane		117	4.504	4.504 (1.139)		245394	120.000	114.4
37 N-Nitrosodipropylamine		70	4.452	4.442 (1.126)		428242	120.000	112.9
42 Nitrobenzene		77	4.607	4.597 (0.857)		593736	120.000	113.8
44 Isophorone		82	4.867	4.856 (0.906)		1179801	120.000	119.3
45 2-Nitrophenol		139	4.960	4.960 (0.923)		367467	120.000	129.0
46 2,4-Dimethylphenol		107	5.012	5.012 (0.933)		638328	120.000	120.7

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	120.2
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	128.5
50 Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	134.1
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	531764	120.000	126.0
52 Naphthalene	128	5.395	5.395	(1.004)	2020315	120.000	122.7
54 4-Chloroaniline	127	5.488	5.488	(1.021)	797064	120.000	123.0
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	255231	120.000	127.2
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	563840	120.000	125.9
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1263302	120.000	125.7
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	312226	120.000	126.9
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.882)	331223	120.000	135.6
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	343374	120.000	128.0
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	1107604	120.000	122.5
73 2-Nitroaniline	65	6.950	6.949	(0.931)	346408	120.000	114.4
75 Dimethylphthalate	163	7.229	7.229	(0.968)	1286101	120.000	123.1
77 Acenaphthylene	152	7.281	7.281	(0.975)	1933504	120.000	122.3
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	313050	120.000	133.0
80 3-Nitroaniline	138	7.457	7.447	(0.999)	382849	120.000	123.4
81 Acenaphthene	153	7.509	7.509	(1.006)	1207616	120.000	119.9
82 2,4-Dinitrophenol	184	7.582	7.571	(1.015)	199007	120.000	127.2
83 Dibenzofuran	168	7.706	7.706	(1.032)	1630240	120.000	122.5 (g)
84 4-Nitrophenol	109	7.675	7.675	(1.028)	161169	120.000	119.0 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	409418	120.000	130.6
91 Fluorene	166	8.131	8.131	(1.089)	1323949	120.000	122.3
92 Diethylphthalate	149	8.110	8.100	(1.086)	1329206	120.000	121.7
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	558370	120.000	124.2
94 4-Nitroaniline	138	8.224	8.214	(1.101)	378421	120.000	124.8
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.882)	236477	120.000	120.3
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	1123239	141.000	139.8
100 Acobenzene	77	8.359	8.348	(0.888)	1266722	120.000	113.3
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	318358	120.000	127.8
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	335728	120.000	124.8
110 Pentachlorophenol	266	9.240	9.240	(0.982)	215360	120.000	133.3
114 Phenanthrene	178	9.437	9.437	(1.003)	1942962	120.000	120.8
115 Anthracene	178	9.509	9.499	(1.011)	2014183	120.000	124.4
118 Carbazole	167	9.768	9.768	(1.038)	1828217	120.000	121.4
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	2225048	120.000	122.2
126 Fluoranthene	202	11.302	11.302	(1.202)	1829791	120.000	125.4
127 Benzidine	184	11.582	11.571	(0.840)	1320429	120.000	126.2
128 Pyrene	202	11.665	11.665	(0.846)	1963825	120.000	123.2
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1214012	120.000	135.2
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	997218	120.000	122.5
138 Benzo (a) Antiracene	228	13.758	13.758	(0.999)	1694281	120.000	126.0
139 Chrysene	228	13.831	13.831	(1.003)	1715841	120.000	122.8
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	653016	120.000	132.7
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	1368794	120.000	122.1
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	2256614	120.000	125.9
144 Benzo (b) fluoranthene	252	15.592	15.582	(0.964)	1475217	120.000	115.3 (Q)
145 Benzo (k) fluoranthene	252	15.623	15.623	(0.966)	1935987	120.000	129.5 (q)
147 Benzo (e) pyrene	252	16.007	16.007	(0.990)	1569049	120.000	123.7
148 Benzo (a) pyrene	252	16.079	16.079	(0.994)	1720343	120.000	123.5
151 Indeno (1, 2, 3-cd) pyrene	276	17.810	17.800	(1.101)	1867193	120.000	151.5
152 Dibenzo (a, h) anthracene	278	17.851	17.841	(1.104)	1634040	120.000	129.4
153 Benzo (g, h, i) perylene	276	18.245	18.235	(1.128)	1706123	120.000	126.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	OR-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				3411204	120.000	122.9 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	137751	12.34
2 Naphthalene-d8	530514	265257	1061028	591665	11.53
3 Acenaphthene-d10	282538	141269	565076	322596	14.18
4 Phenanthrene-d10	462722	231361	925444	515607	11.43
5 Chrysene-d12	435850	217925	871700	509570	16.91
6 Perylene-d12	422284	211142	844568	539588	27.78

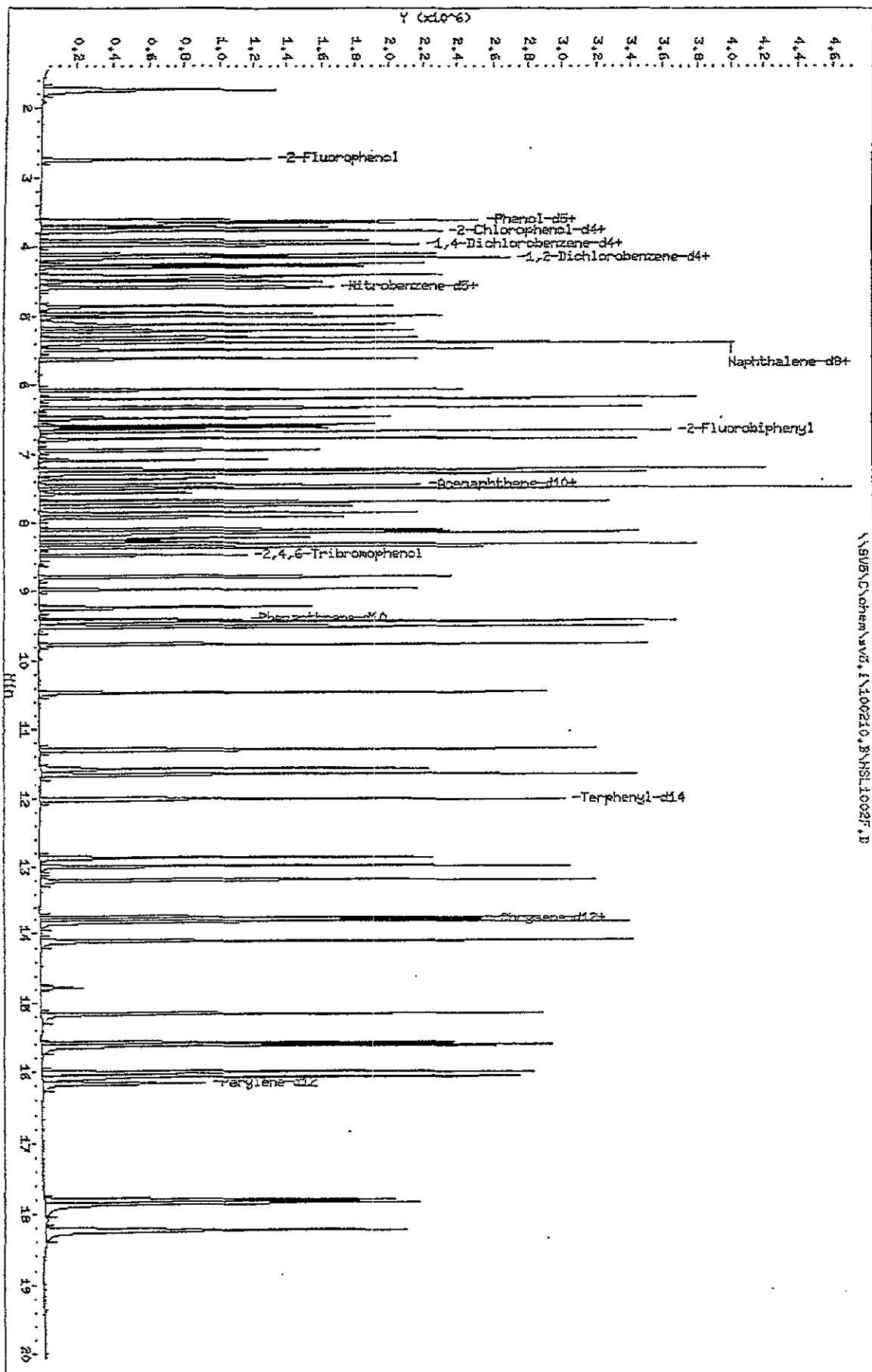
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.08
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVB\CVchem\swg.1\100210.B\HSL1002F.D  
Date: 02-OCT-2010 14:38  
Client ID: 8270F.H  
Sample Info: HSL\_120 ug/ml CS-6115151114

Column Phase: 1

Instrument: 405.1  
Operator: KT  
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 15:00  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als.bottle: 7 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	3.954	3.955 (1.000)	141009	40.0000		(Q)
* 2 Naphthalene-d8		136	5.374	5.374 (1.000)	622451	40.0000		
* 3 Acenaphthene-d10		164	7.478	7.468 (1.000)	328259	40.0000		
* 4 Phenanthrene-d10		188	9.405	9.405 (1.000)	532284	40.0000		
* 5 Chrysene-d12		240	13.789	13.779 (1.000)	539557	40.0000		
* 6 Perylene-d12		264	16.172	16.162 (1.000)	550436	40.0000		
\$ 7 2-Fluorophenol		112	2.732	2.732 (0.691)	810154	160.000	163.0 (A)	
\$ 8 Phenol-d5		99	3.623	3.613 (0.916)	1035724	160.000	165.7 (A)	
\$ 9 2-Chlorophenol-d4		122	3.757	3.758 (0.950)	890073	160.000	162.2 (A)	
\$ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162 (1.052)	557810	160.000	160.6 (A)	
\$ 11 Nitrobenzene-d5		82	4.587	4.576 (0.853)	845796	160.000	160.4 (A)	
\$ 12 2-Fluorobiphenyl		172	6.680	6.680 (0.893)	1707074	160.000	161.4 (A)	
\$ 13 2,4,6-Tribromophenol		330	8.483	8.473 (1.134)	241468	160.000	169.3 (A)	
\$ 14 Terphenyl-d14		244	12.017	12.017 (0.871)	1728892	160.000	162.7 (A)	
15 N-Nitrosodimethylamine		74	1.706	1.706 (0.431)	529253	160.000	162.9 (Aq)	
16 Pyridine		79	1.726	1.726 (0.437)	860850	160.000	158.4 (Q)	
23 Aniline		93	3.654	3.654 (0.924)	1318620	160.000	165.8 (AQ)	
24 Phenol		94	3.633	3.623 (0.918)	1166090	160.000	162.4 (AQ)	
26 Bis(2-chloroethyl) ether		93	3.716	3.716 (0.940)	813702	160.000	161.6 (A)	
27 2-Chlorophenol		128	3.768	3.768 (0.953)	885754	160.000	160.7 (A)	
28 1,3-Dichlorobenzene		146	3.923	3.923 (0.992)	972719	160.000	162.0 (A)	
29 1,4-Dichlorobenzene		146	3.975	3.975 (1.005)	1023408	160.000	163.0 (A)	
30 Benzyl Alcohol		108	4.120	4.120 (1.042)	617653	160.000	166.7 (A)	
31 1,2-Dichlorobenzene		146	4.172	4.172 (1.055)	928919	160.000	160.9 (A)	
32 2-Methylphenol		108	4.265	4.255 (1.079)	834149	160.000	165.4 (A)	
33 2,2'-oxybis(1-Chloropropane)		45	4.296	4.297 (1.086)	1290345	160.000	161.0 (A)	
34 4-Methylphenol		108	4.421	4.421 (1.116)	895481	160.000	167.2 (A)	
36 Hexachloroethane		117	4.504	4.504 (1.139)	343605	160.000	160.7 (A)	
37 N-Nitrosodipropylamine		70	4.452	4.442 (1.126)	590870	160.000	165.6 (A)	
42 Nitrobenzene		77	4.607	4.597 (0.857)	844093	160.000	163.8 (A)	
44 Isophorone		82	4.866	4.856 (0.906)	2628636	160.000	154.4 (A)	
45 2-Nitrophenol		139	4.960	4.960 (0.923)	510613	160.000	167.0 (A)	
46 2,4-Dimethylphenol		107	5.022	5.012 (0.994)	890994	160.000	164.0 (A)	

10-3-10

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane		83	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol		162	5.229	5.229	(0.973)	692405	160.000	164.7 (A)
50 Benzoic Acid		122	5.167	5.115	(0.961)	552251	160.000	183.6 (A)
51 1,2,4-Trichlorobenzene		180	5.333	5.322	(0.992)	724320	160.000	159.2
52 Naphthalene		128	5.395	5.395	(1.004)	2744968	160.000	159.7
54 4-Chloroaniline		127	5.488	5.488	(1.021)	1092223	160.000	162.1 (A)
57 Hexachlorobutadiene		225	5.612	5.613	(1.044)	360358	160.000	161.8 (A)
60 4-Chloro-3-Methylphenol		107	6.068	6.069	(1.129)	767831	160.000	163.6 (A)
63 2-Methylnaphthalene		142	6.203	6.203	(1.154)	1723402	160.000	159.6
66 Hexachlorocyclopentadiene		237	6.453	6.483	(0.867)	435738	160.000	177.9 (A)
69 2,4,6-Trichlorophenol		196	6.587	6.576	(0.881)	441685	160.000	168.6 (A)
70 2,4,5-Trichlorophenol		196	6.628	6.628	(0.886)	474468	160.000	168.2 (A)
71 2-Chloronaphthalene		162	6.783	6.784	(0.907)	1511253	160.000	163.6 (A)
73 2-Nitroaniline		65	6.960	6.949	(0.931)	476342	160.000	170.1 (A)
76 Dimethylphthalate		163	7.229	7.229	(0.967)	1710061	160.000	160.8 (A)
77 Acenaphthylene		152	7.251	7.281	(0.975)	2665048	160.000	165.6 (A)
79 2,6-Dinitrotoluene		165	7.302	7.302	(0.976)	408436	160.000	164.8 (A)
80 3-Nitroaniline		138	7.457	7.447	(0.997)	520002	160.000	168.7 (A)
81 Acenaphthene		153	7.509	7.509	(1.004)	1647377	160.000	160.9 (A)
82 2,4-Dinitrophenol		184	7.581	7.572	(1.014)	265655	160.000	157.7
83 Dibenzofuran		158	7.706	7.706	(1.030)	2246304	160.000	165.3 (A)
84 4-Nitrophenol		109	7.685	7.675	(1.028)	228516	160.000	178.1 (Ag)
85 2,4-Dinitrotoluene		165	7.778	7.768	(1.040)	566055	160.000	174.0 (A)
91 Fluorene		166	8.141	8.131	(1.089)	1845653	160.000	164.1 (A)
92 Diethylphthalate		149	8.110	8.100	(1.085)	1813127	160.000	166.5 (A)
93 4-Chlorophenyl-phenylether		204	8.151	8.152	(1.090)	757562	160.000	161.9 (A)
94 4-Nitroaniline		138	8.224	8.214	(1.100)	531151	160.000	173.2 (A)
97 4,6-Dinitro-2-methylphenol		198	8.285	8.276	(0.881)	324244	160.000	160.7 (A)
98 N-Nitrosodiphenylamine		169	8.328	8.317	(0.885)	1542041	187.000	191.1 (A)
100 Acobenzene		77	8.359	8.348	(0.889)	1646477	160.000	157.3
101 4-Bromophenyl-phenylether		248	8.804	8.794	(0.936)	421894	160.000	162.4 (A)
108 Hexachlorobenzene		284	8.980	8.981	(0.955)	465305	160.000	160.3 (A)
110 Pentachlorophenol		266	9.250	9.240	(0.983)	293184	160.000	159.9
114 Phenanthrene		178	9.447	9.437	(1.004)	2695719	160.000	160.7 (A)
115 Anthracene		178	9.509	9.499	(1.011)	2703105	160.000	161.3 (A)
118 Carbazole		167	9.768	9.768	(1.039)	2479487	160.000	161.9 (A)
120 Di-n-Butylphthalate		149	10.473	10.463	(1.113)	3164666	160.000	171.8 (A)
126 Fluoranthene		202	11.312	11.302	(1.203)	2500453	160.000	166.3 (A)
127 Benzidine		184	11.582	11.571	(0.840)	1864289	160.000	170.5 (A)
128 Pyrene		202	11.664	11.665	(0.846)	2714930	160.000	161.0 (A)
134 3,3'-dimethylbenzidine		212	12.877	12.867	(0.934)	1724989	160.000	178.7 (A)
136 Butylbenzylphthalate		149	12.951	12.991	(0.942)	1401117	160.000	155.8 (A)
138 Benzo(a)Anthracene		228	13.768	13.758	(0.958)	2393908	160.000	166.6 (A)
139 Chrysene		228	13.841	13.831	(1.004)	2422526	160.000	164.8 (A)
140 3,3'-Dichlorobenzidine		252	13.810	13.799	(1.002)	915413	160.000	168.9 (A)
141 bis(2-ethylhexyl) Phthalate		149	14.110	14.110	(1.023)	1906885	160.000	163.6 (A)
142 Di-n-octylphthalate		149	15.167	15.167	(1.100)	2253965	160.000	174.8 (A)
144 Benzo(b) Fluoranthene		252	15.592	15.582	(0.964)	2299398	160.000	181.2 (AQ)
145 Benzo(k) Fluoranthene		252	15.634	15.623	(0.967)	2475925	160.000	152.0 (g)
147 Benzo(e) pyrene		252	16.017	16.007	(0.990)	2178628	160.000	164.7 (A)
148 Benzo(a) pyrene		252	16.089	16.079	(0.995)	2387962	160.000	166.0 (A)
151 Indeno(1,2,3-cd) pyrene		276	17.820	17.800	(1.102)	2196805	160.000	188.8 (AM)
152 Dibenzo(a,h) anthracene		278	17.862	17.841	(1.104)	2250528	160.000	173.2 (A)
153 Benzo(g,h,i) perylene		276	18.255	18.235	(1.129)	2332007	160.000	165.7 (A)

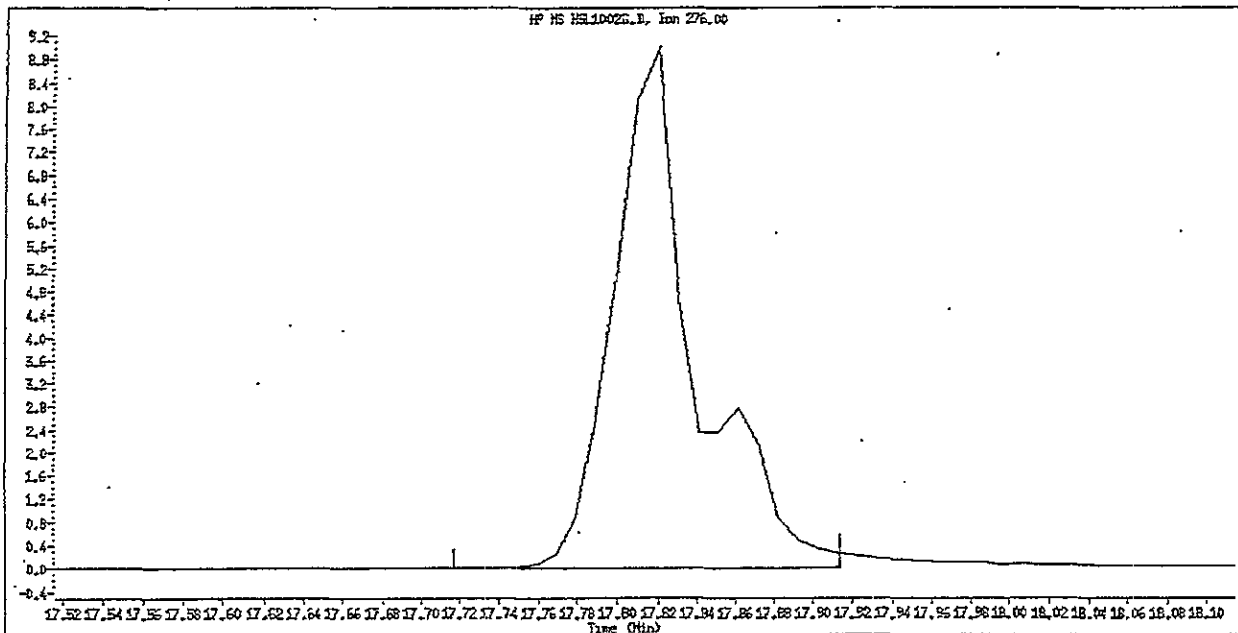
Compounds	QUANT SEG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				4775333	160.000	164.8 (A)

QC Flag Legend

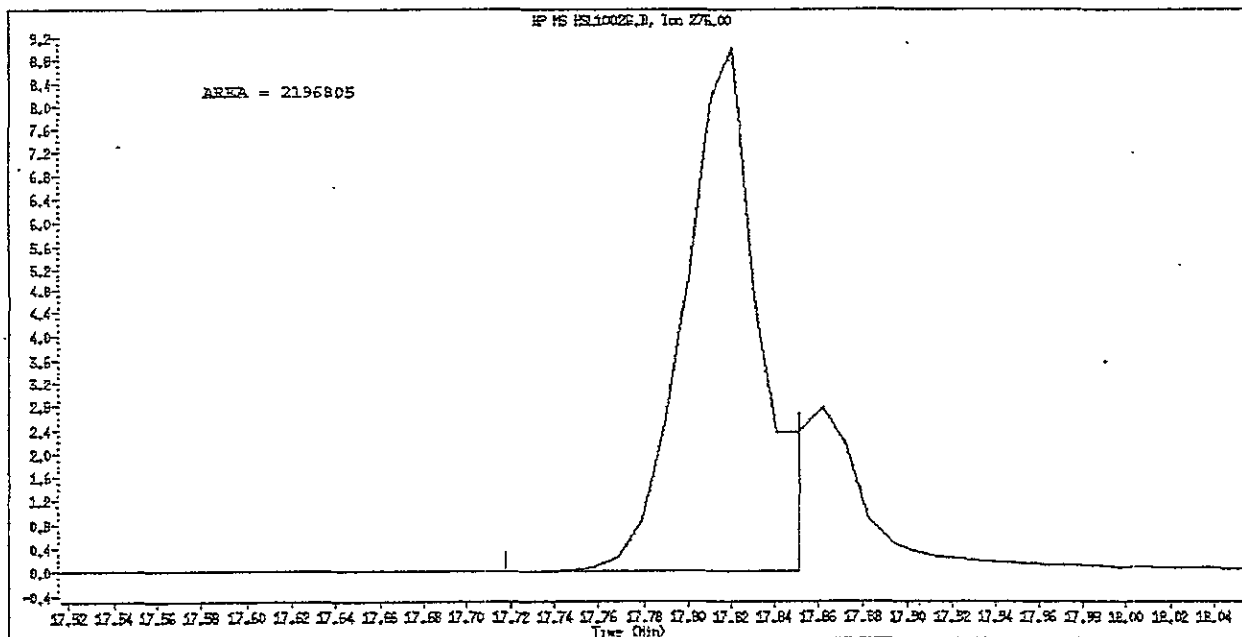
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.



Data File Name: HSL1002G.D  
Inj. Date and Time: 02-OCT-2010 15:00  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truogk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 15:00  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 7 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152			3.954	3.955	(1.000)	141009	40.0000	(Q)
* 2 Naphthalene-d8	136			5.374	5.374	(1.000)	622461	40.0000	
* 3 Acenaphthene-d10	164			7.478	7.468	(1.000)	328259	40.0000	
* 4 Phenanthrene-d10	188			9.405	9.405	(1.000)	532284	40.0000	
* 5 Chrysene-d12	240			13.789	13.779	(1.000)	539557	40.0000	
* 6 Perylene-d12	264			16.172	16.162	(1.000)	560436	40.0000	
§ 7 2-Fluorophenol	112			2.732	2.732	(0.691)	810154	160.000	155.7
§ 8 Phenol-d5	99			3.623	3.613	(0.916)	1035724	160.000	156.5
§ 9 2-Chlorophenol-d4	132			3.757	3.758	(0.950)	890073	160.000	157.7
§ 10 1,2-Dichlorobenzene-d4	152			4.162	4.162	(1.052)	557810	160.000	158.4
§ 11 Nitrobenzene-d5	82			4.587	4.576	(0.853)	845796	160.000	153.2
§ 12 2-Fluorobiphenyl	172			6.680	6.680	(0.893)	1707074	160.000	162.4 (A)
§ 13 2,4,6-Tribromophenol	330			8.483	8.473	(1.134)	241466	160.000	166.3 (A)
§ 14 Terphenyl-d14	244			12.017	12.017	(0.871)	1728892	160.000	164.3 (A)
15 N-Nitrosodimethylamine	74			1.706	1.706	(0.431)	529253	160.000	154.1
16 Pyridine	79			1.726	1.726	(0.437)	660850	160.000	150.4
23 Aniline	93			3.654	3.654	(0.924)	1318520	160.000	158.9 (Q)
24 Phenol	94			3.633	3.623	(0.919)	1166090	160.000	165.7 (AQ)
26 Bis(2-chloroethyl) ether	93			3.716	3.716	(0.940)	813702	160.000	152.2
27 2-Chlorophenol	128			3.768	3.768	(0.953)	885754	160.000	159.0
28 1,3-Dichlorobenzene	146			3.923	3.923	(0.992)	972719	160.000	158.0
29 1,4-Dichlorobenzene	146			3.975	3.975	(1.005)	1023408	160.000	164.5 (A)
30 Benzyl Alcohol	108			4.120	4.120	(1.042)	617653	160.000	161.4 (A)
31 1,2-Dichlorobenzene	146			4.172	4.172	(1.055)	928919	160.000	157.5
32 2-Methylphenol	108			4.265	4.255	(1.079)	824149	160.000	160.3 (A)
33 2,2'-oxybis(1-Chloropropane)	45			4.296	4.297	(1.086)	1290345	160.000	130.0
34 4-Methylphenol	108			4.421	4.421	(1.118)	395481	160.000	161.5 (A)
36 Hexachloroethane	117			4.504	4.504	(1.139)	343605	160.000	156.5
37 N-Nitrosodimethylamine	70			4.452	4.442	(1.126)	590870	160.000	152.2
42 Nitrobenzene	77			4.607	4.557	(0.857)	844093	160.000	153.8
44 Isophorone	82			4.856	4.856	(0.906)	1628636	160.000	156.6
45 2-Nitrophenol	139			4.960	4.960	(0.923)	510613	160.000	170.5 (A)
46 2,4-Dimethylphenol	107			5.022	5.012	(0.934)	890994	160.000	160.2 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	OW-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126 (0.956)	959710	160.000	155.0	
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)	692405	160.000	169.1 (A)	
50 Benzoic Acid	122	5.167	5.115 (0.951)	552251	160.000	176.1 (A)	
51 1,2,4-Trichlorobenzene	180	5.333	5.322 (0.992)	724320	160.000	163.2 (A)	
52 Naphthalene	128	5.395	5.395 (1.004)	2744968	160.000	158.4	
54 4-Chloroaniline	127	5.488	5.488 (1.021)	1092223	160.000	160.2 (A)	
57 Hexachlorobutadiene	225	5.612	5.613 (1.044)	360358	160.000	170.6 (A)	
60 4-Chloro-3-Methylphenol	107	6.068	6.069 (1.129)	767821	160.000	163.0 (A)	
63 2-Methylnaphthalene	142	6.203	6.203 (1.154)	1723402	160.000	153.0 (A)	
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.867)	435738	160.000	174.0 (A)	
69 2,4,6-Trichlorophenol	196	6.587	6.576 (0.881)	441685	160.000	177.7 (A)	
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.886)	474468	160.000	173.8 (A)	
71 2-Chloronaphthalene	162	6.783	6.784 (0.907)	1511253	160.000	164.2 (A)	
73 2-Nitroaniline	65	6.960	6.949 (0.931)	476342	160.000	154.5	
76 Dimethylphthalate	163	7.229	7.229 (0.967)	1710061	160.000	160.9 (A)	
77 Acenaphthylene	152	7.291	7.281 (0.975)	2665048	160.000	165.6 (A)	
79 2,6-Dinitrotoluene	165	7.302	7.302 (0.976)	408436	160.000	171.6 (A)	
80 3-Nitroaniline	138	7.457	7.447 (0.957)	520002	160.000	164.8 (A)	
81 Acenaphthene	153	7.509	7.509 (1.004)	1647377	160.000	160.7 (A)	
82 2,4-Dinitrophenol	184	7.581	7.571 (1.014)	265655	160.000	158.9	
83 Dibenzofuran	168	7.706	7.706 (1.030)	2246304	160.000	165.8 (A)	
84 4-Nitrophenol	109	7.685	7.675 (1.028)	228516	160.000	165.8 (A)	
86 2,4-Dinitrotoluene	165	7.778	7.768 (1.040)	566055	160.000	177.5 (A)	
91 Fluorene	166	8.141	8.131 (1.089)	1846553	160.000	166.4 (A)	
92 Diethylphthalate	149	8.110	8.100 (1.085)	1813127	160.000	163.2 (A)	
93 4-Chlorophenyl-phenylether	204	8.151	8.152 (1.090)	757562	160.000	165.6 (A)	
94 4-Nitroaniline	138	8.224	8.214 (1.100)	531151	160.000	172.2 (A)	
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276 (0.881)	324244	160.000	158.0	
98 N-Nitrosodiphenylamine	169	8.328	8.317 (0.885)	1542041	187.000	185.9 (A)	
100 Azobenzene	77	8.359	8.348 (0.889)	1646477	160.000	142.7	
101 4-Bromophenyl-phenylether	248	8.804	8.794 (0.936)	421894	160.000	164.0 (A)	
108 Hexachlorobenzene	284	8.980	8.981 (0.955)	465305	160.000	167.5 (A)	
110 Pentachlorophenol	266	9.250	9.240 (0.983)	293184	160.000	175.8 (A)	
114 Phenanthrene	178	9.447	9.437 (1.004)	2695719	160.000	162.4 (A)	
115 Anthracene	178	9.509	9.499 (1.011)	2793105	160.000	161.8 (A)	
118 Carbazole	167	9.768	9.768 (1.039)	2479487	160.000	159.5	
120 Di-n-Butylphthalate	149	10.473	10.463 (1.113)	3164666	160.000	168.4 (A)	
125 Fluoranthene	202	11.312	11.302 (1.203)	2500453	160.000	167.3 (A)	
127 Benzidine	184	11.582	11.571 (0.840)	1864289	160.000	168.3 (A)	
128 Pyrene	202	11.664	11.665 (0.846)	2714930	160.000	160.9 (A)	
134 3,3'-dimethylbenzidine	212	12.877	12.867 (0.934)	1724989	160.000	181.4 (A)	
136 Butylbenzylphthalate	149	12.991	12.991 (0.942)	1401117	160.000	162.5 (A)	
138 Benzo(a)Anthracene	228	13.768	13.758 (0.998)	2393908	160.000	163.2 (A)	
139 Chrysene	228	13.841	13.831 (1.004)	2422526	160.000	163.8 (A)	
140 3,3'-Dichlorobenzidine	252	13.810	13.799 (1.002)	915413	160.000	175.7 (A)	
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110 (1.023)	1906885	160.000	160.7 (A)	
142 Di-n-octylphthalate	149	15.167	15.167 (1.100)	3253965	160.000	171.5 (A)	
144 Benzo(b)fluoranthene	252	15.592	15.582 (0.964)	2299398	160.000	173.0 (AQ)	
145 Benzo(k)fluoranthene	252	15.634	15.623 (0.967)	2475935	160.000	159.4 (C)	
147 Benzo(e)pyrene	252	16.017	16.007 (0.990)	2178628	160.000	165.4 (A)	
148 Benzo(a)pyrene	252	16.089	16.079 (0.995)	2387962	160.000	165.1 (A)	
151 Indeno(1,2,3-cd)pyrene	276	17.820	17.800 (1.102)	2617878	160.000	204.6 (A)	
152 Dibenzo(a,h)anthracene	278	17.862	17.841 (1.104)	2250528	160.000	171.6 (A)	
153 Benzo(g,h,i)perylene	276	18.255	18.235 (1.129)	2332007	160.000	165.9 (A)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				4775333	160.000	165.7 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 02-OCT-2010  
 Lab File ID: HSL1002G.D Calibration Time: 13:44  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141009	14.99
2 Naphthalene-d8	530514	265257	1061028	622461	17.33
3 Acenaphthene-d10	282538	141269	565076	328259	16.18
4 Phenanthrene-d10	462722	231361	925444	532284	15.03
5 Chrysene-d12	435850	217925	871700	539557	23.79
6 Perylene-d12	422284	211142	844568	560436	32.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.48	0.14
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

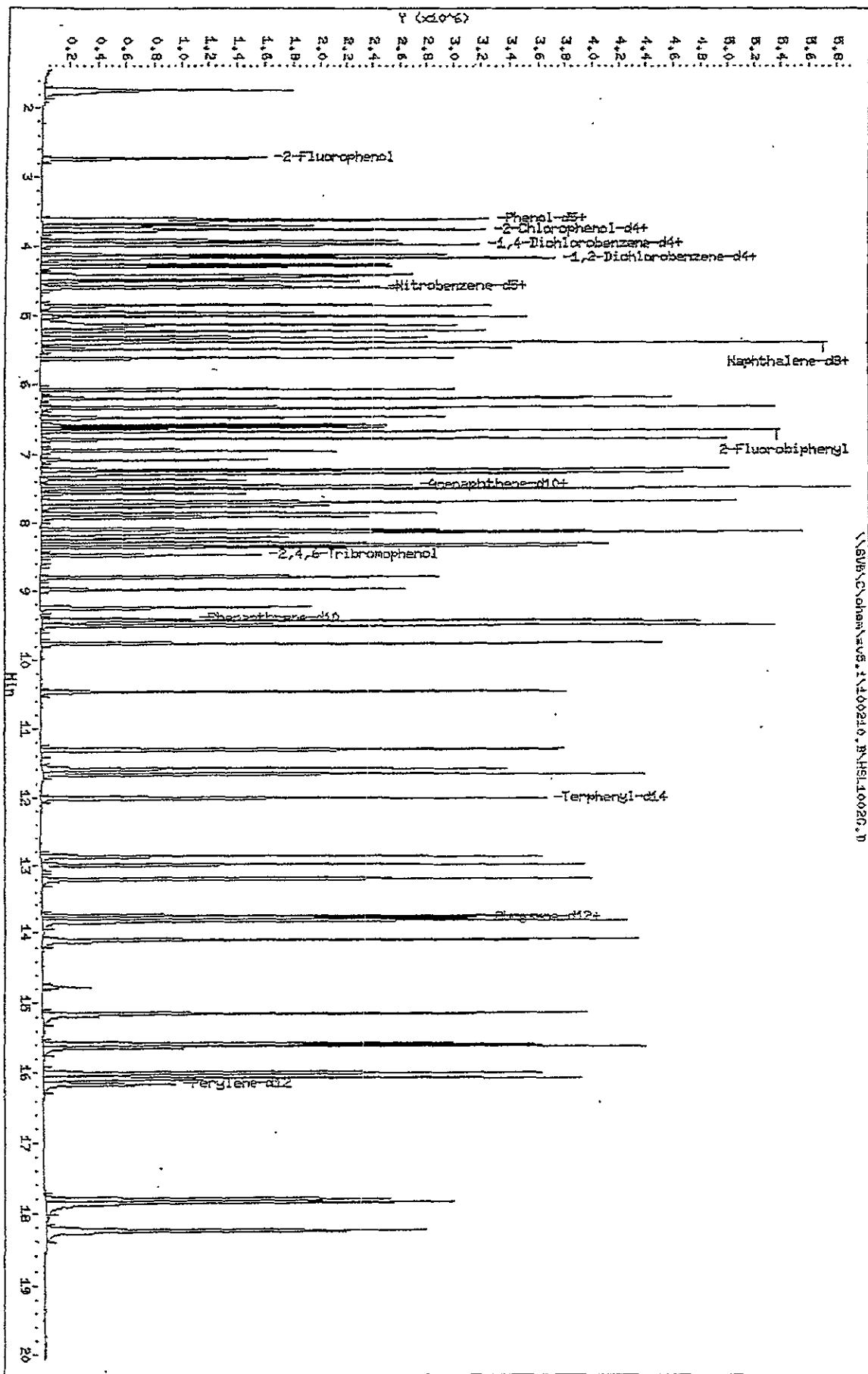
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SAB\CV\chem\sv8.1\100210.M\HSL1002G.D  
 Date: 02-07-2010 18:00  
 Client ID: B270F.H  
 Sample Info: HSL\_160 ug/ml CS-711171114

Column phase:

Instrument: SV8.1  
 Operator: KT  
 Column diameter: 2.00

\\SAB\CV\chem\sv8.1\100210.M\HSL1002G.D



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11  
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	OCAL RRF50	MIN RRF %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.41047	1.41047	0.010	0.03876	50.00000 Averaged
8 Phenol-d5	1.77296	1.74907	1.74907	0.010	-1.34746	50.00000 Averaged
9 2-Chlorophenol-d4	1.55698	1.55303	1.55303	0.010	-0.25385	50.00000 Averaged
10 1,2-Dichlorobenzene-d4	0.98513	0.98502	0.98502	0.010	-0.01093	50.00000 Averaged
11 Nitrobenzene-d5	0.33879	0.32706	0.32706	0.010	-3.46219	50.00000 Averaged
12 2-Fluorobiphenyl	1.28852	1.25302	1.25302	0.010	-2.75502	50.00000 Averaged
13 2,4,6-Tribromophenol	0.17381	0.17822	0.17822	0.010	2.53174	50.00000 Averaged
14 Terphenyl-d14	0.78789	0.74054	0.74054	0.010	-6.00962	50.00000 Averaged
15 N-Nitrosodimethylamine	0.92154	0.91645	0.91645	0.010	-0.55265	50.00000 Averaged
16 Pyridine	1.54111	1.49084	1.49084	0.010	-3.26208	50.00000 Averaged
23 Aniline	2.25673	1.90520	1.90520	0.010	-15.57680	50.00000 Averaged
24 Phenol	2.03729	2.01343	2.01343	0.010	-1.17106	20.00000 Averaged
26 Bis(2-chloroethyl) ether	1.42859	1.41690	1.41690	0.010	-0.81844	50.00000 Averaged
27 2-Chlorophenol	1.56381	1.57626	1.57626	0.010	0.79611	50.00000 Averaged
28 1,3-Dichlorobenzene	1.70337	1.74104	1.74104	0.010	2.21094	50.00000 Averaged
29 1,4-Dichlorobenzene	1.78118	1.77637	1.77637	0.010	-0.26978	20.00000 Averaged
30 Benzyl Alcohol	1.05101	1.07153	1.07153	0.010	1.95228	50.00000 Averaged
31 1,2-Dichlorobenzene	1.63746	1.64144	1.64144	0.010	0.24267	50.00000 Averaged
32 2-Methylphenol	1.43012	1.41817	1.41817	0.010	-0.83592	50.00000 Averaged
33 2,2'-oxybis(1-Chloropropane	2.27265	2.14153	2.14153	0.010	-5.81096	50.00000 Averaged
34 4-Methylphenol	1.51904	1.42403	1.42403	0.010	-6.25452	50.00000 Averaged
36 Hexachloroethane	0.60636	0.62081	0.62081	0.010	2.38271	50.00000 Averaged
37 N-Nitrosodimethylamine	1.02180	0.99863	0.99863	0.050	-1.30217	50.00000 Averaged
42 Nitrobenzene	0.33116	0.32452	0.32452	0.010	-2.00546	50.00000 Averaged
44 Isophorone	0.63679	0.62370	0.62370	0.010	-2.05513	50.00000 Averaged
45 2-Nitrophenol	0.19648	0.20090	0.20090	0.010	2.25050	20.00000 Averaged
46 2,4-Dimethylphenol	0.34911	0.33078	0.33078	0.010	-5.25153	50.00000 Averaged
47 Bis(2-chloroethyl) methane	0.38908	0.37434	0.37434	0.010	-3.78942	50.00000 Averaged
49 2,4-Dichlorophenol	0.27010	0.26945	0.26945	0.010	-0.23923	20.00000 Averaged
50 Benzoic Acid	0.15324	0.20284	0.20284	0.010	4.96710	50.00000 Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.28203	0.28203	0.010	-3.56320	50.00000 Averaged
52 Naphthalene	1.10443	1.07116	1.07116	0.010	-3.01217	50.00000 Averaged
54 4-Chloroaniline	0.43288	0.40664	0.40664	0.010	-6.06033	50.00000 Averaged
57 Hexachlorobutadiene	0.14313	0.14742	0.14742	0.010	2.99976	20.00000 Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.29442	0.29442	0.010	-2.39317	20.00000 Averaged
63 2-Methylnaphthalene	0.69378	0.71003	0.71003	0.010	2.34296	50.00000 Averaged
66 Hexachlorocyclopentadiene	0.29846	0.32228	0.32228	0.050	7.98199	50.00000 Averaged
69 2,4,6-Trichlorophenol	0.31913	0.32462	0.32462	0.010	1.71977	20.00000 Averaged
70 2,4,5-Trichlorophenol	0.34380	0.34503	0.34503	0.010	0.35814	50.00000 Averaged
71 2-Chloronaphthalene	1.12571	1.09768	1.09768	0.010	-2.48953	50.00000 Averaged
73 2-Nitroaniline	0.34119	0.32550	0.32550	0.010	-4.59608	50.00000 Averaged
76 Dimethylphthalate	1.29606	1.28355	1.28355	0.010	-0.96554	50.00000 Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11  
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	REF / AMOUNT	RF50	CCAL	MIN	MAX	CURVE TYPE
			RRF50	RRF %D / %DRIFT	%D / %DRIFT	
77 Acenaphthylene	1.96037	1.90194	1.90194	0.010	-2.98044	Averaged
79 2,6-Dinitrotoluene	0.30197	0.30334	0.30334	0.010	0.45457	Averaged
80 3-Nitroaniline	0.37691	0.37836	0.37836	0.010	0.38563	Averaged
81 Acenaphthene	1.24787	1.19989	1.19989	0.010	-3.84461	Averaged
82 2,4-Dinitrophenol	50.00000	48.07731	0.16950	0.050	-3.84537	Quadratic
83 Dibenzofuran	1.65612	1.64309	1.64309	0.010	-0.78683	Averaged
84 4-Nitrophenol	0.15634	0.16205	0.16205	0.050	3.65012	Averaged
85 2,4-Dinitrotoluene	0.39533	0.40639	0.40639	0.010	2.53669	Averaged
91 Fluorene	1.37139	1.36209	1.36209	0.010	-0.67828	Averaged
92 Diethylphthalate	1.32699	1.28445	1.28445	0.010	-3.20581	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.56986	0.56986	0.010	-0.05862	Averaged
94 4-Nitroaniline	0.37351	0.40608	0.40608	0.010	8.68956	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	48.62001	0.13800	0.010	-2.75999	Linear
98 N-Nitrosodiphenylamine	0.60628	0.49066	0.49066	0.010	-19.03836	Averaged
100 Azobenzene	0.78650	0.77322	0.77322	0.010	-1.70096	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.19535	0.19535	0.010	0.04546	Averaged
108 Hexachlorobenzene	0.21807	0.22026	0.22026	0.010	1.00466	Averaged
110 Pentachlorophenol	50.00000	50.72441	0.13218	0.010	1.44881	Linear
114 Phenanthrene	1.26074	1.20864	1.20864	0.010	-4.13307	Averaged
115 Anthracene	1.25955	1.22825	1.22825	0.010	-2.48429	Averaged
118 Carbazole	1.15061	1.15083	1.15083	0.010	0.01942	Averaged
120 Di-n-Butylphthalate	1.38442	1.39149	1.39149	0.010	0.51078	Averaged
126 Fluoranthene	1.12969	1.19362	1.19302	0.010	5.60642	Averaged
127 Benimidazole	0.81067	0.30175	0.30175	0.010	-62.77740	Averaged
128 Pyrene	1.25025	1.13023	1.13023	0.010	-9.59978	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.26880	0.26880	0.010	-62.43954	Averaged
136 Butylbenzylphthalate	0.62663	0.58836	0.58836	0.010	-6.10747	Averaged
138 Benzo(a)Anthracene	1.06548	0.99285	0.99285	0.010	-6.81596	Averaged
139 Chrysene	1.08994	1.04703	1.04703	0.010	-3.93621	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.37691	0.37691	0.010	-6.21534	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316	0.80149	0.80149	0.010	-7.14468	Averaged
142 Di-n-octylphthalate	1.37975	1.27404	1.27404	0.010	-7.66156	Averaged
144 Benzo(b) Fluoranthene	0.90549	0.90498	0.90498	0.010	-0.05663	Averaged
145 Benzo(k) Fluoranthene	1.16236	1.22175	1.22175	0.010	5.10982	Averaged
147 Benzo(e) pyrene	0.94425	0.98421	0.98421	0.010	4.23177	Averaged
148 Benzo(a) pyrene	1.02655	0.95393	0.95393	0.010	-7.07365	Averaged
151 Indeno(1,2,3-cd) pyrene	0.83029	0.81846	0.81846	0.010	-1.42489	Averaged
152 Dibenzo(a,h)anthracene	0.92758	0.99090	0.99090	0.010	6.82730	Averaged
153 Benzo(g,h,i) perylene	1.00427	1.08674	1.08674	0.010	8.21177	Averaged
152 benzo b,k Fluoranthene Total	2.06785	2.12673	2.12673	0.010	2.84748	Averaged

SEE AT  
 SEE AT  
 10/3/10



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Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D  
 Lab Smp Id: HSL 050 ug/ml ICV Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 16:11  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 050 ug/ml ICV;2;;4;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0314;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270F.m  
 Meth Date : 03-Oct-2010 11:20 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 8 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-DXL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.954 (1.000)		98364	40.0000	
* 2 Naphthalene-d8	136	5.374	5.374 (1.000)		431655	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468 (1.000)		236662	40.0000	
* 4 Phenanthrene-d10	188	9.405	9.405 (1.000)		380734	40.0000	
* 5 Chrysene-d12	240	13.789	13.789 (1.000)		421719	40.0000	
* 6 Perylene-d12	264	16.173	16.173 (1.000)		419419	40.0000	
§ 7 2-Fluorophenol	112	2.732	2.732 (0.691)		173424	50.0000	50.02
§ 8 Phenol-d5	99	3.623	3.623 (0.924)		225057	50.0000	49.33
§ 9 2-Chlorophenol-d4	132	3.747	3.747 (0.948)		190953	50.0000	49.87
§ 10 1,2-Dichlorobenzene-d4	152	4.151	4.151 (1.050)		121113	50.0000	49.99
§ 11 Nitrobenzene-d5	82	4.576	4.576 (0.852)		176474	50.0000	48.27
§ 12 2-Fluorobiphenyl	172	6.680	6.680 (0.895)		370679	50.0000	48.62
§ 13 2,4,6-Tribromophenol	330	8.483	8.483 (1.136)		52721	50.0000	51.26
§ 14 Terphenyl-d14	244	12.017	12.017 (0.871)		390377	50.0000	47.00
15 N-Nitrosodimethylamine	74	1.706	1.706 (0.432)		112682	50.0000	48.72 (Q)
16 Pyridine	79	1.726	1.726 (0.437)		183306	50.0000	48.37
23 Aniline	93	3.654	3.654 (0.924)		234254	50.0000	42.21
24 Phenol	94	3.623	3.623 (0.916)		247561	50.0000	49.41 (Q)
26 Bis(2-chloroethyl) ether	93	3.716	3.716 (0.940)		174215	50.0000	49.59
27 2-Chlorophenol	128	3.768	3.768 (0.953)		193809	50.0000	50.40
28 1,3-Dichlorobenzene	146	3.913	3.913 (0.990)		214069	50.0000	51.10
29 1,4-Dichlorobenzene	146	3.975	3.975 (1.005)		218414	50.0000	49.86
30 Benzyl Alcohol	108	4.120	4.120 (1.042)		131750	50.0000	50.98
31 1,2-Dichlorobenzene	146	4.172	4.172 (1.055)		201823	50.0000	50.12
32 2-Methylphenol	108	4.255	4.255 (1.076)		174371	50.0000	49.58
33 2,2'-oxybis(1-Chloropropane)	45	4.296	4.296 (1.086)		263312	50.0000	47.09
34 4-Methylphenol	108	4.410	4.410 (1.115)		175892	50.0000	46.87
36 Hexachloroethane	117	4.504	4.504 (1.139)		76332	50.0000	51.19
37 N-Nitrosodipropylamine	70	4.442	4.442 (1.123)		122786	50.0000	49.35
42 Nitrobenzene	77	4.597	4.597 (0.855)		175102	50.0000	49.00
44 Isophorone	82	4.856	4.856 (0.904)		336530	50.0000	48.97
45 2-Nitrophenol	139	4.960	4.960 (0.923)		108399	50.0000	51.12
46 2,4-Dimethylphenol	107	5.012	5.012 (0.933)		178479	50.0000	47.37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	CON-COL ( NG)
47 Bis(2-chloroethoxy) methane	93	5.126	5.126	(0.954)	201962	50.0000	48.10
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	145389	50.0000	49.88
50 Benzoic Acid	122	5.115	5.115	(0.952)	109446	50.0000	52.48
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	152177	50.0000	48.22
52 Naphthalene	128	5.395	5.395	(1.004)	577964	50.0000	48.49
54 4-Chloroaniline	127	5.488	5.488	(1.021)	219411	50.0000	46.97
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	79543	50.0000	51.50
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	158858	50.0000	48.80
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	383110	50.0000	51.17
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	95339	50.0000	53.99
69 2,4,6-Trichlorophenol	196	6.587	6.587	(0.882)	96032	50.0000	50.86
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	102070	50.0000	50.18
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	324725	50.0000	48.76
73 2-Nitroaniline	65	6.949	6.949	(0.931)	96293	50.0000	47.70
76 Dimethylphthalate	163	7.229	7.229	(0.968)	379709	50.0000	49.52
77 Acenaphthylene	152	7.281	7.281	(0.975)	562646	50.0000	48.51
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	89736	50.0000	50.23
80 3-Nitroaniline	138	7.457	7.457	(0.999)	111929	50.0000	50.19
81 Acenaphthene	153	7.509	7.509	(1.006)	354961	50.0000	48.08
82 2,4-Dinitrophenol	184	7.582	7.582	(1.015)	50142	50.0000	48.08
83 Dibenzofuran	168	7.706	7.706	(1.032)	486071	50.0000	49.61
84 4-Nitrophenol	109	7.675	7.675	(1.028)	47938	50.0000	51.82 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	120220	50.0000	51.27
91 Fluorene	166	8.131	8.131	(1.089)	402944	50.0000	49.66
92 Diethylphthalate	149	8.100	8.100	(1.085)	379976	50.0000	48.40
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	168579	50.0000	49.97
94 4-Nitroaniline	138	8.214	8.214	(1.100)	120129	50.0000	54.34
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	65675	50.0000	48.62
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	273768	58.6000	47.44
100 Azobenzene	77	8.359	8.359	(0.889)	367990	50.0000	49.15
101 4-Bromophenyl-phenylether	248	8.804	8.804	(0.936)	92973	50.0000	50.02
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	104824	50.0000	50.50
110 Pentachlorophenol	266	9.240	9.240	(0.982)	62906	50.0000	50.72
114 Phenanthrene	178	9.437	9.437	(1.003)	575211	50.0000	47.93
115 Anthracene	178	9.509	9.509	(1.011)	584548	50.0000	48.76
118 Carbazole	167	9.768	9.768	(1.039)	547701	50.0000	50.01
120 Di-n-Butylphthalate	149	10.473	10.473	(1.113)	662234	50.0000	50.26
126 Fluoranthene	202	11.302	11.302	(1.202)	567781	50.0000	52.80
127 Benzidine	184	11.582	11.582	(0.840)	159069	50.0000	18.61
128 Pyrene	202	11.665	11.665	(0.846)	595801	50.0000	45.20
134 3,3'-dimethylbenzidine	212	12.677	12.877	(0.934)	141696	50.0000	18.78
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	310154	50.0000	46.95
138 Benzo(a)anthracene	228	13.758	13.758	(0.998)	523382	50.0000	46.59
139 Chrysene	228	13.830	13.830	(1.003)	551943	50.0000	48.03
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	198689	50.0000	46.89
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	422505	50.0000	45.43
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	671608	50.0000	46.17
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.963)	474456	50.0000	49.97 (Q)
145 Benzo(k)fluoranthene	252	15.623	15.623	(0.966)	640533	50.0000	52.55
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	515993	50.0000	52.12
148 Benzo(a)pyrene	252	16.079	16.079	(0.994)	500123	50.0000	46.46
151 Indeno(1,2,3-cd)pyrene	276	17.810	17.810	(1.101)	429096	50.0000	49.29
152 Dibenzo(a,h)anthracene	278	17.851	17.851	(1.104)	519505	50.0000	53.41
153 Benzo(g,h,i)perylene	276	18.235	18.235	(1.127)	569749	50.0000	54.10

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	KIP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				1114989	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002H.D  
 Lab Smp Id: HSL\_050 ug/ml ICV  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0314;0;8270F.M

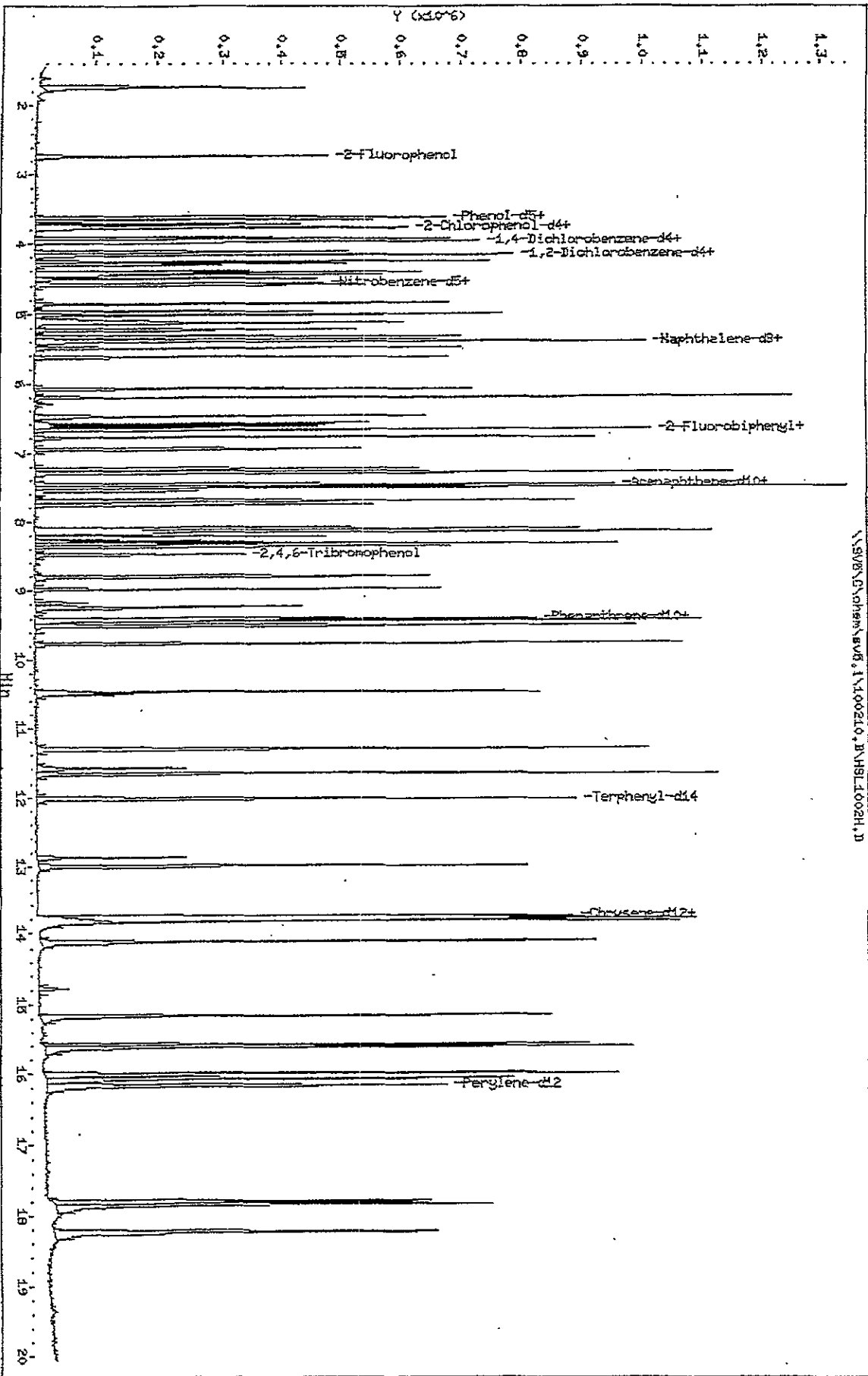
Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	98364	-19.78
2 Naphthalene-d8	530514	265257	1061028	431655	-18.63
3 Acenaphthene-d10	282538	141269	565076	236662	-16.24
4 Phenanthrene-d10	462722	231361	925444	380734	-17.72
5 Chrysene-d12	435850	217925	871700	421719	-3.24
6 Perylene-d12	422284	211142	844568	419419	-0.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.79	13.29	14.29	13.79	0.00
6 Perylene-d12	16.17	15.67	16.67	16.17	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\SVERC\chem\svb,1\1400210,1\NHSL1002H.D  
 Date: 02-OCT-2010 15:11  
 Client ID: 92705.H  
 Sample Info: NHSL\_080 ug/ml IDV211411114  
 Column Phase:

Instrument: svb,1  
 Operator: KT  
 Column Diameter: 2.00

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i      Injection Date: 02-OCT-2010 16:36  
Lab File ID: HSL1002H1.D      Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
Analysis Type:      Init. Cal. Times: 17:32      15:00  
Lab Sample ID: Benzidines ICV 50ug Quant Type: ISTD  
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	REF / AMOUNT	RFS0	CCAL	MLB	RRF	%D / %DRIFT	MAX	%D / %DRIFT	CURVE TYPE
127 Benzidine	0.81067	0.92336	0.92336	0.010	13.89989	50.00000	Averaged		
134 3,3'-dimethylbenzidine	0.71564	0.78974	0.78974	0.010	10.35398	50.00000	Averaged		
140 3,3'-Dichlorobenzidine	0.40189	0.42433	0.42433	0.010	5.58428	50.00000	Averaged		

LA  
10-3-10

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D  
 Lab Smp Id: Benzidines ICV 50ug Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 16:36  
 Operator : KT Inst ID: sv5.i  
 Smp Info : Benzidines ICV 50ug/mL;2;;4;;;4  
 Misc Info : 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:13 truongk Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 9 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: BenzICV.SUB  
 Target Version: 4.14  
 Processing Host: SACP3070M

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.954	(1.000)	115503	40.0000	
* 2 Naphthalene-d8	136	5.364	5.364	(1.000)	480485	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	254190	40.0000	
* 4 Phenanthrene-d10	188	9.405	9.405	(1.000)	405333	40.0000	
* 5 Chrysene-d12	240	13.779	13.779	(1.000)	378068	40.0000	
* 6 Perylene-d12	264	16.162	16.162	(1.000)	372382	40.0000	
127 Benzidine	184	11.571	11.571	(0.840)	436364	50.0000	56.95
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	373217	50.0000	55.18
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	200534	50.0000	52.79

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002H1.D  
 Lab Smp Id: Benzidines ICV 50ug  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	115503	-5.81
2 Naphthalene-d8	530514	265257	1061028	480485	-9.43
3 Acenaphthene-d10	282538	141269	565076	254190	-10.03
4 Phenanthrene-d10	462722	231361	925444	405333	-12.40
5 Chrysene-d12	435850	217925	871700	378068	-13.26
6 Perylene-d12	422284	211142	844568	372382	-11.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.36	4.86	5.86	5.36	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\svb\svb\chem\svb\_1\100210\_B\HSL1002H.D

Date: 02-OCT-2010 16:36

Client: IDI 8220F.H

Sample: Infot Benzidines ICV Eau/m/l 323443334

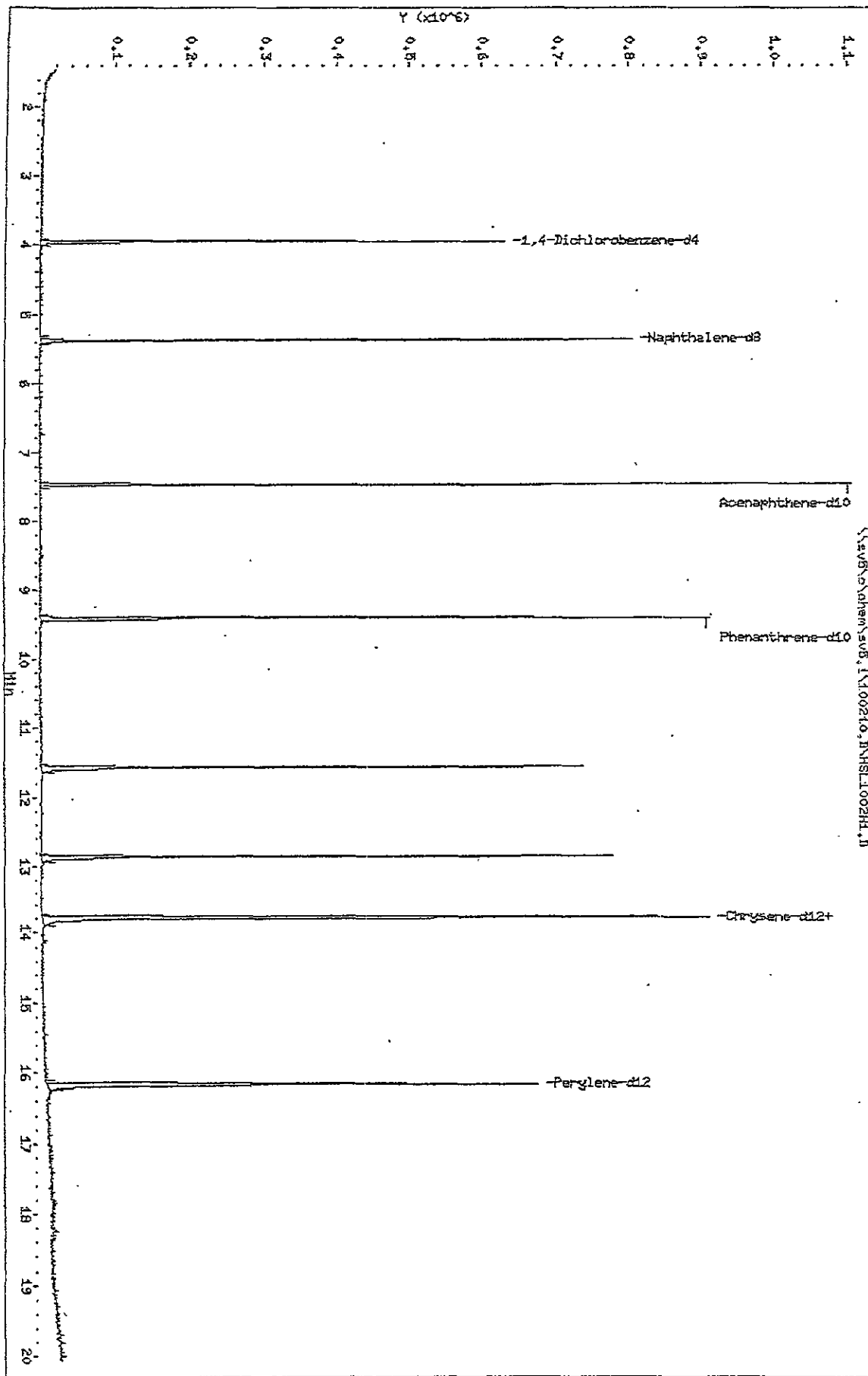
Column phase:

Instrument: svb.1

Operator: KT

Column diameter: 2.00

Page 3



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D  
 Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D  
 Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D  
 Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D  
 Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D  
 Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D  
 Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

*Handwritten:* 10/3/10

*Handwritten:* Original RRF

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RFP	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	150.000							
	Level 7							
15 N-Nitrosodimethylamine	0.92899 0.93833	0.88258	0.91048	0.91970	0.93146	0.93916	0.92154	2.162
16 Pyridine	1.67117 1.52623	1.37423	1.59449	1.56610	1.52299	1.53256	1.54111	5.856
23 Aniline	2.20796 2.33783	2.15935	2.19988	2.26058	2.29749	2.33400	2.25673	3.098
24 Phenol	2.04111 2.06740	1.96212	2.02834	2.03430	2.06683	2.06089	2.03729	1.802
26 Bis(2-chloroethyl) ether	1.47335 1.44264	1.38252	1.39491	1.43824	1.42549	1.44300	1.42859	2.170
27 2-Chlorophenol	1.52099 1.57039	1.55595	1.56903	1.58168	1.56789	1.58074	1.56381	1.328
28 1,3-Dichlorobenzene	1.68903 1.72457	1.68173	1.67754	1.73135	1.68641	1.72298	1.70237	1.294
29 1,4-Dichlorobenzene	1.77122 1.81444	1.79861	1.74013	1.76898	1.78200	1.79298	1.78118	1.352

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
30 Benzyl Alcohol	1.01643 1.09506	1.03654	0.99182	1.04980	1.07732	1.08952	1.05101	3.697
31 1,2-Dichlorobenzene	1.62008 1.64692	1.63185	1.60455	1.68061	1.63410	1.64415	1.63746	1.459
32 2-Methylphenol	1.40818 1.47889	1.38930	1.39110	1.42620	1.45565	1.46154	1.43012	2.506
33 2,2'-oxybis(1-Chloropropane)	2.29602 2.28770	2.22060	2.28329	2.27928	2.27018	2.27830	2.27365	1.085
34 4-Methylphenol	1.48606 1.58763	1.48913	1.46270	1.52239	1.52653	1.55886	1.51904	2.884
36 Hexachloroethane	0.60925 0.60919	0.60836	0.60573	0.61394	0.60427	0.59381	0.60636	1.043
37 N-Nitrosodipropylamine	0.94498 1.04757	0.97005	1.01302	1.02370	1.04700	1.03627	1.01180	3.926
42 Nitrobenzene	0.32855 0.33901	0.32602	0.32543	0.33083	0.33379	0.33450	0.33116	1.489
44 Isophorone	0.63431 0.65411	0.62291	0.61150	0.63344	0.63648	0.65468	0.63679	2.811
45 2-Nitrophenol	0.18608 0.20508	0.18833	0.18840	0.20021	0.20022	0.20702	0.19648	4.423
46 2,4-Dimethylphenol	0.34458 0.35785	0.34167	0.34307	0.34912	0.34788	0.35962	0.34911	2.028

## TestAmerica West Sacramento

## INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	R2F	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
47 Bis(2-chloroethoxy)methane	0.41146 0.38545	0.37494	0.38565	0.38249	0.38500	0.39859	0.38908	3.106
49 2,4-Dichlorophenol	0.25434 0.27809	0.26318	0.27019	0.27037	0.27274	0.28180	0.27010	3.393
50 Benzoic Acid	0.15747 0.22180	0.16256	0.17423	0.19257	0.21024	0.22272	0.19324	13.252
51 1,2,4-Trichlorobenzene	0.29430 0.29091	0.28827	0.28475	0.29747	0.29189	0.29959	0.29246	1.760
52 Naphthalene	1.09939 1.10247	1.12462	1.07435	1.09325	1.09870	1.13821	1.10443	1.900
54 4-Chloroaniline	0.40751 0.43867	0.42534	0.43264	0.43910	0.43781	0.44905	0.42288	3.068
57 Hexachlorobutadiene	0.14295 0.14473	0.13812	0.14428	0.14415	0.14385	0.14379	0.14313	1.589
60 4-Chloro-3-Methylphenol	0.29329 0.30839	0.28866	0.29079	0.30972	0.30295	0.31766	0.30166	3.644
63 2-Methylnaphthalene	0.68423 0.69217	0.68064	0.68080	0.70067	0.70560	0.71172	0.69378	1.797
66 Hexachlorocyclopentadiene	0.25878 0.33186	0.27757	0.28896	0.29704	0.30236	0.32262	0.29846	7.645
69 2,4,6-Trichlorophenol	0.31186 0.33638	0.29820	0.30223	0.31996	0.32305	0.34225	0.31913	5.157

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
70 2,4,5-Trichlorophenol	0.30823 0.36135	0.32892	0.33796	0.36298	0.35236	0.35480	0.34380	5.807
71 2-Chloronaphthalene	1.13629 1.15096	1.09411	1.10012	1.14181	1.11220	1.14447	1.12571	2.051
73 2-Nitroaniline	0.31576 0.36278	0.31759	0.33397	0.35205	0.34821	0.35794	0.34119	5.573
76 Dimethylphthalate	1.23388 1.30237	1.25151	1.29803	1.34568	1.31165	1.32891	1.29606	3.093
77 Acenaphthylene	1.86531 2.02568	1.91304	1.91816	2.01646	1.98204	1.99786	1.96037	3.150
79 2,6-Dinitrotoluene	0.28347 0.31106	0.27378	0.29890	0.31220	0.31294	0.32140	0.30197	5.786
80 3-Nitroaniline	0.35362 0.39503	0.34622	0.35978	0.40036	0.38674	0.39559	0.37691	5.069
81 Acenaphthene	1.25874 1.25463	1.22468	1.26733	1.27046	1.21141	1.24781	1.24787	1.768
82 2,4-Dinitrophenol	0.10149 0.20232	0.11058	0.14485	0.16667	0.18378	0.20563	0.15933	26.349
83 Dibenzofuran	1.57786 1.71077	1.62124	1.65200	1.69530	1.65117	1.68450	1.65612	2.779
84 4-Nitrophenol	0.12712 0.17404	0.14148	0.15316	0.16076	0.17130	0.16653	0.15634	10.909

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RFI	% RSD
	160.000 Level 7							
85 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42154	0.41035	0.42305	0.39633	8.616
91 Fluorene	1.34567 1.40640	1.33840	1.34292	1.39902	1.38899	1.37835	1.37139	2.086
92 Diethylphthalate	1.22240 1.38087	1.29889	1.31549	1.37912	1.31873	1.37345	1.32699	4.319
93 4-Chlorophenyl-phenylether	0.54964 0.57695	0.55917	0.56887	0.59265	0.56708	0.57695	0.57019	2.429
94 4-Nitroaniline	0.33345 0.40452	0.33747	0.37329	0.38337	0.39216	0.39102	0.37361	7.424
97 4,6-Dinitro-2-methylphenol	0.09316 0.15229	0.10533	0.12545	0.13163	0.14105	0.15288	0.12882	17.707
98 N-Nitrosodiphenylamine	0.57756 0.61968	0.59736	0.60533	0.60433	0.62172	0.61801	0.60628	2.577
100 Azobenzene	0.77527 0.77331	0.76965	0.77321	0.79522	0.80064	0.81892	0.78660	2.371
101 4-Bromophenyl-phenylether	0.18964 0.19815	0.18507	0.19261	0.19931	0.19607	0.20581	0.19527	3.488
108 Hexachlorobenzene	0.22958 0.21854	0.22054	0.20740	0.21605	0.21731	0.21704	0.21807	3.009
110 Pentachlorophenol	0.09427 0.13770	0.09851	0.11582	0.11736	0.13228	0.13922	0.11931	15.221

## TestAmerica West Sacramento

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 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
114 Phenanthrene	1.30347 1.26611	1.26007	1.25408	1.24163	1.24375	1.25610	1.26074	1.643
115 Anthracene	1.25034 1.26958	1.21759	1.24206	1.25982	1.27529	1.30214	1.25955	2.129
118 Carbazole	1.13211 1.16455	1.12547	1.13694	1.14260	1.17067	1.18192	1.15061	1.878
120 Di-n-Butylphthalate	1.28492 1.48636	1.32287	1.36193	1.38164	1.41474	1.43847	1.38442	4.973
126 Fluoranthene	1.03840 1.17440	1.07611	1.17216	1.10520	1.15861	1.18294	1.12969	5.018
127 Benzidine	0.78175 0.86381	0.76431	0.75250	0.82658	0.82201	0.86375	0.81067	5.606
128 Pyrene	1.25791 1.25794	1.23783	1.17078	1.28684	1.25586	1.28463	1.25025	3.122
134 3,3'-dimethylbenzidine	0.65472 0.79926	0.64388	0.67361	0.70756	0.73630	0.79414	0.71564	8.888
136 Butylbenzylphthalate	0.64984 0.64920	0.60187	0.59142	0.62586	0.61590	0.65233	0.62663	3.950
138 Benzo(a)Anthracene	1.18169 1.10920	0.95731	1.03245	1.04489	1.06449	1.10831	1.06548	4.058
139 Chrysene	1.05284 1.12246	1.10175	1.06320	1.09705	1.06985	1.12241	1.08994	2.594

## TestAmerica West Sacramento

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 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
140 3,3'-Dichlorobenzidine	0.39148 0.42415	0.37695	0.39090	0.39906	0.40353	0.42717	0.40189	4.539
141 bis(2-ethylhexyl) Phthalate	0.91826 0.88354	0.80897	0.84032	0.85193	0.84371	0.89539	0.86316	4.348
142 Di-n-octylphthalate	1.34538 1.50770	1.23185	1.35627	1.34433	1.39356	1.47616	1.37975	6.651
144 Benzo(b)fluoranthene	0.81012 1.02572	0.81077	0.82747	0.99930	0.95373	0.91132	0.90549	10.058
145 Benzo(k)fluoranthene	1.22939 1.10447	1.16528	1.20022	1.09895	1.14223	1.19597	1.16236	4.279
147 Benzo(e)pyrene	0.90394 0.97185	0.92734	0.90757	0.95977	0.95997	0.96929	0.94425	3.220
148 Benzo(a)pyrene	0.98300 1.06523	0.97686	0.99402	1.02789	1.07610	1.06275	1.02655	4.111
151 Indeno(1,2,3-cd)pyrene	0.73783 0.97995	0.73267	0.73671	0.84698	0.84057	0.93730	0.83029	12.151
152 Dibenzo(a,h)anthracene	0.88099 1.00392	0.84384	0.87255	0.92240	0.95990	1.00944	0.92758	7.071
153 Benzo(g,h,i)perylene	0.96025 1.04026	0.95457	0.97380	0.99974	1.01731	1.05397	1.00427	3.452
M 162 benzo b,k Fluoranthene Totals	2.03951 2.13019	1.97605	2.02770	2.09825	2.09596	2.10729	2.06785	2.649



TestAmerica West Sacramento

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 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	150.000							
	Level 7							
\$ 7 2-Fluorophenol	1.44503 1.43635	1.30436	1.38373	1.44170	1.43535	1.42292	1.40992	3.615
\$ 8 Phenol-d5	1.72227 1.83627	1.57335	1.74151	1.79006	1.80863	1.83864	1.77296	3.520
\$ 9 2-Chlorophenol-d4	1.47770 1.57804	1.55530	1.53916	1.59414	1.57486	1.57967	1.55698	2.524
\$ 10 1,2-Dichlorobenzene-d4	0.95776 0.98896	0.98111	0.99827	0.98914	0.99518	0.98547	0.98513	1.356
\$ 11 Nitrobenzene-d5	0.33028 0.33970	0.34256	0.33065	0.34105	0.33506	0.35127	0.33879	2.162
\$ 12 2-Fluorobiphenyl	1.28499 1.30010	1.26007	1.27668	1.34206	1.25854	1.29723	1.28852	2.226
\$ 13 2,4,6-Tribromophenol	0.15034 0.18390	0.16527	0.17466	0.17926	0.17825	0.18501	0.17381	7.052
\$ 14 Terphenyl-d14	0.78508 0.80107	0.78616	0.73917	0.80441	0.78047	0.81889	0.78789	3.214

**Sample Extraction/Preparation Log**  
**Copies and Checklists**

**TestAmerica West Sacramento  
Organic Prep Log  
8270 Air**

Box # Air Tox #290 <sup>EOA 12/1/10</sup>  
 Shared QC Batch: N/A <sup>291</sup>  
 Shares QC With: N/A

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Internal COC:</b>	
Delivered to Inst.:	<u>12/1/10</u>
Inst Receipt:	

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	<u>N/A</u>
DCM	Baker	<u>J27508</u>
Na2SO4	Baker	<u>3640-54B</u>

**Batch: 0333259**  
 MS Run #:  
 Prep Date: 11/29/2010  
 Method: JZ TO-13  
 Matrix: S AIR  
 Extraction: 11 SOXHLET (NONE, Na2SO4)  
 QC: 3W AMBIENT AIR TESTING  
 SAC: JZ - S - 11 - 3W

**\*RUSH\***

WS-OP-0006

Soxhlet time on: 13:00 <sub>(11/29/10)</sub>      Soxhlet time off: 9:50 <sub>(11/30/10)</sub>

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
GOK270427 - 1		MAK001AA	11/30/2010	1.0	✓		1/2/2011
GOK270427 - 2		MAK011AA	11/30/2010	1.0	✓		1/2/2011
GOK270427 - 3		MAK021AA	11/30/2010	1.0	✓		1/2/2011
GOK270427 - 4		MAK031AA	11/30/2010	1.0	✓		1/2/2011
GOK290000 - 259	B	MALNT1AA	11/30/2010	1.0	✓		1/2/2011
GOK290000 - 259	C	MALNT1AC	11/30/2010	1.0	✓		1/2/2011
GOK290000 - 259	L	MALNT1AD	11/30/2010	1.0	✓		1/2/2011

- XAD / PUF / PUF-XAD
- Filter
- Impinger

Comments/NCMs: QC Media: sup 2 sub 9056 / P101910 EOA 12/1/10

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500µL/10A1R0125/ABN SURT</u>	<u>4/4/11</u>	<u>EOA</u>	<u>[Signature]</u>	<u>11/29/10</u>
Spike Mix LCS/LCSDAMS/MS	<u>1.0ml/10A1R0126/8270 LCS mix 1</u>	<u>4/9/11</u>	<u>EOA</u>	<u>[Signature]</u>	<u>11/29/10</u>
Pre-Spike Standard All Samples	<u>250µL/10A1R0123/1,2-DCB-14</u>	<u>4/19/11</u>	<u>EOA</u>	<u>[Signature]</u>	<u>11/29/10</u>
Internal Standard All Samples	<u>20µL 10MSV0438</u>	<u>11-19-11</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>12/3/10</u>
Soxhlet Extraction Analyst/Date	<u>EOA 11/29/10</u>	Concentration Analyst/Date	<u>EOA 12/1/10</u>	KD Analyst/Date	<u>EOA 12/1/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>45°C</u>	Review Analyst/Date	

## Preparation Data Review Checklist

Prep Batch(es) 0333259

Test: T0-13

Prep Date: 11/29/10

Holding Times: 11/30/10 NCM: Y **N**

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	
5. Spiking volumes are correctly documented	✓	
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet		
<b>B. Weights and Volumes</b>		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
<b>C. Standards and Reagents</b>		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
<b>D. Documentation</b>		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: 

Date: 11/29/10

2<sup>nd</sup> Level Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

Comments:

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RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 12/01/10  
Time: 11:45:06

LEV	LEV	LEV	LEV
1	2	1	2
Y	Blank	Y	Weights/Volumes
Y	Check	Y	Spike & Surrogate Worksheet
-	MS/MSD	Y	Vial contains correct volume
-		Y	Labels, greenbars, worksheets
		-	Computer batch: correct & all match
		-	Anomalies to Extraction Method

\*\*\*\*\*  
 Expanded Deliverable  
 - COC Completed  
 - Bench Sheet Copied  
 - Package Submitted to AnalyticalGroup  
 - Bench Sheet Copied per COC

Extractionist: 403162 erica X. Larson

\*\*\*\*\*  
 \* QC BATCH: 0333259 \*  
 \* \*\*\*\*\*

PREP DATE: 11/29/10 12:00  
 COMP DATE: 12/01/10 15:00

Concentrationist: 403162 erica X. Larson

Reviewer/Date: LARSONE / 12/01/10

Semi-volatile Organics by GCMS in Air (70-13A)  
SOXHLET (NONE, N2S04)

EXTR	ANL	LOT#	MSR#	TEST	EXT	MTH	MATRIX	INIT	FIN	INIT	PH'S	ADJT	ADJ2	EXTRACTION	SOLVENTS	VOL	EXCHANGE	VOL	SPIKE	STANDARD
EXPR	DUE	WORK	ORDER	FIGS				WT/VOL		INIT	ADJT	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL		SURROGATE	ID	
11/30/10	12/06/10	GOK270427	-001		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		500UL	10AIR0125	ABN SURR
COMMENTS:																				

11/30/10	12/06/10	GOK270427	-002		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		500UL	10AIR0125	ABN SURR
COMMENTS:																				

11/30/10	12/06/10	GOK270427	-003		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		500UL	10AIR0125	ABN SURR
COMMENTS:																				

11/30/10	12/06/10	GOK270427	-004		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		500UL	10AIR0125	ABN SURR
COMMENTS:																				

11/30/10	0/00/00	GOK2900000	-259		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		250UL	10AIR0128	1,2-DCB
COMMENTS:																				

11/30/10	0/00/00	GOK2900000	-259		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		500UL	10AIR0125	ABN SURR
COMMENTS:																				

11/30/10	0/00/00	GOK2900000	-259		R	11	JZ	AIR	1.05sample	NA	NA	NA	DCM	700.0		.0		1.0ML	10AIR0126	9270 MIX
COMMENTS:																				

QC MEDIA: SUP2SV19056/P101910

R = RUSH                      C = CLP  
 E = EPA 600                  D = EXP. DEL)                  NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento  
GC/MS Data Review Checklist

Batch: 0333259

Method ID: Semivolatile Organics by GCMS in Air (TO-13A)

NCM: (Y) N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	/	/	
2. ICAL, CCV Criteria met.	/	/	
3. Peaks correctly ID'd by data system.	/	/	
4. Copy of logbook for ICAL included	/	/	
5. Tune criteria (including tailing factor and breakdown) met and copy included.	/	/	
6. Method Number is identified on data.	/	/	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	/	/	
2. LCS/LCSD and MB data is included.	/	/	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	/	/	
4. MS/MSD data complete.			/
5. Holding Times were met.	/	/	
6. All samples within tune time.	/	/	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	/	/	
2. Logbooks/prep sheets properly filled out.	/	/	
3. Manual Integrations reviewed and appropriate.	/	/	
4. All raw data for samples is included (applies to unused data as well)	/	/	
5. All analytes correctly reported.	/	/	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	/	/	
7. Spectra present for all positives.	/	/	
D. Documentation			
1. Are all nonconformances documented appropriately?	/	/	
2. Quantims entry correct, including dates and times.	/	/	
3. Appropriate footnotes used.	/	/	

Analyst: M. [Signature]

Date: 12/10/10 12/17/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 02/2/10

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

12/17/10  
[Signature]

# AIR, Metals by ICPMS (As and Mn)

# **Raw Data Package**



**ICPMS**

Instrument ID (Circle one): <b>M01</b> <b>M02</b>		Method 6020 SOP SAC-MT-0001		
File Number 10120362	Batch Numbers 033523, 033521, 033340, 0336282, 0336286, 0335233, 0327486	Date 12/3/10	Analyst Sabine Hoggrave	
Lot Numbers Gok192601, Gok340587, Gok230520, Gok2020440, Gok020440, Gok220523, BR 12/6/10 Gok270427, Gok270514		YES	NO	NA
1. Copy of analysis protocol used included?		X		
2. ICVs & CCVs within 10% of true value or recal and rerun?		X		
3. ICB & CCBs < reporting limit or recal and rerun?		X		
4. 10 samples or less analyzed between calibration checks?		X		
5. All parameters within linear range?		X		
6. LCS/LCSD within limits?		Y		
7. Prep blank value < reporting limit or all samples >20x blank?		X		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?		X		
9. Appropriate dilution factors applied to data?		X		
10. Matrix spike and spike dup within customer defined limits?		X		
11. Each batch checked for presence of internal standard in samples?		X		
12. Anomalies entered using Clouseau?				X

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REVIEWED BY: <b>MTA</b>	DATA ENTERED BY: <b>BEV</b>
DATE: <b>12/7/10</b>	DATE: <b>12/6/10</b>

# Dataset Report

Perkin Elmer M02

User Name: metal

Computer Name: SACP1223

Dataset File Path: E:\elandata\Dataset\101203b2\

Report Date/Time: Monday, December 06, 2010 09:25:24

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse 3X	15:18:42 Fri 03-Dec-10	Sample	
	Blank	15:23:15 Fri 03-Dec-10	Blank	
	Standard 1	15:27:43 Fri 03-Dec-10	Standard #1	
	ICV	15:31:55 Fri 03-Dec-10	Sample	
	ICB	15:36:13 Fri 03-Dec-10	Sample	
	LLSTD1	15:46:28 Fri 03-Dec-10	Sample	LLSTD1@10X → AL ↓
	LLSTD2	15:50:45 Fri 03-Dec-10	Sample	LLSTD2@5X
	ICSA	15:56:27 Fri 03-Dec-10	Sample	
	ICSAB	16:00:42 Fri 03-Dec-10	Sample	
	Rinse	16:08:39 Fri 03-Dec-10	Sample	
	CCV 1	16:16:38 Fri 03-Dec-10	Sample	
	CCB 1	16:20:56 Fri 03-Dec-10	Sample	
	CCV 2	16:25:14 Fri 03-Dec-10	Sample	
	CCB 2	16:29:31 Fri 03-Dec-10	Sample	
335253	MAPE7B	16:33:45 Fri 03-Dec-10	Sample	G0L010000-253 BLK
335251	MAPEVB	16:38:01 Fri 03-Dec-10	Sample	G0L010000-251 BLK
335251/53	MAPEVC	16:42:14 Fri 03-Dec-10	Sample	G0L010000-251 LCS
335253/51	MAPE7L	16:46:26 Fri 03-Dec-10	Sample	G0L010000-251 LCSD
335251	MAA80	16:50:37 Fri 03-Dec-10	Sample	G0K190601-3
335251	MAA80P5	16:54:48 Fri 03-Dec-10	Sample	G0K190601-3 5X
335251	MAA80Z	16:58:59 Fri 03-Dec-10	Sample	G0K190601-3 PS
335251	MAA81	17:03:10 Fri 03-Dec-10	Sample	G0K190601-4
335251	MAKDV	17:07:21 Fri 03-Dec-10	Sample	G0K240587-1
335251	MAKD2	17:11:33 Fri 03-Dec-10	Sample	G0K240587-2
	CCV 3	17:15:50 Fri 03-Dec-10	Sample	
	CCB 3	17:20:07 Fri 03-Dec-10	Sample	
	CCV 4	17:24:26 Fri 03-Dec-10	Sample	
	CCB 4	17:27:55 Fri 03-Dec-10	Sample	
	CCV 5	17:31:25 Fri 03-Dec-10	Sample	
	CCB 5	17:34:54 Fri 03-Dec-10	Sample	
333404	MAL4HB	17:38:21 Fri 03-Dec-10	Sample	G0K290000-404 BLK
333404	MAL4HC	17:41:46 Fri 03-Dec-10	Sample	G0K290000-404 LCS
<del>335253</del> 333404	<del>MAPE7L</del> MAL4HL	17:45:10 Fri 03-Dec-10	Sample	G0L010000-253 LCSD
333404	MAGQR	17:48:35 Fri 03-Dec-10	Sample	G0K230520-1
333404	MAGQRP5	17:51:58 Fri 03-Dec-10	Sample	G0K230520-1 5X
333404	MAGQRZ	17:55:23 Fri 03-Dec-10	Sample	G0K230520-1 PS
333404	MAGQW	17:58:47 Fri 03-Dec-10	Sample	G0K230520-2
	CCV 6	18:02:16 Fri 03-Dec-10	Sample	
	CCB 6	18:05:46 Fri 03-Dec-10	Sample	
333404	MAGQX	18:09:11 Fri 03-Dec-10	Sample	G0K230520-3
333404	MAGQ0	18:12:36 Fri 03-Dec-10	Sample	G0K230520-4
333404	MAGQ1	18:16:01 Fri 03-Dec-10	Sample	G0K230520-5
333404	MAGQ2	18:19:26 Fri 03-Dec-10	Sample	G0K230520-6
333404	MAGQ3	18:22:52 Fri 03-Dec-10	Sample	G0K230520-7
	CCV 7	18:26:22 Fri 03-Dec-10	Sample	
	CCB 7	18:29:51 Fri 03-Dec-10	Sample	
	CCV 8	18:33:21 Fri 03-Dec-10	Sample	
	CCB 8	18:36:51 Fri 03-Dec-10	Sample	
	ICSA	18:40:20 Fri 03-Dec-10	Sample	
	ICSAB	18:43:46 Fri 03-Dec-10	Sample	

Recall

AL ↓  
rerun AL

rerun AL

	CCV 9	18:50:54 Fri 03-Dec-10	Sample	
	CCB 9	18:54:24 Fri 03-Dec-10	Sample	
	CCV 10	18:57:53 Fri 03-Dec-10	Sample	
	CCB 10	19:01:27 Fri 03-Dec-10	Sample	
	CCV 11	19:05:01 Fri 03-Dec-10	Sample	
	CCB 11	19:08:35 Fri 03-Dec-10	Sample	
336282/86	MARDNB	19:12:05 Fri 03-Dec-10	Sample	GOL020000-282 BLK
336282/86	MARDNC	19:15:36 Fri 03-Dec-10	Sample	GOL020000-282 LCS
336286/82	MARD8L	19:19:04 Fri 03-Dec-10	Sample	GOL020000-286 LCSD
336282	MAQPV	19:22:32 Fri 03-Dec-10	Sample	GOL020440-1
336282	MAQPVP5	19:25:59 Fri 03-Dec-10	Sample	GOL020440-1 5X
336282	MAQPVX	19:29:26 Fri 03-Dec-10	Sample	GOL020440-1 DU
336282	MAQPVZ	19:32:54 Fri 03-Dec-10	Sample	GOL020440-1 PS
336282	MAQP0	19:36:22 Fri 03-Dec-10	Sample	GOL020440-2
336282	MAQP3	19:39:50 Fri 03-Dec-10	Sample	GOL020440-3
	CCV 12	19:43:23 Fri 03-Dec-10	Sample	
	CCB 12	19:46:56 Fri 03-Dec-10	Sample	
336282	MAQP4	19:50:25 Fri 03-Dec-10	Sample	GOL020440-4
336282	MAQP6	19:53:54 Fri 03-Dec-10	Sample	GOL020440-5
336282	MANX4	19:57:23 Fri 03-Dec-10	Sample	GOL010474-1
336282	MANX9	20:00:52 Fri 03-Dec-10	Sample	GOL010474-2
336282	MAN0F	20:04:21 Fri 03-Dec-10	Sample	GOL010474-3
336282	MAN0P	20:07:51 Fri 03-Dec-10	Sample	GOL010474-4
336282	MAN0Q	20:11:21 Fri 03-Dec-10	Sample	GOL010474-5
	CCV 13	20:14:57 Fri 03-Dec-10	Sample	
	CCB 13	20:18:33 Fri 03-Dec-10	Sample	
	CCV 14	20:22:09 Fri 03-Dec-10	Sample	
	CCB 14	20:25:27 Fri 03-Dec-10	Sample	
335253	MAFD3	20:28:39 Fri 03-Dec-10	Sample	G0K220523-1
335253	MAFD3P5	20:31:50 Fri 03-Dec-10	Sample	G0K220523-1 5X
335253	MAFD3Z	20:35:01 Fri 03-Dec-10	Sample	G0K220523-1 PS
335253	MAFD5	20:38:09 Fri 03-Dec-10	Sample	G0K220523-2
335253	MAFD6	20:41:18 Fri 03-Dec-10	Sample	G0K220523-3
335253	MAFD7	20:44:27 Fri 03-Dec-10	Sample	G0K220523-4
335253	MAFD8	20:47:37 Fri 03-Dec-10	Sample	G0K220523-5
	CCV 15	20:50:53 Fri 03-Dec-10	Sample	
	CCB 15	20:54:10 Fri 03-Dec-10	Sample	
	CCV 16	20:57:27 Fri 03-Dec-10	Sample	
	CCB 16	21:00:05 Fri 03-Dec-10	Sample	
	CCV 17	21:02:44 Fri 03-Dec-10	Sample	
	CCB 17	21:05:23 Fri 03-Dec-10	Sample	
336286	MAK04	21:07:56 Fri 03-Dec-10	Sample	G0K270427-5
336286	MAK04P5	21:10:28 Fri 03-Dec-10	Sample	G0K270427-5 5X
336286	MAK04Z	21:13:00 Fri 03-Dec-10	Sample	G0K270427-5 PS
336286	MAK07	21:15:32 Fri 03-Dec-10	Sample	G0K270427-6
336286	MAK08	21:18:05 Fri 03-Dec-10	Sample	G0K270427-7
336286	MAK09	21:20:38 Fri 03-Dec-10	Sample	G0K270427-8
	CCV 18	21:23:16 Fri 03-Dec-10	Sample	
	CCB 18	21:25:55 Fri 03-Dec-10	Sample	
	CCV 19	21:28:34 Fri 03-Dec-10	Sample	
	CCB 19	21:32:19 Fri 03-Dec-10	Sample	
	CCV 20	21:36:03 Fri 03-Dec-10	Sample	
	CCB 20	21:39:48 Fri 03-Dec-10	Sample	
327486	MAHGVB	21:43:27 Fri 03-Dec-10	Sample	G0K230000-486 BLK
327486	MAHGVC	21:47:06 Fri 03-Dec-10	Sample	G0K230000-486 LCS
327486	MAHGVL	21:50:43 Fri 03-Dec-10	Sample	G0K230000-486 LCSD
	CCV 21	21:54:27 Fri 03-Dec-10	Sample	
	CCB 21	21:58:12 Fri 03-Dec-10	Sample	
327486	L9612	22:01:51 Fri 03-Dec-10	Sample	G0K170514-1
327486	L9635	22:05:30 Fri 03-Dec-10	Sample	G0K170514-3

Recal <

serum for AS for batch  
0336286

serum AS.

Recal <

Recal <

> Li out.

Be } > 1/2 spike level

> Do not report

327486	L9636	22:09:09 Fri 03-Dec-10	Sample	GOK170514-4	} Do not report
327486	L9637	22:12:48 Fri 03-Dec-10	Sample	GOK170514-5	
327486	L9638	22:16:26 Fri 03-Dec-10	Sample	GOK170514-6	
327486	L9639	22:20:02 Fri 03-Dec-10	Sample	GOK170514-7	
	CCV 22	22:23:44 Fri 03-Dec-10	Sample		
	CCB 22	22:27:29 Fri 03-Dec-10	Sample		} Go Int Std < 20% R
	CCV 23	22:31:14 Fri 03-Dec-10	Sample		
	CCB 23	22:34:58 Fri 03-Dec-10	Sample		
327486	L9612	22:38:37 Fri 03-Dec-10	Sample	GOK170514-1	} report } set, serum dilution
327486	L9635	22:42:16 Fri 03-Dec-10	Sample	GOK170514-3	
327486	L9636	22:45:55 Fri 03-Dec-10	Sample	GOK170514-4	
327486	L9637	22:49:35 Fri 03-Dec-10	Sample	GOK170514-5	
327486	L9638	22:53:12 Fri 03-Dec-10	Sample	GOK170514-6	
327486	L9639	22:56:49 Fri 03-Dec-10	Sample	GOK170514-7	
	CCV 24	23:00:31 Fri 03-Dec-10	Sample		
	CCB 24	23:04:15 Fri 03-Dec-10	Sample		
	CCV 25	23:08:00 Fri 03-Dec-10	Sample		
	CCB 25	23:11:44 Fri 03-Dec-10	Sample		
327486	L9612	23:15:24 Fri 03-Dec-10	Sample	GOK170514-1	} Do not report
327486	L9635	23:19:02 Fri 03-Dec-10	Sample	GOK170514-3	
327486	L9636	23:22:41 Fri 03-Dec-10	Sample	GOK170514-4	
327486	L9637	23:26:21 Fri 03-Dec-10	Sample	GOK170514-5	
327486	L9638	23:29:58 Fri 03-Dec-10	Sample	GOK170514-6	
327486	L9639	23:33:35 Fri 03-Dec-10	Sample	GOK170514-7	
	CCV 26	23:37:17 Fri 03-Dec-10	Sample		
	CCB 26	23:41:01 Fri 03-Dec-10	Sample		
	CCV 27	23:44:46 Fri 03-Dec-10	Sample		
	CCB 27	23:48:30 Fri 03-Dec-10	Sample		
327486	L9634	23:52:09 Fri 03-Dec-10	Sample	GOK170514-2	
327486	L9634	23:55:45 Fri 03-Dec-10	Sample	GOK170514-2 5X	
327486	L9634	23:59:21 Fri 03-Dec-10	Sample	GOK170514-2 DU	
327486	L9634	00:02:57 Sat 04-Dec-10	Sample	GOK170514-2 PS	
	CCV 28	00:06:40 Sat 04-Dec-10	Sample		
	CCB 28	00:10:24 Sat 04-Dec-10	Sample		

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Blank				1.0 12/03/10 15:23		<input type="checkbox"/>
2	Standard1				1.0 12/03/10 15:27		<input type="checkbox"/>
3	ICV				1.0 12/03/10 15:31		<input type="checkbox"/>
4	ICB				1.0 12/03/10 15:36		<input type="checkbox"/>
5	LLSTD1				1.0 12/03/10 15:46		<input type="checkbox"/>
6	LLSTD2				1.0 12/03/10 15:50		<input type="checkbox"/>
7	ICSA				1.0 12/03/10 15:56		<input type="checkbox"/>
8	ICSAB				1.0 12/03/10 16:00		<input type="checkbox"/>
9	Rinse				1.0 12/03/10 16:08		<input type="checkbox"/>
10	CCV 1				1.0 12/03/10 16:16		<input type="checkbox"/>
11	CCB 1				1.0 12/03/10 16:20		<input type="checkbox"/>
14	CCV 2				1.0 12/03/10 16:25		<input type="checkbox"/>
15	CCB 2				1.0 12/03/10 16:29		<input type="checkbox"/>
16	MAPE7B	G0L010000	0335253	2A	1.0 12/03/10 16:33		<input type="checkbox"/>
17	MAPEVB	G0L010000	0335251	2A	1.0 12/03/10 16:38		<input type="checkbox"/>
18	MAPEVC	G0L010000	0335251	2A	1.0 12/03/10 16:42		<input type="checkbox"/>
19	MAPE7L	G0L010000	0335253	2A	1.0 12/03/10 16:46		<input type="checkbox"/>
20	MAA80	G0K190601-3	0335251	2A	1.0 12/03/10 16:50		<input type="checkbox"/>
21	MAA80P5	G0K190601	0335251		5.0 12/03/10 16:54		<input type="checkbox"/>
22	MAA80Z	G0K190601-3	0335251		1.0 12/03/10 16:58		<input type="checkbox"/>
23	MAA81	G0K190601-4	0335251	2A	1.0 12/03/10 17:03		<input type="checkbox"/>
24	MAKDV	G0K240587-1	0335251	2A	1.0 12/03/10 17:07		<input type="checkbox"/>
25	MAKD2	G0K240587-2	0335251	2A	1.0 12/03/10 17:11		<input type="checkbox"/>
26	CCV 3				1.0 12/03/10 17:15		<input type="checkbox"/>
27	CCB 3				1.0 12/03/10 17:20		<input type="checkbox"/>
28	CCV 4				1.0 12/03/10 17:24		<input type="checkbox"/>
29	CCB 4				1.0 12/03/10 17:27		<input type="checkbox"/>
30	CCV 5				1.0 12/03/10 17:31		<input type="checkbox"/>
31	CCB 5				1.0 12/03/10 17:34		<input type="checkbox"/>
32	MAL4HB	G0K290000	0333404	2A	1.0 12/03/10 17:38		<input type="checkbox"/>
33	MAL4HC	G0K290000	0333404	2A	1.0 12/03/10 17:41		<input type="checkbox"/>
34	MAPE7L	G0L010000	0335253	2A	1.0 12/03/10 17:45		<input type="checkbox"/>
35	MAGQR	G0K230520-1	0333404	2A	1.0 12/03/10 17:48		<input type="checkbox"/>
36	MAGQRP5	G0K230520	0333404		5.0 12/03/10 17:51		<input type="checkbox"/>
37	MAGQRZ	G0K230520-1	0333404		1.0 12/03/10 17:55		<input type="checkbox"/>
38	MAGQW	G0K230520-2	0333404	2A	1.0 12/03/10 17:58		<input type="checkbox"/>
39	CCV 6				1.0 12/03/10 18:02		<input type="checkbox"/>
40	CCB 6				1.0 12/03/10 18:05		<input type="checkbox"/>
41	MAGQX	G0K230520-3	0333404	2A	1.0 12/03/10 18:09		<input type="checkbox"/>
42	MAGQ0	G0K230520-4	0333404	2A	1.0 12/03/10 18:12		<input type="checkbox"/>
43	MAGQ1	G0K230520-5	0333404	2A	1.0 12/03/10 18:16		<input type="checkbox"/>
44	MAGQ2	G0K230520-6	0333404	2A	1.0 12/03/10 18:19		<input type="checkbox"/>
45	MAGQ3	G0K230520-7	0333404	2A	1.0 12/03/10 18:22		<input type="checkbox"/>
46	CCV 7				1.0 12/03/10 18:26		<input type="checkbox"/>
47	CCB 7				1.0 12/03/10 18:29		<input type="checkbox"/>
48	CCV 8				1.0 12/03/10 18:33		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	CCB 8			1.0	12/03/10 18:36		<input type="checkbox"/>
50	ICSA			1.0	12/03/10 18:40		<input type="checkbox"/>
51	ICSAB			1.0	12/03/10 18:43		<input type="checkbox"/>
52	CCV 9			1.0	12/03/10 18:50		<input type="checkbox"/>
53	CCB 9			1.0	12/03/10 18:54		<input type="checkbox"/>
54	CCV 10			1.0	12/03/10 18:57		<input type="checkbox"/>
55	CCB 10			1.0	12/03/10 19:01		<input type="checkbox"/>
58	CCV 11			1.0	12/03/10 19:05		<input type="checkbox"/>
59	CCB 11			1.0	12/03/10 19:08		<input type="checkbox"/>
60	MARDNB	G0L020000	0336282	1.0	12/03/10 19:12		<input type="checkbox"/>
61	MARDNC	G0L020000	0336282	1.0	12/03/10 19:15		<input type="checkbox"/>
62	MARD8L	G0L020000	0336286	2A	1.0	12/03/10 19:19	<input type="checkbox"/>
63	MAQPV	G0L020440-1	0336282	2A	1.0	12/03/10 19:22	<input type="checkbox"/>
64	MAQPVP5	G0L020440	0336282	5.0	12/03/10 19:25		<input type="checkbox"/>
65	MAQPVX	G0L020440-1	0336282	2A	1.0	12/03/10 19:29	<input type="checkbox"/>
66	MAQPVZ	G0L020440-1	0336282	1.0	12/03/10 19:32		<input type="checkbox"/>
67	MAQP0	G0L020440-2	0336282	2A	1.0	12/03/10 19:36	<input type="checkbox"/>
68	MAQP3	G0L020440-3	0336282	2A	1.0	12/03/10 19:39	<input type="checkbox"/>
69	CCV 12			1.0	12/03/10 19:43		<input type="checkbox"/>
70	CCB 12			1.0	12/03/10 19:46		<input type="checkbox"/>
71	MAQP4	G0L020440-4	0336282	2A	1.0	12/03/10 19:50	<input type="checkbox"/>
72	MAQP6	G0L020440-5	0336282	2A	1.0	12/03/10 19:53	<input type="checkbox"/>
73	MANX4	G0L010474-1	0336282	1.0	12/03/10 19:57		<input type="checkbox"/>
74	MANX9	G0L010474-2	0336282	1.0	12/03/10 20:00		<input type="checkbox"/>
75	MAN0F	G0L010474-3	0336282	1.0	12/03/10 20:04		<input type="checkbox"/>
76	MAN0P	G0L010474-4	0336282	1.0	12/03/10 20:07		<input type="checkbox"/>
77	MAN0Q	G0L010474-5	0336282	1.0	12/03/10 20:11		<input type="checkbox"/>
78	CCV 13			1.0	12/03/10 20:14		<input type="checkbox"/>
79	CCB 13			1.0	12/03/10 20:18		<input type="checkbox"/>
80	CCV 14			1.0	12/03/10 20:22		<input type="checkbox"/>
81	CCB 14			1.0	12/03/10 20:25		<input type="checkbox"/>
82	MAFD3	G0K220523-1	0335253	2A	1.0	12/03/10 20:28	<input type="checkbox"/>
83	MAFD3P5	G0K220523	0335253	5.0	12/03/10 20:31		<input type="checkbox"/>
84	MAFD3Z	G0K220523-1	0335253	1.0	12/03/10 20:35		<input type="checkbox"/>
85	MAFD5	G0K220523-2	0335253	2A	1.0	12/03/10 20:38	<input type="checkbox"/>
86	MAFD6	G0K220523-3	0335253	2A	1.0	12/03/10 20:41	<input type="checkbox"/>
87	MAFD7	G0K220523-4	0335253	2A	1.0	12/03/10 20:44	<input type="checkbox"/>
88	MAFD8	G0K220523-5	0335253	2A	1.0	12/03/10 20:47	<input type="checkbox"/>
89	CCV 15			1.0	12/03/10 20:50		<input type="checkbox"/>
90	CCB 15			1.0	12/03/10 20:54		<input type="checkbox"/>
91	CCV 16			1.0	12/03/10 20:57		<input type="checkbox"/>
92	CCB 16			1.0	12/03/10 21:00		<input type="checkbox"/>
95	CCV 17			1.0	12/03/10 21:02		<input type="checkbox"/>
96	CCB 17			1.0	12/03/10 21:05		<input type="checkbox"/>
97	MAK04	G0K270427-5	0336286	2A	1.0	12/03/10 21:07	<input type="checkbox"/>
98	MAK04P5	G0K270427	0336286	5.0	12/03/10 21:10		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
99	MAK04Z	G0K270427-5	0336286		1.0	12/03/10 21:13	<input type="checkbox"/>
100	MAK07	G0K270427-6	0336286	2A	1.0	12/03/10 21:15	<input type="checkbox"/>
101	MAK08	G0K270427-7	0336286	2A	1.0	12/03/10 21:18	<input type="checkbox"/>
102	MAK09	G0K270427-8	0336286	2A	1.0	12/03/10 21:20	<input type="checkbox"/>
103	CCV 18				1.0	12/03/10 21:23	<input type="checkbox"/>
104	CCB 18				1.0	12/03/10 21:25	<input type="checkbox"/>
105	CCV 19				1.0	12/03/10 21:28	<input type="checkbox"/>
106	CCB 19				1.0	12/03/10 21:32	<input type="checkbox"/>
109	CCV 20				1.0	12/03/10 21:36	<input type="checkbox"/>
110	CCB 20				1.0	12/03/10 21:39	<input type="checkbox"/>
111	MAHGVB	G0K230000	0327486	EC	1.0	12/03/10 21:43	<input type="checkbox"/>
112	MAHGVC	G0K230000	0327486	EC	1.0	12/03/10 21:47	<input type="checkbox"/>
113	MAHGVL	G0K230000	0327486	EC	1.0	12/03/10 21:50	<input type="checkbox"/>
114	CCV 21				1.0	12/03/10 21:54	<input type="checkbox"/>
115	CCB 21				1.0	12/03/10 21:58	<input type="checkbox"/>
116	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 22:01	<input type="checkbox"/>
117	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 22:05	<input type="checkbox"/>
118	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 22:09	<input type="checkbox"/>
119	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 22:12	<input type="checkbox"/>
120	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 22:16	<input type="checkbox"/>
121	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 22:20	<input type="checkbox"/>
122	CCV 22				1.0	12/03/10 22:23	<input type="checkbox"/>
123	CCB 22				1.0	12/03/10 22:27	<input type="checkbox"/>
126	CCV 23				1.0	12/03/10 22:31	<input type="checkbox"/>
127	CCB 23				1.0	12/03/10 22:34	<input type="checkbox"/>
128	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 22:38	<input type="checkbox"/>
129	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 22:42	<input type="checkbox"/>
130	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 22:45	<input type="checkbox"/>
131	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 22:49	<input type="checkbox"/>
132	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 22:53	<input type="checkbox"/>
133	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 22:56	<input type="checkbox"/>
134	CCV 24				1.0	12/03/10 23:00	<input type="checkbox"/>
135	CCB 24				1.0	12/03/10 23:04	<input type="checkbox"/>
136	CCV 25				1.0	12/03/10 23:08	<input type="checkbox"/>
137	CCB 25				1.0	12/03/10 23:11	<input type="checkbox"/>
138	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 23:15	<input type="checkbox"/>
139	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 23:19	<input type="checkbox"/>
140	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 23:22	<input type="checkbox"/>
141	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 23:26	<input type="checkbox"/>
142	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 23:29	<input type="checkbox"/>
143	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 23:33	<input type="checkbox"/>
144	CCV 26				1.0	12/03/10 23:37	<input type="checkbox"/>
145	CCB 26				1.0	12/03/10 23:41	<input type="checkbox"/>
146	CCV 27				1.0	12/03/10 23:44	<input type="checkbox"/>
147	CCB 27				1.0	12/03/10 23:48	<input type="checkbox"/>
148	L9634	G0K170514-2	0327486	EC	1.0	12/03/10 23:52	<input type="checkbox"/>



Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
149	L9634P5	G0K170514	0327486		5.0	12/03/10 23:55	<input type="checkbox"/>
150	L9634X	G0K170514-2	0327486	EC	1.0	12/03/10 23:59	<input type="checkbox"/>
151	L9634Z	G0K170514-2	0327486		1.0	12/04/10 00:02	<input type="checkbox"/>
152	CCV 28				1.0	12/04/10 00:06	<input type="checkbox"/>
153	CCB 28				1.0	12/04/10 00:10	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Blank	12/03/10 15:23	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
2	Standard1	12/03/10 15:27	99.4	97.7	111.5	97.6	<input checked="" type="checkbox"/>
3	ICV	12/03/10 15:31	96.6	96.4	100.3	95.6	<input checked="" type="checkbox"/>
4	ICB	12/03/10 15:36	95.1	96.4	98.5	95.0	<input checked="" type="checkbox"/>
5	LLSTD1	12/03/10 15:46	95.3	96.2	101.0	94.8	<input checked="" type="checkbox"/>
6	LLSTD2	12/03/10 15:50	95.2	95.7	102.6	94.8	<input checked="" type="checkbox"/>
7	ICSA	12/03/10 15:56	73.8	71.6	84.1	71.7	<input checked="" type="checkbox"/>
8	ICSAB	12/03/10 16:00	71.3	69.3	84.4	69.0	<input checked="" type="checkbox"/>
9	Rinse	12/03/10 16:08	89.1	88.8	114.8	86.0	<input checked="" type="checkbox"/>
10	CCV 1	12/03/10 16:16	87.3	86.5	108.0	85.9	<input checked="" type="checkbox"/>
11	CCB 1	12/03/10 16:20	88.3	88.5	110.7	87.2	<input checked="" type="checkbox"/>
14	CCV 2	12/03/10 16:25	98.4	97.2	98.1	98.4	<input checked="" type="checkbox"/>
15	CCB 2	12/03/10 16:29	99.7	100.0	101.9	100.9	<input checked="" type="checkbox"/>
16	MAPE7B	12/03/10 16:33	97.6	100.4	79.0	102.6	<input checked="" type="checkbox"/>
17	MAPEVB	12/03/10 16:38	97.4	99.8	80.0	101.7	<input checked="" type="checkbox"/>
18	MAPEVC	12/03/10 16:42	93.0	97.8	77.0	98.8	<input checked="" type="checkbox"/>
19	MAPE7L	12/03/10 16:46	90.1	96.6	76.5	97.3	<input checked="" type="checkbox"/>
20	MAA80	12/03/10 16:50	92.2	97.6	76.4	98.6	<input checked="" type="checkbox"/>
21	MAA80P5	12/03/10 16:54	98.6	101.3	104.6	100.8	<input type="checkbox"/>
22	MAA80Z	12/03/10 16:58	89.0	94.1	76.5	95.3	<input checked="" type="checkbox"/>
23	MAA81	12/03/10 17:03	90.5	96.8	76.7	97.8	<input checked="" type="checkbox"/>
24	MAKDV	12/03/10 17:07	93.3	98.6	81.5	99.6	<input checked="" type="checkbox"/>
25	MAKD2	12/03/10 17:11	94.3	99.2	83.5	100.9	<input checked="" type="checkbox"/>
26	CCV 3	12/03/10 17:15	96.3	97.6	105.0	99.3	<input checked="" type="checkbox"/>
27	CCB 3	12/03/10 17:20	98.8	100.5	104.0	102.2	<input checked="" type="checkbox"/>
28	CCV 4	12/03/10 17:24	96.1	97.6	0.0	100.1	<input checked="" type="checkbox"/>
29	CCB 4	12/03/10 17:27	98.5	101.5	0.0	104.4	<input checked="" type="checkbox"/>
30	CCV 5	12/03/10 17:31	97.0	98.4	0.0	101.4	<input checked="" type="checkbox"/>
31	CCB 5	12/03/10 17:34	98.2	101.0	0.0	102.9	<input checked="" type="checkbox"/>
32	MAL4HB	12/03/10 17:38	97.0	102.5	0.0	106.0	<input checked="" type="checkbox"/>
33	MAL4HC	12/03/10 17:41	91.5	98.3	0.0	100.3	<input checked="" type="checkbox"/>
34	MAPE7L	12/03/10 17:45	90.1	98.2	0.0	100.0	<input checked="" type="checkbox"/>
35	MAGQR	12/03/10 17:48	92.7	98.5	0.0	101.1	<input checked="" type="checkbox"/>
36	MAGQRP5	12/03/10 17:51	96.0	101.2	0.0	101.7	<input type="checkbox"/>
37	MAGQRZ	12/03/10 17:55	90.5	96.9	0.0	98.8	<input checked="" type="checkbox"/>
38	MAGQW	12/03/10 17:58	91.8	98.0	0.0	99.9	<input checked="" type="checkbox"/>
39	CCV 6	12/03/10 18:02	97.1	99.1	0.0	100.5	<input checked="" type="checkbox"/>
40	CCB 6	12/03/10 18:05	97.9	100.4	0.0	102.2	<input checked="" type="checkbox"/>
41	MAGQX	12/03/10 18:09	95.7	101.1	0.0	103.8	<input checked="" type="checkbox"/>
42	MAGQ0	12/03/10 18:12	96.4	101.0	0.0	103.3	<input checked="" type="checkbox"/>
43	MAGQ1	12/03/10 18:16	98.0	102.2	0.0	104.8	<input checked="" type="checkbox"/>
44	MAGQ2	12/03/10 18:19	99.3	103.0	0.0	105.5	<input checked="" type="checkbox"/>
45	MAGQ3	12/03/10 18:22	100.9	104.5	0.0	108.3	<input checked="" type="checkbox"/>
46	CCV 7	12/03/10 18:26	100.4	99.8	0.0	102.6	<input checked="" type="checkbox"/>
47	CCB 7	12/03/10 18:29	101.6	103.1	0.0	105.5	<input checked="" type="checkbox"/>
48	CCV 8	12/03/10 18:33	100.4	100.6	0.0	103.2	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	M02 (M02)	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	CCB 8	12/03/10 18:36	101.4	103.0	0.0	105.7	<input checked="" type="checkbox"/>
50	ICSA	12/03/10 18:40	79.7	78.6	0.0	83.4	<input checked="" type="checkbox"/>
51	ICSAB	12/03/10 18:43	78.4	77.6	0.0	81.7	<input checked="" type="checkbox"/>
52	CCV 9	12/03/10 18:50	96.7	97.3	0.0	97.8	<input checked="" type="checkbox"/>
53	CCB 9	12/03/10 18:54	98.5	99.6	0.0	101.0	<input checked="" type="checkbox"/>
54	CCV 10	12/03/10 18:57	97.1	97.8	103.9	101.1	<input checked="" type="checkbox"/>
55	CCB 10	12/03/10 19:01	99.6	100.8	106.3	103.8	<input checked="" type="checkbox"/>
58	CCV 11	12/03/10 19:05	97.1	96.4	98.1	97.9	<input checked="" type="checkbox"/>
59	CCB 11	12/03/10 19:08	100.1	100.6	100.4	100.4	<input checked="" type="checkbox"/>
60	MARDNB	12/03/10 19:12	99.0	101.5	82.6	102.8	<input checked="" type="checkbox"/>
61	MARDNC	12/03/10 19:15	94.6	99.0	81.9	99.4	<input checked="" type="checkbox"/>
62	MARD8L	12/03/10 19:19	92.4	97.2	81.8	97.5	<input checked="" type="checkbox"/>
63	MAQPV	12/03/10 19:22	93.3	97.5	81.2	97.0	<input checked="" type="checkbox"/>
64	MAQVP5	12/03/10 19:25	97.4	99.2	102.6	98.2	<input type="checkbox"/>
65	MAQPVX	12/03/10 19:29	96.1	98.3	81.6	98.5	<input checked="" type="checkbox"/>
66	MAQPVZ	12/03/10 19:32	93.0	96.2	81.0	96.7	<input checked="" type="checkbox"/>
67	MAQP0	12/03/10 19:36	93.4	96.2	80.7	96.7	<input checked="" type="checkbox"/>
68	MAQP3	12/03/10 19:39	94.2	96.7	82.2	96.9	<input checked="" type="checkbox"/>
69	CCV 12	12/03/10 19:43	96.5	97.4	100.5	97.2	<input checked="" type="checkbox"/>
70	CCB 12	12/03/10 19:46	99.3	101.0	103.2	100.3	<input checked="" type="checkbox"/>
71	MAQP4	12/03/10 19:50	96.0	98.8	80.6	99.5	<input checked="" type="checkbox"/>
72	MAQP6	12/03/10 19:53	99.6	103.0	86.2	103.2	<input checked="" type="checkbox"/>
73	MANX4	12/03/10 19:57	96.8	99.5	81.9	99.4	<input checked="" type="checkbox"/>
74	MANX9	12/03/10 20:00	93.7	95.9	77.5	96.7	<input checked="" type="checkbox"/>
75	MAN0F	12/03/10 20:04	93.6	97.4	76.1	96.6	<input checked="" type="checkbox"/>
76	MAN0P	12/03/10 20:07	92.7	95.9	75.9	95.9	<input checked="" type="checkbox"/>
77	MAN0Q	12/03/10 20:11	98.2	101.7	80.9	101.5	<input checked="" type="checkbox"/>
78	CCV 13	12/03/10 20:14	97.5	97.5	95.6	98.2	<input checked="" type="checkbox"/>
79	CCB 13	12/03/10 20:18	101.2	103.6	101.9	102.1	<input checked="" type="checkbox"/>
80	CCV 14	12/03/10 20:22	96.0	99.1	0.0	100.4	<input checked="" type="checkbox"/>
81	CCB 14	12/03/10 20:25	99.1	101.6	0.0	101.7	<input checked="" type="checkbox"/>
82	MAFD3	12/03/10 20:28	97.2	102.0	0.0	102.9	<input checked="" type="checkbox"/>
83	MAFD3P5	12/03/10 20:31	100.7	103.9	0.0	104.0	<input type="checkbox"/>
84	MAFD3Z	12/03/10 20:35	93.9	99.7	0.0	99.9	<input checked="" type="checkbox"/>
85	MAFD5	12/03/10 20:38	95.7	100.9	0.0	101.2	<input checked="" type="checkbox"/>
86	MAFD6	12/03/10 20:41	97.5	102.5	0.0	102.8	<input checked="" type="checkbox"/>
87	MAFD7	12/03/10 20:44	98.5	102.1	0.0	103.6	<input checked="" type="checkbox"/>
88	MAFD8	12/03/10 20:47	97.6	101.2	0.0	102.3	<input checked="" type="checkbox"/>
89	CCV 15	12/03/10 20:50	98.9	100.9	0.0	101.7	<input checked="" type="checkbox"/>
90	CCB 15	12/03/10 20:54	100.5	103.0	0.0	102.6	<input checked="" type="checkbox"/>
91	CCV 16	12/03/10 20:57	103.7	0.0	0.0	0.0	<input checked="" type="checkbox"/>
92	CCB 16	12/03/10 21:00	104.0	0.0	0.0	0.0	<input checked="" type="checkbox"/>
95	CCV 17	12/03/10 21:02	100.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
96	CCB 17	12/03/10 21:05	102.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
97	MAK04	12/03/10 21:07	100.0	0.0	0.0	0.0	<input checked="" type="checkbox"/>
98	MAK04P5	12/03/10 21:10	103.9	0.0	0.0	0.0	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
99	MAK04Z	12/03/10 21:13	96.6	0.0	0.0	0.0	<input checked="" type="checkbox"/>
100	MAK07	12/03/10 21:15	96.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
101	MAK08	12/03/10 21:18	98.8	0.0	0.0	0.0	<input checked="" type="checkbox"/>
102	MAK09	12/03/10 21:20	103.2	0.0	0.0	0.0	<input checked="" type="checkbox"/>
103	CCV 18	12/03/10 21:23	98.6	0.0	0.0	0.0	<input checked="" type="checkbox"/>
104	CCB 18	12/03/10 21:25	101.7	0.0	0.0	0.0	<input checked="" type="checkbox"/>
105	CCV 19	12/03/10 21:28	96.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
106	CCB 19	12/03/10 21:32	97.5	0.0	0.0	0.0	<input checked="" type="checkbox"/>
109	CCV 20	12/03/10 21:36	99.1	98.4	98.6	100.1	<input checked="" type="checkbox"/>
110	CCB 20	12/03/10 21:39	98.9	99.7	97.5	99.6	<input checked="" type="checkbox"/>
111	MAHGVB	12/03/10 21:43	100.0	101.1	80.6	104.1	<input checked="" type="checkbox"/>
112	MAHGVC	12/03/10 21:47	97.1	99.0	80.9	100.8	<input checked="" type="checkbox"/>
113	MAHGVL	12/03/10 21:50	96.6	99.0	80.5	100.3	<input checked="" type="checkbox"/>
114	CCV 21	12/03/10 21:54	96.8	96.4	97.7	97.8	<input checked="" type="checkbox"/>
115	CCB 21	12/03/10 21:58	99.8	99.8	97.9	100.7	<input checked="" type="checkbox"/>
116	L9612	12/03/10 22:01	81.7	83.2	76.1	81.8	<input checked="" type="checkbox"/>
117	L9635	12/03/10 22:05	76.2	81.8	74.4	81.3	<input checked="" type="checkbox"/>
118	L9636	12/03/10 22:09	71.5	75.0	69.1	76.0	<input checked="" type="checkbox"/>
119	L9637	12/03/10 22:12	73.1	75.7	66.4	76.9	<input checked="" type="checkbox"/>
120	L9638	12/03/10 22:16	67.8	71.0	63.7	74.8	<input type="checkbox"/>
121	L9639	12/03/10 22:20	70.7	75.0	64.0	75.9	<input checked="" type="checkbox"/>
122	CCV 22	12/03/10 22:23	77.3	81.1	73.9	82.4	<input checked="" type="checkbox"/>
123	CCB 22	12/03/10 22:27	77.5	82.3	67.1	82.5	<input checked="" type="checkbox"/>
126	CCV 23	12/03/10 22:31	102.1	100.4	109.4	102.5	<input checked="" type="checkbox"/>
127	CCB 23	12/03/10 22:34	101.9	101.2	100.5	101.2	<input checked="" type="checkbox"/>
128	L9612	12/03/10 22:38	92.8	92.9	97.7	93.9	<input checked="" type="checkbox"/>
129	L9635	12/03/10 22:42	90.8	94.8	98.8	95.7	<input checked="" type="checkbox"/>
130	L9636	12/03/10 22:45	86.7	87.7	94.0	89.9	<input checked="" type="checkbox"/>
131	L9637	12/03/10 22:49	90.3	89.8	93.4	92.2	<input checked="" type="checkbox"/>
132	L9638	12/03/10 22:53	84.9	84.0	91.9	88.4	<input checked="" type="checkbox"/>
133	L9639	12/03/10 22:56	88.6	88.9	91.7	90.5	<input checked="" type="checkbox"/>
134	CCV 24	12/03/10 23:00	95.6	95.1	103.0	97.0	<input checked="" type="checkbox"/>
135	CCB 24	12/03/10 23:04	96.9	97.7	94.0	98.9	<input checked="" type="checkbox"/>
136	CCV 25	12/03/10 23:08	98.4	99.4	105.2	101.2	<input checked="" type="checkbox"/>
137	CCB 25	12/03/10 23:11	98.0	100.6	98.3	101.3	<input checked="" type="checkbox"/>
138	L9612	12/03/10 23:15	87.2	89.2	92.4	90.7	<input checked="" type="checkbox"/>
139	L9635	12/03/10 23:19	86.2	91.0	95.1	92.5	<input checked="" type="checkbox"/>
140	L9636	12/03/10 23:22	83.8	86.0	90.7	88.1	<input checked="" type="checkbox"/>
141	L9637	12/03/10 23:26	87.0	87.7	89.4	89.8	<input checked="" type="checkbox"/>
142	L9638	12/03/10 23:29	82.6	83.7	87.5	87.0	<input checked="" type="checkbox"/>
143	L9639	12/03/10 23:33	86.4	88.4	87.2	89.1	<input checked="" type="checkbox"/>
144	CCV 26	12/03/10 23:37	94.8	95.1	98.0	96.9	<input checked="" type="checkbox"/>
145	CCB 26	12/03/10 23:41	94.0	96.1	90.0	97.1	<input checked="" type="checkbox"/>
146	CCV 27	12/03/10 23:44	95.9	96.7	99.1	98.7	<input checked="" type="checkbox"/>
147	CCB 27	12/03/10 23:48	94.3	97.3	92.1	98.5	<input checked="" type="checkbox"/>
148	L9634	12/03/10 23:52	88.0	90.5	88.9	91.6	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
149	L9634P5	12/03/10 23:55	89.7	93.3	90.6	93.7	<input type="checkbox"/>
150	L9634X	12/03/10 23:59	85.6	87.9	86.9	88.8	<input checked="" type="checkbox"/>
151	L9634Z	12/04/10 00:02	83.3	86.1	84.7	87.5	<input checked="" type="checkbox"/>
152	CCV 28	12/04/10 00:06	92.6	93.8	96.3	95.2	<input checked="" type="checkbox"/>
153	CCB 28	12/04/10 00:10	92.2	95.6	86.3	96.5	<input checked="" type="checkbox"/>

# TAL-W.Sacramento Elan 6000 ICPMS M02

## Quantitative Method Report

File Name: 000-USGS-SH.mth  
File Path: E:\elandata\Method\000-USGS-SH.mth

### Timing Parameters

Sweeps/Reading: 50  
Readings/Replicate: 1  
Number of Replicates: 3  
Tuning File: e:\elandata\Tuning\default.tun  
Optimization File: e:\elandata\Optimize\default.dac  
QC Enabled: Yes  
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
B	11.009	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
V	50.944	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Se	81.917	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Ag	106.905	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Tl	204.975	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	20.0 ms	1000 ms
Se	77.917	Peak Hopping	1	20.0 ms	1000 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms

## TAL-W.Sacramento Elan 6000 ICPMS M02

Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
Ag	108.905	Peak Hopping	1	5.0 ms	250 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms

### Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

### Equations

Analyte	Mass	Corrections
V	50.944	-3.108 * Cr 53 + 0.3524 * Cr 52
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
Zn	67.925	-0.015 * Ba 136
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00155 * Br 79
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Se	75.919	- 0.268980 * Ge 72
Se	77.917	- 0.030435 * Kr 83
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

### Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	. 100			
B	11.009	Linear Thru Zero	ug/L	ug/L	500			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
V	50.944	Linear Thru Zero	ug/L	ug/L	100			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			

**TAL-W.Sacramento Elan 6000 ICPMS M02**

Co	58.933	Linear Thru Zero	ug/L	ug/L	100
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100
As	74.922	Linear Thru Zero	ug/L	ug/L	100
Se	81.917	Linear Thru Zero	ug/L	ug/L	100
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Ag	106.905	Linear Thru Zero	ug/L	ug/L	50
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100
In-1	114.904	Linear Thru Zero	ug/L	ug/L	
Tl	204.975	Linear Thru Zero	ug/L	ug/L	50
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Se	75.919	Linear Thru Zero	ug/L	ug/L	100
Se	76.920	Linear Thru Zero	ug/L	ug/L	100
Se	77.917	Linear Thru Zero	ug/L	ug/L	100
Br	78.918	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100
Ag	108.905	Linear Thru Zero	ug/L	ug/L	50
In	114.904	Linear Thru Zero	ug/L	ug/L	
207.97	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	



TAL-W. SACRAMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8

AIR TOX Standards - 4 % HNO<sub>3</sub>, 0.5 % HCl

**Standards for run:**

Tuning standard: 4075-25B

Internal standard: 4075-22C

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-21E

ICV: 4075-20D

ICSA: 4075-27B

ICSAB: 4075-27C

File Number: 101203B2

### Instrument Tuning Report - Elan 6000

File Name: default.tun

#### Sample Information

Sample Date/Time: Friday, December 03, 2010 08:08:27

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1573	0.700	2034	
Be	9.012	8.878	2049	0.679	2024	
Mg	23.985	23.978	5725	0.721	1973	
Co	58.933	58.979	14297	0.728	1884	
In	114.904	114.928	27960	0.734	1839	
Ce	139.905	139.878	34033	0.738	1878	
Tl	204.975	204.979	49758	0.736	2096	
Pb	207.977	207.979	50472	0.721	2111	
U	238.050	238.026	57706	0.725	2273	

### Instrument Tuning Report - Elan 6000

File Name: default.tun

#### Sample Information

Sample Date/Time: Friday, December 03, 2010 08:10:50

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.926	1552	0.750	2032	
Be	9.012	9.029	2052	0.713	2019	
Mg	23.985	23.979	5723	0.720	1973	
Co	58.933	58.879	14283	0.725	1884	
In	114.904	114.928	27965	0.724	1839	
Ce	139.905	139.878	34026	0.729	1878	
Tl	204.975	204.979	49758	0.734	2096	
Pb	207.977	208.028	50484	0.721	2111	
U	238.050	238.076	57712	0.725	2273	

## Elan 6000 Instrument Optimzation Report

File Name c:\elandata\Optimize\default.dac

Path c:\elandata\Optimize

### Sample Information

Sample Date/Time: Friday, December 03, 2010 08:10:50

Sample ID: TUNE SHARGRAVE

### Parameter Settings

Nebulizer Gas Flow	0.8
Lens Voltage	6.8
ICP RF Power	1050.0
Analog Stage Voltage	-1725.0
Pulse Stage Voltage	1300.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

### AutoLens Calibration

Date:	08:14:20 Fri 03-Dec-10
Sample Filename:	TUNE SHARGRAVE.002
Dataset Pathname:	101203a1\
Lens Voltage Start:	5.50 V
Lens Voltage End:	10.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0237
Intercept:	5.4738

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	5.8 V	6490 cps	19
Co	58.933	6.8 V	176877 cps	19
In	114.904	8.3 V	362013 cps	19

### Dual Detector Calibration

Date:	13:20:08 Wed 24-Nov-10
Sample Filename:	DAILY SHARGRAVE.1151
Dataset Pathname:	c:\elandata\Dataset\dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.013	6136	2.04e+009 cps
Li	7.016	5712	2.19e+009 cps
Be	9.011	5227	2.40e+009 cps
B	11.009	5334	2.35e+009 cps
Na	22.992	5285	2.37e+009 cps

TAL-W.SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8

Mg	23.985	4877	2.57e+009 cps
Mg	24.984	4692	2.67e+009 cps
Al	26.982	4539	2.76e+009 cps
P	30.994	4220	2.97e+009 cps
K	38.965	4072	3.07e+009 cps
Ca	42.957		cps
Ca	43.956	4123	3.04e+009 cps
Sc	44.955	4161	3.01e+009 cps
V	50.945	4128	3.03e+009 cps
Cr	51.940	3926	3.19e+009 cps
Fe	53.942	3884	3.22e+009 cps
Mn	54.936	3868	3.24e+009 cps
Fe	56.934	3694	3.39e+009 cps
Co	58.934	3697	3.39e+009 cps
Ni	59.933	3626	3.45e+009 cps
Cu	62.931	3539	3.54e+009 cps
Cu	64.929	3497	3.58e+009 cps
Zn	67.927	3556	3.52e+009 cps
Ge	71.924	3614	3.46e+009 cps
As	74.921	3430	3.65e+009 cps
Se	77.919	3623	3.46e+009 cps
Br	78.918		cps
Se	81.916	3485	3.59e+009 cps
Sr	87.907		cps
Mo	96.908	3530	3.55e+009 cps
Ag	106.904	3016	4.15e+009 cps
Ag	108.906	3153	3.97e+009 cps
Cd	110.905	3237	3.87e+009 cps
Cd	113.902	3261	3.84e+009 cps
In	114.903	3297	3.80e+009 cps
Sn	117.902	3334	3.75e+009 cps
Sb	120.905	3336	3.75e+009 cps
Ba	134.907	3168	3.95e+009 cps
Tm	168.934	3095	4.04e+009 cps
Tl	204.975	2951	4.24e+009 cps
Pb	207.979	2937	4.26e+009 cps
Bi	208.978		cps
U	238.050	2982	4.20e+009 cps

## Daily Performance Report - Elan 6000

Sample ID: DAILY SHARGRAVE  
 Sample Date/Time: Friday, December 03, 2010 08:17:20  
 Sample Description:  
 Sample File: C:\elandata\Sample\0333406X.sam  
 Method File: C:\elandata\Method\000-DAILY\_EPA.mth  
 Dataset File: C:\elandata\Dataset\101203a1\DAILY SHARGRAVE.003  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: c:\elandata\Optimize\default.dac  
 Number of Replicates: 5  
 Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	47913.723	1316.646	2.748
Rh	103	243658.164	3781.915	1.552
Pb	208	198846.420	1603.215	0.806
[> Ba	138	296040.302	1447.446	0.489
[ Ba++	69	0.022	0.000	1.897
[> Ce	140	374664.562	2114.282	0.564
[ CeO	156	0.025	0.001	2.636
Bkgd	220	8.000	4.116	51.446
Li	7	8576.049	355.032	4.140
Be	9	3302.314	52.171	1.580
Co	59	125428.407	2165.638	1.727
In	115	341848.964	1188.683	0.348
Tl	205	273152.139	1281.563	0.469

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Rinse 3X

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:18:42

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\Rinse 3X.001

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1327820.249	ug/L	0.000
> 6 Li-1			931759.428	ug/L	0.000
9 Be			2.333	ug/L	0.000
11 B			885.395	ug/L	0.000
27 Al			387956.952	ug/L	0.000
44 Ca	-5.668690	10.979	5997.159	ug/L	7343.235
51 V			-7678.114	ug/L	0.000
52 Cr			10288.310	ug/L	0.000
55 Mn			6988.837	ug/L	0.000
54 Fe			61258.826	ug/L	0.000
57 Fe			4847.900	ug/L	0.000
59 Co			92.001	ug/L	0.000
60 Ni			944.947	ug/L	0.000
65 Cu	0.137508	10.955	352.695	ug/L	114.077
68 Zn			1988.822	ug/L	0.000
75 As			13063.129	ug/L	0.000
82 Se			1075.258	ug/L	0.000
> 72 Ge-1			1348171.474	ug/L	1391155.971
107 Ag			65.667	ug/L	0.000
111 Cd			28.243	ug/L	0.000
121 Sb			255.338	ug/L	0.000
135 Ba			120.668	ug/L	0.000
> 115 In-1			1625575.144	ug/L	0.000
205 Tl			1994.647	ug/L	0.000
208 Pb			1090.370	ug/L	0.000
> 169 Tm-1			1701994.529	ug/L	0.000
50 Cr			-152.075	ug/L	0.000
53 Cr			27220.446	ug/L	0.000
61 Ni			1212.324	ug/L	0.000
63 Cu	0.150246	8.827	292.686	ug/L	94.335
67 Zn			1251.678	ug/L	0.000
66 Zn			917.519	ug/L	0.000
76 Se			-184981.916	ug/L	0.000
77 Se			5073.751	ug/L	0.000
78 Se			14172.628	ug/L	0.000

	79 Br	123237.205	ug/L	0.000
[>	72 Ge	1348171.474	ug/L	1391155.971
[	108 Cd	3.655	ug/L	0.000
	114 Cd	73.660	ug/L	0.000
	109 Ag	17.667	ug/L	0.000
[>	115 In	1625575.144	ug/L	0.000
[	208 207.977	580.026	ug/L	0.000
	207 Pb	215.337	ug/L	0.000
	206 Pb	295.007	ug/L	0.000
[>	169 Tm	1701994.529	ug/L	0.000

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
	Sc 45	
[>	Li-1 6	
[	Be 9	
	B 11	
[	Al 27	
	Ca 44	
	V 51	
	Cr 52	
	Mn 55	
	Fe 54	
	Fe 57	
	Co 59	
	Ni 60	
	Cu 65	
	Zn 68	
	As 75	
	Se 82	
[>	Ge-1 72	96.910
[	Ag 107	
	Cd 111	
	Sb 121	
	Ba 135	
[>	In-1 115	
[	Tl 205	
	Pb 208	
[>	Tm-1 169	
[	Cr 50	
	Cr 53	
	Ni 61	
	Cu 63	
	Zn 67	
	Zn 66	
	Se 76	
	Se 77	
	Se 78	
	Br 79	
[>	Ge 72	96.910
[	Cd 108	
	Cd 114	
	Ag 109	
[>	In 115	
[	207.977 208	



	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:23:15

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\Blank.002

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1335621.243	ug/L	
[>	6 Li-1			934249.375	ug/L	
	9 Be			5.667	ug/L	
	11 B			692.038	ug/L	
	27 Al			141997.254	ug/L	
	44 Ca			4828.832	ug/L	
	51 V			-6165.420	ug/L	
	52 Cr			12075.780	ug/L	
	55 Mn			2840.300	ug/L	
	54 Fe			60152.727	ug/L	
	57 Fe			4668.089	ug/L	
	59 Co			208.337	ug/L	
	60 Ni			258.242	ug/L	
	65 Cu			112.112	ug/L	
	68 Zn			3266.631	ug/L	
	75 As			12778.670	ug/L	
	82 Se			1123.078	ug/L	
[>	72 Ge-1			1346399.819	ug/L	
	107 Ag			102.667	ug/L	
	111 Cd			53.438	ug/L	
	121 Sb			203.337	ug/L	
	135 Ba			168.669	ug/L	
[>	115 In-1			1635973.207	ug/L	
	205 Tl			1761.577	ug/L	
	208 Pb			1127.373	ug/L	
[>	169 Tm-1			1704328.816	ug/L	
	50 Cr			-115.435	ug/L	
	53 Cr			25460.847	ug/L	
	61 Ni			1136.951	ug/L	
	63 Cu			97.002	ug/L	
	67 Zn			1201.651	ug/L	
	66 Zn			1609.570	ug/L	
	76 Se			-185426.319	ug/L	
	77 Se			4670.533	ug/L	
	78 Se			13968.780	ug/L	

	79 Br	63058.114	ug/L
[>	72 Ge	1346399.819	ug/L
[	108 Cd	3.778	ug/L
	114 Cd	143.501	ug/L
	109 Ag	32.667	ug/L
[>	115 In	1635973.207	ug/L
[	208 207.977	595.695	ug/L
	207 Pb	237.671	ug/L
	206 Pb	294.007	ug/L
[>	169 Tm	1704328.816	ug/L

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
	Sc	45
[>	Li-1	6
	Be	9
[	B	11
	Al	27
	Ca	44
	V	51
	Cr	52
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
	Se	82
[>	Ge-1	72
[	Ag	107
	Cd	111
	Sb	121
	Ba	135
[>	In-1	115
[	Tl	205
	Pb	208
[>	Tm-1	169
[	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
	Se	76
	Se	77
	Se	78
	Br	79
[>	Ge	72
[	Cd	108
	Cd	114
	Ag	109
[>	in	115
[	207.977	208

	Pb	207
	Pb	206
L>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:27:43

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\Standard 1.003

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1346136.118	ug/L	1335621.243
[>	6 Li-1			1041438.503	ug/L	934249.375
	9 Be	100.000000	1.638	28461.518	ug/L	5.667
	11 B	500.000000	0.682	182323.061	ug/L	692.038
	27 Al	5100.000000	1.418	20960978.084	ug/L	141997.254
	44 Ca	5100.000000	0.366	925736.642	ug/L	4828.832
	51 V	100.000000	0.336	676011.108	ug/L	-6165.420
	52 Cr	100.000000	0.559	618934.384	ug/L	12075.780
	55 Mn	100.000000	0.282	1019222.187	ug/L	2840.300
	54 Fe	5100.000000	0.821	2563384.642	ug/L	60152.727
	57 Fe	5100.000000	0.531	1088582.427	ug/L	4668.089
	59 Co	100.000000	0.560	806037.995	ug/L	208.337
	60 Ni	100.000000	0.721	168832.817	ug/L	258.242
	65 Cu	100.000000	0.481	170825.533	ug/L	112.112
	68 Zn	100.000000	0.600	58170.195	ug/L	3266.631
	75 As	100.000000	0.992	156821.092	ug/L	12778.670
	82 Se	100.000000	1.809	16617.782	ug/L	1123.078
[>	72 Ge-1			1337723.436	ug/L	1346399.819
	107 Ag	50.000000	0.759	379647.295	ug/L	102.667
	111 Cd	100.000000	0.709	162588.906	ug/L	53.438
	121 Sb	50.000000	0.762	277418.627	ug/L	203.337
	135 Ba	100.000000	0.662	185594.545	ug/L	168.669
[>	115 In-1			1598326.414	ug/L	1635973.207
	205 Tl	50.000000	2.238	1129981.632	ug/L	1761.577
	208 Pb	100.000000	0.822	3181053.116	ug/L	1127.373
[>	169 Tm-1			1663698.781	ug/L	1704328.816
	50 Cr	100.000000	2.374	13767.969	ug/L	-115.435
	53 Cr	100.000000	1.527	105619.697	ug/L	25460.847
	61 Ni	100.000000	0.389	4003.523	ug/L	1136.951
	63 Cu	100.000000	0.576	129771.542	ug/L	97.002
	67 Zn	100.000000	1.082	6164.349	ug/L	1201.651
	66 Zn	100.000000	1.237	30345.593	ug/L	1609.570
	76 Se	100.000000	11.629	-181226.659	ug/L	-185426.319
	77 Se	100.000000	0.285	17304.788	ug/L	4670.533
	78 Se	100.000000	0.412	50745.827	ug/L	13968.780

	79 Br	100.000000	11.762	136570.604	ug/L	63058.114
>	72 Ge			1337723.436	ug/L	1346399.819
	108 Cd	100.000000	0.788	10984.094	ug/L	3.778
	114 Cd	100.000000	0.672	388483.484	ug/L	143.501
	109 Ag	50.000000	0.570	131153.653	ug/L	32.667
>	115 In			1598326.414	ug/L	1635973.207
	208 207.977	100.000000	1.043	1626184.976	ug/L	595.695
	207 Pb	100.000000	0.666	673084.916	ug/L	237.671
	206 Pb	100.000000	0.547	881783.225	ug/L	294.007
>	169 Tm			1663698.781	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	
Tl	205	
Pb	208	
> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	
Cd	108	
Cd	114	
Ag	109	
> In	115	
207.977	208	

	Pb	207
	Pb	206
L>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:31:55

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\ICV.004

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1279031.221	ug/L	1335621.243
[>	6 Li-1			937453.722	ug/L	934249.375
	9 Be	80.465325	0.920	20615.343	ug/L	5.667
	11 B	813.382481	1.189	266514.529	ug/L	692.038
	27 Al	763.015645	0.268	3165653.764	ug/L	141997.254
	44 Ca	816.666440	0.587	148040.860	ug/L	4828.832
	51 V	79.020547	0.332	518115.410	ug/L	-6165.420
	52 Cr	80.026791	0.035	483898.413	ug/L	12075.780
	55 Mn	80.966953	0.215	802857.117	ug/L	2840.300
	54 Fe	817.664291	0.306	448362.853	ug/L	60152.727
	57 Fe	817.333926	0.437	173404.255	ug/L	4668.089
	59 Co	81.409324	0.310	638017.875	ug/L	208.337
	60 Ni	81.135963	0.287	133231.126	ug/L	258.242
	65 Cu	81.811300	0.319	135898.042	ug/L	112.112
	68 Zn	82.681295	0.654	47308.507	ug/L	3266.631
	75 As	81.281196	0.334	126240.636	ug/L	12778.670
	82 Se	83.786163	0.374	13713.286	ug/L	1123.078
[>	72 Ge-1			1300594.776	ug/L	1346399.819
	107 Ag	40.245887	0.417	301683.470	ug/L	102.667
	111 Cd	81.888740	0.349	131447.156	ug/L	53.438
	121 Sb	39.123620	0.872	214336.982	ug/L	203.337
	135 Ba	80.079671	0.124	146753.559	ug/L	168.669
[>	115 In-1			1577824.948	ug/L	1635973.207
	205 Tl	42.559109	0.783	942071.806	ug/L	1761.577
	208 Pb	81.782233	0.456	2547603.186	ug/L	1127.373
[>	169 Tm-1			1629081.674	ug/L	1704328.816
	50 Cr	66.271548	0.335	8832.949	ug/L	-115.435
	53 Cr	73.818427	0.831	82243.747	ug/L	25460.847
	61 Ni	81.112882	1.995	3364.823	ug/L	1136.951
	63 Cu	81.159450	0.592	102415.785	ug/L	97.002
	67 Zn	79.671530	0.657	5010.851	ug/L	1201.651
	66 Zn	83.016036	0.371	24756.775	ug/L	1609.570
	76 Se	91.955173	51.627	-176435.213	ug/L	-185426.319
	77 Se	71.824464	0.763	13355.470	ug/L	4670.533
	78 Se	81.869715	0.416	42838.890	ug/L	13968.780



	79 Br	-13.331705	15.824	51333.636	ug/L	63058.114
>	72 Ge			1300594.776	ug/L	1346399.819
	108 Cd	80.524038	0.055	8732.293	ug/L	3.778
	114 Cd	81.711557	0.392	313397.995	ug/L	143.501
	109 Ag	40.319519	0.320	104410.141	ug/L	32.667
>	115 In			1577824.948	ug/L	1635973.207
	208 207.977	84.497468	0.501	1345581.670	ug/L	595.695
	207 Pb	84.753912	0.447	558628.366	ug/L	237.671
	206 Pb	74.506623	0.903	643393.150	ug/L	294.007
>	169 Tm			1629081.674	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	100.343
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	96.598
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	96.446
Tl	205	
Pb	208	
> Tm-1	169	95.585
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	96.598
Cd	108	
Cd	114	
Ag	109	
> In	115	96.446
207.977	208	

	Pb	207	
	Pb	206	
>	Tm	169	95.585

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

**SOP No. SAC-MT-0001**

**Analyst: SHargrave**

**Sample ID: ICB**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:36:13

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\ICB.005

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1264022.376	ug/L	1335621.243
>	6 Li-1			920643.727	ug/L	934249.375
	9 Be	0.002852	673.901	6.333	ug/L	5.667
	11 B	6.696697	20.707	2833.642	ug/L	692.038
	27 Al	2.688008	54.297	145595.488	ug/L	141997.254
	44 Ca	0.605941	142.565	4698.068	ug/L	4828.832
	51 V	-0.011142	857.656	-5937.115	ug/L	-6165.420
	52 Cr	0.047468	46.715	11763.530	ug/L	12075.780
	55 Mn	0.021070	11.280	2906.997	ug/L	2840.300
	54 Fe	-0.084221	1120.680	57183.380	ug/L	60152.727
	57 Fe	2.152700	16.551	4878.979	ug/L	4668.089
	59 Co	0.003310	103.321	223.671	ug/L	208.337
	60 Ni	-0.007380	132.119	233.799	ug/L	258.242
	65 Cu	0.007341	99.289	118.618	ug/L	112.112
	68 Zn	0.025393	306.586	3120.836	ug/L	3266.631
	75 As	-0.141816	87.989	11961.306	ug/L	12778.670
	82 Se	0.475514	38.131	1139.060	ug/L	1123.078
>	72 Ge-1			1280847.604	ug/L	1346399.819
	107 Ag	-0.000170	1093.803	97.667	ug/L	102.667
	111 Cd	0.000567	1167.015	52.412	ug/L	53.438
	121 Sb	0.177552	25.270	1167.444	ug/L	203.337
	135 Ba	0.005163	158.639	172.002	ug/L	168.669
>	115 In-1			1576845.565	ug/L	1635973.207
	205 Tl	0.254608	16.112	7267.191	ug/L	1761.577
	208 Pb	0.001003	189.498	1102.370	ug/L	1127.373
>	169 Tm-1			1619445.102	ug/L	1704328.816
	50 Cr	-0.139603	100.084	-128.327	ug/L	-115.435
	53 Cr	1.354356	59.384	25261.724	ug/L	25460.847
	61 Ni	3.873601	74.115	1188.312	ug/L	1136.951
	63 Cu	0.002451	233.425	95.335	ug/L	97.002
	67 Zn	0.655277	45.428	1174.303	ug/L	1201.651
	66 Zn	0.147604	37.607	1571.877	ug/L	1609.570
	76 Se	-2.114351	386.181	-176459.639	ug/L	-185426.319
	77 Se	0.038931	780.355	4447.754	ug/L	4670.533
	78 Se	-0.677728	52.513	13049.806	ug/L	13968.780

79 Br	-36.243054	1.401	34328.360	ug/L	63058.114
> 72 Ge			1280847.604	ug/L	1346399.819
108 Cd	0.012804	279.771	5.025	ug/L	3.778
114 Cd	-0.001279	213.122	133.406	ug/L	143.501
109 Ag	0.002387	96.660	37.667	ug/L	32.667
> 115 In			1576845.565	ug/L	1635973.207
208 207.977	0.000333	688.940	571.359	ug/L	595.695
207 Pb	0.000841	51.405	231.338	ug/L	237.671
206 Pb	0.002364	128.540	299.674	ug/L	294.007
> 169 Tm			1619445.102	ug/L	1704328.816

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	98.544
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	95.131
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	96.386
Tl	205	
Pb	208	
> Tm-1	169	95.020
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	95.131
Cd	108	
Cd	114	
Ag	109	
> In	115	96.386
207.977	208	

	Pb	207	
	Pb	206	
>	Tm	169	95.020

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: LLSTD1

Sample Description: LLSTD1@10X

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:46:28

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\LLSTD1.006

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 71

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1273785.839	ug/L	1335621.243
> 6 Li-1			943672.711	ug/L	934249.375
[ 9 Be	0.997918	2.288	263.005	ug/L	5.667
[ 11 B	52.008848	1.322	17809.555	ug/L	692.038
[ 27 Al	17.771957	6.590	204956.648	ug/L	141997.254
[ 44 Ca	54.492444	1.214	14045.151	ug/L	4828.832
[ 51 V	9.892826	3.491	58867.105	ug/L	-6165.420
[ 52 Cr	1.326651	4.454	19237.037	ug/L	12075.780
[ 55 Mn	0.961968	0.805	12089.474	ug/L	2840.300
[ 54 Fe	49.836902	2.633	80816.135	ug/L	60152.727
[ 57 Fe	53.643108	1.543	15388.755	ug/L	4668.089
[ 59 Co	1.013797	0.679	8037.072	ug/L	208.337
[ 60 Ni	4.153453	1.739	6963.811	ug/L	258.242
[ 65 Cu	1.064700	2.330	1850.753	ug/L	112.112
[ 68 Zn	7.000061	2.525	6803.047	ug/L	3266.631
[ 75 As	1.097832	30.036	13697.680	ug/L	12778.670
[ 82 Se	1.257198	25.279	1257.381	ug/L	1123.078
> 72 Ge-1			1283554.361	ug/L	1346399.819
[ 107 Ag	0.497185	2.630	3812.809	ug/L	102.667
[ 111 Cd	0.987149	5.762	1629.926	ug/L	53.438
[ 121 Sb	0.491692	3.772	2877.984	ug/L	203.337
[ 135 Ba	1.008829	0.465	2003.982	ug/L	168.669
> 115 In-1			1573480.194	ug/L	1635973.207
[ 205 Tl	0.550278	2.067	13723.116	ug/L	1761.577
[ 208 Pb	1.031727	1.465	32916.110	ug/L	1127.373
> 169 Tm-1			1615118.728	ug/L	1704328.816
[ 50 Cr	0.835637	35.158	1.337	ug/L	-115.435
[ 53 Cr	5.324513	9.621	28377.146	ug/L	25460.847
[ 61 Ni	5.933249	38.608	1247.343	ug/L	1136.951
[ 63 Cu	1.079187	3.258	1435.120	ug/L	97.002
[ 67 Zn	8.189775	16.960	1536.520	ug/L	1201.651
[ 66 Zn	6.922181	2.489	3443.941	ug/L	1609.570
[ 76 Se	-19.861076	78.712	-177343.282	ug/L	-185426.319
[ 77 Se	2.852776	5.552	4799.267	ug/L	4670.533
[ 78 Se	0.618406	95.899	13534.269	ug/L	13968.780

79 Br	-34.707631	2.146	35492.501	ug/L	63058.114
> 72 Ge			1283554.361	ug/L	1346399.819
108 Cd	1.003302	9.781	112.113	ug/L	3.778
114 Cd	0.945546	2.646	3751.620	ug/L	143.501
109 Ag	0.496911	4.954	1313.380	ug/L	32.667
> 115 In			1573480.194	ug/L	1635973.207
208 207.977	1.074007	1.232	17512.731	ug/L	595.695
207 Pb	1.047952	2.289	7069.592	ug/L	237.671
206 Pb	0.941371	1.530	8333.787	ug/L	294.007
> 169 Tm			1615118.728	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	101.009
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	95.332
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	96.180
Tl	205	
Pb	208	
> Tm-1	169	94.766
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	95.332
Cd	108	
Cd	114	
Ag	109	
> In	115	96.180
207.977	208	

	Pb	207	
	Pb	206	
↳	Tm	169	94.766



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: LLSTD2

Sample Description: LLSTD2@5X

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:50:45

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\LLSTD2.007

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 72

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1279852.198	ug/L	1335621.243
> 6 Li-1			958289.799	ug/L	934249.375
9 Be	1.946940	4.055	515.688	ug/L	5.667
11 B	103.389111	0.289	35252.717	ug/L	692.038
27 Al	69.758442	1.673	408183.870	ug/L	141997.254
44 Ca	105.305611	0.434	22825.866	ug/L	4828.832
51 V	19.991544	0.299	124842.255	ug/L	-6165.420
52 Cr	2.393660	1.201	25425.695	ug/L	12075.780
55 Mn	1.936198	1.170	21567.487	ug/L	2840.300
54 Fe	98.722838	2.559	103735.628	ug/L	60152.727
57 Fe	106.215951	0.707	26084.388	ug/L	4668.089
59 Co	2.054959	1.377	16070.937	ug/L	208.337
60 Ni	2.002658	0.493	3481.982	ug/L	258.242
65 Cu	2.083399	2.446	3515.938	ug/L	112.112
68 Zn	11.717757	0.366	9280.052	ug/L	3266.631
75 As	1.834371	8.649	14703.430	ug/L	12778.670
82 Se	2.337298	19.042	1416.715	ug/L	1123.078
> 72 Ge-1			1282237.445	ug/L	1346399.819
107 Ag	1.004128	1.873	7562.825	ug/L	102.667
111 Cd	2.023048	1.626	3272.032	ug/L	53.438
121 Sb	0.990430	2.038	5572.439	ug/L	203.337
135 Ba	2.007959	2.956	3807.472	ug/L	168.669
> 115 In-1			1565505.459	ug/L	1635973.207
205 Tl	1.026441	0.681	24175.839	ug/L	1761.577
208 Pb	2.113750	0.409	66377.077	ug/L	1127.373
> 169 Tm-1			1616450.860	ug/L	1704328.816
50 Cr	0.977018	53.271	20.073	ug/L	-115.435
53 Cr	8.080727	2.301	30469.105	ug/L	25460.847
61 Ni	1.393285	126.526	1121.277	ug/L	1136.951
63 Cu	2.091719	2.985	2692.261	ug/L	97.002
67 Zn	13.498569	10.489	1787.370	ug/L	1201.651
66 Zn	11.904233	2.187	4812.757	ug/L	1609.570
76 Se	6.889190	236.518	-176391.765	ug/L	-185426.319
77 Se	7.178151	4.201	5319.222	ug/L	4670.533
78 Se	1.754423	20.688	13922.613	ug/L	13968.780

	79 Br	-25.597819	2.680	41909.382	ug/L	63058.114
>	72 Ge			1282237.445	ug/L	1346399.819
	108 Cd	1.985929	6.720	217.239	ug/L	3.778
	114 Cd	1.953733	2.540	7567.351	ug/L	143.501
	109 Ag	1.004219	1.496	2610.833	ug/L	32.667
>	115 In			1565505.459	ug/L	1635973.207
	208 207.977	2.193325	0.296	35207.460	ug/L	595.695
	207 Pb	2.194673	0.610	14573.336	ug/L	237.671
	206 Pb	1.905233	1.125	16596.281	ug/L	294.007
>	169 Tm			1616450.860	ug/L	1704328.816

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	102.573
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	95.235
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	95.693
Tl	205	
Pb	208	
> Tm-1	169	94.844
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	95.235
Cd	108	
Cd	114	
Ag	109	
> In	115	95.693
207.977	208	

	Pb	207	
	Pb	206	
>	Tm	169	94.844

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 15:56:27

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\ICSA .008

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			970027.955	ug/L	1335621.243
[> 6 Li-1			785275.710	ug/L	934249.375
9 Be	0.038610	28.558	13.000	ug/L	5.667
11 B	1.929563	11.580	1111.097	ug/L	692.038
27 Al	99317.490377	0.962	301310809.524	ug/L	141997.254
44 Ca	95673.660305	1.086	12837998.050	ug/L	4828.832
51 V	-0.028708	324.677	-4695.118	ug/L	-6165.420
52 Cr	3.969147	3.530	26807.025	ug/L	12075.780
55 Mn	6.305706	1.321	49709.432	ug/L	2840.300
54 Fe	94772.613639	1.031	34607015.310	ug/L	60152.727
57 Fe	93752.881663	1.363	14806291.617	ug/L	4668.089
59 Co	1.697018	2.314	10312.686	ug/L	208.337
60 Ni	1.910438	8.917	2582.484	ug/L	258.242
65 Cu	-0.712480	22.073	-821.346	ug/L	112.112
68 Zn	-0.410687	11.429	2243.475	ug/L	3266.631
75 As	-0.088177	513.531	9337.273	ug/L	12778.670
82 Se	2.030739	160.399	1084.707	ug/L	1153.346
[> 72 Ge-1			993746.947	ug/L	1346399.819
107 Ag	0.149110	5.394	903.064	ug/L	102.667
111 Cd	0.861089	7.950	1063.862	ug/L	53.438
121 Sb	0.204831	10.984	977.742	ug/L	203.337
135 Ba	2.757113	0.289	3867.842	ug/L	168.669
[> 115 In-1			1171413.826	ug/L	1635973.207
205 Tl	0.214435	4.433	4813.487	ug/L	1761.577
208 Pb	0.530037	0.788	13181.369	ug/L	1127.373
[> 169 Tm-1			1221352.694	ug/L	1704328.816
50 Cr	307.909093	6.756	31673.327	ug/L	-115.435
53 Cr	28.544837	6.738	35821.591	ug/L	25460.847
61 Ni	40.138226	6.115	1695.966	ug/L	1136.951
63 Cu	3.924818	3.139	3852.264	ug/L	97.002
67 Zn	22.951678	2.473	1734.328	ug/L	1201.651
66 Zn	4.064634	2.810	2055.930	ug/L	1609.570
76 Se	-128.668697	16.562	-139731.254	ug/L	-185426.319
77 Se	63.852665	3.632	9453.914	ug/L	4670.533
78 Se	3.441052	15.971	11252.570	ug/L	13968.780

	79 Br	7421.150671	21.756	4120519.188	ug/L	63058.114
>	72 Ge			993746.947	ug/L	1346399.819
	108 Cd	56.292640	4.723	4532.477	ug/L	3.778
	114 Cd	3.540923	4.004	10180.018	ug/L	143.501
	109 Ag	0.121030	3.978	256.014	ug/L	32.667
>	115 In			1171413.826	ug/L	1635973.207
	208 207.977	0.551871	2.158	7012.863	ug/L	595.695
	207 Pb	0.536097	1.205	2818.624	ug/L	237.671
	206 Pb	0.485147	1.661	3349.882	ug/L	294.007
>	169 Tm			1221352.694	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	84.054
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	73.808
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	71.603
Tl	205	
Pb	208	
> Tm-1	169	71.662
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	73.808
Cd	108	
Cd	114	
Ag	109	
> In	115	71.603
207.977	208	

	Pb	207	
	Pb	206	
>	Tm	169	71.662

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:00:42

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\ICSAB.009

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			932770.015	ug/L	1335621.243
[> 6 Li-1			788098.191	ug/L	934249.375
9 Be	98.099083	0.711	21128.017	ug/L	5.667
[ 11 B	456.853322	0.492	126112.736	ug/L	692.038
[ 27 Al	99141.655212	1.047	290386365.103	ug/L	141997.254
44 Ca	94958.535887	0.717	12301868.337	ug/L	4828.832
51 V	104.140187	0.254	505119.618	ug/L	-6165.420
52 Cr	102.879522	0.543	456454.345	ug/L	12075.780
55 Mn	102.695149	0.323	750676.601	ug/L	2840.300
54 Fe	93746.858001	0.093	33051217.552	ug/L	60152.727
57 Fe	92498.574393	0.351	14103875.179	ug/L	4668.089
59 Co	97.213645	0.513	562007.116	ug/L	208.337
60 Ni	94.209397	0.370	114091.672	ug/L	258.242
65 Cu	88.204548	0.172	108081.014	ug/L	112.112
68 Zn	92.882763	0.376	38918.187	ug/L	3266.631
75 As	103.758523	0.938	116362.046	ug/L	12778.670
82 Se	109.781495	0.016	13056.597	ug/L	1153.346
[> 72 Ge-1			959471.299	ug/L	1346399.819
[ 107 Ag	46.107447	0.729	248222.928	ug/L	102.667
111 Cd	95.602532	0.611	110213.475	ug/L	53.438
121 Sb	48.817346	0.496	192052.024	ug/L	203.337
135 Ba	103.993029	0.532	136842.709	ug/L	168.669
[> 115 In-1			1133276.201	ug/L	1635973.207
[ 205 Tl	52.932071	2.334	844883.572	ug/L	1761.577
208 Pb	107.382713	0.278	2412792.554	ug/L	1127.373
[> 169 Tm-1			1175160.737	ug/L	1704328.816
[ 50 Cr	364.276511	2.703	36186.045	ug/L	-115.435
53 Cr	123.529144	0.715	89308.996	ug/L	25460.847
61 Ni	127.839368	1.887	3445.276	ug/L	1136.951
63 Cu	91.554427	0.484	85223.923	ug/L	97.002
67 Zn	117.745782	1.434	5053.612	ug/L	1201.651
66 Zn	98.046369	0.240	21362.599	ug/L	1609.570
76 Se	-38.034323	105.114	-132961.926	ug/L	-185426.319
77 Se	162.797049	0.407	18116.033	ug/L	4670.533
78 Se	110.156098	0.678	39082.900	ug/L	13968.780

	79 Br	603.028250	39.169	365121.020	ug/L	63058.114
[>	72 Ge			959471.299	ug/L	1346399.819
	108 Cd	155.250930	0.832	12089.391	ug/L	3.778
	114 Cd	98.270284	0.610	270684.093	ug/L	143.501
	109 Ag	46.068732	0.196	85682.314	ug/L	32.667
[>	115 In			1133276.201	ug/L	1635973.207
	208 207.977	108.692531	0.202	1248489.093	ug/L	595.695
	207 Pb	106.157366	0.288	504700.572	ug/L	237.671
	206 Pb	105.902521	0.429	659602.889	ug/L	294.007
[>	169 Tm			1175160.737	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	84.356
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
[> Ge-1	72	71.262
Ag	107	
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	69.272
Tl	205	
Pb	208	
[> Tm-1	169	68.952
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
[> Ge	72	71.262
Cd	108	
Cd	114	
Ag	109	
[> In	115	69.272
207.977	208	



	Pb	207	
	Pb	206	
[>	Tm	169	68.952

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:08:39

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\Rinse.010

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1218571.241	ug/L	1335621.243
> 6 Li-1			1072587.499	ug/L	934249.375
9 Be	-0.011950	57.616	3.000	ug/L	5.667
11 B	1.075290	8.353	1196.446	ug/L	692.038
27 Al	42.707503	6.253	282798.795	ug/L	141997.254
44 Ca	2.262192	10.123	4667.044	ug/L	4828.832
51 V	-1.214537	20.361	-12913.671	ug/L	-6165.420
52 Cr	1.528373	0.607	19071.536	ug/L	12075.780
55 Mn	0.250323	2.981	4810.818	ug/L	2840.300
54 Fe	26.893457	0.562	65412.007	ug/L	60152.727
57 Fe	21.726824	3.426	8297.512	ug/L	4668.089
59 Co	-0.013367	13.716	89.001	ug/L	208.337
60 Ni	0.249056	10.528	606.467	ug/L	258.242
65 Cu	0.088909	13.088	235.972	ug/L	112.112
68 Zn	-1.189861	5.706	2323.674	ug/L	3266.631
75 As	-0.553072	112.206	10665.151	ug/L	12778.670
82 Se	1.048633	4.790	1173.304	ug/L	1153.346
> 72 Ge-1			1199207.227	ug/L	1346399.819
107 Ag	-0.006164	28.881	48.667	ug/L	102.667
111 Cd	-0.016975	38.371	22.358	ug/L	53.438
121 Sb	-0.016786	5.557	96.001	ug/L	203.337
135 Ba	-0.013339	16.111	127.335	ug/L	168.669
> 115 In-1			1453070.355	ug/L	1635973.207
205 Tl	0.314143	15.597	7747.084	ug/L	1761.577
208 Pb	-0.006848	5.847	777.352	ug/L	1127.373
> 169 Tm-1			1465217.182	ug/L	1704328.816
50 Cr	-1.970818	4.072	-348.078	ug/L	-115.435
53 Cr	46.033096	0.629	55824.124	ug/L	25460.847
61 Ni	20.660411	14.930	1545.193	ug/L	1136.951
63 Cu	0.082828	12.353	182.674	ug/L	97.002
67 Zn	4.515018	22.809	1271.356	ug/L	1201.651
66 Zn	-1.305772	17.868	1096.932	ug/L	1609.570
76 Se	60.847880	22.423	-163516.844	ug/L	-185426.319
77 Se	43.022289	4.248	9044.833	ug/L	4670.533
78 Se	1.184207	11.656	12833.010	ug/L	13968.780

79 Br	61.357323	16.912	96855.151	ug/L	63058.114
> 72 Ge			1199207.227	ug/L	1346399.819
108 Cd	0.035429	171.949	6.902	ug/L	3.778
114 Cd	-0.016995	21.660	67.463	ug/L	143.501
109 Ag	-0.004341	14.305	18.667	ug/L	32.667
> 115 In			1453070.355	ug/L	1635973.207
208 207.977	-0.008016	1.218	397.346	ug/L	595.695
207 Pb	-0.005512	83.570	171.669	ug/L	237.671
206 Pb	-0.005715	41.877	208.337	ug/L	294.007
> 169 Tm			1465217.182	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	114.807
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	89.068
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	88.820
Tl	205	
Pb	208	
> Tm-1	169	85.970
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	89.068
Cd	108	
Cd	114	
Ag	109	
> In	115	88.820
207.977	208	

{	Pb	207	
}	Pb	206	
L>	Tm	169	85.970

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:16:38

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 1.011

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1200840.412	ug/L	1335621.243
> 6 Li-1			1008929.675	ug/L	934249.375
[ 9 Be	97.971344	1.043	27010.873	ug/L	5.667
[ 11 B	471.312133	2.302	166500.889	ug/L	692.038
[ 27 Al	5344.704753	0.321	19302984.870	ug/L	141997.254
44 Ca	5244.434285	0.288	836646.222	ug/L	4828.832
51 V	100.326829	0.528	596163.619	ug/L	-6165.420
52 Cr	100.614393	0.416	547315.320	ug/L	12075.780
55 Mn	98.931895	0.555	886334.910	ug/L	2840.300
54 Fe	5034.278847	0.616	2224809.237	ug/L	60152.727
57 Fe	5076.970014	0.367	952546.242	ug/L	4668.089
59 Co	100.973040	0.291	715393.039	ug/L	208.337
60 Ni	100.718361	0.543	149465.720	ug/L	258.242
65 Cu	101.255475	0.464	152037.988	ug/L	112.112
68 Zn	100.440734	0.714	51347.122	ug/L	3266.631
75 As	102.680530	0.417	141242.197	ug/L	12778.670
82 Se	104.972828	1.305	15343.519	ug/L	1153.346
> 72 Ge-1			1175873.942	ug/L	1346399.819
[ 107 Ag	51.077066	1.137	343299.803	ug/L	102.667
111 Cd	102.050152	0.568	146888.567	ug/L	53.438
121 Sb	50.509896	1.319	248076.868	ug/L	203.337
135 Ba	101.548355	1.425	166828.568	ug/L	168.669
> 115 In-1			1415030.168	ug/L	1635973.207
[ 205 Tl	51.804179	1.871	1029976.064	ug/L	1761.577
208 Pb	102.420358	0.938	2866630.104	ug/L	1127.373
> 169 Tm-1			1463921.714	ug/L	1704328.816
[ 50 Cr	93.069522	2.437	11255.488	ug/L	-115.435
53 Cr	124.683092	2.540	110285.037	ug/L	25460.847
61 Ni	116.530906	1.092	3936.740	ug/L	1136.951
63 Cu	100.860349	0.224	115050.338	ug/L	97.002
67 Zn	105.495131	1.344	5658.034	ug/L	1201.651
66 Zn	101.036497	0.359	26936.024	ug/L	1609.570
76 Se	147.842638	18.571	-158040.529	ug/L	-185426.319
77 Se	127.065202	1.837	18224.922	ug/L	4670.533
78 Se	104.651744	0.345	46113.436	ug/L	13968.780

	79 Br	121.788345	6.215	134261.290	ug/L	63058.114
[>	72 Ge			1175873.942	ug/L	1346399.819
[	108 Cd	103.231205	0.487	10038.665	ug/L	3.778
	114 Cd	101.776201	1.172	349997.538	ug/L	143.501
	109 Ag	51.181128	1.269	118837.186	ug/L	32.667
[>	115 In			1415030.168	ug/L	1635973.207
[	208 207.977	102.480599	1.215	1466282.760	ug/L	595.695
	207 Pb	102.355427	0.874	606187.421	ug/L	237.671
	206 Pb	102.358828	0.591	794159.924	ug/L	294.007
[>	169 Tm			1463921.714	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	107.994
[ Be	9	
[ B	11	
[ Al	27	
[ Ca	44	
[ V	51	
[ Cr	52	
[ Mn	55	
[ Fe	54	
[ Fe	57	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[ Se	82	
[> Ge-1	72	87.335
[ Ag	107	
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	86.495
[ Tl	205	
[ Pb	208	
[> Tm-1	169	85.894
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[ Se	76	
[ Se	77	
[ Se	78	
[ Br	79	
[> Ge	72	87.335
[ Cd	108	
[ Cd	114	
[ Ag	109	
[> In	115	86.495
[ 207.977	208	

	Pb	207	
	Pb	206	
L>	Tm	169	85.894

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:20:56

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 1.012

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank intensity
45 Sc			1219505.239	ug/L	1335621.243
> 6 Li-1			1034155.415	ug/L	934249.375
9 Be	-0.010361	71.544	3.333	ug/L	5.667
11 B	3.719155	21.008	2105.685	ug/L	692.038
27 Al	-1.182571	44.839	121122.053	ug/L	141997.254
44 Ca	-1.453250	66.148	4031.278	ug/L	4828.832
51 V	-0.767390	27.209	-10100.788	ug/L	-6165.420
52 Cr	1.540763	0.967	18977.923	ug/L	12075.780
55 Mn	-0.011488	20.288	2404.788	ug/L	2840.300
54 Fe	25.041410	1.875	64054.811	ug/L	60152.727
57 Fe	19.780062	1.180	7859.972	ug/L	4668.089
59 Co	0.002003	43.991	198.336	ug/L	208.337
60 Ni	-0.010499	49.992	212.335	ug/L	258.242
65 Cu	0.008214	46.018	111.493	ug/L	112.112
68 Zn	0.306796	15.479	3034.819	ug/L	3266.631
75 As	0.028845	559.494	11323.472	ug/L	12778.670
82 Se	1.032434	15.678	1161.241	ug/L	1153.346
> 72 Ge-1			1189136.614	ug/L	1346399.819
107 Ag	0.000655	94.501	95.334	ug/L	102.667
111 Cd	-0.002180	655.995	44.104	ug/L	53.438
121 Sb	-0.010276	37.139	128.335	ug/L	203.337
135 Ba	-0.000152	7318.221	149.002	ug/L	168.669
> 115 In-1			1447436.345	ug/L	1635973.207
205 Tl	0.670376	20.935	15021.408	ug/L	1761.577
208 Pb	0.000198	438.983	988.364	ug/L	1127.373
> 169 Tm-1			1485663.579	ug/L	1704328.816
50 Cr	-1.323297	6.640	-265.227	ug/L	-115.435
53 Cr	33.468432	0.452	46384.100	ug/L	25460.847
61 Ni	19.164189	17.466	1493.825	ug/L	1136.951
63 Cu	-0.002032	256.067	83.335	ug/L	97.002
67 Zn	4.575552	26.246	1263.351	ug/L	1201.651
66 Zn	0.140479	54.032	1457.467	ug/L	1609.570
76 Se	70.206993	43.254	-161893.608	ug/L	-185426.319
77 Se	29.718569	3.717	7470.402	ug/L	4670.533
78 Se	1.441674	7.469	12809.738	ug/L	13968.780



79 Br	-21.736424	14.459	41402.874	ug/L	63058.114
> 72 Ge			1189136.614	ug/L	1346399.819
108 Cd	0.022131	319.940	5.532	ug/L	3.778
114 Cd	0.003614	64.243	139.686	ug/L	143.501
109 Ag	0.003688	45.186	37.667	ug/L	32.667
> 115 In			1447436.345	ug/L	1635973.207
208 207.977	0.000929	214.817	532.689	ug/L	595.695
207 Pb	-0.000265	642.217	205.670	ug/L	237.671
206 Pb	-0.000794	77.937	250.005	ug/L	294.007
> 169 Tm			1485663.579	ug/L	1704328.816

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	110.694
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	88.320
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	88.476
Tl	205	
Pb	208	
> Tm-1	169	87.170
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	88.320
Cd	108	
Cd	114	
Ag	109	
> In	115	88.476
207.977	208	

	Pb	207	
	Pb	206	
>	Tm	169	87.170

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: BLK RECAL

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:20:56

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 1.012

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1219505.239	ug/L	
[> 6 Li-1			1034155.415	ug/L	
9 Be			3.333	ug/L	
11 B			2105.685	ug/L	
27 Al			121122.053	ug/L	
44 Ca			4031.278	ug/L	
51 V			-10100.788	ug/L	
52 Cr			18977.923	ug/L	
55 Mn			2404.788	ug/L	
54 Fe			64054.811	ug/L	
57 Fe			7859.972	ug/L	
59 Co			198.336	ug/L	
60 Ni			212.335	ug/L	
65 Cu			111.493	ug/L	
68 Zn			3034.819	ug/L	
75 As			11323.472	ug/L	
82 Se			1161.241	ug/L	
[> 72 Ge-1			1189136.614	ug/L	
107 Ag			95.334	ug/L	
111 Cd			44.104	ug/L	
121 Sb			128.335	ug/L	
135 Ba			149.002	ug/L	
[> 115 In-1			1447436.345	ug/L	
205 Tl			15021.408	ug/L	
208 Pb			988.364	ug/L	
[> 169 Tm-1			1485663.579	ug/L	
50 Cr			-265.227	ug/L	
53 Cr			46384.100	ug/L	
61 Ni			1493.825	ug/L	
63 Cu			83.335	ug/L	
67 Zn			1263.351	ug/L	
66 Zn			1457.467	ug/L	
76 Se			-161893.608	ug/L	
77 Se			7470.402	ug/L	
78 Se			12809.738	ug/L	

	79 Br	41402.874	ug/L
>	72 Ge	1189136.614	ug/L
	108 Cd	5.532	ug/L
	114 Cd	139.686	ug/L
	109 Ag	37.667	ug/L
>	115 In	1447436.345	ug/L
	208 207.977	532.689	ug/L
	207 Pb	205.670	ug/L
	206 Pb	250.005	ug/L
>	169 Tm	1485663.579	ug/L

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
	Sc	45
>	Li-1	6
	Be	9
	B	11
	Al	27
	Ca	44
	V	51
	Cr	52
	Mn	55
	Fe	54
	Fe	57
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
	Se	82
>	Ge-1	72
	Ag	107
	Cd	111
	Sb	121
	Ba	135
>	In-1	115
	Tl	205
	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
	Se	76
	Se	77
	Se	78
	Br	79
>	Ge	72
	Cd	108
	Cd	114
	Ag	109
>	In	115
	207.977	208

	Pb	207
	Pb	206
L>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: STD1RECAL

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:16:38

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 1.011

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1200840.412	ug/L	1219505.239
>	6 Li-1			1008929.675	ug/L	1034155.415
	9 Be	100.000000	1.043	27010.873	ug/L	3.333
	11 B	500.000000	2.320	166500.889	ug/L	2105.685
	27 Al	5100.000000	0.321	19302984.870	ug/L	121122.053
	44 Ca	5100.000000	0.288	836646.222	ug/L	4031.278
	51 V	100.000000	0.524	596163.619	ug/L	-10100.788
	52 Cr	100.000000	0.423	547315.320	ug/L	18977.923
	55 Mn	100.000000	0.555	886334.910	ug/L	2404.788
	54 Fe	5100.000000	0.619	2224809.237	ug/L	64054.811
	57 Fe	5100.000000	0.368	952546.242	ug/L	7859.972
	59 Co	100.000000	0.291	715393.039	ug/L	198.336
	60 Ni	100.000000	0.543	149465.720	ug/L	212.335
	65 Cu	100.000000	0.464	152037.988	ug/L	111.493
	68 Zn	100.000000	0.716	51347.122	ug/L	3034.819
	75 As	100.000000	0.417	141242.197	ug/L	11323.472
	82 Se	100.000000	1.318	15343.519	ug/L	1161.241
>	72 Ge-1			1175873.942	ug/L	1189136.614
	107 Ag	50.000000	1.137	343299.803	ug/L	95.334
	111 Cd	100.000000	0.568	146888.567	ug/L	44.104
	121 Sb	50.000000	1.319	248076.868	ug/L	128.335
	135 Ba	100.000000	1.425	166828.568	ug/L	149.002
>	115 In-1			1415030.168	ug/L	1447436.345
	205 Tl	50.000000	1.895	1029976.064	ug/L	15021.408
	208 Pb	100.000000	0.938	2866630.104	ug/L	988.364
>	169 Tm-1			1463921.714	ug/L	1485663.579
	50 Cr	100.000000	2.403	11255.488	ug/L	-265.227
	53 Cr	100.000000	3.472	110285.037	ug/L	46384.100
	61 Ni	100.000000	1.306	3936.740	ug/L	1493.825
	63 Cu	100.000000	0.224	115050.338	ug/L	83.335
	67 Zn	100.000000	1.405	5658.034	ug/L	1263.351
	66 Zn	100.000000	0.360	26936.024	ug/L	1457.467
	76 Se	100.000000	35.346	-158040.529	ug/L	-161893.608
	77 Se	100.000000	2.398	18224.922	ug/L	7470.402
	78 Se	100.000000	0.349	46113.436	ug/L	12809.738

	79 Br	100.000000	5.274	134261.290	ug/L	41402.874
>	72 Ge			1175873.942	ug/L	1189136.614
	108 Cd	100.000000	0.487	10038.665	ug/L	5.532
	114 Cd	100.000000	1.172	349997.538	ug/L	139.686
	109 Ag	50.000000	1.269	118837.186	ug/L	37.667
>	115 In			1415030.168	ug/L	1447436.345
	208 207.977	100.000000	1.215	1466282.760	ug/L	532.689
	207 Pb	100.000000	0.874	606187.421	ug/L	205.670
	206 Pb	100.000000	0.591	794159.924	ug/L	250.005
>	169 Tm			1463921.714	ug/L	1485663.579

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	
Tl	205	
Pb	208	
> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	
Cd	108	
Cd	114	
Ag	109	
> In	115	
207.977	208	

	Pb	207
	Pb	206
L>	Tm	169



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:25:14

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 2.013

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1191442.266	ug/L	1219505.239
> 6 Li-1			1014781.140	ug/L	1034155.415
9 Be	98.408276	0.460	26738.060	ug/L	3.333
11 B	498.862971	1.513	167113.876	ug/L	2105.685
27 Al	5100.429695	0.808	19207126.636	ug/L	121122.053
44 Ca	5092.724593	0.352	831233.934	ug/L	4031.278
51 V	99.173832	0.838	588154.132	ug/L	-10100.788
52 Cr	98.993348	0.396	539255.727	ug/L	18977.923
55 Mn	99.217803	0.301	874991.635	ug/L	2404.788
54 Fe	5046.326164	0.779	2190908.891	ug/L	64054.811
57 Fe	5063.998045	0.811	941067.857	ug/L	7859.972
59 Co	99.389342	0.633	707414.646	ug/L	198.336
60 Ni	99.922053	0.918	148589.886	ug/L	212.335
65 Cu	99.953315	0.844	151194.561	ug/L	111.493
68 Zn	99.437920	1.079	50814.266	ug/L	3034.819
75 As	99.227340	0.498	139527.384	ug/L	11323.472
82 Se	99.869991	1.544	15247.096	ug/L	1161.241
> 72 Ge-1			1169930.891	ug/L	1189136.614
107 Ag	49.586069	0.797	338489.378	ug/L	95.334
111 Cd	99.233380	0.543	144909.183	ug/L	44.104
121 Sb	49.670701	0.660	245020.667	ug/L	128.335
135 Ba	99.467869	0.260	164990.945	ug/L	149.002
> 115 In-1			1406701.417	ug/L	1447436.345
205 Tl	49.799396	2.193	1024454.331	ug/L	15021.408
208 Pb	99.254369	0.703	2841229.527	ug/L	988.364
> 169 Tm-1			1461813.523	ug/L	1485663.579
50 Cr	98.725891	0.215	11053.146	ug/L	-265.227
53 Cr	96.924884	1.917	107750.195	ug/L	46384.100
61 Ni	97.117636	1.574	3846.587	ug/L	1493.825
63 Cu	100.075983	0.722	114550.542	ug/L	83.335
67 Zn	97.383726	0.721	5515.352	ug/L	1263.351
66 Zn	99.988884	0.897	26797.070	ug/L	1457.467
76 Se	68.639254	59.305	-157877.524	ug/L	-161893.608
77 Se	96.581036	1.300	17764.344	ug/L	7470.402
78 Se	98.746131	1.322	45460.424	ug/L	12809.738

	79 Br	89.794442	2.184	124088.168	ug/L	41402.874
[>	72 Ge			1169930.891	ug/L	1189136.614
	108 Cd	98.903188	1.624	9869.610	ug/L	5.532
	114 Cd	99.427800	1.463	345962.415	ug/L	139.686
	109 Ag	49.636409	0.908	117292.306	ug/L	37.667
[>	115 In			1406701.417	ug/L	1447436.345
	208 207.977	99.162239	0.876	1451959.738	ug/L	532.689
	207 Pb	99.539211	0.913	602511.843	ug/L	205.670
	206 Pb	99.207057	0.293	786757.946	ug/L	250.005
[>	169 Tm			1461813.523	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	98.127
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
[> Ge-1	72	98.385
Ag	107	
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.186
Tl	205	
Pb	208	
[> Tm-1	169	98.395
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
[> Ge	72	98.385
Cd	108	
Cd	114	
Ag	109	
[> In	115	97.186
207.977	208	

	Pb	207	
	Pb	206	
[>	Tm	169	98.395

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 16:29:31

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 2.014

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1214088.171	ug/L	1219505.239
> 6 Li-1			1054187.385	ug/L	1034155.415
9 Be	0.013966	30.560	7.333	ug/L	3.333
11 B	0.235041	307.105	2228.394	ug/L	2105.685
27 Al	0.233979	100.940	121654.853	ug/L	121122.053
44 Ca	0.158131	159.220	4045.619	ug/L	4031.278
51 V	-0.148564	64.653	-10981.590	ug/L	-10100.788
52 Cr	0.090425	29.462	19404.206	ug/L	18977.923
55 Mn	0.010986	78.872	2495.823	ug/L	2404.788
54 Fe	0.314334	66.624	64002.703	ug/L	64054.811
57 Fe	0.383280	137.233	7909.037	ug/L	7859.972
59 Co	0.001973	22.790	212.004	ug/L	198.336
60 Ni	-0.006911	197.988	201.245	ug/L	212.335
65 Cu	0.003938	71.064	117.188	ug/L	111.493
68 Zn	0.008561	2304.853	3030.359	ug/L	3034.819
75 As	-0.025021	1177.375	11256.859	ug/L	11323.472
82 Se	-0.126883	58.796	1139.697	ug/L	1161.241
> 72 Ge-1			1185681.010	ug/L	1189136.614
107 Ag	0.000854	129.938	101.334	ug/L	95.334
111 Cd	0.001784	429.017	46.849	ug/L	44.104
121 Sb	0.003356	99.259	145.335	ug/L	128.335
135 Ba	0.004097	194.397	156.002	ug/L	149.002
> 115 In-1			1447859.436	ug/L	1447436.345
205 Tl	0.043023	337.227	16055.704	ug/L	15021.408
208 Pb	0.001038	162.413	1028.033	ug/L	988.364
> 169 Tm-1			1499479.869	ug/L	1485663.579
50 Cr	0.026190	174.368	-261.398	ug/L	-265.227
53 Cr	-1.401240	26.752	45338.943	ug/L	46384.100
61 Ni	-3.206694	76.375	1409.771	ug/L	1493.825
63 Cu	-0.002380	357.187	80.335	ug/L	83.335
67 Zn	-0.412638	277.451	1241.339	ug/L	1263.351
66 Zn	-0.015500	1031.111	1449.129	ug/L	1457.467
76 Se	-21.168025	162.867	-161861.468	ug/L	-161893.608
77 Se	-1.572777	13.295	7276.911	ug/L	7470.402
78 Se	0.301057	189.517	12874.152	ug/L	12809.738

79 Br	-2.925189	79.216	38526.284	ug/L	41402.874
> 72 Ge			1185681.010	ug/L	1189136.614
108 Cd	-0.021332	313.249	3.347	ug/L	5.532
114 Cd	-0.004820	49.780	122.503	ug/L	139.686
109 Ag	0.003687	61.268	46.667	ug/L	37.667
> 115 In			1447859.436	ug/L	1447436.345
208 207.977	0.000293	418.539	542.023	ug/L	532.689
207 Pb	0.001087	199.539	214.337	ug/L	205.670
206 Pb	0.002376	170.040	271.673	ug/L	250.005
> 169 Tm			1499479.869	ug/L	1485663.579

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	101.937
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	99.709
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.029
Tl	205	
Pb	208	
> Tm-1	169	100.930
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	99.709
Cd	108	
Cd	114	
Ag	109	
> In	115	100.029
207.977	208	

	Pb	207	
	Pb	206	
L>	Tm	169	100.930

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:15:50

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 3.025

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1157733.417	ug/L	1219505.239
>	6 Li-1			1085406.195	ug/L	1034155.415
	9 Be	93.426972	0.438	27151.136	ug/L	3.333
	11 B	451.205364	1.464	161888.595	ug/L	2105.685
	27 Al	4996.888808	0.552	18426594.537	ug/L	121122.053
	44 Ca	5051.527236	0.342	807329.923	ug/L	4031.278
	51 V	98.762946	0.295	573477.056	ug/L	-10100.788
	52 Cr	99.226404	0.325	529207.425	ug/L	18977.923
	55 Mn	100.054038	0.922	863925.942	ug/L	2404.788
	54 Fe	5174.173129	0.360	2198047.577	ug/L	64054.811
	57 Fe	5105.854118	0.380	929033.117	ug/L	7859.972
	59 Co	100.016692	0.173	697047.527	ug/L	198.336
	60 Ni	100.393580	0.376	146180.753	ug/L	212.335
	65 Cu	100.436842	0.021	148761.751	ug/L	111.493
	68 Zn	100.175175	0.713	50100.541	ug/L	3034.819
	75 As	98.049860	0.593	135123.922	ug/L	11323.472
	82 Se	100.475451	0.582	15014.252	ug/L	1161.241
>	72 Ge-1			1145496.938	ug/L	1189136.614
	107 Ag	48.563108	0.390	332888.692	ug/L	95.334
	111 Cd	97.644639	0.006	143182.776	ug/L	44.104
	121 Sb	49.137062	0.114	243400.180	ug/L	128.335
	135 Ba	96.873852	0.256	161356.760	ug/L	149.002
>	115 In-1			1412505.203	ug/L	1447436.345
	205 Tl	47.863443	1.033	993967.441	ug/L	15021.408
	208 Pb	96.125771	0.507	2775866.879	ug/L	988.364
>	169 Tm-1			1474597.104	ug/L	1485663.579
	50 Cr	100.448970	0.915	11015.841	ug/L	-265.227
	53 Cr	95.983231	2.934	104907.273	ug/L	46384.100
	61 Ni	92.908776	1.537	3665.287	ug/L	1493.825
	63 Cu	100.692348	0.693	112855.274	ug/L	83.335
	67 Zn	96.377102	1.329	5356.639	ug/L	1263.351
	66 Zn	100.163511	1.117	26280.070	ug/L	1457.467
	76 Se	43.483162	81.012	-155080.958	ug/L	-161893.608
	77 Se	94.274211	3.751	17149.835	ug/L	7470.402
	78 Se	98.203403	0.654	44336.738	ug/L	12809.738

79 Br	33.267998	18.147	70096.831	ug/L	41402.874
> 72 Ge			1145496.938	ug/L	1189136.614
108 Cd	97.830657	0.317	9803.605	ug/L	5.532
114 Cd	97.865967	0.485	341966.308	ug/L	139.686
109 Ag	48.611555	0.528	115350.211	ug/L	37.667
> 115 In			1412505.203	ug/L	1447436.345
208 207.977	96.717968	0.470	1428635.492	ug/L	532.689
207 Pb	95.598665	0.266	583762.091	ug/L	205.670
206 Pb	95.434714	0.786	763469.295	ug/L	250.005
> 169 Tm			1474597.104	ug/L	1485663.579

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	104.956
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	96.330
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	97.587
Tl	205	
Pb	208	
> Tm-1	169	99.255
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	96.330
Cd	108	
Cd	114	
Ag	109	
> In	115	97.587
207.977	208	



	Pb	207	
	Pb	206	
L>	Tm	169	99.255

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:20:07

Method File: E:\elandata\Method\000-USGS-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 3.026

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1193027.589	ug/L	1219505.239
> 6 Li-1			1075596.389	ug/L	1034155.415
9 Be	0.000697	765.877	3.667	ug/L	3.333
11 B	2.569160	57.231	3088.095	ug/L	2105.685
27 Al	-0.075216	288.408	119370.924	ug/L	121122.053
44 Ca	1.230494	6.300	4183.041	ug/L	4031.278
51 V	0.007958	2914.695	-9927.621	ug/L	-10100.788
52 Cr	0.229236	24.489	19958.925	ug/L	18977.923
55 Mn	-0.001607	62.364	2361.438	ug/L	2404.788
54 Fe	4.014425	22.761	64977.773	ug/L	64054.811
57 Fe	-0.764825	31.859	7623.167	ug/L	7859.972
59 Co	0.004536	60.491	228.337	ug/L	198.336
60 Ni	0.011336	140.466	226.634	ug/L	212.335
65 Cu	0.007331	66.743	121.262	ug/L	111.493
68 Zn	0.129826	54.068	3060.615	ug/L	3034.819
75 As	-0.240332	143.444	10874.007	ug/L	11323.472
82 Se	-0.110185	82.660	1131.566	ug/L	1161.241
> 72 Ge-1			1174711.355	ug/L	1189136.614
107 Ag	0.001593	38.825	107.001	ug/L	95.334
111 Cd	0.003949	193.593	50.250	ug/L	44.104
121 Sb	0.016835	34.642	214.670	ug/L	128.335
135 Ba	0.009140	97.959	165.335	ug/L	149.002
> 115 In-1			1454130.069	ug/L	1447436.345
205 Tl	0.087853	272.073	17200.198	ug/L	15021.408
208 Pb	0.004250	28.499	1136.372	ug/L	988.364
> 169 Tm-1			1518270.267	ug/L	1485663.579
50 Cr	0.261721	48.131	-231.936	ug/L	-265.227
53 Cr	-5.818895	7.034	42077.323	ug/L	46384.100
61 Ni	-6.105052	40.274	1325.720	ug/L	1493.825
63 Cu	0.006717	173.784	90.002	ug/L	83.335
67 Zn	-1.746233	81.174	1170.969	ug/L	1263.351
66 Zn	0.149351	138.768	1477.814	ug/L	1457.467
76 Se	-96.933511	58.584	-161918.245	ug/L	-161893.608
77 Se	-4.025820	4.578	6943.984	ug/L	7470.402
78 Se	0.300115	160.073	12754.569	ug/L	12809.738

	79 Br	-2.444829	223.968	38610.044	ug/L	41402.874
>	72 Ge			1174711.355	ug/L	1189136.614
	108 Cd	-0.012050	385.946	4.322	ug/L	5.532
	114 Cd	0.002017	247.818	147.593	ug/L	139.686
	109 Ag	0.001567	92.190	41.667	ug/L	37.667
>	115 In			1454130.069	ug/L	1447436.345
	208 207.977	0.002301	77.117	579.360	ug/L	532.689
	207 Pb	0.005115	78.408	242.338	ug/L	205.670
	206 Pb	0.007186	34.335	314.674	ug/L	250.005
>	169 Tm			1518270.267	ug/L	1485663.579

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	104.007
Be	9	
B	11	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
> Ge-1	72	98.787
Ag	107	
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.462
Tl	205	
Pb	208	
> Tm-1	169	102.195
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	98.787
Cd	108	
Cd	114	
Ag	109	
> In	115	100.462
	207.977	208

	Pb	207	
	Pb	206	
>	Tm	169	102.195

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:24:26

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 4.027

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5309.403332	0.685	19517242.775	ug/L	121122.053
44 Ca	5217.162795	0.807	831352.945	ug/L	4031.278
52 Cr	100.394054	0.452	533725.954	ug/L	18977.923
55 Mn	100.612919	0.788	866304.763	ug/L	2404.788
59 Co	100.040359	0.510	695255.126	ug/L	198.336
60 Ni	100.486807	0.511	145908.466	ug/L	212.335
65 Cu	100.750277	0.395	148808.550	ug/L	111.493
75 As	99.448600	1.149	136512.649	ug/L	11323.472
> 72 Ge-1			1142316.241	ug/L	1189136.614
111 Cd	98.258271	1.311	144123.191	ug/L	44.104
> 115 In-1			1413063.991	ug/L	1447436.345
208 Pb	97.074166	0.593	2825987.571	ug/L	988.364
> 169 Tm-1			1486586.295	ug/L	1485663.579
50 Cr	110.210088	2.903	12075.836	ug/L	-265.227
53 Cr	-11.917154	1.645	37102.075	ug/L	46384.100
61 Ni	96.790703	0.305	3747.754	ug/L	1493.825
63 Cu	100.732577	0.984	112580.652	ug/L	83.335
> 72 Ge			1142316.241	ug/L	1189136.614
108 Cd	97.637840	0.876	9787.614	ug/L	5.532
114 Cd	98.707609	1.111	345010.895	ug/L	139.686
> 115 In			1413063.991	ug/L	1447436.345
208 207.977	97.502716	0.852	1451889.714	ug/L	532.689
207 Pb	96.788484	0.427	595820.525	ug/L	205.670
206 Pb	96.500983	0.265	778277.331	ug/L	250.005
> 169 Tm			1486586.295	ug/L	1485663.579

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

>	Ge-1	72	96.063
	Cd	111	
>	In-1	115	97.625
	Pb	208	
>	Tm-1	169	100.062
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
>	Ge	72	96.063
	Cd	108	
	Cd	114	
>	In	115	97.625
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.062

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:27:55

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 4.028

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	1.410512	18.059	124544.608	ug/L	121122.053
44 Ca	-1.181786	31.474	3777.121	ug/L	4031.278
52 Cr	0.167283	34.699	19566.035	ug/L	18977.923
55 Mn	-0.007981	26.963	2297.748	ug/L	2404.788
59 Co	0.005569	24.122	235.004	ug/L	198.336
60 Ni	-0.004823	85.162	201.882	ug/L	212.335
65 Cu	0.006135	312.178	118.928	ug/L	111.493
75 As	0.175446	147.400	11375.461	ug/L	11323.472
> 72 Ge-1			1170915.736	ug/L	1189136.614
111 Cd	0.008603	128.644	57.988	ug/L	44.104
> 115 In-1			1469510.974	ug/L	1447436.345
208 Pb	0.002891	49.494	1119.705	ug/L	988.364
> 169 Tm-1			1551139.714	ug/L	1485663.579
50 Cr	1.806941	13.506	-54.030	ug/L	-265.227
53 Cr	-48.789141	0.729	14383.373	ug/L	46384.100
61 Ni	-4.489191	75.558	1361.409	ug/L	1493.825
63 Cu	0.008096	33.063	91.335	ug/L	83.335
> 72 Ge			1170915.736	ug/L	1189136.614
108 Cd	0.015078	161.064	7.199	ug/L	5.532
114 Cd	0.000727	741.638	144.608	ug/L	139.686
> 115 In			1469510.974	ug/L	1447436.345
208 207.977	0.002179	8.215	590.027	ug/L	532.689
207 Pb	0.001749	216.739	226.004	ug/L	205.670
206 Pb	0.005077	52.390	303.674	ug/L	250.005
> 169 Tm			1551139.714	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

>	Ge-1	72	98.468
	Cd	111	
>	In-1	115	101.525
	Pb	208	
>	Tm-1	169	104.407
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
>	Ge	72	98.468
	Cd	108	
	Cd	114	
>	In	115	101.525
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.407



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:31:25

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 5.029

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5235.514436	1.368	19424359.874	ug/L	121122.053
44 Ca	5170.830566	1.203	831581.849	ug/L	4031.278
52 Cr	99.955811	0.996	536373.187	ug/L	18977.923
55 Mn	100.291037	1.092	871506.683	ug/L	2404.788
59 Co	99.685828	1.382	699153.312	ug/L	198.336
60 Ni	100.172756	0.996	146793.834	ug/L	212.335
65 Cu	100.547412	0.688	149881.824	ug/L	111.493
75 As	98.549737	1.326	136624.226	ug/L	11323.472
> 72 Ge-1			1152926.909	ug/L	1189136.614
111 Cd	97.905646	0.518	144790.130	ug/L	44.104
> 115 In-1			1424602.205	ug/L	1447436.345
208 Pb	96.626882	0.848	2849837.855	ug/L	988.364
> 169 Tm-1			1506140.530	ug/L	1485663.579
50 Cr	109.645077	3.290	12122.286	ug/L	-265.227
53 Cr	-12.580910	5.334	37025.183	ug/L	46384.100
61 Ni	93.034263	1.256	3691.997	ug/L	1493.825
63 Cu	100.398646	1.278	113241.983	ug/L	83.335
> 72 Ge			1152926.909	ug/L	1189136.614
108 Cd	97.968750	2.012	9899.990	ug/L	5.532
114 Cd	98.105599	1.266	345708.895	ug/L	139.686
> 115 In			1424602.205	ug/L	1447436.345
208 207.977	97.045069	0.701	1464054.734	ug/L	532.689
207 Pb	96.089192	1.132	599251.105	ug/L	205.670
206 Pb	96.265182	0.928	786532.016	ug/L	250.005
> 169 Tm			1506140.530	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

[>	Ge-1	72	96.955
[	Cd	111	
[>	In-1	115	98.422
[	Pb	208	
[>	Tm-1	169	101.378
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
[>	Ge	72	96.955
[	Cd	108	
	Cd	114	
[>	In	115	98.422
[	207.977	208	
	Pb	207	
	Pb	206	
[>	Tm	169	101.378

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 17:34:54

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 5.030

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	1.714439	11.560	125287.721	ug/L	121122.053
44 Ca	-0.608317	25.043	3858.169	ug/L	4031.278
52 Cr	0.280386	7.643	20098.691	ug/L	18977.923
55 Mn	-0.003071	258.712	2333.428	ug/L	2404.788
59 Co	0.002303	73.219	211.004	ug/L	198.336
60 Ni	0.000352	5769.541	208.882	ug/L	212.335
65 Cu	0.006103	75.502	118.621	ug/L	111.493
75 As	-0.169468	143.270	10895.359	ug/L	11323.472
> 72 Ge-1			1167171.730	ug/L	1189136.614
111 Cd	0.003550	117.400	49.941	ug/L	44.104
> 115 In-1			1461289.986	ug/L	1447436.345
208 Pb	0.001503	76.221	1061.368	ug/L	988.364
> 169 Tm-1			1528297.923	ug/L	1485663.579
50 Cr	1.795750	5.870	-55.048	ug/L	-265.227
53 Cr	-48.148425	0.538	14747.696	ug/L	46384.100
61 Ni	-4.063328	21.353	1367.078	ug/L	1493.825
63 Cu	0.007490	41.428	90.335	ug/L	83.335
> 72 Ge			1167171.730	ug/L	1189136.614
108 Cd	-0.011755	215.965	4.358	ug/L	5.532
114 Cd	-0.003778	86.189	127.406	ug/L	139.686
> 115 In			1461289.986	ug/L	1447436.345
208 207.977	0.000906	272.632	561.692	ug/L	532.689
207 Pb	0.000560	394.737	215.004	ug/L	205.670
206 Pb	0.003323	44.744	284.673	ug/L	250.005
> 169 Tm			1528297.923	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

↳	Ge-1	72	98.153
	Cd	111	
↳	In-1	115	100.957
	Pb	208	
↳	Tm-1	169	102.870
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
↳	Ge	72	98.153
	Cd	108	
	Cd	114	
↳	In	115	100.957
	207.977	208	
	Pb	207	
	Pb	206	
↳	Tm	169	102.870

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

Analyst: SHargrave

**Sample ID: CCV 6**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:02:16

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 6.038

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5314.044877	1.942	19744231.553	ug/L	121122.053
44 Ca	5161.544436	1.791	831369.087	ug/L	4031.278
52 Cr	100.154569	1.610	538228.209	ug/L	18977.923
55 Mn	100.123686	1.358	871419.248	ug/L	2404.788
59 Co	98.717003	1.310	693466.715	ug/L	198.336
60 Ni	99.018121	1.456	145329.788	ug/L	212.335
65 Cu	99.535980	1.140	148606.214	ug/L	111.493
75 As	98.233086	1.262	136438.536	ug/L	11323.472
> 72 Ge-1			1154771.259	ug/L	1189136.614
111 Cd	96.735461	1.202	143995.457	ug/L	44.104
> 115 In-1			1434059.611	ug/L	1447436.345
208 Pb	94.984815	1.900	2777990.900	ug/L	988.364
> 169 Tm-1			1493686.927	ug/L	1485663.579
50 Cr	110.102907	3.645	12197.886	ug/L	-265.227
53 Cr	-11.814675	2.296	37569.671	ug/L	46384.100
61 Ni	94.966847	2.216	3744.082	ug/L	1493.825
63 Cu	99.325655	1.292	112211.407	ug/L	83.335
> 72 Ge			1154771.259	ug/L	1189136.614
108 Cd	97.090882	1.688	9877.407	ug/L	5.532
114 Cd	97.336805	1.587	345250.231	ug/L	139.686
> 115 In			1434059.611	ug/L	1447436.345
208 207.977	95.630351	2.035	1430615.252	ug/L	532.689
207 Pb	94.395909	2.030	583776.492	ug/L	205.670
206 Pb	94.242449	1.581	763599.155	ug/L	250.005
> 169 Tm			1493686.927	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

↳	Ge-1	72	97.110
└	Cd	111	
↳	In-1	115	99.076
└	Pb	208	
↳	Tm-1	169	100.540
└	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
↳	Ge	72	97.110
└	Cd	108	
	Cd	114	
↳	In	115	99.076
└	207.977	208	
	Pb	207	
	Pb	206	
↳	Tm	169	100.540

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 6

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:05:46

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 6.039

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	1.449403	19.002	123939.972	ug/L	121122.053
44 Ca	0.912019	122.819	4093.986	ug/L	4031.278
52 Cr	0.417061	10.904	20756.466	ug/L	18977.923
55 Mn	-0.001201	298.449	2343.098	ug/L	2404.788
59 Co	0.003982	25.375	222.337	ug/L	198.336
60 Ni	0.004708	108.441	214.807	ug/L	212.335
65 Cu	0.011760	36.328	126.777	ug/L	111.493
75 As	-0.066754	419.542	10997.409	ug/L	11323.472
> 72 Ge-1			1163876.891	ug/L	1189136.614
111 Cd	0.002286	259.698	47.748	ug/L	44.104
> 115 In-1			1453468.260	ug/L	1447436.345
208 Pb	0.004424	56.059	1142.040	ug/L	988.364
> 169 Tm-1			1518863.005	ug/L	1485663.579
50 Cr	1.714317	2.504	-64.133	ug/L	-265.227
53 Cr	-48.308067	1.247	14606.489	ug/L	46384.100
61 Ni	-3.453379	44.719	1378.085	ug/L	1493.825
63 Cu	0.004201	38.546	86.335	ug/L	83.335
> 72 Ge			1163876.891	ug/L	1189136.614
108 Cd	0.005310	1348.915	6.112	ug/L	5.532
114 Cd	0.001175	189.310	144.499	ug/L	139.686
> 115 In			1453468.260	ug/L	1447436.345
208 207.977	0.003206	77.160	593.361	ug/L	532.689
207 Pb	0.004991	34.793	241.671	ug/L	205.670
206 Pb	0.006239	52.954	307.007	ug/L	250.005
> 169 Tm			1518863.005	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

>	Ge-1	72	97.876
	Cd	111	
>	In-1	115	100.417
	Pb	208	
>	Tm-1	169	102.235
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
>	Ge	72	97.876
	Cd	108	
	Cd	114	
>	In	115	100.417
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.235



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001  
 Analyst: SHargrave

Sample ID: CCV 7

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:26:22

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 7.045

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5378.996167	1.226	20659229.278	ug/L	121122.053
44 Ca	5247.942210	0.491	873791.301	ug/L	4031.278
52 Cr	101.583905	0.364	564075.077	ug/L	18977.923
55 Mn	101.414005	0.564	912402.065	ug/L	2404.788
59 Co	101.139459	0.126	734462.207	ug/L	198.336
60 Ni	101.892410	0.269	154590.053	ug/L	212.335
65 Cu	102.122938	0.219	157606.693	ug/L	111.493
75 As	99.525303	0.573	142744.148	ug/L	11323.472
> 72 Ge-1			1193589.240	ug/L	1189136.614
111 Cd	99.127115	0.410	148579.045	ug/L	44.104
> 115 In-1			1443831.457	ug/L	1447436.345
208 Pb	96.164992	0.261	2871031.390	ug/L	988.364
> 169 Tm-1			1524521.511	ug/L	1485663.579
50 Cr	110.728232	2.403	12680.021	ug/L	-265.227
53 Cr	-10.560435	3.933	39654.998	ug/L	46384.100
61 Ni	94.936720	3.952	3869.961	ug/L	1493.825
63 Cu	102.160003	0.299	119305.449	ug/L	83.335
> 72 Ge			1193589.240	ug/L	1189136.614
108 Cd	99.316054	0.339	10173.113	ug/L	5.532
114 Cd	99.793674	0.242	356433.856	ug/L	139.686
> 115 In			1443831.457	ug/L	1447436.345
208 207.977	96.717543	0.314	1477002.746	ug/L	532.689
207 Pb	95.813931	0.163	604884.695	ug/L	205.670
206 Pb	95.412761	0.347	789143.950	ug/L	250.005
> 169 Tm			1524521.511	ug/L	1485663.579

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

>	Ge-1	72	100.374
	Cd	111	
>	In-1	115	99.751
	Pb	208	
>	Tm-1	169	102.616
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
>	Ge	72	100.374
	Cd	108	
	Cd	114	
>	In	115	99.751
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.616

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001  
 Analyst: SHargrave

Sample ID: CCB 7

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:29:51

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 7.046

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	0.808016	20.767	126156.939	ug/L	121122.053
44 Ca	0.546387	119.577	4186.711	ug/L	4031.278
52 Cr	0.174205	23.508	20223.420	ug/L	18977.923
55 Mn	-0.001394	286.577	2430.131	ug/L	2404.788
59 Co	0.008376	31.489	263.005	ug/L	198.336
60 Ni	0.004828	204.862	223.122	ug/L	212.335
65 Cu	0.011896	11.481	131.816	ug/L	111.493
75 As	-0.054196	799.453	11428.737	ug/L	11323.472
> 72 Ge-1			1207912.017	ug/L	1189136.614
111 Cd	0.008612	38.473	58.797	ug/L	44.104
> 115 In-1			1491801.688	ug/L	1447436.345
208 Pb	0.004623	38.956	1184.711	ug/L	988.364
> 169 Tm-1			1567846.364	ug/L	1485663.579
50 Cr	1.894675	4.994	-45.252	ug/L	-265.227
53 Cr	-49.051937	0.258	14665.165	ug/L	46384.100
61 Ni	-5.289874	18.171	1383.755	ug/L	1493.825
63 Cu	0.018658	66.026	106.669	ug/L	83.335
> 72 Ge			1207912.017	ug/L	1189136.614
108 Cd	0.012485	227.211	7.050	ug/L	5.532
114 Cd	0.001806	153.518	150.572	ug/L	139.686
> 115 In			1491801.688	ug/L	1447436.345
208 207.977	0.005354	55.068	646.033	ug/L	532.689
207 Pb	0.003891	117.977	242.338	ug/L	205.670
206 Pb	0.003831	53.966	296.340	ug/L	250.005
> 169 Tm			1567846.364	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

↳	Ge-1	72	101.579
↳	Cd	111	
↳	In-1	115	103.065
↳	Pb	208	
↳	Tm-1	169	105.532
↳	Cr	50	
↳	Cr	53	
↳	Ni	61	
↳	Cu	63	
↳	Ge	72	101.579
↳	Cd	108	
↳	Cd	114	
↳	In	115	103.065
↳	207.977	208	
↳	Pb	207	
↳	Pb	206	
↳	Tm	169	105.532

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001  
 Analyst: SHargrave

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:33:21

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 8.047

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5300.758173	0.817	20368044.390	ug/L	121122.053
44 Ca	5198.178211	0.407	865847.904	ug/L	4031.278
52 Cr	100.632734	0.918	559160.994	ug/L	18977.923
55 Mn	100.909888	1.096	908180.567	ug/L	2404.788
59 Co	100.318667	0.348	728768.315	ug/L	198.336
60 Ni	100.868127	0.943	153089.515	ug/L	212.335
65 Cu	101.180928	0.299	156211.407	ug/L	111.493
75 As	99.052063	0.179	142176.295	ug/L	11323.472
> 72 Ge-1			1194035.970	ug/L	1189136.614
111 Cd	98.587091	0.280	149020.564	ug/L	44.104
> 115 In-1			1456056.508	ug/L	1447436.345
208 Pb	95.857548	0.216	2878315.151	ug/L	988.364
> 169 Tm-1			1533284.253	ug/L	1485663.579
50 Cr	112.606916	1.383	12903.341	ug/L	-265.227
53 Cr	-11.496111	2.645	39057.092	ug/L	46384.100
61 Ni	94.509057	2.054	3860.610	ug/L	1493.825
63 Cu	101.349023	0.761	118399.450	ug/L	83.335
> 72 Ge			1194035.970	ug/L	1189136.614
108 Cd	96.738560	0.181	9993.079	ug/L	5.532
114 Cd	98.477108	0.152	354710.340	ug/L	139.686
> 115 In			1456056.508	ug/L	1447436.345
208 207.977	96.145386	0.487	1476709.920	ug/L	532.689
207 Pb	95.833573	0.374	608483.933	ug/L	205.670
206 Pb	95.344408	0.366	793121.298	ug/L	250.005
> 169 Tm			1533284.253	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

↳	Ge-1	72	100.412
	Cd	111	
↳	In-1	115	100.596
	Pb	208	
↳	Tm-1	169	103.205
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
↳	Ge	72	100.412
	Cd	108	
	Cd	114	
↳	In	115	100.596
	207,977	208	
	Pb	207	
	Pb	206	
↳	Tm	169	103.205

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 8

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:36:51

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 8 .048

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	0.916027	71.376	126295.445	ug/L	121122.053
44 Ca	1.032652	46.371	4258.758	ug/L	4031.278
52 Cr	0.231104	11.751	20489.269	ug/L	18977.923
55 Mn	0.001377	428.644	2450.138	ug/L	2404.788
59 Co	0.007637	11.916	257.005	ug/L	198.336
60 Ni	0.011939	79.584	233.443	ug/L	212.335
65 Cu	0.004623	314.145	120.296	ug/L	111.493
75 As	-0.366492	123.658	10988.106	ug/L	11323.472
> 72 Ge-1			1205343.197	ug/L	1189136.614
111 Cd	0.010657	109.661	61.990	ug/L	44.104
> 115 In-1			1491181.086	ug/L	1447436.345
208 Pb	0.005785	18.458	1222.379	ug/L	988.364
> 169 Tm-1			1570125.654	ug/L	1485663.579
50 Cr	1.804633	2.854	-55.771	ug/L	-265.227
53 Cr	-48.921541	0.474	14720.527	ug/L	46384.100
61 Ni	-5.138958	40.263	1384.756	ug/L	1493.825
63 Cu	0.009782	44.959	96.002	ug/L	83.335
> 72 Ge			1205343.197	ug/L	1189136.614
108 Cd	-0.044612	142.291	0.952	ug/L	5.532
114 Cd	0.000818	213.653	146.948	ug/L	139.686
> 115 In			1491181.086	ug/L	1447436.345
208 207.977	0.004795	8.459	638.365	ug/L	532.689
207 Pb	0.005176	59.061	251.005	ug/L	205.670
206 Pb	0.008079	15.601	333.009	ug/L	250.005
> 169 Tm			1570125.654	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

↳	Ge-1	72	101.363
	Cd	111	
↳	In-1	115	103.022
	Pb	208	
↳	Tm-1	169	105.685
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
↳	Ge	72	101.363
	Cd	108	
	Cd	114	
↳	In	115	103.022
	207.977	208	
	Pb	207	
	Pb	206	
↳	Tm	169	105.685



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 9

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:50:54

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 9.051

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5082.367701	0.828	18803623.948	ug/L	121122.053
44 Ca	5129.128088	0.582	822467.309	ug/L	4031.278
52 Cr	99.932534	0.454	534656.064	ug/L	18977.923
55 Mn	101.162663	0.818	876443.912	ug/L	2404.788
59 Co	99.020431	1.034	692436.152	ug/L	198.336
60 Ni	99.154615	1.049	144869.104	ug/L	212.335
65 Cu	99.277341	1.103	147542.542	ug/L	111.493
75 As	99.028254	0.680	136828.276	ug/L	11323.472
> 72 Ge-1			1149405.779	ug/L	1189136.614
111 Cd	98.856965	0.966	144576.688	ug/L	44.104
> 115 In-1			1408843.876	ug/L	1447436.345
208 Pb	95.169722	1.163	2707746.915	ug/L	988.364
> 169 Tm-1			1452916.346	ug/L	1485663.579
50 Cr	114.522609	0.281	12637.501	ug/L	-265.227
53 Cr	-9.893151	4.746	38606.838	ug/L	46384.100
61 Ni	98.493925	1.267	3811.861	ug/L	1493.825
63 Cu	99.534371	1.015	111934.946	ug/L	83.335
> 72 Ge			1149405.779	ug/L	1189136.614
108 Cd	99.547565	1.762	9949.124	ug/L	5.532
114 Cd	99.253569	1.119	345891.580	ug/L	139.686
> 115 In			1408843.876	ug/L	1447436.345
208 207.977	95.020145	1.473	1382859.115	ug/L	532.689
207 Pb	95.393661	0.582	573931.516	ug/L	205.670
206 Pb	95.274960	1.165	750956.285	ug/L	250.005
> 169 Tm			1452916.346	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

[>	Ge-1	72	96.659
[	Cd	111	
[>	In-1	115	97.334
[	Pb	208	
[>	Tm-1	169	97.796
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
[>	Ge	72	96.659
[	Cd	108	
	Cd	114	
[>	In	115	97.334
[	207.977	208	
	Pb	207	
	Pb	206	
[>	Tm	169	97.796

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 9

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:54:24

Method File: E:\elandata\Method\000-B&C.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 9.052

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	1.198662	18.071	123752.403	ug/L	121122.053
44 Ca	-1.906532	19.493	3659.385	ug/L	4031.278
52 Cr	-0.137677	15.898	17962.316	ug/L	18977.923
55 Mn	0.007487	164.767	2433.799	ug/L	2404.788
59 Co	0.011616	9.455	278.006	ug/L	198.336
60 Ni	0.000148	10332.908	209.277	ug/L	212.335
65 Cu	0.008777	133.226	123.018	ug/L	111.493
75 As	0.074542	135.134	11246.547	ug/L	11323.472
> 72 Ge-1			1170890.013	ug/L	1189136.614
111 Cd	0.011131	40.285	60.592	ug/L	44.104
> 115 In-1			1442097.936	ug/L	1447436.345
208 Pb	0.005190	11.004	1150.375	ug/L	988.364
> 169 Tm-1			1500176.488	ug/L	1485663.579
50 Cr	1.793756	9.709	-55.442	ug/L	-265.227
53 Cr	-46.217086	0.175	16033.694	ug/L	46384.100
61 Ni	0.132339	544.630	1474.145	ug/L	1493.825
63 Cu	0.022361	26.494	107.669	ug/L	83.335
> 72 Ge			1170890.013	ug/L	1189136.614
108 Cd	-0.026094	83.063	2.840	ug/L	5.532
114 Cd	0.003422	174.807	151.345	ug/L	139.686
> 115 In			1442097.936	ug/L	1447436.345
208 207.977	0.005267	5.450	617.030	ug/L	532.689
207 Pb	0.005636	45.906	242.671	ug/L	205.670
206 Pb	0.004705	61.387	290.673	ug/L	250.005
> 169 Tm			1500176.488	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
As	75	

>	Ge-1	72	98.466
	Cd	111	
>	In-1	115	99.631
	Pb	208	
>	Tm-1	169	100.977
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
>	Ge	72	98.466
	Cd	108	
	Cd	114	
>	In	115	99.631
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.977

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 10

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:57:53

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 10.053

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1170572.132	ug/L	0.000
[>	6 Li-1			1074267.758	ug/L	0.000
[	9 Be			26837.473	ug/L	0.000
[	44 Ca	5064.719520	0.291	816188.406	ug/L	4031.278
	52 Cr	100.156069	0.323	538442.283	ug/L	18977.923
	55 Mn	100.647083	0.097	876286.353	ug/L	2404.788
	60 Ni	99.528377	0.022	146132.329	ug/L	212.335
	65 Cu	99.368748	0.119	148407.393	ug/L	111.493
	68 Zn			50232.677	ug/L	0.000
[>	72 Ge-1			1155045.035	ug/L	1189136.614
[	111 Cd	97.197892	0.828	142798.172	ug/L	44.104
	121 Sb			242641.118	ug/L	0.000
	135 Ba			160884.014	ug/L	0.000
[>	115 In-1			1415176.355	ug/L	1447436.345
[	208 Pb	94.472438	0.499	2778659.444	ug/L	988.364
[>	169 Tm-1			1501918.038	ug/L	1485663.579
[	50 Cr	111.595680	2.867	12367.372	ug/L	-265.227
	53 Cr	-10.087341	10.942	38674.034	ug/L	46384.100
	61 Ni	99.905321	2.862	3864.951	ug/L	1493.825
	63 Cu	99.923935	0.617	112925.479	ug/L	83.335
	67 Zn			5456.209	ug/L	0.000
	66 Zn			26337.057	ug/L	0.000
[>	72 Ge			1155045.035	ug/L	1189136.614
[	108 Cd	97.379021	1.176	9776.742	ug/L	5.532
	114 Cd	97.744556	0.511	342190.052	ug/L	139.686
[>	115 In			1415176.355	ug/L	1447436.345
[	208 207.977	95.255151	0.816	1433072.446	ug/L	532.689
	207 Pb	93.789098	0.343	583324.799	ug/L	205.670
	206 Pb	93.548878	0.175	762262.199	ug/L	250.005
[>	169 Tm			1501918.038	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	
[ Be	9	

	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	97.133
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.771
	Pb	208	
>	Tm-1	169	101.094
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.133
	Cd	108	
	Cd	114	
>	In	115	97.771
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.094

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 10

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:01:27

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 10.054

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1205738.109	ug/L	0.000
[>	6 Li-1			1099244.140	ug/L	0.000
[	9 Be			6.000	ug/L	0.000
[	44 Ca	-1.119329	67.368	3832.488	ug/L	4031.278
	52 Cr	-0.023710	261.663	18784.691	ug/L	18977.923
	55 Mn	0.004218	50.049	2433.799	ug/L	2404.788
	60 Ni	0.002892	268.741	215.904	ug/L	212.335
	65 Cu	0.011934	71.365	129.333	ug/L	111.493
	68 Zn			2957.387	ug/L	0.000
[>	72 Ge-1			1184928.862	ug/L	1189136.614
[	111 Cd	0.013797	32.081	65.381	ug/L	44.104
	121 Sb			162.669	ug/L	0.000
	135 Ba			177.002	ug/L	0.000
[>	115 In-1			1459062.274	ug/L	1447436.345
[	208 Pb	0.006197	8.881	1212.712	ug/L	988.364
[>	169 Tm-1			1541729.238	ug/L	1485663.579
[	50 Cr	1.900103	5.521	-43.784	ug/L	-265.227
	53 Cr	-46.143272	0.754	16273.054	ug/L	46384.100
	61 Ni	-2.968551	92.663	1414.774	ug/L	1493.825
	63 Cu	0.010609	17.863	95.335	ug/L	83.335
	67 Zn			1252.011	ug/L	0.000
	66 Zn			1450.463	ug/L	0.000
[>	72 Ge			1184928.862	ug/L	1189136.614
[	108 Cd	-0.015492	128.868	3.963	ug/L	5.532
	114 Cd	0.002100	250.146	148.458	ug/L	139.686
[>	115 In			1459062.274	ug/L	1447436.345
[	208 207.977	0.005521	7.707	638.032	ug/L	532.689
	207 Pb	0.005835	39.206	250.672	ug/L	205.670
	206 Pb	0.007721	22.206	324.008	ug/L	250.005
[>	169 Tm			1541729.238	ug/L	1485663.579

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	
[ Be	9	

	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	99.646
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.803
	Pb	208	
>	Tm-1	169	103.774
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.646
	Cd	108	
	Cd	114	
>	In	115	100.803
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.774



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: BLK RECAL

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:01:27

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 10.054

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1205738.109	ug/L	
> 6 Li-1			1099244.140	ug/L	
9 Be			6.000	ug/L	
44 Ca			3832.488	ug/L	
52 Cr			18784.691	ug/L	
55 Mn			2433.799	ug/L	
60 Ni			215.904	ug/L	
65 Cu			129.333	ug/L	
68 Zn			2957.387	ug/L	
> 72 Ge-1			1184928.862	ug/L	
111 Cd			65.381	ug/L	
121 Sb			162.669	ug/L	
135 Ba			177.002	ug/L	
> 115 In-1			1459062.274	ug/L	
208 Pb			1212.712	ug/L	
> 169 Tm-1			1541729.238	ug/L	
50 Cr			-43.784	ug/L	
53 Cr			16273.054	ug/L	
61 Ni			1414.774	ug/L	
63 Cu			95.335	ug/L	
67 Zn			1252.011	ug/L	
66 Zn			1450.463	ug/L	
> 72 Ge			1184928.862	ug/L	
108 Cd			3.963	ug/L	
114 Cd			148.458	ug/L	
> 115 In			1459062.274	ug/L	
208 207.977			638.032	ug/L	
207 Pb			250.672	ug/L	
206 Pb			324.008	ug/L	
> 169 Tm			1541729.238	ug/L	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	
Be	9	

[	Ca	44
	Cr	52
	Mn	55
	Ni	60
	Cu	65
	Zn	68
>	Ge-1	72
[	Cd	111
	Sb	121
	Ba	135
>	In-1	115
[	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
[	Cd	108
	Cd	114
>	In	115
[	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 18:57:53

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 10.053

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1170572.132	ug/L	1205738.109
[> 6 Li-1			1074267.758	ug/L	1099244.140
[ 9 Be	100.000000	0.383	26837.473	ug/L	6.000
[ 44 Ca	5100.000000	0.291	816188.406	ug/L	3832.488
[ 52 Cr	100.000000	0.323	538442.283	ug/L	18784.691
[ 55 Mn	100.000000	0.097	876286.353	ug/L	2433.799
[ 60 Ni	100.000000	0.022	146132.329	ug/L	215.904
[ 65 Cu	100.000000	0.119	148407.393	ug/L	129.333
[ 68 Zn	100.000000	0.717	50232.677	ug/L	2957.387
[> 72 Ge-1			1155045.035	ug/L	1184928.862
[ 111 Cd	100.000000	0.828	142798.172	ug/L	65.381
[ 121 Sb	50.000000	0.545	242641.118	ug/L	162.669
[ 135 Ba	100.000000	0.289	160884.014	ug/L	177.002
[> 115 In-1			1415176.355	ug/L	1459062.274
[ 208 Pb	100.000000	0.499	2778659.444	ug/L	1212.712
[> 169 Tm-1			1501918.038	ug/L	1541729.238
[ 50 Cr	100.000000	2.917	12367.372	ug/L	-43.784
[ 53 Cr	100.000000	3.061	38674.034	ug/L	16273.054
[ 61 Ni	100.000000	2.779	3864.951	ug/L	1414.774
[ 63 Cu	100.000000	0.617	112925.479	ug/L	95.335
[ 67 Zn	100.000000	0.391	5456.209	ug/L	1252.011
[ 66 Zn	100.000000	0.207	26337.057	ug/L	1450.463
[> 72 Ge			1155045.035	ug/L	1184928.862
[ 108 Cd	100.000000	1.176	9776.742	ug/L	3.963
[ 114 Cd	100.000000	0.511	342190.052	ug/L	148.458
[> 115 In			1415176.355	ug/L	1459062.274
[ 208 207.977	100.000000	0.816	1433072.446	ug/L	638.032
[ 207 Pb	100.000000	0.343	583324.799	ug/L	250.672
[ 206 Pb	100.000000	0.175	762262.199	ug/L	324.008
[> 169 Tm			1501918.038	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	
[ Be	9	

[	Ca	44
	Cr	52
	Mn	55
	Ni	60
	Cu	65
	Zn	68
>	Ge-1	72
[	Cd	111
	Sb	121
	Ba	135
>	In-1	115
[	Pb	208
>	Tm-1	169
[	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
[	Cd	108
	Cd	114
>	In	115
[	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 11

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:05:01

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 11.055

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1169602.169	ug/L	1205738.109
[>	6 Li-1			1077999.243	ug/L	1099244.140
[	9 Be	100.763890	1.728	27128.706	ug/L	6.000
[	44 Ca	5157.405573	0.947	822442.363	ug/L	3832.488
	52 Cr	100.334223	0.978	538294.504	ug/L	18784.691
	55 Mn	100.328596	0.463	876114.115	ug/L	2433.799
	60 Ni	100.579769	1.000	146463.834	ug/L	215.904
	65 Cu	100.560975	0.985	148716.638	ug/L	129.333
	68 Zn	99.893009	1.423	50005.452	ug/L	2957.387
[>	72 Ge-1			1151082.041	ug/L	1184928.862
[	111 Cd	100.472752	0.732	142627.261	ug/L	65.381
	121 Sb	50.647689	1.285	244322.368	ug/L	162.669
	135 Ba	100.820111	1.690	161230.988	ug/L	177.002
[>	115 In-1			1406944.901	ug/L	1459062.274
[	208 Pb	100.276474	0.910	2800703.874	ug/L	1212.712
[>	169 Tm-1			1509727.510	ug/L	1541729.238
[	50 Cr	99.843640	1.402	12306.124	ug/L	-43.784
	53 Cr	99.005286	2.574	38317.440	ug/L	16273.054
	61 Ni	98.745416	1.397	3820.208	ug/L	1414.774
	63 Cu	100.473217	0.803	113065.533	ug/L	95.335
	67 Zn	100.598774	0.764	5462.892	ug/L	1252.011
	66 Zn	99.705211	1.301	26171.155	ug/L	1450.463
[>	72 Ge			1151082.041	ug/L	1184928.862
[	108 Cd	99.408056	2.896	9659.647	ug/L	3.963
	114 Cd	100.073425	1.200	340405.077	ug/L	148.458
[>	115 In			1406944.901	ug/L	1459062.274
[	208 207.977	100.302837	0.936	1444836.422	ug/L	638.032
	207 Pb	100.401655	1.151	588666.322	ug/L	250.672
	206 Pb	100.131115	0.699	767201.131	ug/L	324.008
[>	169 Tm			1509727.510	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	98.067
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	97.144
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.428
[	Pb	208	
>	Tm-1	169	97.924
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.144
[	Cd	108	
	Cd	114	
>	In	115	96.428
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.924

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 11

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:08:35

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 11.056

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1207542.242	ug/L	1205738.109
> 6 Li-1			1104176.662	ug/L	1099244.140
[ 9 Be	0.016964	89.616	10.667	ug/L	6.000
[ 44 Ca	0.074361	1081.985	3847.497	ug/L	3832.488
[ 52 Cr	0.030955	141.641	18960.204	ug/L	18784.691
[ 55 Mn	-0.000598	452.478	2429.797	ug/L	2433.799
[ 60 Ni	0.001250	533.593	217.874	ug/L	215.904
[ 65 Cu	-0.006356	41.768	119.748	ug/L	129.333
[ 68 Zn	0.002445	4731.983	2960.566	ug/L	2957.387
> 72 Ge-1			1185636.803	ug/L	1184928.862
[ 111 Cd	-0.008185	30.661	53.628	ug/L	65.381
[ 121 Sb	-0.002172	127.816	152.669	ug/L	162.669
[ 135 Ba	-0.005771	168.913	168.336	ug/L	177.002
> 115 In-1			1467295.029	ug/L	1459062.274
[ 208 Pb	-0.000612	64.872	1200.378	ug/L	1212.712
> 169 Tm-1			1548243.243	ug/L	1541729.238
[ 50 Cr	-0.075667	79.141	-53.422	ug/L	-43.784
[ 53 Cr	-1.168520	55.126	16008.854	ug/L	16273.054
[ 61 Ni	3.567395	49.567	1506.833	ug/L	1414.774
[ 63 Cu	0.002013	631.793	97.669	ug/L	95.335
[ 67 Zn	-0.702833	113.309	1222.329	ug/L	1252.011
[ 66 Zn	-0.137885	195.621	1415.775	ug/L	1450.463
> 72 Ge			1185636.803	ug/L	1184928.862
[ 108 Cd	0.008646	199.069	4.865	ug/L	3.963
[ 114 Cd	-0.000191	1000.851	148.639	ug/L	148.458
> 115 In			1467295.029	ug/L	1459062.274
[ 208 207.977	-0.000306	594.169	636.365	ug/L	638.032
[ 207 Pb	-0.000113	2078.170	251.005	ug/L	250.672
[ 206 Pb	-0.001567	85.677	313.008	ug/L	324.008
> 169 Tm			1548243.243	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	100.449
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	100.060
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.564
[	Pb	208	
>	Tm-1	169	100.423
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.060
[	Cd	108	
	Cd	114	
>	In	115	100.564
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.423



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARDNB

Sample Description: G0L020000-282 BLK

Batch ID: 336282/86

Sample Date/Time: Friday, December 03, 2010 19:12:05

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\MARDNB.057

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 97

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1171147.636	ug/L	1205738.109
> 6 Li-1			907975.367	ug/L	1099244.140
[ 9 Be	-0.018883	27.246	0.667	ug/L	6.000
[ 44 Ca	105.387731	1.140	20847.092	ug/L	3832.488
[ 52 Cr	-0.899989	4.547	13843.375	ug/L	18784.691
[ 55 Mn	-0.049548	45.577	1968.306	ug/L	2433.799
[ 60 Ni	-0.011565	52.495	196.583	ug/L	215.904
[ 65 Cu	0.411855	3.777	748.227	ug/L	129.333
[ 68 Zn	-4.932371	0.190	555.939	ug/L	2957.387
> 72 Ge-1			1173295.932	ug/L	1184928.862
[ 111 Cd	-0.031046	6.847	20.032	ug/L	65.381
[ 121 Sb	-0.025230	4.649	37.000	ug/L	162.669
[ 135 Ba	0.501118	4.533	1022.082	ug/L	177.002
> 115 In-1			1481134.511	ug/L	1459062.274
[ 208 Pb	0.006100	22.627	1425.395	ug/L	1212.712
> 169 Tm-1			1585347.405	ug/L	1541729.238
[ 50 Cr	0.562759	17.352	27.537	ug/L	-43.784
[ 53 Cr	-44.214524	3.568	5870.933	ug/L	16273.054
[ 61 Ni	2.466514	68.967	1463.138	ug/L	1414.774
[ 63 Cu	0.419699	0.968	575.406	ug/L	95.335
[ 67 Zn	-17.036553	6.941	507.057	ug/L	1252.011
[ 66 Zn	-4.700011	0.409	246.347	ug/L	1450.463
> 72 Ge			1173295.932	ug/L	1184928.862
[ 108 Cd	-0.028617	55.965	1.087	ug/L	3.963
[ 114 Cd	-0.024552	7.929	62.896	ug/L	148.458
> 115 In			1481134.511	ug/L	1459062.274
[ 208 207.977	0.005957	43.314	745.710	ug/L	638.032
[ 207 Pb	0.009424	14.451	315.674	ug/L	250.672
[ 206 Pb	0.003826	29.722	364.010	ug/L	324.008
> 169 Tm			1585347.405	ug/L	1541729.238

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	82.600
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	99.018
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.513
[	Pb	208	
>	Tm-1	169	102.829
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.018
[	Cd	108	
	Cd	114	
>	In	115	101.513
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.829

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARDNC

Sample Description: GOL020000-282 LCS

Batch ID: 336282/86

Sample Date/Time: Friday, December 03, 2010 19:15:36

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\MARDNC.058

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 90

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1102059.111	ug/L	1205738.109
> 6 Li-1			899952.826	ug/L	1099244.140
[ 9 Be	179.568204	2.163	40349.866	ug/L	6.000
[ 44 Ca	1054.569742	1.017	166727.396	ug/L	3832.488
[ 52 Cr	184.249755	1.469	948146.478	ug/L	18784.691
[ 55 Mn	183.278298	1.666	1557164.086	ug/L	2433.799
[ 60 Ni	186.752213	1.146	264770.605	ug/L	215.904
[ 65 Cu	188.591334	1.411	271605.033	ug/L	129.333
[ 68 Zn	186.544850	1.787	88546.297	ug/L	2957.387
> 72 Ge-1			1121497.194	ug/L	1184928.862
[ 111 Cd	178.158142	2.310	259653.977	ug/L	65.381
[ 121 Sb	176.035766	2.062	871661.465	ug/L	162.669
[ 135 Ba	184.598850	1.871	303038.067	ug/L	177.002
> 115 In-1			1445096.727	ug/L	1459062.274
[ 208 Pb	184.640032	1.765	5230683.931	ug/L	1212.712
> 169 Tm-1			1531756.578	ug/L	1541729.238
[ 50 Cr	160.801213	1.132	19334.260	ug/L	-43.784
[ 53 Cr	136.448533	1.574	45623.541	ug/L	16273.054
[ 61 Ni	178.414807	2.535	5646.345	ug/L	1414.774
[ 63 Cu	187.036137	1.315	204979.411	ug/L	95.335
[ 67 Zn	170.054630	3.283	8178.029	ug/L	1252.011
[ 66 Zn	184.440886	1.637	45998.170	ug/L	1450.463
> 72 Ge			1121497.194	ug/L	1184928.862
[ 108 Cd	176.590808	2.487	17620.555	ug/L	3.963
[ 114 Cd	177.935331	1.763	621479.259	ug/L	148.458
> 115 In			1445096.727	ug/L	1459062.274
[ 208 207.977	189.464459	1.852	2768156.326	ug/L	638.032
[ 207 Pb	199.192290	1.572	1184607.544	ug/L	250.672
[ 206 Pb	164.433787	1.768	1277920.061	ug/L	324.008
> 169 Tm			1531756.578	ug/L	1541729.238

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	81.870
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
]	Cu	65	
	Zn	68	
>	Ge-1	72	94.647
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.043
[	Pb	208	
>	Tm-1	169	99.353
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.647
[	Cd	108	
	Cd	114	
>	In	115	99.043
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.353

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8L

Sample Description: G0L020000-286 LCSD

Batch ID: 336286/82

Sample Date/Time: Friday, December 03, 2010 19:19:04

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\MARD8L.059

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 91

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1066680.722	ug/L	1205738.109
> 6 Li-1			899523.294	ug/L	1099244.140
9 Be	170.983368	1.058	38415.945	ug/L	6.000
44 Ca	1021.087979	1.285	157694.992	ug/L	3832.488
52 Cr	178.696641	1.134	898208.485	ug/L	18784.691
55 Mn	179.850631	1.205	1491784.632	ug/L	2433.799
60 Ni	180.781338	0.928	250205.755	ug/L	215.904
65 Cu	182.289531	0.990	256288.345	ug/L	129.333
68 Zn	179.893322	1.350	83456.529	ug/L	2957.387
> 72 Ge-1			1094712.316	ug/L	1184928.862
111 Cd	174.690563	0.974	249867.030	ug/L	65.381
121 Sb	172.517784	0.724	838360.517	ug/L	162.669
135 Ba	180.465259	1.421	290735.216	ug/L	177.002
> 115 In-1			1417835.041	ug/L	1459062.274
208 Pb	179.471113	0.814	4990533.366	ug/L	1212.712
> 169 Tm-1			1503292.945	ug/L	1541729.238
50 Cr	156.237774	2.195	18335.303	ug/L	-43.784
53 Cr	128.878336	0.999	42894.336	ug/L	16273.054
61 Ni	169.264649	1.181	5294.493	ug/L	1414.774
63 Cu	180.082622	1.501	192653.674	ug/L	95.335
67 Zn	165.873003	3.154	7814.414	ug/L	1252.011
66 Zn	179.454725	1.341	43726.301	ug/L	1450.463
> 72 Ge			1094712.316	ug/L	1184928.862
108 Cd	171.210195	0.650	16767.240	ug/L	3.963
114 Cd	173.419686	0.790	594416.958	ug/L	148.458
> 115 In			1417835.041	ug/L	1459062.274
208 207.977	184.506585	0.815	2646060.522	ug/L	638.032
207 Pb	193.104024	0.829	1127207.506	ug/L	250.672
206 Pb	159.571627	0.890	1217265.338	ug/L	324.008
> 169 Tm			1503292.945	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	81.831
Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	92.386
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.174
[	Pb	208	
>	Tm-1	169	97.507
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	92.386
[	Cd	108	
	Cd	114	
>	In	115	97.174
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.507

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 12

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:43:23

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 12.066

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1156558.822	ug/L	1205738.109
[>	6 Li-1			1104218.509	ug/L	1099244.140
[	9 Be	99.863974	1.692	27544.820	ug/L	6.000
[	44 Ca	5177.579582	0.109	820072.833	ug/L	3832.488
	52 Cr	101.496839	0.473	540646.669	ug/L	18784.691
	55 Mn	100.785110	0.201	874120.439	ug/L	2433.799
	60 Ni	100.726609	0.298	145687.742	ug/L	215.904
	65 Cu	100.956480	0.478	148294.068	ug/L	129.333
	68 Zn	101.236198	0.193	50299.021	ug/L	2957.387
[>	72 Ge-1			1143237.116	ug/L	1184928.862
[	111 Cd	99.278401	0.102	142308.677	ug/L	65.381
	121 Sb	49.831101	0.879	242743.330	ug/L	162.669
	135 Ba	99.071319	0.442	159998.418	ug/L	177.002
[>	115 In-1			1420581.805	ug/L	1459062.274
[	208 Pb	99.957290	0.293	2770609.541	ug/L	1212.712
[>	169 Tm-1			1498190.511	ug/L	1541729.238
[	50 Cr	99.737734	1.962	12209.823	ug/L	-43.784
	53 Cr	101.796658	3.045	38682.819	ug/L	16273.054
	61 Ni	96.008033	1.656	3727.054	ug/L	1414.774
	63 Cu	100.509757	0.612	112341.969	ug/L	95.335
	67 Zn	99.069496	1.667	5361.317	ug/L	1252.011
	66 Zn	100.213905	0.715	26120.582	ug/L	1450.463
[>	72 Ge			1143237.116	ug/L	1184928.862
[	108 Cd	98.567955	1.076	9673.428	ug/L	3.963
	114 Cd	98.987367	0.538	340015.646	ug/L	148.458
[>	115 In			1420581.805	ug/L	1459062.274
[	208 207.977	100.573129	0.202	1437757.666	ug/L	638.032
	207 Pb	99.268348	0.874	577608.428	ug/L	250.672
	206 Pb	99.326704	0.561	755243.447	ug/L	324.008
[>	169 Tm			1498190.511	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	100.453
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
] >	Ge-1	72	96.481
[	Cd	111	
	Sb	121	
	Ba	135	
] >	In-1	115	97.363
[	Pb	208	
] >	Tm-1	169	97.176
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
] >	Ge	72	96.481
[	Cd	108	
	Cd	114	
] >	In	115	97.363
[	207.977	208	
	Pb	207	
	Pb	206	
] >	Tm	169	97.176



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 12

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 19:46:56

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 12.067

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1195269.980	ug/L	1205738.109
> 6 Li-1			1134767.648	ug/L	1099244.140
[ 9 Be	0.012320	74.887	9.667	ug/L	6.000
[ 44 Ca	0.849515	75.634	3941.888	ug/L	3832.488
[ 52 Cr	0.446485	6.556	21012.974	ug/L	18784.691
[ 55 Mn	-0.003142	75.200	2388.115	ug/L	2433.799
[ 60 Ni	0.012209	78.651	232.514	ug/L	215.904
[ 65 Cu	0.005601	83.223	136.856	ug/L	129.333
[ 68 Zn	0.241098	30.957	3052.108	ug/L	2957.387
> 72 Ge-1			1176255.797	ug/L	1184928.862
[ 111 Cd	-0.003296	143.778	61.172	ug/L	65.381
[ 121 Sb	0.005896	47.064	194.003	ug/L	162.669
[ 135 Ba	-0.002475	138.046	174.669	ug/L	177.002
> 115 In-1			1473728.568	ug/L	1459062.274
[ 208 Pb	0.000801	346.723	1239.047	ug/L	1212.712
> 169 Tm-1			1546562.801	ug/L	1541729.238
[ 50 Cr	-0.121130	127.743	-58.864	ug/L	-43.784
[ 53 Cr	-0.841757	57.072	15957.828	ug/L	16273.054
[ 61 Ni	0.895933	71.323	1427.115	ug/L	1414.774
[ 63 Cu	0.000625	998.908	95.335	ug/L	95.335
[ 67 Zn	-1.029712	57.756	1198.316	ug/L	1252.011
[ 66 Zn	0.079895	325.715	1460.470	ug/L	1450.463
> 72 Ge			1176255.797	ug/L	1184928.862
[ 108 Cd	0.032347	70.125	7.297	ug/L	3.963
[ 114 Cd	0.000577	789.912	151.928	ug/L	148.458
> 115 In			1473728.568	ug/L	1459062.274
[ 208 207.977	0.000531	441.742	647.700	ug/L	638.032
[ 207 Pb	0.002664	150.068	267.339	ug/L	250.672
[ 206 Pb	-0.000117	2399.351	324.008	ug/L	324.008
> 169 Tm			1546562.801	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	103.232
[ Be	9	

Ca	44	
Cr	52	
Mn	55	
Ni	60	
Cu	65	
Zn	68	
Ge-1	72	99.268
Cd	111	
Sb	121	
Ba	135	
In-1	115	101.005
Pb	208	
Tm-1	169	100.314
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Ge	72	99.268
Cd	108	
Cd	114	
In	115	101.005
207.977	208	
Pb	207	
Pb	206	
Tm	169	100.314

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 13

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:14:57

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 13.075

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1155092.718	ug/L	1205738.109
> 6 Li-1			1050970.537	ug/L	1099244.140
[ 9 Be	101.783338	1.492	26718.307	ug/L	6.000
[ 44 Ca	5104.270870	1.662	816752.428	ug/L	3832.488
[ 52 Cr	100.430277	2.854	540540.272	ug/L	18784.691
[ 55 Mn	100.769304	2.210	882833.101	ug/L	2433.799
[ 60 Ni	100.048718	2.119	146175.417	ug/L	215.904
[ 65 Cu	100.758356	2.092	149504.060	ug/L	129.333
[ 68 Zn	99.985405	2.338	50216.381	ug/L	2957.387
> 72 Ge-1			1155110.248	ug/L	1184928.862
[ 111 Cd	100.878279	2.843	144760.296	ug/L	65.381
[ 121 Sb	50.789540	2.473	247698.729	ug/L	162.669
[ 135 Ba	99.941437	2.806	161582.371	ug/L	177.002
> 115 In-1			1422813.875	ug/L	1459062.274
[ 208 Pb	99.907492	1.999	2796662.403	ug/L	1212.712
> 169 Tm-1			1513332.822	ug/L	1541729.238
[ 50 Cr	100.332290	2.745	12407.374	ug/L	-43.784
[ 53 Cr	101.164840	2.424	38935.368	ug/L	16273.054
[ 61 Ni	101.946181	2.647	3912.699	ug/L	1414.774
[ 63 Cu	100.185446	2.311	113112.479	ug/L	95.335
[ 67 Zn	98.588848	3.944	5396.069	ug/L	1252.011
[ 66 Zn	99.844796	2.322	26293.221	ug/L	1450.463
> 72 Ge			1155110.248	ug/L	1184928.862
[ 108 Cd	102.097264	2.868	10031.418	ug/L	3.963
[ 114 Cd	100.792606	2.574	346614.477	ug/L	148.458
> 115 In			1422813.875	ug/L	1459062.274
[ 208 207.977	100.687526	2.132	1453614.843	ug/L	638.032
[ 207 Pb	99.350445	2.190	583812.228	ug/L	250.672
[ 206 Pb	98.867277	1.605	759235.332	ug/L	324.008
> 169 Tm			1513332.822	ug/L	1541729.238

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	95.608
[ Be	9	

[	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	97.484
[	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.516
[	Pb	208	
>	Tm-1	169	98.158
[	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.484
[	Cd	108	
	Cd	114	
>	In	115	97.516
[	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.158

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 13

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:18:33

Method File: E:\elandata\Method\000-TRC+AIRTEK-SH.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 13.076

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1203084.508	ug/L	1205738.109
>	6 Li-1			1119709.198	ug/L	1099244.140
[	9 Be	0.003165	298.704	7.000	ug/L	6.000
[	44 Ca	-1.573236	40.423	3620.364	ug/L	3832.488
	52 Cr	0.040861	128.682	19240.051	ug/L	18784.691
	55 Mn	-0.094138	2.306	1609.537	ug/L	2433.799
	60 Ni	-0.048989	2.018	144.340	ug/L	215.904
	65 Cu	-0.002121	297.851	127.725	ug/L	129.333
	68 Zn	-0.753367	11.856	2623.680	ug/L	2957.387
>	72 Ge-1			1199649.337	ug/L	1184928.862
[	111 Cd	-0.015115	24.867	44.691	ug/L	65.381
	121 Sb	0.002617	11.088	182.003	ug/L	162.669
	135 Ba	-0.016277	41.019	155.335	ug/L	177.002
>	115 In-1			1510988.424	ug/L	1459062.274
[	208 Pb	-0.009098	1.520	973.695	ug/L	1212.712
>	169 Tm-1			1574714.789	ug/L	1541729.238
[	50 Cr	-0.119616	108.076	-59.838	ug/L	-43.784
	53 Cr	7.168613	4.117	18173.373	ug/L	16273.054
	61 Ni	3.763821	12.531	1529.515	ug/L	1414.774
	63 Cu	0.006984	123.540	104.669	ug/L	95.335
	67 Zn	-1.628457	77.222	1195.648	ug/L	1252.011
	66 Zn	-0.892910	9.167	1237.337	ug/L	1450.463
>	72 Ge			1199649.337	ug/L	1184928.862
[	108 Cd	-0.014781	246.022	2.568	ug/L	3.963
	114 Cd	-0.003439	130.039	141.230	ug/L	148.458
>	115 In			1510988.424	ug/L	1459062.274
[	208 207.977	-0.010051	11.873	500.686	ug/L	638.032
	207 Pb	-0.007423	19.747	210.670	ug/L	250.672
	206 Pb	-0.008589	16.573	262.339	ug/L	324.008
>	169 Tm			1574714.789	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	101.862
[ Be	9	

	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	101.242
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.559
	Pb	208	
>	Tm-1	169	102.140
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	101.242
	Cd	108	
	Cd	114	
>	In	115	103.559
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.140

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

**SOP No. SAC-MT-0001**

**Analyst: SHargrave**

**Sample ID: CCV 14**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:22:09

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 14.077

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 44 Ca	5414.103996	0.595	853299.150	ug/L	3832.488
52 Cr	103.588026	0.823	548794.411	ug/L	18784.691
60 Ni	101.730607	0.708	146439.170	ug/L	215.904
75 As			137806.832	ug/L	0.000
> 72 Ge-1			1137839.767	ug/L	1184928.862
[ 111 Cd	100.245872	0.216	146232.025	ug/L	65.381
> 115 In-1			1445646.430	ug/L	1459062.274
[ 208 Pb	99.796580	0.433	2857623.254	ug/L	1212.712
> 169 Tm-1			1547723.834	ug/L	1541729.238
[ 50 Cr	104.600512	1.276	12747.302	ug/L	-43.784
53 Cr	104.956257	2.285	39208.325	ug/L	16273.054
61 Ni	96.175631	2.361	3713.699	ug/L	1414.774
> 72 Ge			1137839.767	ug/L	1184928.862
[ 108 Cd	99.984452	1.064	9985.241	ug/L	3.963
114 Cd	100.040756	0.545	349695.348	ug/L	148.458
> 115 In			1445646.430	ug/L	1459062.274
[ 208 207.977	100.426246	0.450	1483107.536	ug/L	638.032
207 Pb	99.121466	0.493	595838.621	ug/L	250.672
206 Pb	99.129417	0.462	778677.097	ug/L	324.008
> 169 Tm			1547723.834	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	96.026
[ Cd	111	
> In-1	115	99.081
[ Pb	208	
> Tm-1	169	100.389
[ Cr	50	
Cr	53	
Ni	61	
> Ge	72	96.026

	Cd	108	
	Cd	114	
>	In	115	99.081
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.389



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 14

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:25:27

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 14.078

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
44 Ca	-1.880252	12.104	3493.959	ug/L	3832.488
52 Cr	0.331654	26.309	20371.900	ug/L	18784.691
60 Ni	-0.046315	3.520	145.273	ug/L	215.904
75 As			11160.994	ug/L	0.000
> 72 Ge-1			1174414.068	ug/L	1184928.862
111 Cd	-0.012190	48.187	48.145	ug/L	65.381
> 115 In-1			1481880.691	ug/L	1459062.274
208 Pb	-0.008000	19.137	1001.031	ug/L	1212.712
> 169 Tm-1			1567730.261	ug/L	1541729.238
50 Cr	-0.183930	11.383	-66.603	ug/L	-43.784
53 Cr	5.678200	11.029	17445.367	ug/L	16273.054
61 Ni	2.699623	64.066	1470.476	ug/L	1414.774
> 72 Ge			1174414.068	ug/L	1184928.862
108 Cd	0.005804	340.940	4.630	ug/L	3.963
114 Cd	-0.004369	129.485	135.245	ug/L	148.458
> 115 In			1481880.691	ug/L	1459062.274
208 207.977	-0.008624	25.394	519.688	ug/L	638.032
207 Pb	-0.008195	7.875	205.003	ug/L	250.672
206 Pb	-0.006677	30.986	276.339	ug/L	324.008
> 169 Tm			1567730.261	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	99.113
Cd	111	
> In-1	115	101.564
Pb	208	
> Tm-1	169	101.686
Cr	50	
Cr	53	
Ni	61	
> Ge	72	99.113

┌	Cd	108	
	Cd	114	
└>	In	115	101.564
┌	207.977	208	
	Pb	207	
	Pb	206	
└>	Tm	169	101.686

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 15

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:50:53

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 15.086

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
44 Ca	5397.629796	1.262	876020.191	ug/L	3832.488
52 Cr	102.720928	0.856	560568.129	ug/L	18784.691
60 Ni	100.555657	1.077	149059.807	ug/L	215.904
75 As			139695.445	ug/L	0.000
> 72 Ge-1			1171786.720	ug/L	1184928.862
111 Cd	97.992333	0.271	145619.582	ug/L	65.381
> 115 In-1			1472717.216	ug/L	1459062.274
208 Pb	97.629482	0.502	2831729.906	ug/L	1212.712
> 169 Tm-1			1567736.371	ug/L	1541729.238
50 Cr	102.369564	0.875	12846.527	ug/L	-43.784
53 Cr	108.623877	2.461	41234.216	ug/L	16273.054
61 Ni	99.124148	3.604	3898.341	ug/L	1414.774
> 72 Ge			1171786.720	ug/L	1184928.862
108 Cd	98.061753	0.494	9977.417	ug/L	3.963
114 Cd	97.942474	0.162	348780.048	ug/L	148.458
> 115 In			1472717.216	ug/L	1459062.274
208 207.977	98.237158	0.735	1469542.043	ug/L	638.032
207 Pb	97.038277	0.518	590858.834	ug/L	250.672
206 Pb	96.939449	0.070	771329.029	ug/L	324.008
> 169 Tm			1567736.371	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	98.891
Cd	111	
> In-1	115	100.936
Pb	208	
> Tm-1	169	101.687
Cr	50	
Cr	53	
Ni	61	
> Ge	72	98.891

	Cd	108	
	Cd	114	
>	In	115	100.936
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.687

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 15

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:54:10

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 15.087

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
44 Ca	-0.098518	552.139	3833.822	ug/L	3832.488
52 Cr	0.656261	10.848	22387.313	ug/L	18784.691
60 Ni	-0.050090	7.213	141.538	ug/L	215.904
75 As			11473.141	ug/L	0.000
> 72 Ge-1			1190416.220	ug/L	1184928.862
111 Cd	-0.010364	73.174	51.641	ug/L	65.381
> 115 In-1			1503028.103	ug/L	1459062.274
208 Pb	-0.007672	18.147	1019.698	ug/L	1212.712
> 169 Tm-1			1581467.111	ug/L	1541729.238
50 Cr	-0.207552	64.511	-70.658	ug/L	-43.784
53 Cr	5.538287	17.798	17650.623	ug/L	16273.054
61 Ni	-2.079248	222.625	1368.748	ug/L	1414.774
> 72 Ge			1190416.220	ug/L	1184928.862
108 Cd	-0.018452	206.818	2.199	ug/L	3.963
114 Cd	-0.007510	39.496	125.565	ug/L	148.458
> 115 In			1503028.103	ug/L	1459062.274
208 207.977	-0.008636	30.719	524.355	ug/L	638.032
207 Pb	-0.006039	28.723	220.004	ug/L	250.672
206 Pb	-0.007109	5.057	275.339	ug/L	324.008
> 169 Tm			1581467.111	ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	100.463
Cd	111	
> In-1	115	103.013
Pb	208	
> Tm-1	169	102.577
Cr	50	
Cr	53	
Ni	61	
> Ge	72	100.463

┌	Cd	108	
	Cd	114	
└	In	115	103.013
┌	207.977	208	
	Pb	207	
	Pb	206	
└	Tm	169	102.577

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 16

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:57:27

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 16.088

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
44 Ca	5237.533526	2.243	891482.265	ug/L	3832.488
52 Cr				ug/L	18784.691
60 Ni				ug/L	215.904
75 As			144579.351	ug/L	0.000
> 72 Ge-1			1229013.819	ug/L	1184928.862
111 Cd				ug/L	65.381
> 115 In-1				ug/L	1459062.274
208 Pb				ug/L	1212.712
> 169 Tm-1				ug/L	1541729.238
50 Cr				ug/L	-43.784
53 Cr				ug/L	16273.054
61 Ni				ug/L	1414.774
> 72 Ge			1229013.819	ug/L	1184928.862
108 Cd				ug/L	3.963
114 Cd				ug/L	148.458
> 115 In				ug/L	1459062.274
208 207.977				ug/L	638.032
207 Pb				ug/L	250.672
206 Pb				ug/L	324.008
> 169 Tm				ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	103.720
Cd	111	
> In-1	115	
Pb	208	
> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
> Ge	72	103.720

┌	Cd	108
	Cd	114
└	In	115
┌	207.977	208
	Pb	207
	Pb	206
└	Tm	169



**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**  
**SOP No. SAC-MT-0001**

**Analyst: SHargrave**

**Sample ID: CCB 16**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:00:05

Method File: E:\elandata\Method\000-CleanHarbor.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 16.089

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
44 Ca	9.588944	3.215	5615.477	ug/L	3832.488
52 Cr				ug/L	18784.691
60 Ni				ug/L	215.904
75 As			12302.767	ug/L	0.000
> 72 Ge-1			1232303.635	ug/L	1184928.862
111 Cd				ug/L	65.381
> 115 In-1				ug/L	1459062.274
208 Pb				ug/L	1212.712
> 169 Tm-1				ug/L	1541729.238
50 Cr				ug/L	-43.784
53 Cr				ug/L	16273.054
61 Ni				ug/L	1414.774
> 72 Ge			1232303.635	ug/L	1184928.862
108 Cd				ug/L	3.963
114 Cd				ug/L	148.458
> 115 In				ug/L	1459062.274
208 207.977				ug/L	638.032
207 Pb				ug/L	250.672
206 Pb				ug/L	324.008
> 169 Tm				ug/L	1541729.238

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Ca	44	
Cr	52	
Ni	60	
As	75	
> Ge-1	72	103.998
Cd	111	
> In-1	115	
Pb	208	
> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
> Ge	72	103.998

┌	Cd	108
	Cd	114
└>	In	115
┌	207.977	208
	Pb	207
	Pb	206
└>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

**Sample ID: BLK RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:00:05

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 16.089

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca			5615.477	ug/L	
	55 Mn			1845.935	ug/L	
	75 As			12302.767	ug/L	
72 Ge-1			1232303.635	ug/L		

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
[>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 20:57:27

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 16.088

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	5100.000000	2.247	891482.265	ug/L	5615.477
	55 Mn	100.000000	2.178	946425.978	ug/L	1845.935
	75 As	100.000000	2.373	144579.351	ug/L	12302.767
>	72 Ge-1			1229013.819	ug/L	1232303.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 17

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:02:44

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 17.090

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 44 Ca	5076.995687	2.554	890819.383	ug/L	5615.477
55 Mn	99.710328	2.641	947215.524	ug/L	1845.935
75 As	99.487893	2.904	144439.169	ug/L	12302.767
[> 72 Ge-1			1233714.285	ug/L	1232303.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Ca	44	
Mn	55	
As	75	
[> Ge-1	72	100.114

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
 SOP No. SAC-MT-0001  
 Analyst: SHargrave

**Sample ID: CCB 17**

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:05:23

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 17.091

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 44 Ca	-0.796651	100.667	5592.123	ug/L	5615.477
55 Mn	-0.006271	70.784	1823.928	ug/L	1845.935
75 As	-0.700236	57.069	11608.303	ug/L	12302.767
[> 72 Ge-1			1258532.224	ug/L	1232303.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Ca	44	
Mn	55	
As	75	
[> Ge-1	72	102.128

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MAK04

Sample Description: G0K270427-5

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:07:56

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK04.092

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 46

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	682.517029	0.830	124531.690	ug/L	5615.477
	55 Mn	138.828245	1.119	1317159.040	ug/L	1845.935
	75 As	0.601171	16.555	13101.106	ug/L	12302.767
[>	72 Ge-1			1232414.697	ug/L	1232303.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
[>	Ge-1	72	100.009

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MAK04P5

Sample Description: G0K270427-5 5X

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:10:28

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK04P5.093

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 47

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 44 Ca	136.461549	4.541	30511.640	ug/L	5615.477
55 Mn	27.547761	4.279	272831.677	ug/L	1845.935
75 As	-0.743197	70.425	11742.327	ug/L	12302.767
[> 72 Ge-1			1280348.823	ug/L	1232303.635

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[ Ca	44	
Mn	55	
As	75	
[> Ge-1	72	103.899



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MAK04Z

Sample Description: G0K270427-5 PS

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:13:00

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK04Z.094

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 48

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	1674.464269	0.905	287309.996	ug/L	5615.477
	55 Mn	327.226564	0.863	2997328.034	ug/L	1845.935
	75 As	189.534359	1.452	254919.903	ug/L	12302.767
72 Ge-1			1190772.209	ug/L	1232303.635	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	96.630	

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**

**SOP No. SAC-MT-0001**

**Analyst: SHargrave**

**Sample ID: MAK07**

Sample Description: G0K270427-6

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:15:32

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK07.095

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 49

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	853.870668	1.059	148310.371	ug/L	5615.477
	55 Mn	1002.494739	0.800	9126258.579	ug/L	1845.935
	75 As	1.109393	5.669	13233.713	ug/L	12302.767
[>	72 Ge-1			1183903.600	ug/L	1232303.635

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
[>	Ge-1	72	96.072

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MAK08

Sample Description: G0K270427-7

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:18:05

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK08.096

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 50

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	6378.455132	1.933	1103197.391	ug/L	5615.477
	55 Mn	138.165249	1.832	1294794.333	ug/L	1845.935
	75 As	0.552649	40.551	12876.227	ug/L	12302.767
72 Ge-1			1217464.887	ug/L	1232303.635	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	98.796	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

**Sample ID: MAK09**

Sample Description: G0K270427-8

Batch ID: 336286

Sample Date/Time: Friday, December 03, 2010 21:20:38

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\MAK09.097

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 51

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	3826.085447	4.171	693123.923	ug/L	5615.477
	55 Mn	1634.859711	4.053	15973002.419	ug/L	1845.935
	75 As	0.756655	79.475	13715.093	ug/L	12302.767
72 Ge-1			1271877.905	ug/L	1232303.635	

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	103.211	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 18

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:23:16

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCV 18.098

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 7

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	5163.940077	1.859	892819.185	ug/L	5615.477
	55 Mn	101.877733	1.678	953741.236	ug/L	1845.935
	75 As	101.093366	2.089	144443.584	ug/L	12302.767
72 Ge-1			1215594.794	ug/L	1232303.635	

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	98.644	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 18

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 03, 2010 21:25:55

Method File: E:\elandata\Method\0336286.mth

Dataset File: E:\elandata\Dataset\101203b2\CCB 18.099

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 8

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	44 Ca	0.154690	385.034	5739.921	ug/L	5615.477
	55 Mn	0.007383	12.448	1949.299	ug/L	1845.935
	75 As	-0.458472	115.402	11892.294	ug/L	12302.767
72 Ge-1			1253820.313	ug/L	1232303.635	

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	101.746	

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Blank			1.0	12/03/10 15:23		<input type="checkbox"/>
2	Standard1			1.0	12/03/10 15:27		<input type="checkbox"/>
3	ICV			1.0	12/03/10 15:31		<input type="checkbox"/>
4	ICB			1.0	12/03/10 15:36		<input type="checkbox"/>
5	LLSTD1			1.0	12/03/10 15:46		<input type="checkbox"/>
6	LLSTD2			1.0	12/03/10 15:50		<input type="checkbox"/>
7	ICSA			1.0	12/03/10 15:56		<input type="checkbox"/>
8	ICSAB			1.0	12/03/10 16:00		<input type="checkbox"/>
9	Rinse			1.0	12/03/10 16:08		<input type="checkbox"/>
10	CCV 1			1.0	12/03/10 16:16		<input type="checkbox"/>
11	CCB 1			1.0	12/03/10 16:20		<input type="checkbox"/>
14	CCV 2			1.0	12/03/10 16:25		<input type="checkbox"/>
15	CCB 2			1.0	12/03/10 16:29		<input type="checkbox"/>
16	MAPE7B	G0L010000	0335253	2A	1.0	12/03/10 16:33	<input type="checkbox"/>
17	MAPEVB	G0L010000	0335251	2A	1.0	12/03/10 16:38	<input type="checkbox"/>
18	MAPEVC	G0L010000	0335251	2A	1.0	12/03/10 16:42	<input type="checkbox"/>
19	MAPE7L	G0L010000	0335253	2A	1.0	12/03/10 16:46	<input type="checkbox"/>
20	MAA80	G0K190601-3	0335251	2A	1.0	12/03/10 16:50	<input type="checkbox"/>
21	MAA80P5	G0K190601	0335251		5.0	12/03/10 16:54	<input type="checkbox"/>
22	MAA80Z	G0K190601-3	0335251		1.0	12/03/10 16:58	<input type="checkbox"/>
23	MAA81	G0K190601-4	0335251	2A	1.0	12/03/10 17:03	<input type="checkbox"/>
24	MAKDV	G0K240587-1	0335251	2A	1.0	12/03/10 17:07	<input type="checkbox"/>
25	MAKD2	G0K240587-2	0335251	2A	1.0	12/03/10 17:11	<input type="checkbox"/>
26	CCV 3			1.0	12/03/10 17:15		<input type="checkbox"/>
27	CCB 3			1.0	12/03/10 17:20		<input type="checkbox"/>
28	CCV 4			1.0	12/03/10 17:24		<input type="checkbox"/>
29	CCB 4			1.0	12/03/10 17:27		<input type="checkbox"/>
30	CCV 5			1.0	12/03/10 17:31		<input type="checkbox"/>
31	CCB 5			1.0	12/03/10 17:34		<input type="checkbox"/>
32	MAL4HB	G0K290000	0333404	2A	1.0	12/03/10 17:38	<input type="checkbox"/>
33	MAL4HC	G0K290000	0333404	2A	1.0	12/03/10 17:41	<input type="checkbox"/>
34	MAPE7L	G0L010000	0335253	2A	1.0	12/03/10 17:45	<input type="checkbox"/>
35	MAGQR	G0K230520-1	0333404	2A	1.0	12/03/10 17:48	<input type="checkbox"/>
36	MAGQRP5	G0K230520	0333404		5.0	12/03/10 17:51	<input type="checkbox"/>
37	MAGQRZ	G0K230520-1	0333404		1.0	12/03/10 17:55	<input type="checkbox"/>
38	MAGQW	G0K230520-2	0333404	2A	1.0	12/03/10 17:58	<input type="checkbox"/>
39	CCV 6			1.0	12/03/10 18:02		<input type="checkbox"/>
40	CCB 6			1.0	12/03/10 18:05		<input type="checkbox"/>
41	MAGQX	G0K230520-3	0333404	2A	1.0	12/03/10 18:09	<input type="checkbox"/>
42	MAGQ0	G0K230520-4	0333404	2A	1.0	12/03/10 18:12	<input type="checkbox"/>
43	MAGQ1	G0K230520-5	0333404	2A	1.0	12/03/10 18:16	<input type="checkbox"/>
44	MAGQ2	G0K230520-6	0333404	2A	1.0	12/03/10 18:19	<input type="checkbox"/>
45	MAGQ3	G0K230520-7	0333404	2A	1.0	12/03/10 18:22	<input type="checkbox"/>
46	CCV 7			1.0	12/03/10 18:26		<input type="checkbox"/>
47	CCB 7			1.0	12/03/10 18:29		<input type="checkbox"/>
48	CCV 8			1.0	12/03/10 18:33		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	CCB 8				1.0 12/03/10 18:36		<input type="checkbox"/>
50	ICSA				1.0 12/03/10 18:40		<input type="checkbox"/>
51	ICSAB				1.0 12/03/10 18:43		<input type="checkbox"/>
52	CCV 9				1.0 12/03/10 18:50		<input type="checkbox"/>
53	CCB 9				1.0 12/03/10 18:54		<input type="checkbox"/>
54	CCV 10				1.0 12/03/10 18:57		<input type="checkbox"/>
55	CCB 10				1.0 12/03/10 19:01		<input type="checkbox"/>
58	CCV 11				1.0 12/03/10 19:05		<input type="checkbox"/>
59	CCB 11				1.0 12/03/10 19:08		<input type="checkbox"/>
60	MARDNB	G0L020000	0336282		1.0 12/03/10 19:12		<input type="checkbox"/>
61	MARDNC	G0L020000	0336282		1.0 12/03/10 19:15		<input type="checkbox"/>
62	MARD8L	G0L020000	0336286	2A	1.0 12/03/10 19:19		<input type="checkbox"/>
63	MAQPV	G0L020440-1	0336282	2A	1.0 12/03/10 19:22		<input type="checkbox"/>
64	MAQPVP5	G0L020440	0336282		5.0 12/03/10 19:25		<input type="checkbox"/>
65	MAQPVX	G0L020440-1	0336282	2A	1.0 12/03/10 19:29		<input type="checkbox"/>
66	MAQPVZ	G0L020440-1	0336282		1.0 12/03/10 19:32		<input type="checkbox"/>
67	MAQP0	G0L020440-2	0336282	2A	1.0 12/03/10 19:36		<input type="checkbox"/>
68	MAQP3	G0L020440-3	0336282	2A	1.0 12/03/10 19:39		<input type="checkbox"/>
69	CCV 12				1.0 12/03/10 19:43		<input type="checkbox"/>
70	CCB 12				1.0 12/03/10 19:46		<input type="checkbox"/>
71	MAQP4	G0L020440-4	0336282	2A	1.0 12/03/10 19:50		<input type="checkbox"/>
72	MAQP6	G0L020440-5	0336282	2A	1.0 12/03/10 19:53		<input type="checkbox"/>
73	MANX4	G0L010474-1	0336282		1.0 12/03/10 19:57		<input type="checkbox"/>
74	MANX9	G0L010474-2	0336282		1.0 12/03/10 20:00		<input type="checkbox"/>
75	MAN0F	G0L010474-3	0336282		1.0 12/03/10 20:04		<input type="checkbox"/>
76	MAN0P	G0L010474-4	0336282		1.0 12/03/10 20:07		<input type="checkbox"/>
77	MAN0Q	G0L010474-5	0336282		1.0 12/03/10 20:11		<input type="checkbox"/>
78	CCV 13				1.0 12/03/10 20:14		<input type="checkbox"/>
79	CCB 13				1.0 12/03/10 20:18		<input type="checkbox"/>
80	CCV 14				1.0 12/03/10 20:22		<input type="checkbox"/>
81	CCB 14				1.0 12/03/10 20:25		<input type="checkbox"/>
82	MAFD3	G0K220523-1	0335253	2A	1.0 12/03/10 20:28		<input type="checkbox"/>
83	MAFD3P5	G0K220523	0335253		5.0 12/03/10 20:31		<input type="checkbox"/>
84	MAFD3Z	G0K220523-1	0335253		1.0 12/03/10 20:35		<input type="checkbox"/>
85	MAFD5	G0K220523-2	0335253	2A	1.0 12/03/10 20:38		<input type="checkbox"/>
86	MAFD6	G0K220523-3	0335253	2A	1.0 12/03/10 20:41		<input type="checkbox"/>
87	MAFD7	G0K220523-4	0335253	2A	1.0 12/03/10 20:44		<input type="checkbox"/>
88	MAFD8	G0K220523-5	0335253	2A	1.0 12/03/10 20:47		<input type="checkbox"/>
89	CCV 15				1.0 12/03/10 20:50		<input type="checkbox"/>
90	CCB 15				1.0 12/03/10 20:54		<input type="checkbox"/>
91	CCV 16				1.0 12/03/10 20:57		<input type="checkbox"/>
92	CCB 16				1.0 12/03/10 21:00		<input type="checkbox"/>
95	CCV 17				1.0 12/03/10 21:02		<input type="checkbox"/>
96	CCB 17				1.0 12/03/10 21:05		<input type="checkbox"/>
97	MAK04	G0K270427-5	0336286	2A	1.0 12/03/10 21:07		<input type="checkbox"/>
98	MAK04P5	G0K270427	0336286		5.0 12/03/10 21:10		<input type="checkbox"/>



Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
99	MAK04Z	G0K270427-5	0336286		1.0	12/03/10 21:13	<input type="checkbox"/>
100	MAK07	G0K270427-6	0336286	2A	1.0	12/03/10 21:15	<input type="checkbox"/>
101	MAK08	G0K270427-7	0336286	2A	1.0	12/03/10 21:18	<input type="checkbox"/>
102	MAK09	G0K270427-8	0336286	2A	1.0	12/03/10 21:20	<input type="checkbox"/>
103	CCV 18				1.0	12/03/10 21:23	<input type="checkbox"/>
104	CCB 18				1.0	12/03/10 21:25	<input type="checkbox"/>
105	CCV 19				1.0	12/03/10 21:28	<input type="checkbox"/>
106	CCB 19				1.0	12/03/10 21:32	<input type="checkbox"/>
109	CCV 20				1.0	12/03/10 21:36	<input type="checkbox"/>
110	CCB 20				1.0	12/03/10 21:39	<input type="checkbox"/>
111	MAHGVB	G0K230000	0327486	EC	1.0	12/03/10 21:43	<input type="checkbox"/>
112	MAHGVC	G0K230000	0327486	EC	1.0	12/03/10 21:47	<input type="checkbox"/>
113	MAHGVL	G0K230000	0327486	EC	1.0	12/03/10 21:50	<input type="checkbox"/>
114	CCV 21				1.0	12/03/10 21:54	<input type="checkbox"/>
115	CCB 21				1.0	12/03/10 21:58	<input type="checkbox"/>
116	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 22:01	<input type="checkbox"/>
117	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 22:05	<input type="checkbox"/>
118	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 22:09	<input type="checkbox"/>
119	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 22:12	<input type="checkbox"/>
120	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 22:16	<input type="checkbox"/>
121	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 22:20	<input type="checkbox"/>
122	CCV 22				1.0	12/03/10 22:23	<input type="checkbox"/>
123	CCB 22				1.0	12/03/10 22:27	<input type="checkbox"/>
126	CCV 23				1.0	12/03/10 22:31	<input type="checkbox"/>
127	CCB 23				1.0	12/03/10 22:34	<input type="checkbox"/>
128	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 22:38	<input type="checkbox"/>
129	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 22:42	<input type="checkbox"/>
130	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 22:45	<input type="checkbox"/>
131	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 22:49	<input type="checkbox"/>
132	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 22:53	<input type="checkbox"/>
133	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 22:56	<input type="checkbox"/>
134	CCV 24				1.0	12/03/10 23:00	<input type="checkbox"/>
135	CCB 24				1.0	12/03/10 23:04	<input type="checkbox"/>
136	CCV 25				1.0	12/03/10 23:08	<input type="checkbox"/>
137	CCB 25				1.0	12/03/10 23:11	<input type="checkbox"/>
138	L9612	G0K170514-1	0327486	EC	1.0	12/03/10 23:15	<input type="checkbox"/>
139	L9635	G0K170514-3	0327486	EC	1.0	12/03/10 23:19	<input type="checkbox"/>
140	L9636	G0K170514-4	0327486	EC	1.0	12/03/10 23:22	<input type="checkbox"/>
141	L9637	G0K170514-5	0327486	EC	1.0	12/03/10 23:26	<input type="checkbox"/>
142	L9638	G0K170514-6	0327486	EC	1.0	12/03/10 23:29	<input type="checkbox"/>
143	L9639	G0K170514-7	0327486	EC	1.0	12/03/10 23:33	<input type="checkbox"/>
144	CCV 26				1.0	12/03/10 23:37	<input type="checkbox"/>
145	CCB 26				1.0	12/03/10 23:41	<input type="checkbox"/>
146	CCV 27				1.0	12/03/10 23:44	<input type="checkbox"/>
147	CCB 27				1.0	12/03/10 23:48	<input type="checkbox"/>
148	L9634	G0K170514-2	0327486	EC	1.0	12/03/10 23:52	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
149	L9634P5	G0K170514	0327486		5.0	12/03/10 23:55	<input type="checkbox"/>
150	L9634X	G0K170514-2	0327486	EC	1.0	12/03/10 23:59	<input type="checkbox"/>
151	L9634Z	G0K170514-2	0327486		1.0	12/04/10 00:02	<input type="checkbox"/>
152	CCV 28				1.0	12/04/10 00:06	<input type="checkbox"/>
153	CCB 28				1.0	12/04/10 00:10	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Blank	12/03/10 15:23	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
2	Standard1	12/03/10 15:27	99.4	97.7	111.5	97.6	<input checked="" type="checkbox"/>
3	ICV	12/03/10 15:31	96.6	96.4	100.3	95.6	<input checked="" type="checkbox"/>
4	ICB	12/03/10 15:36	95.1	96.4	98.5	95.0	<input checked="" type="checkbox"/>
5	LLSTD1	12/03/10 15:46	95.3	96.2	101.0	94.8	<input checked="" type="checkbox"/>
6	LLSTD2	12/03/10 15:50	95.2	95.7	102.6	94.8	<input checked="" type="checkbox"/>
7	ICSA	12/03/10 15:56	73.8	71.6	84.1	71.7	<input checked="" type="checkbox"/>
8	ICSAB	12/03/10 16:00	71.3	69.3	84.4	69.0	<input checked="" type="checkbox"/>
9	Rinse	12/03/10 16:08	89.1	88.8	114.8	86.0	<input checked="" type="checkbox"/>
10	CCV 1	12/03/10 16:16	87.3	86.5	108.0	85.9	<input checked="" type="checkbox"/>
11	CCB 1	12/03/10 16:20	88.3	88.5	110.7	87.2	<input checked="" type="checkbox"/>
14	CCV 2	12/03/10 16:25	98.4	97.2	98.1	98.4	<input checked="" type="checkbox"/>
15	CCB 2	12/03/10 16:29	99.7	100.0	101.9	100.9	<input checked="" type="checkbox"/>
16	MAPE7B	12/03/10 16:33	97.6	100.4	79.0	102.6	<input checked="" type="checkbox"/>
17	MAPEVB	12/03/10 16:38	97.4	99.8	80.0	101.7	<input checked="" type="checkbox"/>
18	MAPEVC	12/03/10 16:42	93.0	97.8	77.0	98.8	<input checked="" type="checkbox"/>
19	MAPE7L	12/03/10 16:46	90.1	96.6	76.5	97.3	<input checked="" type="checkbox"/>
20	MAA80	12/03/10 16:50	92.2	97.6	76.4	98.6	<input checked="" type="checkbox"/>
21	MAA80P5	12/03/10 16:54	98.6	101.3	104.6	100.8	<input type="checkbox"/>
22	MAA80Z	12/03/10 16:58	89.0	94.1	76.5	95.3	<input checked="" type="checkbox"/>
23	MAA81	12/03/10 17:03	90.5	96.8	76.7	97.8	<input checked="" type="checkbox"/>
24	MAKDV	12/03/10 17:07	93.3	98.6	81.5	99.6	<input checked="" type="checkbox"/>
25	MAKD2	12/03/10 17:11	94.3	99.2	83.5	100.9	<input checked="" type="checkbox"/>
26	CCV 3	12/03/10 17:15	96.3	97.6	105.0	99.3	<input checked="" type="checkbox"/>
27	CCB 3	12/03/10 17:20	98.8	100.5	104.0	102.2	<input checked="" type="checkbox"/>
28	CCV 4	12/03/10 17:24	96.1	97.6	0.0	100.1	<input checked="" type="checkbox"/>
29	CCB 4	12/03/10 17:27	98.5	101.5	0.0	104.4	<input checked="" type="checkbox"/>
30	CCV 5	12/03/10 17:31	97.0	98.4	0.0	101.4	<input checked="" type="checkbox"/>
31	CCB 5	12/03/10 17:34	98.2	101.0	0.0	102.9	<input checked="" type="checkbox"/>
32	MAL4HB	12/03/10 17:38	97.0	102.5	0.0	106.0	<input checked="" type="checkbox"/>
33	MAL4HC	12/03/10 17:41	91.5	98.3	0.0	100.3	<input checked="" type="checkbox"/>
34	MAPE7L	12/03/10 17:45	90.1	98.2	0.0	100.0	<input checked="" type="checkbox"/>
35	MAGQR	12/03/10 17:48	92.7	98.5	0.0	101.1	<input checked="" type="checkbox"/>
36	MAGQRP5	12/03/10 17:51	96.0	101.2	0.0	101.7	<input type="checkbox"/>
37	MAGQRZ	12/03/10 17:55	90.5	96.9	0.0	98.8	<input checked="" type="checkbox"/>
38	MAGQW	12/03/10 17:58	91.8	98.0	0.0	99.9	<input checked="" type="checkbox"/>
39	CCV 6	12/03/10 18:02	97.1	99.1	0.0	100.5	<input checked="" type="checkbox"/>
40	CCB 6	12/03/10 18:05	97.9	100.4	0.0	102.2	<input checked="" type="checkbox"/>
41	MAGQX	12/03/10 18:09	95.7	101.1	0.0	103.8	<input checked="" type="checkbox"/>
42	MAGQ0	12/03/10 18:12	96.4	101.0	0.0	103.3	<input checked="" type="checkbox"/>
43	MAGQ1	12/03/10 18:16	98.0	102.2	0.0	104.8	<input checked="" type="checkbox"/>
44	MAGQ2	12/03/10 18:19	99.3	103.0	0.0	105.5	<input checked="" type="checkbox"/>
45	MAGQ3	12/03/10 18:22	100.9	104.5	0.0	108.3	<input checked="" type="checkbox"/>
46	CCV 7	12/03/10 18:26	100.4	99.8	0.0	102.6	<input checked="" type="checkbox"/>
47	CCB 7	12/03/10 18:29	101.6	103.1	0.0	105.5	<input checked="" type="checkbox"/>
48	CCV 8	12/03/10 18:33	100.4	100.6	0.0	103.2	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	M02 (M02)	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	CCB 8	12/03/10 18:36	101.4	103.0	0.0	105.7	<input checked="" type="checkbox"/>
50	ICSA	12/03/10 18:40	79.7	78.6	0.0	83.4	<input checked="" type="checkbox"/>
51	ICSAB	12/03/10 18:43	78.4	77.6	0.0	81.7	<input checked="" type="checkbox"/>
52	CCV 9	12/03/10 18:50	96.7	97.3	0.0	97.8	<input checked="" type="checkbox"/>
53	CCB 9	12/03/10 18:54	98.5	99.6	0.0	101.0	<input checked="" type="checkbox"/>
54	CCV 10	12/03/10 18:57	97.1	97.8	103.9	101.1	<input checked="" type="checkbox"/>
55	CCB 10	12/03/10 19:01	99.6	100.8	106.3	103.8	<input checked="" type="checkbox"/>
58	CCV 11	12/03/10 19:05	97.1	96.4	98.1	97.9	<input checked="" type="checkbox"/>
59	CCB 11	12/03/10 19:08	100.1	100.6	100.4	100.4	<input checked="" type="checkbox"/>
60	MARDNB	12/03/10 19:12	99.0	101.5	82.6	102.8	<input checked="" type="checkbox"/>
61	MARDNC	12/03/10 19:15	94.6	99.0	81.9	99.4	<input checked="" type="checkbox"/>
62	MARD8L	12/03/10 19:19	92.4	97.2	81.8	97.5	<input checked="" type="checkbox"/>
63	MAQPV	12/03/10 19:22	93.3	97.5	81.2	97.0	<input checked="" type="checkbox"/>
64	MAQPVP5	12/03/10 19:25	97.4	99.2	102.6	98.2	<input type="checkbox"/>
65	MAQPVX	12/03/10 19:29	96.1	98.3	81.6	98.5	<input checked="" type="checkbox"/>
66	MAQPVZ	12/03/10 19:32	93.0	96.2	81.0	96.7	<input checked="" type="checkbox"/>
67	MAQP0	12/03/10 19:36	93.4	96.2	80.7	96.7	<input checked="" type="checkbox"/>
68	MAQP3	12/03/10 19:39	94.2	96.7	82.2	96.9	<input checked="" type="checkbox"/>
69	CCV 12	12/03/10 19:43	96.5	97.4	100.5	97.2	<input checked="" type="checkbox"/>
70	CCB 12	12/03/10 19:46	99.3	101.0	103.2	100.3	<input checked="" type="checkbox"/>
71	MAQP4	12/03/10 19:50	96.0	98.8	80.6	99.5	<input checked="" type="checkbox"/>
72	MAQP6	12/03/10 19:53	99.6	103.0	86.2	103.2	<input checked="" type="checkbox"/>
73	MANX4	12/03/10 19:57	96.8	99.5	81.9	99.4	<input checked="" type="checkbox"/>
74	MANX9	12/03/10 20:00	93.7	95.9	77.5	96.7	<input checked="" type="checkbox"/>
75	MAN0F	12/03/10 20:04	93.6	97.4	76.1	96.6	<input checked="" type="checkbox"/>
76	MAN0P	12/03/10 20:07	92.7	95.9	75.9	95.9	<input checked="" type="checkbox"/>
77	MAN0Q	12/03/10 20:11	98.2	101.7	80.9	101.5	<input checked="" type="checkbox"/>
78	CCV 13	12/03/10 20:14	97.5	97.5	95.6	98.2	<input checked="" type="checkbox"/>
79	CCB 13	12/03/10 20:18	101.2	103.6	101.9	102.1	<input checked="" type="checkbox"/>
80	CCV 14	12/03/10 20:22	96.0	99.1	0.0	100.4	<input checked="" type="checkbox"/>
81	CCB 14	12/03/10 20:25	99.1	101.6	0.0	101.7	<input checked="" type="checkbox"/>
82	MAFD3	12/03/10 20:28	97.2	102.0	0.0	102.9	<input checked="" type="checkbox"/>
83	MAFD3P5	12/03/10 20:31	100.7	103.9	0.0	104.0	<input type="checkbox"/>
84	MAFD3Z	12/03/10 20:35	93.9	99.7	0.0	99.9	<input checked="" type="checkbox"/>
85	MAFD5	12/03/10 20:38	95.7	100.9	0.0	101.2	<input checked="" type="checkbox"/>
86	MAFD6	12/03/10 20:41	97.5	102.5	0.0	102.8	<input checked="" type="checkbox"/>
87	MAFD7	12/03/10 20:44	98.5	102.1	0.0	103.6	<input checked="" type="checkbox"/>
88	MAFD8	12/03/10 20:47	97.6	101.2	0.0	102.3	<input checked="" type="checkbox"/>
89	CCV 15	12/03/10 20:50	98.9	100.9	0.0	101.7	<input checked="" type="checkbox"/>
90	CCB 15	12/03/10 20:54	100.5	103.0	0.0	102.6	<input checked="" type="checkbox"/>
91	CCV 16	12/03/10 20:57	103.7	0.0	0.0	0.0	<input checked="" type="checkbox"/>
92	CCB 16	12/03/10 21:00	104.0	0.0	0.0	0.0	<input checked="" type="checkbox"/>
95	CCV 17	12/03/10 21:02	100.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
96	CCB 17	12/03/10 21:05	102.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
97	MAK04	12/03/10 21:07	100.0	0.0	0.0	0.0	<input checked="" type="checkbox"/>
98	MAK04P5	12/03/10 21:10	103.9	0.0	0.0	0.0	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 10:11:43

File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
99	MAK04Z	12/03/10 21:13	96.6	0.0	0.0	0.0	<input checked="" type="checkbox"/>
100	MAK07	12/03/10 21:15	96.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
101	MAK08	12/03/10 21:18	98.8	0.0	0.0	0.0	<input checked="" type="checkbox"/>
102	MAK09	12/03/10 21:20	103.2	0.0	0.0	0.0	<input checked="" type="checkbox"/>
103	CCV 18	12/03/10 21:23	98.6	0.0	0.0	0.0	<input checked="" type="checkbox"/>
104	CCB 18	12/03/10 21:25	101.7	0.0	0.0	0.0	<input checked="" type="checkbox"/>
105	CCV 19	12/03/10 21:28	96.1	0.0	0.0	0.0	<input checked="" type="checkbox"/>
106	CCB 19	12/03/10 21:32	97.5	0.0	0.0	0.0	<input checked="" type="checkbox"/>
109	CCV 20	12/03/10 21:36	99.1	98.4	98.6	100.1	<input checked="" type="checkbox"/>
110	CCB 20	12/03/10 21:39	98.9	99.7	97.5	99.6	<input checked="" type="checkbox"/>
111	MAHGVB	12/03/10 21:43	100.0	101.1	80.6	104.1	<input checked="" type="checkbox"/>
112	MAHGVC	12/03/10 21:47	97.1	99.0	80.9	100.8	<input checked="" type="checkbox"/>
113	MAHGVL	12/03/10 21:50	96.6	99.0	80.5	100.3	<input checked="" type="checkbox"/>
114	CCV 21	12/03/10 21:54	96.8	96.4	97.7	97.8	<input checked="" type="checkbox"/>
115	CCB 21	12/03/10 21:58	99.8	99.8	97.9	100.7	<input checked="" type="checkbox"/>
116	L9612	12/03/10 22:01	81.7	83.2	76.1	81.8	<input checked="" type="checkbox"/>
117	L9635	12/03/10 22:05	76.2	81.8	74.4	81.3	<input checked="" type="checkbox"/>
118	L9636	12/03/10 22:09	71.5	75.0	69.1	76.0	<input checked="" type="checkbox"/>
119	L9637	12/03/10 22:12	73.1	75.7	66.4	76.9	<input checked="" type="checkbox"/>
120	L9638	12/03/10 22:16	67.8	71.0	63.7	74.8	<input type="checkbox"/>
121	L9639	12/03/10 22:20	70.7	75.0	64.0	75.9	<input checked="" type="checkbox"/>
122	CCV 22	12/03/10 22:23	77.3	81.1	73.9	82.4	<input checked="" type="checkbox"/>
123	CCB 22	12/03/10 22:27	77.5	82.3	67.1	82.5	<input checked="" type="checkbox"/>
126	CCV 23	12/03/10 22:31	102.1	100.4	109.4	102.5	<input checked="" type="checkbox"/>
127	CCB 23	12/03/10 22:34	101.9	101.2	100.5	101.2	<input checked="" type="checkbox"/>
128	L9612	12/03/10 22:38	92.8	92.9	97.7	93.9	<input checked="" type="checkbox"/>
129	L9635	12/03/10 22:42	90.8	94.8	98.8	95.7	<input checked="" type="checkbox"/>
130	L9636	12/03/10 22:45	86.7	87.7	94.0	89.9	<input checked="" type="checkbox"/>
131	L9637	12/03/10 22:49	90.3	89.8	93.4	92.2	<input checked="" type="checkbox"/>
132	L9638	12/03/10 22:53	84.9	84.0	91.9	88.4	<input checked="" type="checkbox"/>
133	L9639	12/03/10 22:56	88.6	88.9	91.7	90.5	<input checked="" type="checkbox"/>
134	CCV 24	12/03/10 23:00	95.6	95.1	103.0	97.0	<input checked="" type="checkbox"/>
135	CCB 24	12/03/10 23:04	96.9	97.7	94.0	98.9	<input checked="" type="checkbox"/>
136	CCV 25	12/03/10 23:08	98.4	99.4	105.2	101.2	<input checked="" type="checkbox"/>
137	CCB 25	12/03/10 23:11	98.0	100.6	98.3	101.3	<input checked="" type="checkbox"/>
138	L9612	12/03/10 23:15	87.2	89.2	92.4	90.7	<input checked="" type="checkbox"/>
139	L9635	12/03/10 23:19	86.2	91.0	95.1	92.5	<input checked="" type="checkbox"/>
140	L9636	12/03/10 23:22	83.8	86.0	90.7	88.1	<input checked="" type="checkbox"/>
141	L9637	12/03/10 23:26	87.0	87.7	89.4	89.8	<input checked="" type="checkbox"/>
142	L9638	12/03/10 23:29	82.6	83.7	87.5	87.0	<input checked="" type="checkbox"/>
143	L9639	12/03/10 23:33	86.4	88.4	87.2	89.1	<input checked="" type="checkbox"/>
144	CCV 26	12/03/10 23:37	94.8	95.1	98.0	96.9	<input checked="" type="checkbox"/>
145	CCB 26	12/03/10 23:41	94.0	96.1	90.0	97.1	<input checked="" type="checkbox"/>
146	CCV 27	12/03/10 23:44	95.9	96.7	99.1	98.7	<input checked="" type="checkbox"/>
147	CCB 27	12/03/10 23:48	94.3	97.3	92.1	98.5	<input checked="" type="checkbox"/>
148	L9634	12/03/10 23:52	88.0	90.5	88.9	91.6	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	M02 (M02)	Reported: 12/07/10 10:11:43
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File ID: 101203B2A

Analyst: hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
149	L9634P5	12/03/10 23:55	89.7	93.3	90.6	93.7	<input type="checkbox"/>
150	L9634X	12/03/10 23:59	85.6	87.9	86.9	88.8	<input checked="" type="checkbox"/>
151	L9634Z	12/04/10 00:02	83.3	86.1	84.7	87.5	<input checked="" type="checkbox"/>
152	CCV 28	12/04/10 00:06	92.6	93.8	96.3	95.2	<input checked="" type="checkbox"/>
153	CCB 28	12/04/10 00:10	92.2	95.6	86.3	96.5	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Method: 6020

Instrument: M02

Batch: 101203B2A

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101203B2A, 3	12/03/2010 15:31:55	<input type="checkbox"/>
ICB	ICB	101203B2A, 4	12/03/2010 15:36:13	<input type="checkbox"/>
ICSA	ICSA	101203B2A, 7	12/03/2010 15:56:27	<input type="checkbox"/>
ICSAB	ICSAB	101203B2A, 8	12/03/2010 16:00:42	<input type="checkbox"/>
CCV 1	CCV	101203B2A, 10	12/03/2010 16:16:38	<input type="checkbox"/>
CCB 1	CCB	101203B2A, 11	12/03/2010 16:20:56	<input type="checkbox"/>
CCV 2	CCV	101203B2A, 14	12/03/2010 16:25:14	<input type="checkbox"/>
CCB 2	CCB	101203B2A, 15	12/03/2010 16:29:31	<input type="checkbox"/>
CCV 3	CCV	101203B2A, 26	12/03/2010 17:15:50	<input type="checkbox"/>
CCB 3	CCB	101203B2A, 27	12/03/2010 17:20:07	<input type="checkbox"/>
CCV 4	CCV	101203B2A, 28	12/03/2010 17:24:26	<input type="checkbox"/>
CCB 4	CCB	101203B2A, 29	12/03/2010 17:27:55	<input type="checkbox"/>
CCV 5	CCV	101203B2A, 30	12/03/2010 17:31:25	<input type="checkbox"/>
CCB 5	CCB	101203B2A, 31	12/03/2010 17:34:54	<input type="checkbox"/>
CCV 6	CCV	101203B2A, 39	12/03/2010 18:02:16	<input type="checkbox"/>
CCB 6	CCB	101203B2A, 40	12/03/2010 18:05:46	<input type="checkbox"/>
CCV 7	CCV	101203B2A, 46	12/03/2010 18:26:22	<input type="checkbox"/>
CCB 7	CCB	101203B2A, 47	12/03/2010 18:29:51	<input type="checkbox"/>
CCV 8	CCV	101203B2A, 48	12/03/2010 18:33:21	<input type="checkbox"/>
CCB 8	CCB	101203B2A, 49	12/03/2010 18:36:51	<input type="checkbox"/>
ICSA	ICSA	101203B2A, 50	12/03/2010 18:40:20	<input type="checkbox"/>
ICSAB	ICSAB	101203B2A, 51	12/03/2010 18:43:46	<input type="checkbox"/>
CCV 9	CCV	101203B2A, 52	12/03/2010 18:50:54	<input type="checkbox"/>
CCB 9	CCB	101203B2A, 53	12/03/2010 18:54:24	<input type="checkbox"/>
CCV 10	CCV	101203B2A, 54	12/03/2010 18:57:53	<input type="checkbox"/>
CCB 10	CCB	101203B2A, 55	12/03/2010 19:01:27	<input type="checkbox"/>
CCV 11	CCV	101203B2A, 58	12/03/2010 19:05:01	<input type="checkbox"/>
CCB 11	CCB	101203B2A, 59	12/03/2010 19:08:35	<input type="checkbox"/>
CCV 12	CCV	101203B2A, 69	12/03/2010 19:43:23	<input type="checkbox"/>
CCB 12	CCB	101203B2A, 70	12/03/2010 19:46:56	<input type="checkbox"/>
CCV 13	CCV	101203B2A, 78	12/03/2010 20:14:57	<input type="checkbox"/>
CCB 13	CCB	101203B2A, 79	12/03/2010 20:18:33	<input type="checkbox"/>
CCV 14	CCV	101203B2A, 80	12/03/2010 20:22:09	<input type="checkbox"/>
CCB 14	CCB	101203B2A, 81	12/03/2010 20:25:27	<input type="checkbox"/>
CCV 15	CCV	101203B2A, 89	12/03/2010 20:50:53	<input type="checkbox"/>
CCB 15	CCB	101203B2A, 90	12/03/2010 20:54:10	<input type="checkbox"/>
CCV 16	CCV	101203B2A, 91	12/03/2010 20:57:27	<input type="checkbox"/>
CCB 16	CCB	101203B2A, 92	12/03/2010 21:00:05	<input type="checkbox"/>
CCV 17	CCV	101203B2A, 95	12/03/2010 21:02:44	<input type="checkbox"/>
CCB 17	CCB	101203B2A, 96	12/03/2010 21:05:23	<input type="checkbox"/>
CCV 18	CCV	101203B2A, 103	12/03/2010 21:23:16	<input type="checkbox"/>
CCB 18	CCB	101203B2A, 104	12/03/2010 21:25:55	<input type="checkbox"/>
CCV 19	CCV	101203B2A, 105	12/03/2010 21:28:34	<input type="checkbox"/>
CCB 19	CCB	101203B2A, 106	12/03/2010 21:32:19	<input type="checkbox"/>
CCV 20	CCV	101203B2A, 109	12/03/2010 21:36:03	<input type="checkbox"/>
CCB 20	CCB	101203B2A, 110	12/03/2010 21:39:48	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Method: 6020

Instrument: M02

Batch: 101203B2A

Sample ID	Type	File - Sequence	Analyzed Date	Q
CCV 21	CCV	101203B2A, 114	12/03/2010 21:54:27	<input type="checkbox"/>
CCB 21	CCB	101203B2A, 115	12/03/2010 21:58:12	<input type="checkbox"/>
CCV 22	CCV	101203B2A, 122	12/03/2010 22:23:44	<input type="checkbox"/>
CCB 22	CCB	101203B2A, 123	12/03/2010 22:27:29	<input type="checkbox"/>
CCV 23	CCV	101203B2A, 126	12/03/2010 22:31:14	<input type="checkbox"/>
CCB 23	CCB	101203B2A, 127	12/03/2010 22:34:58	<input type="checkbox"/>
CCV 24	CCV	101203B2A, 134	12/03/2010 23:00:31	<input type="checkbox"/>
CCB 24	CCB	101203B2A, 135	12/03/2010 23:04:15	<input type="checkbox"/>
CCV 25	CCV	101203B2A, 136	12/03/2010 23:08:00	<input type="checkbox"/>
CCB 25	CCB	101203B2A, 137	12/03/2010 23:11:44	<input type="checkbox"/>
CCV 26	CCV	101203B2A, 144	12/03/2010 23:37:17	<input type="checkbox"/>
CCB 26	CCB	101203B2A, 145	12/03/2010 23:41:01	<input type="checkbox"/>
CCV 27	CCV	101203B2A, 146	12/03/2010 23:44:46	<input type="checkbox"/>
CCB 27	CCB	101203B2A, 147	12/03/2010 23:48:30	<input type="checkbox"/>
CCV 28	CCV	101203B2A, 152	12/04/2010 00:06:40	<input type="checkbox"/>
CCB 28	CCB	101203B2A, 153	12/04/2010 00:10:24	<input type="checkbox"/>



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: ICV (ICV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 3 Method 6020\_  
 Acquired: 12/03/2010 15:31:55 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	20615	80.465	80.000	101	
7440-42-8	Boron	11	266515	813.38	800.00	102	
7429-90-5	Aluminum	27	3165654	763.02	800.00	95.4	
7440-70-2	Calcium	44	148041	816.67	800.00	102	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	518115	79.021	80.000	98.8	
7440-47-3	Chromium	52	483898	80.027	80.000	100	
7439-89-6	Iron	54	448363	817.66	800.00	102	
7439-89-6	Iron	57	173404	817.33	800.00	102	
7439-96-5	Manganese	55	802857	80.967	80.000	101	
7440-48-4	Cobalt	59	638018	81.409	80.000	102	
7440-02-0	Nickel	60	133231	81.136	80.000	101	
7440-50-8	Copper	65	135898	81.811	80.000	102	
7440-66-6	Zinc	68	47309	82.681	80.000	103	
7440-38-2	Arsenic	75	126241	81.281	80.000	102	
7782-49-2	Selenium	82	13738	83.564	80.000	104	
7440-22-4	Silver	107	301683	40.246	40.000	101	
7440-43-9	Cadmium	111	131447	81.889	80.000	102	
7440-36-0	Antimony	121	214337	39.124	40.000	97.8	
7440-39-3	Barium	135	146754	80.080	80.000	100	
7440-28-0	Thallium	205	942072	42.559	40.000	106	
7439-92-1	Lead	208	2547603	81.782	80.000	102	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	937454		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1300595		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1577825		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1629082		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: ICB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 4 Method 6020\_  
 Acquired: 12/03/2010 15:36:13 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	6	0.00285	1.0	0.078	0.0	
7440-42-8	Boron	11	2834	6.6967	50.0	6.3	0.0	
7429-90-5	Aluminum	27	145595	2.6880	50.0	2.1	0.0	
7440-70-2	Calcium	44	4698	0.60594	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	-5937	-0.01114	10.0	3.1	0.0	
7440-47-3	Chromium	52	11764	0.04747	2.0	0.92	0.0	
7439-89-6	Iron	54	57183	-0.08422	50.0	17.0	0.0	
7439-89-6	Iron	57	4879	2.1527	50.0	17.0	0.0	
7439-96-5	Manganese	55	2907	0.02107	1.0	0.083	0.0	
7440-48-4	Cobalt	59	224	0.00331	1.0	0.057	0.0	
7440-02-0	Nickel	60	234	-0.00738	2.0	0.098	0.0	
7440-50-8	Copper	65	119	0.00734				
7440-66-6	Zinc	68	3121	0.02539	5.0	1.0	0.0	
7440-38-2	Arsenic	75	11961	-0.14182	2.0	0.50	0.0	
7782-49-2	Selenium	82	1156	0.39164	2.0	1.7	0.0	
7440-22-4	Silver	107	98	-0.00017	1.0	0.030	0.0	
7440-43-9	Cadmium	111	52	0.00057	1.0	0.074	0.0	
7440-36-0	Antimony	121	1167	0.17755	2.0	0.036	0.0	
7440-39-3	Barium	135	172	0.00516	1.0	0.96	0.0	
7440-28-0	Thallium	205	7267	0.25461	1.0	0.34	0.0	
7439-92-1	Lead	208	1102	0.00100	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	920644		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1280848		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1576846		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1619445		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: ICSA Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 7 Method 6020\_  
 Acquired: 12/03/2010 15:56:27 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	13	0.03861		*	<input checked="" type="checkbox"/>
7440-42-8	Boron	11	1111	1.9296		*	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	01310810	99317	100000	99.3	<input checked="" type="checkbox"/>
7440-70-2	Calcium	44	12837998	95674	100000	95.7	<input checked="" type="checkbox"/>
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	-4695	-0.02871		*	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	26807	3.9691		*	
7439-89-6	Iron	54	34607015	94773	100000	94.8	<input checked="" type="checkbox"/>
7439-89-6	Iron	57	14806292	93753	100000	93.8	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	49709	6.3057		*	
7440-48-4	Cobalt	59	10313	1.6970		*	
7440-02-0	Nickel	60	2582	1.9104		*	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	-821	-0.71248		*	
7440-66-6	Zinc	68	2243	-0.41069		*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	9337	-0.08818		*	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	1085	2.0307		*	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	903	0.14911		*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	1064	0.86109		*	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	978	0.20483		*	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	3868	2.7571		*	
7440-28-0	Thallium	205	4813	0.21443		*	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	13181	0.53004		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	785276				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	993747				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1171414				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1221353				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: ICSAB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 8 Method 6020\_  
 Acquired: 12/03/2010 16:00:42 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	21128	98.099	100.00	98.1	<input checked="" type="checkbox"/>
7440-42-8	Boron	11	126113	456.85	500.00	91.4	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	90386365	99142	100100	99.0	<input checked="" type="checkbox"/>
7440-70-2	Calcium	44	12301868	94959	100100	94.9	<input checked="" type="checkbox"/>
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	505120	104.14	100.00	104	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	456454	102.88	100.00	103	<input checked="" type="checkbox"/>
7439-89-6	Iron	54	33051218	93747	100100	93.7	<input checked="" type="checkbox"/>
7439-89-6	Iron	57	14103875	92499	100100	92.4	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	750677	102.70	100.00	103	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	562007	97.214	100.00	97.2	<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	114092	94.209	100.00	94.2	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	108081	88.205	100.00	88.2	<input checked="" type="checkbox"/>
7440-66-6	Zinc	68	38918	92.883	100.00	92.9	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	116362	103.76	100.00	104	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	13057	109.78	100.00	110	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	248223	46.107	50.000	92.2	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	110213	95.603	100.00	95.6	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	192052	48.817	50.000	97.6	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	136843	103.99	100.00	104	<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	844884	52.932	50.000	106	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	2412793	107.38	100.00	107	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	788098				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	959471				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1133276				<input type="checkbox"/>
7440-30-4	Thulium	169	1175161				<input type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 1 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 10 Method 6020\_  
 Acquired: 12/03/2010 16:16:38 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	27011	97.971	100.00	98.0	
7440-42-8	Boron	11	166501	471.31	500.00	94.3	
7429-90-5	Aluminum	27	19302985	5344.7	5100.0	105	
7440-70-2	Calcium	44	836646	5244.4	5100.0	103	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	596164	100.33	100.00	100	
7440-47-3	Chromium	52	547315	100.61	100.00	101	
7439-89-6	Iron	54	2224809	5034.3	5100.0	98.7	
7439-89-6	Iron	57	952546	5077.0	5100.0	99.5	
7439-96-5	Manganese	55	886335	98.932	100.00	98.9	
7440-48-4	Cobalt	59	715393	100.97	100.00	101	
7440-02-0	Nickel	60	149466	100.72	100.00	101	
7440-50-8	Copper	65	152038	101.26	100.00	101	
7440-66-6	Zinc	68	51347	100.44	100.00	100	
7440-38-2	Arsenic	75	141242	102.68	100.00	103	
7782-49-2	Selenium	82	15344	104.97	100.00	105	
7440-22-4	Silver	107	343300	51.077	50.000	102	
7440-43-9	Cadmium	111	146889	102.05	100.00	102	
7440-36-0	Antimony	121	248077	50.510	50.000	101	
7440-39-3	Barium	135	166829	101.55	100.00	102	
7440-28-0	Thallium	205	1029976	51.804	50.000	104	
7439-92-1	Lead	208	2866630	102.42	100.00	102	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1008930		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1175874		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1415030		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1463922		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 1

Mult: 1.00

Dil: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 11 Method 6020\_  
 Acquired: 12/03/2010 16:20:56 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	-0.01036	1.0	0.078	0.0	
7440-42-8	Boron	11	2106	3.7192	50.0	6.3	0.0	
7429-90-5	Aluminum	27	121122	-1.1826	50.0	2.1	0.0	
7440-70-2	Calcium	44	4031	-1.4532	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	-10101	-0.76739	10.0	3.1	0.0	
7440-47-3	Chromium	52	18978	1.5408	2.0	0.92	0.0	
7439-89-6	Iron	54	64055	25.041	50.0	17.0	0.0	
7439-89-6	Iron	57	7860	19.780	50.0	17.0	0.0	
7439-96-5	Manganese	55	2405	-0.01149	1.0	0.083	0.0	
7440-48-4	Cobalt	59	198	0.00200	1.0	0.057	0.0	
7440-02-0	Nickel	60	212	-0.01050	2.0	0.098	0.0	
7440-50-8	Copper	65	111	0.00821				
7440-66-6	Zinc	68	3035	0.30680	5.0	1.0	0.0	
7440-38-2	Arsenic	75	11323	0.02884	2.0	0.50	0.0	
7782-49-2	Selenium	82	1161	1.0324	2.0	1.7	0.0	
7440-22-4	Silver	107	95	0.00065	1.0	0.030	0.0	
7440-43-9	Cadmium	111	44	-0.00218	1.0	0.074	0.0	
7440-36-0	Antimony	121	128	-0.01028	2.0	0.036	0.0	
7440-39-3	Barium	135	149	-0.00015	1.0	0.96	0.0	
7440-28-0	Thallium	205	15021	0.67038	1.0	0.34	0.0	
7439-92-1	Lead	208	988	0.00020	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1034155		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1189137		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1447436		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1485664		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 2 (CCV)

Mult: 1.00

Dil: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 14 Method 6020\_  
 Acquired: 12/03/2010 16:25:14 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	26738	98.408	100.00	98.4	
7440-42-8	Boron	11	167114	498.86	500.00	99.8	
7429-90-5	Aluminum	27	19207127	5100.4	5100.0	100	
7440-70-2	Calcium	44	831234	5092.7	5100.0	99.9	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	588154	99.174	100.00	99.2	
7440-47-3	Chromium	52	539256	98.993	100.00	99.0	
7439-89-6	Iron	54	2190909	5046.3	5100.0	98.9	
7439-89-6	Iron	57	941068	5064.0	5100.0	99.3	
7439-96-5	Manganese	55	874992	99.218	100.00	99.2	
7440-48-4	Cobalt	59	707415	99.389	100.00	99.4	
7440-02-0	Nickel	60	148590	99.922	100.00	99.9	
7440-50-8	Copper	65	151195	99.953	100.00	100	
7440-66-6	Zinc	68	50814	99.438	100.00	99.4	
7440-38-2	Arsenic	75	139527	99.227	100.00	99.2	
7782-49-2	Selenium	82	15247	99.870	100.00	99.9	
7440-22-4	Silver	107	338489	49.586	50.000	99.2	
7440-43-9	Cadmium	111	144909	99.233	100.00	99.2	
7440-36-0	Antimony	121	245021	49.671	50.000	99.3	
7440-39-3	Barium	135	164991	99.468	100.00	99.5	
7440-28-0	Thallium	205	1024454	49.799	50.000	99.6	
7439-92-1	Lead	208	2841230	99.254	100.00	99.3	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1014781		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1169931		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1406701		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1461814		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 2 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 15 Method 6020\_  
 Acquired: 12/03/2010 16:29:31 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	7	0.01397	1.0	0.078	0.0	
7440-42-8	Boron	11	2228	0.23504	50.0	6.3	0.0	
7429-90-5	Aluminum	27	121655	0.23398	50.0	2.1	0.0	
7440-70-2	Calcium	44	4046	0.15813	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	-10982	-0.14856	10.0	3.1	0.0	
7440-47-3	Chromium	52	19404	0.09043	2.0	0.92	0.0	
7439-89-6	Iron	54	64003	0.31433	50.0	17.0	0.0	
7439-89-6	Iron	57	7909	0.38328	50.0	17.0	0.0	
7439-96-5	Manganese	55	2496	0.01099	1.0	0.083	0.0	
7440-48-4	Cobalt	59	212	0.00197	1.0	0.057	0.0	
7440-02-0	Nickel	60	201	-0.00691	2.0	0.098	0.0	
7440-50-8	Copper	65	117	0.00394				
7440-66-6	Zinc	68	3030	0.00856	5.0	1.0	0.0	
7440-38-2	Arsenic	75	11257	-0.02502	2.0	0.50	0.0	
7782-49-2	Selenium	82	1140	-0.12688	2.0	1.7	0.0	
7440-22-4	Silver	107	101	0.00085	1.0	0.030	0.0	
7440-43-9	Cadmium	111	47	0.00178	1.0	0.074	0.0	
7440-36-0	Antimony	121	145	0.00336	2.0	0.036	0.0	
7440-39-3	Barium	135	156	0.00410	1.0	0.96	0.0	
7440-28-0	Thallium	205	16056	0.04302	1.0	0.34	0.0	
7439-92-1	Lead	208	1028	0.00104	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1054187		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1185681		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1447859		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1499480		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 3 (CCV) Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 26 Method 6020\_  
 Acquired: 12/03/2010 17:15:50 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	27151	93.427	100.00	93.4	
7440-42-8	Boron	11	161889	451.21	500.00	90.2	
7429-90-5	Aluminum	27	18426595	4996.9	5100.0	98.0	
7440-70-2	Calcium	44	807330	5051.5	5100.0	99.0	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	573477	98.763	100.00	98.8	
7440-47-3	Chromium	52	529207	99.226	100.00	99.2	
7439-89-6	Iron	54	2198048	5174.2	5100.0	101	
7439-89-6	Iron	57	929033	5105.9	5100.0	100	
7439-96-5	Manganese	55	863926	100.05	100.00	100	
7440-48-4	Cobalt	59	697048	100.02	100.00	100	
7440-02-0	Nickel	60	146181	100.39	100.00	100	
7440-50-8	Copper	65	148762	100.44	100.00	100	
7440-66-6	Zinc	68	50101	100.18	100.00	100	
7440-38-2	Arsenic	75	135124	98.050	100.00	98.0	
7782-49-2	Selenium	82	15014	100.48	100.00	100	
7440-22-4	Silver	107	332889	48.563	50.000	97.1	
7440-43-9	Cadmium	111	143183	97.645	100.00	97.6	
7440-36-0	Antimony	121	243400	49.137	50.000	98.3	
7440-39-3	Barium	135	161357	96.874	100.00	96.9	
7440-28-0	Thallium	205	993967	47.863	50.000	95.7	
7439-92-1	Lead	208	2775867	96.126	100.00	96.1	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1085406		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1145497		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1412505		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1474597		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 3 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 27 Method 6020\_  
 Acquired: 12/03/2010 17:20:07 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00070	1.0	0.078	0.0	
7440-42-8	Boron	11	3088	2.5692	50.0	6.3	0.0	
7429-90-5	Aluminum	27	119371	-0.07522	50.0	2.1	0.0	
7440-70-2	Calcium	44	4183	1.2305	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	-9928	0.00796	10.0	3.1	0.0	
7440-47-3	Chromium	52	19959	0.22924	2.0	0.92	0.0	
7439-89-6	Iron	54	64978	4.0144	50.0	17.0	0.0	
7439-89-6	Iron	57	7623	-0.76482	50.0	17.0	0.0	
7439-96-5	Manganese	55	2361	-0.00161	1.0	0.083	0.0	
7440-48-4	Cobalt	59	228	0.00454	1.0	0.057	0.0	
7440-02-0	Nickel	60	227	0.01134	2.0	0.098	0.0	
7440-50-8	Copper	65	121	0.00733				
7440-66-6	Zinc	68	3061	0.12983	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10874	-0.24033	2.0	0.50	0.0	
7782-49-2	Selenium	82	1132	-0.11019	2.0	1.7	0.0	
7440-22-4	Silver	107	107	0.00159	1.0	0.030	0.0	
7440-43-9	Cadmium	111	50	0.00395	1.0	0.074	0.0	
7440-36-0	Antimony	121	215	0.01683	2.0	0.036	0.0	
7440-39-3	Barium	135	165	0.00914	1.0	0.96	0.0	
7440-28-0	Thallium	205	17200	0.08785	1.0	0.34	0.0	
7439-92-1	Lead	208	1136	0.00425	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	1075596					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1174711					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1454130					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1518270					<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV4 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 28 Method 6020\_  
 Acquired: 12/03/2010 17:24:26 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	19517243	5309.4	5100.0	104	
7440-70-2	Calcium	44	831353	5217.2	5100.0	102	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	327653	57.289	100.00	57.3	
7440-47-3	Chromium	52	533726	100.39	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	866305	100.61	100.00	101	
7440-48-4	Cobalt	59	695255	100.04	100.00	100	
7440-02-0	Nickel	60	145908	100.49	100.00	100	
7440-50-8	Copper	65	148809	100.75	100.00	101	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	136513	99.449	100.00	99.4	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	144123	98.258	100.00	98.3	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2825988	97.074	100.00	97.1	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1142316		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1413064		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1486586		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 4 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 29 Method 6020\_  
 Acquired: 12/03/2010 17:27:55 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	124545	1.4105	50.0	2.1	0.0	
7440-70-2	Calcium	44	3777	-1.1818	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1356	1.8720	10.0	3.1	0.0	
7440-47-3	Chromium	52	19566	0.16728	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2298	-0.00798	1.0	0.083	0.0	
7440-48-4	Cobalt	59	235	0.00557	1.0	0.057	0.0	
7440-02-0	Nickel	60	202	-0.00482	2.0	0.098	0.0	
7440-50-8	Copper	65	119	0.00613				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	11375	0.17545	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	58	0.00860	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1120	0.00289	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1170916		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1469511		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1551140		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 5 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 30 Method 6020\_  
 Acquired: 12/03/2010 17:31:25 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	19424360	5235.5	5100.0	103	
7440-70-2	Calcium	44	831582	5170.8	5100.0	101	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	330012	57.178	100.00	57.2	
7440-47-3	Chromium	52	536373	99.956	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	871507	100.29	100.00	100	
7440-48-4	Cobalt	59	699153	99.686	100.00	99.7	
7440-02-0	Nickel	60	146794	100.17	100.00	100	
7440-50-8	Copper	65	149882	100.55	100.00	101	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	136624	98.550	100.00	98.5	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	144790	97.906	100.00	97.9	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2849838	96.627	100.00	96.6	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1152927				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1424602				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1506141				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 10:12:11
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 5 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101203B2A # 31	Method 6020_
Acquired: 12/03/2010 17:34:54	M02
Calibrated: 12/03/2010 15:23:15	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	125288	1.7144	50.0	2.1	0.0	
7440-70-2	Calcium	44	3858	-0.60832	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1674	1.9258	10.0	3.1	0.0	
7440-47-3	Chromium	52	20099	0.28039	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2333	-0.00307	1.0	0.083	0.0	
7440-48-4	Cobalt	59	211	0.00230	1.0	0.057	0.0	
7440-02-0	Nickel	60	209	0.00035	2.0	0.098	0.0	
7440-50-8	Copper	65	119	0.00610				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	10895	-0.16947	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	50	0.00355	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1061	0.00150	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1167172		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1461290		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1528298		<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 6 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 39 Method 6020\_  
 Acquired: 12/03/2010 18:02:16 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	19744232	5314.0	5100.0	104	
7440-70-2	Calcium	44	831369	5161.5	5100.0	101	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	328475	56.835	100.00	56.8	
7440-47-3	Chromium	52	538228	100.15	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	871419	100.12	100.00	100	
7440-48-4	Cobalt	59	693467	98.717	100.00	98.7	
7440-02-0	Nickel	60	145330	99.018	100.00	99.0	
7440-50-8	Copper	65	148606	99.536	100.00	99.5	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	136439	98.233	100.00	98.2	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	143995	96.735	100.00	96.7	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2777991	94.985	100.00	95.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1154771		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1434060		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1493687		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 10:12:11
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Department: 120 (Metals)

Source: MetEdit

Sample: CCB 6

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101203B2A # 40	Method 6020_
Acquired: 12/03/2010 18:05:46	M02
Calibrated: 12/03/2010 15:23:15	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	123940	1.4494	50.0	2.1	0.0	
7440-70-2	Calcium	44	4094	0.91202	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1093	1.8310	10.0	3.1	0.0	
7440-47-3	Chromium	52	20756	0.41706	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2343	-0.00120	1.0	0.083	0.0	
7440-48-4	Cobalt	59	222	0.00398	1.0	0.057	0.0	
7440-02-0	Nickel	60	215	0.00471	2.0	0.098	0.0	
7440-50-8	Copper	65	127	0.01176				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	10997	-0.06675	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	48	0.00229	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1142	0.00442	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6						<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1163877					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1453468					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1518863					<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 7 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 46 Method 6020\_  
 Acquired: 12/03/2010 18:26:22 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	20659229	5379.0	5100.0	105	
7440-70-2	Calcium	44	873791	5247.9	5100.0	103	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	344919	57.703	100.00	57.7	
7440-47-3	Chromium	52	564075	101.58	100.00	102	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	912402	101.41	100.00	101	
7440-48-4	Cobalt	59	734462	101.14	100.00	101	
7440-02-0	Nickel	60	154590	101.89	100.00	102	
7440-50-8	Copper	65	157607	102.12	100.00	102	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	142744	99.525	100.00	99.5	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	148579	99.127	100.00	99.1	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2871031	96.165	100.00	96.2	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1193589				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1443831				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1524522				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 7

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 47 Method 6020\_  
 Acquired: 12/03/2010 18:29:51 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	126157	0.80802	50.0	2.1	0.0	
7440-70-2	Calcium	44	4187	0.54639	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1509	1.8900	10.0	3.1	0.0	
7440-47-3	Chromium	52	20223	0.17421	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2430	-0.00139	1.0	0.083	0.0	
7440-48-4	Cobalt	59	263	0.00838	1.0	0.057	0.0	
7440-02-0	Nickel	60	223	0.00483	2.0	0.098	0.0	
7440-50-8	Copper	65	132	0.01190				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	11429	-0.05420	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	59	0.00861	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1185	0.00462	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6						<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1207912					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1491802					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1567846					<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 8 (CCV) Mult: 1.00 Dil: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 48 Method 6020\_  
 Acquired: 12/03/2010 18:33:21 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	20368044	5300.8	5100.0	104	
7440-70-2	Calcium	44	865848	5198.2	5100.0	102	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	342712	57.327	100.00	57.3	
7440-47-3	Chromium	52	559161	100.63	100.00	101	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	908181	100.91	100.00	101	
7440-48-4	Cobalt	59	728768	100.32	100.00	100	
7440-02-0	Nickel	60	153090	100.87	100.00	101	
7440-50-8	Copper	65	156211	101.18	100.00	101	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	142176	99.052	100.00	99.1	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	149021	98.587	100.00	98.6	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2878315	95.858	100.00	95.9	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1194036		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1456057		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1533284		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 8 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 49 Method 6020\_  
 Acquired: 12/03/2010 18:36:51 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	126295	0.91603	50.0	2.1	0.0	
7440-70-2	Calcium	44	4259	1.0327	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1858	1.9473	10.0	3.1	0.0	
7440-47-3	Chromium	52	20489	0.23110	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2450	0.00138	1.0	0.083	0.0	
7440-48-4	Cobalt	59	257	0.00764	1.0	0.057	0.0	
7440-02-0	Nickel	60	233	0.01194	2.0	0.098	0.0	
7440-50-8	Copper	65	120	0.00462				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	10988	-0.36649	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	62	0.01066	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1222	0.00579	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1205343		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1491181		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1570126		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: ICSA

Mult: 1.00

Diif: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 50

Method 6020\_

Acquired: 12/03/2010 18:40:20

M02

Calibrated: 12/03/2010 15:23:15

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9				*	<input checked="" type="checkbox"/>
7440-42-8	Boron	11				*	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	02043512	99635	100000	99.6	<input checked="" type="checkbox"/>
7440-70-2	Calcium	44	12752209	96920	100000	96.9	<input checked="" type="checkbox"/>
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	3368	2.3372		*	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	25918	2.5353		*	
7439-89-6	Iron	54			100000	0.00	<input type="checkbox"/>
7439-89-6	Iron	57			100000	0.00	<input type="checkbox"/>
7439-96-5	Manganese	55	48477	6.5376		*	
7440-48-4	Cobalt	59	10103	1.7258		*	
7440-02-0	Nickel	60	2967	2.3265		*	
7440-50-8	Copper	65	-402	-0.40127		*	
7440-66-6	Zinc	68				*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	9343	0.30588		*	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82				*	<input checked="" type="checkbox"/>
7440-22-4	Silver	107				*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	1211	0.99751		*	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121				*	<input checked="" type="checkbox"/>
7440-39-3	Barium	135				*	<input checked="" type="checkbox"/>
7440-28-0	Thallium	205				*	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	12572	0.48458		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	947387				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1137023				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1238488				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: ICSAB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 51 Method 6020\_  
 Acquired: 12/03/2010 18:43:46 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	<input type="checkbox"/>
7440-42-8	Boron	11			500.00	0.00	<input type="checkbox"/>
7429-90-5	Aluminum	27	95452982	99086	100100	99.0	<input checked="" type="checkbox"/>
7440-70-2	Calcium	44	12443176	96146	100100	96.0	<input checked="" type="checkbox"/>
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	275573	59.014	100.00	59.0	<input type="checkbox"/>
7440-47-3	Chromium	52	447113	103.19	100.00	103	<input checked="" type="checkbox"/>
7439-89-6	Iron	54			100100	0.00	<input type="checkbox"/>
7439-89-6	Iron	57			100100	0.00	<input type="checkbox"/>
7439-96-5	Manganese	55	742614	105.74	100.00	106	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	548825	96.803	100.00	96.8	<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	111566	94.180	100.00	94.2	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	106470	88.355	100.00	88.4	<input checked="" type="checkbox"/>
7440-66-6	Zinc	68			100.00	0.00	<input type="checkbox"/>
7440-38-2	Arsenic	75	110673	98.781	100.00	98.8	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82			100.00	0.00	<input type="checkbox"/>
7440-22-4	Silver	107			50.000	0.00	<input type="checkbox"/>
7440-43-9	Cadmium	111	108373	92.922	100.00	92.9	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121			50.000	0.00	<input type="checkbox"/>
7440-39-3	Barium	135			100.00	0.00	<input type="checkbox"/>
7440-28-0	Thallium	205			50.000	0.00	<input type="checkbox"/>
7439-92-1	Lead	208	2318673	97.510	100.00	97.5	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	931910				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1123570				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1214345				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 9 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 52 Method 6020\_  
 Acquired: 12/03/2010 18:50:54 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27	18803624	5082.4	5100.0	99.7	
7440-70-2	Calcium	44	822467	5129.1	5100.0	101	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	328655	57.115	100.00	57.1	
7440-47-3	Chromium	52	534656	99.933	100.00	99.9	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	876444	101.16	100.00	101	
7440-48-4	Cobalt	59	692436	99.020	100.00	99.0	
7440-02-0	Nickel	60	144869	99.155	100.00	99.2	
7440-50-8	Copper	65	147543	99.277	100.00	99.3	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	136828	99.028	100.00	99.0	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	144577	98.857	100.00	98.9	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2707747	95.170	100.00	95.2	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1149406		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1408844		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1452916		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 9 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 53 Method 6020\_  
 Acquired: 12/03/2010 18:54:24 M02  
 Calibrated: 12/03/2010 15:23:15 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27	123752	1.1987	50.0	2.1	0.0	
7440-70-2	Calcium	44	3659	-1.9065	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	59	1.6575	10.0	3.1	0.0	
7440-47-3	Chromium	52	17962	-0.13768	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2434	0.00749	1.0	0.083	0.0	
7440-48-4	Cobalt	59	278	0.01162	1.0	0.057	0.0	
7440-02-0	Nickel	60	209	0.00015	2.0	0.098	0.0	
7440-50-8	Copper	65	123	0.00878				
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	11247	0.07454	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	61	0.01113	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1150	0.00519	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1170890		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1442098		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1500176		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 10 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 54

Method 6020\_

Acquired: 12/03/2010 18:57:53

M02

Calibrated: 12/03/2010 15:23:15

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	26837	93.306	100.00	93.3	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	816188	5064.7	5100.0	99.3	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	329956	57.063	100.00	57.1	
7440-47-3	Chromium	52	538442	100.16	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	876286	100.65	100.00	101	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	146132	99.528	100.00	99.5	
7440-50-8	Copper	65	148407	99.369	100.00	99.4	
7440-66-6	Zinc	68	50233	99.573	100.00	99.6	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	142798	97.198	100.00	97.2	
7440-36-0	Antimony	121	242641	48.891	50.000	97.8	
7440-39-3	Barium	135	160884	96.407	100.00	96.4	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2778659	94.472	100.00	94.5	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1074268		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1155045		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1415176		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1501918		<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 10

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 55

Method 6020\_

Acquired: 12/03/2010 19:01:27

M02

Calibrated: 12/03/2010 18:57:53

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	6	0.00837	1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3832	-1.1193	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	22	1.6511	10.0	3.1	0.0	
7440-47-3	Chromium	52	18785	-0.02371	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2434	0.00422	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	216	0.00289	2.0	0.098	0.0	
7440-50-8	Copper	65	129	0.01193				
7440-66-6	Zinc	68	2957	-0.13693	5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	65	0.01380	1.0	0.074	0.0	
7440-36-0	Antimony	121	163	0.00653	2.0	0.036	0.0	
7440-39-3	Barium	135	177	0.01555	1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1213	0.00620	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	1099244					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1184929					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1459062					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1541729					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 11 (CCV) Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 58 Method 6020\_  
 Acquired: 12/03/2010 19:05:01 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	27129	100.76	100.00	101	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	822442	5157.4	5100.0	101	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	330582	100.54	100.00	101	
7440-47-3	Chromium	52	538295	100.33	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	876114	100.33	100.00	100	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	146464	100.58	100.00	101	
7440-50-8	Copper	65	148717	100.56	100.00	101	
7440-66-6	Zinc	68	50005	99.893	100.00	99.9	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	142627	100.47	100.00	100	
7440-36-0	Antimony	121	244322	50.648	50.000	101	
7440-39-3	Barium	135	161231	100.82	100.00	101	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2800704	100.28	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1077999		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1151082		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1406945		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1509728		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 11

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 59

Method 6020\_

Acquired: 12/03/2010 19:08:35

M02

Calibrated: 12/03/2010 19:01:27

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	11	0.01696	1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3847	0.07436	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	813	0.23324	10.0	3.1	0.0	
7440-47-3	Chromium	52	18960	0.03096	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2430	-0.00060	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	218	0.00125	2.0	0.098	0.0	
7440-50-8	Copper	65	120	-0.00636				
7440-66-6	Zinc	68	2961	0.00245	5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	54	-0.00818	1.0	0.074	0.0	
7440-36-0	Antimony	121	153	-0.00217	2.0	0.036	0.0	
7440-39-3	Barium	135	168	-0.00577	1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1200	-0.00061	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	1104177					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1185637					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1467295					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1548243					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 12 (CCV) Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 69 Method 6020\_  
 Acquired: 12/03/2010 19:43:23 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	27545	99.864	100.00	99.9	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	820073	5177.6	5100.0	102	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	330528	101.21	100.00	101	
7440-47-3	Chromium	52	540647	101.50	100.00	101	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	874120	100.79	100.00	101	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	145688	100.73	100.00	101	
7440-50-8	Copper	65	148294	100.96	100.00	101	
7440-66-6	Zinc	68	50299	101.24	100.00	101	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	142309	99.278	100.00	99.3	
7440-36-0	Antimony	121	242743	49.831	50.000	99.7	
7440-39-3	Barium	135	159998	99.071	100.00	99.1	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2770610	99.957	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1104219		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1143237		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1420582		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1498191		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCB 12 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 70 Method 6020\_  
 Acquired: 12/03/2010 19:46:56 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	10	0.01232	1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3942	0.84952	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1655	0.48580	10.0	3.1	0.0	
7440-47-3	Chromium	52	21013	0.44649	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	2388	-0.00314	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	233	0.01221	2.0	0.098	0.0	
7440-50-8	Copper	65	137	0.00560				
7440-66-6	Zinc	68	3052	0.24110	5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	61	-0.00330	1.0	0.074	0.0	
7440-36-0	Antimony	121	194	0.00590	2.0	0.036	0.0	
7440-39-3	Barium	135	175	-0.00248	1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1239	0.00080	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	1134768					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1176256					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1473729					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1546563					<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 13 (CCV) Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 78 Method 6020\_  
 Acquired: 12/03/2010 20:14:57 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	26718	101.78	100.00	102	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	816752	5104.3	5100.0	100	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	330745	100.26	100.00	100	
7440-47-3	Chromium	52	540540	100.43	100.00	100	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	882833	100.77	100.00	101	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	146175	100.05	100.00	100	
7440-50-8	Copper	65	149504	100.76	100.00	101	
7440-66-6	Zinc	68	50216	99.985	100.00	100	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	144760	100.88	100.00	101	
7440-36-0	Antimony	121	247699	50.790	50.000	102	
7440-39-3	Barium	135	161582	99.941	100.00	99.9	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2796662	99.907	100.00	99.9	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1050971		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1155110		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1422814		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1513333		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 13 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 79 Method 6020\_  
 Acquired: 12/03/2010 20:18:33 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	7	0.00316	1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3620	-1.5732	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	-604	-0.18289	10.0	3.1	0.0	
7440-47-3	Chromium	52	19240	0.04086	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	1610	-0.09414	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	144	-0.04899	2.0	0.098	0.0	
7440-50-8	Copper	65	128	-0.00212				
7440-66-6	Zinc	68	2624	-0.75337	5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	45	-0.01512	1.0	0.074	0.0	
7440-36-0	Antimony	121	182	0.00262	2.0	0.036	0.0	
7440-39-3	Barium	135	155	-0.01628	1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	974	-0.00910	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1119709		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1199649		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1510988		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1574715		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 14 (CCV) Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 80 Method 6020\_  
 Acquired: 12/03/2010 20:22:09 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	853299	5414.1	5100.0	106	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	336859	103.64	100.00	104	
7440-47-3	Chromium	52	548794	103.59	100.00	104	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55			100.00	0.00	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	146439	101.73	100.00	102	
7440-50-8	Copper	65			100.00	0.00	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	146232	100.25	100.00	100	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2857623	99.797	100.00	99.8	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1137840		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1445646		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1547724		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 14

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 81

Method 6020\_

Acquired: 12/03/2010 20:25:27

M02

Calibrated: 12/03/2010 19:01:27

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3494	-1.8803	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	455	0.12878	10.0	3.1	0.0	
7440-47-3	Chromium	52	20372	0.33165	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55			1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	145	-0.04632	2.0	0.098	0.0	
7440-50-8	Copper	65						
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	48	-0.01219	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1001	-0.00800	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6						<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1174414					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1481881					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1567730					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 15 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 89 Method 6020\_  
 Acquired: 12/03/2010 20:50:53 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	876020	5397.6	5100.0	106	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51	342213	102.24	100.00	102	
7440-47-3	Chromium	52	560568	102.72	100.00	103	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55			100.00	0.00	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60	149060	100.56	100.00	101	
7440-50-8	Copper	65			100.00	0.00	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111	145620	97.992	100.00	98.0	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208	2831730	97.629	100.00	97.6	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1171787		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1472717		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1567736		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 15 Mult: 1.00 Dif: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 90 Method 6020\_  
 Acquired: 12/03/2010 20:54:10 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	3834	-0.09852	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51	1138	0.32974	10.0	3.1	0.0	
7440-47-3	Chromium	52	22387	0.65626	2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55			1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60	142	-0.05009	2.0	0.098	0.0	
7440-50-8	Copper	65						
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111	52	-0.01036	1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208	1020	-0.00767	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1190416		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1503028		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1581467		<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 16 (CCV)

Mult: 1.00

Diff: 1.00

Divs: 1.00

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 91 Method 6020\_  
 Acquired: 12/03/2010 20:57:27 M02  
 Calibrated: 12/03/2010 19:01:27 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	891482	5237.5	5100.0	103	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51			100.00	0.00	
7440-47-3	Chromium	52			100.00	0.00	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	946426	101.54	100.00	102	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60			100.00	0.00	
7440-50-8	Copper	65			100.00	0.00	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75			100.00	0.00	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111			100.00	0.00	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208			100.00	0.00	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1229014		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input type="checkbox"/>
7440-30-4	Thulium	169			<input type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 16

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 92

Method 6020\_

Acquired: 12/03/2010 21:00:05

M02

Calibrated: 12/03/2010 20:57:27

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	5615	9.5889	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51			10.0	3.1	0.0	
7440-47-3	Chromium	52			2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	1846	-0.07349	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60			2.0	0.098	0.0	
7440-50-8	Copper	65						
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75			2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111			1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208			1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1232304		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input type="checkbox"/>
7440-30-4	Thulium	169			<input type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 10:12:11

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 17 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101203B2A # 95

Method 6020\_

Acquired: 12/03/2010 21:02:44

M02

Calibrated: 12/03/2010 21:00:05

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	890819	5077.0	5100.0	99.5	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51			100.00	0.00	
7440-47-3	Chromium	52			100.00	0.00	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	947216	99.710	100.00	99.7	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60			100.00	0.00	
7440-50-8	Copper	65			100.00	0.00	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	144439	99.488	100.00	99.5	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111			100.00	0.00	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208			100.00	0.00	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1233714		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input checked="" type="checkbox"/>
7440-30-4	Thulium	169			<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit  
 Sample: CCB 17 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 96 Method 6020\_  
 Acquired: 12/03/2010 21:05:23 M02  
 Calibrated: 12/03/2010 21:00:05 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	5592	-0.79665	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51			10.0	3.1	0.0	
7440-47-3	Chromium	52			2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	1824	-0.00627	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60			2.0	0.098	0.0	
7440-50-8	Copper	65						
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	11608	-0.70024	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111			1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208			1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1258532		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input checked="" type="checkbox"/>
7440-30-4	Thulium	169			<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCV 18 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 103 Method 6020\_  
 Acquired: 12/03/2010 21:23:16 M02  
 Calibrated: 12/03/2010 21:00:05 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9			100.00	0.00	
7440-42-8	Boron	11			500.00	0.00	
7429-90-5	Aluminum	27			5100.0	0.00	
7440-70-2	Calcium	44	892819	5163.9	5100.0	101	
7440-20-2	Scandium	45				*	
7440-62-2	Vanadium	51			100.00	0.00	
7440-47-3	Chromium	52			100.00	0.00	
7439-89-6	Iron	54			5100.0	0.00	
7439-89-6	Iron	57			5100.0	0.00	
7439-96-5	Manganese	55	953741	101.88	100.00	102	
7440-48-4	Cobalt	59			100.00	0.00	
7440-02-0	Nickel	60			100.00	0.00	
7440-50-8	Copper	65			100.00	0.00	
7440-66-6	Zinc	68			100.00	0.00	
7440-38-2	Arsenic	75	144444	101.09	100.00	101	
7782-49-2	Selenium	82			100.00	0.00	
7440-22-4	Silver	107			50.000	0.00	
7440-43-9	Cadmium	111			100.00	0.00	
7440-36-0	Antimony	121			50.000	0.00	
7440-39-3	Barium	135			100.00	0.00	
7440-28-0	Thallium	205			50.000	0.00	
7439-92-1	Lead	208			100.00	0.00	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1215595		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input checked="" type="checkbox"/>
7440-30-4	Thulium	169			<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 10:12:11

Department: 120 (Metals) Source: MetEdit

Sample: CCB 18 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 104 Method 6020\_  
 Acquired: 12/03/2010 21:25:55 M02  
 Calibrated: 12/03/2010 21:00:05 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9			1.0	0.078	0.0	
7440-42-8	Boron	11			50.0	6.3	0.0	
7429-90-5	Aluminum	27			50.0	2.1	0.0	
7440-70-2	Calcium	44	5740	0.15469	50.0	15.0	0.0	
7440-20-2	Scandium	45						
7440-62-2	Vanadium	51			10.0	3.1	0.0	
7440-47-3	Chromium	52			2.0	0.92	0.0	
7439-89-6	Iron	54			50.0	17.0	0.0	
7439-89-6	Iron	57			50.0	17.0	0.0	
7439-96-5	Manganese	55	1949	0.00738	1.0	0.083	0.0	
7440-48-4	Cobalt	59			1.0	0.057	0.0	
7440-02-0	Nickel	60			2.0	0.098	0.0	
7440-50-8	Copper	65						
7440-66-6	Zinc	68			5.0	1.0	0.0	
7440-38-2	Arsenic	75	11892	-0.45847	2.0	0.50	0.0	
7782-49-2	Selenium	82			2.0	1.7	0.0	
7440-22-4	Silver	107			1.0	0.030	0.0	
7440-43-9	Cadmium	111			1.0	0.074	0.0	
7440-36-0	Antimony	121			2.0	0.036	0.0	
7440-39-3	Barium	135			1.0	0.96	0.0	
7440-28-0	Thallium	205			1.0	0.34	0.0	
7439-92-1	Lead	208			1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1253820		<input checked="" type="checkbox"/>
7440-74-6	Indium	115			<input checked="" type="checkbox"/>
7440-30-4	Thulium	169			<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 11:15:19

Department: 120 (Metals)

Source: MetEdit

Sample: MAK04P5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: ICPMS M02  
 File: 101203B2A # 98  
 Acquired: 12/03/2010 21:10:28  
 Calibrated: 12/03/2010 21:00:05

Channel 262  
 Method 6020\_  
 M02

Matrix: AIR  
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9			0			*	
7440-42-8	Boron	11			0			*	
7429-90-5	Aluminum	27			0			*	
7440-70-2	Calcium	44	30512	682.31	682.52	0.0307		*	
7440-20-2	Scandium	45			0			*	
7440-62-2	Vanadium	51			0			*	
7440-47-3	Chromium	52			0			*	
7439-89-6	Iron	54			0			*	
7439-89-6	Iron	57			0			*	
7439-96-5	Manganese	55	272832	137.74	138.83	0.785	0.14	0.8	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59			0			*	
7440-02-0	Nickel	60			0			*	
7440-50-8	Copper	65			0			*	
7440-66-6	Zinc	68			0			*	
7440-38-2	Arsenic	75	11742	-3.7160	0.60117	718	0.41	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82			0			*	
7440-22-4	Silver	107			0			*	
7440-43-9	Cadmium	111			0			*	
7440-36-0	Antimony	121			0			*	
7440-39-3	Barium	135			0			*	
7440-28-0	Thallium	205			0			*	
7439-92-1	Lead	208			0			*	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6			<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1280349		<input type="checkbox"/>
7440-74-6	Indium	115			<input checked="" type="checkbox"/>
7440-30-4	Thulium	169			<input checked="" type="checkbox"/>

\* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 11:15:25

Department: 120 (Metals) Source: MetEdit

Sample: MAK04Z Spike Dilution: 1.00 Sample Dilution: 1.00

Instrument: ICPMS M02 Channel 262  
 File: 101203B2A # 99 Method 6020\_  
 Acquired: 12/03/2010 21:13:00 M02 Matrix: AIR  
 Calibrated: 12/03/2010 21:00:05 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9			0	0.00	200		<input type="checkbox"/>
7440-42-8	Boron	11			0	0.00	1000		<input type="checkbox"/>
7429-90-5	Aluminum	27			0	0.00	1000		<input type="checkbox"/>
7440-70-2	Calcium	44	287310	1674.5	682.52	99.2	1000		<input checked="" type="checkbox"/>
7440-20-2	Scandium	45			0	0.00	200		<input type="checkbox"/>
7440-62-2	Vanadium	51			0	0.00	200		<input type="checkbox"/>
7440-47-3	Chromium	52			0	0.00	200		<input type="checkbox"/>
7439-89-6	Iron	54			0	0.00	1000		<input type="checkbox"/>
7439-89-6	Iron	57			0	0.00	1000		<input type="checkbox"/>
7439-96-5	Manganese	55	2997328	327.23	138.83	94.2	200		<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59			0	0.00	200		<input type="checkbox"/>
7440-02-0	Nickel	60			0	0.00	200		<input type="checkbox"/>
7440-50-8	Copper	65			0	0.00	200		<input type="checkbox"/>
7440-66-6	Zinc	68			0	0.00	200		<input type="checkbox"/>
7440-38-2	Arsenic	75	254920	189.53	0.60117	94.5	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	82			0	0.00	200		<input type="checkbox"/>
7440-22-4	Silver	107			0	0.00	50.0		<input type="checkbox"/>
7440-43-9	Cadmium	111			0	0.00	200		<input type="checkbox"/>
7440-36-0	Antimony	121			0	0.00	200		<input type="checkbox"/>
7440-39-3	Barium	135			0	0.00	200		<input type="checkbox"/>
7440-28-0	Thallium	205			0	0.00	50.0		<input type="checkbox"/>
7439-92-1	Lead	208			0	0.00	200		<input type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
LITHIUM6	Lithium-6	6							<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1190772						<input checked="" type="checkbox"/>
7440-74-6	Indium	115							<input checked="" type="checkbox"/>
7440-30-4	Thulium	169							<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Instrument ID (Circle one): <b>M01</b> <b>M02</b>		Method 6020 SOP SAC-MT-0001		
File Number <i>101207A2</i>	Batch Numbers <i>336286,</i>	Date <i>12-07-10</i>	Analyst <i>SH</i>	
Lot Numbers <i>60K190601, 60K240587, 60K270427, 60K300434, 60L020446</i>		YES	NO	NA
1. Copy of analysis protocol used included?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. ICVs & CCVs within 10% of true value or recal and rerun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. ICB & CCBs < reporting limit or recal and rerun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. 10 samples or less analyzed between calibration checks?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. All parameters within linear range?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. LCS/LCSD within limits?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Prep blank value < reporting limit or all samples >20x blank?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Appropriate dilution factors applied to data?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Matrix spike and spike dup within customer defined limits?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Each batch checked for presence of internal standard in samples?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Anomalies entered using Clouseau?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REVIEWED BY: <i>MTZ</i>	DATA ENTERED BY: <i>SH</i>
DATE: <i>12/8/10</i>	DATE: <i>12-7-10</i>

# Dataset Report

Perkin Elmer M02  
 SOP No. SAC-MT-0001  
 Method: 6020,200.8

User Name: metal  
 Computer Name: SACP1223  
 Dataset File Path: e:\elandata\dataset\101207a2\  
 Report Date/Time: Tuesday, December 07, 2010 14:13:29

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE SHARGRAVE	06:49:13 Tue 07-Dec-10	Sample	
	AUTOLENS SHARGF06	06:53:04 Tue 07-Dec-10	Sample	
	DAILY SHARGRAVE	07:34:13 Tue 07-Dec-10	Sample	
	Rinse 2X	09:12:39 Tue 07-Dec-10	Sample	
	Blank	09:15:34 Tue 07-Dec-10	Blank	
	Standard 1	09:18:24 Tue 07-Dec-10	Standard #1	
	ICV	09:20:59 Tue 07-Dec-10	Sample	
	ICV	09:25:16 Tue 07-Dec-10	Sample	
	ICB	10:24:20 Tue 07-Dec-10	Sample	
	LLSTD1	10:26:59 Tue 07-Dec-10	Sample	LLSTD@10X → out At
	LLSTD2	10:29:38 Tue 07-Dec-10	Sample	LLSTD@5X
	ICSA	10:32:16 Tue 07-Dec-10	Sample	
	ICSAB	10:34:53 Tue 07-Dec-10	Sample	
	Rinse	11:11:19 Tue 07-Dec-10	Sample	
336286	MARD8B	11:17:36 Tue 07-Dec-10	Sample	G0L020000-286 BLK
336286	MARD8C	11:20:11 Tue 07-Dec-10	Sample	G0L020000-286 LCS
336286	MARD8L	11:22:45 Tue 07-Dec-10	Sample	G0L020000-286 LCSD
	CCV 1	11:25:24 Tue 07-Dec-10	Sample	
	CCB 1	11:50:24 Tue 07-Dec-10	Sample	> 7 IS
	CCV 2	12:03:37 Tue 07-Dec-10	Sample	
	CCB 2	12:06:16 Tue 07-Dec-10	Sample	
	LLSTD1	12:08:56 Tue 07-Dec-10	Sample	LLSTD@10X ✓
335251	MAPEVB	12:23:45 Tue 07-Dec-10	Sample	G0L010000-251 BLK
335251/53	MAPEVC	12:26:21 Tue 07-Dec-10	Sample	G0L010000-251 LCS
335253/51	MAPE7L	12:28:56 Tue 07-Dec-10	Sample	G0L010000-251 LCSD
335251	MAA80	12:31:29 Tue 07-Dec-10	Sample	G0K190601-3
335251	MAA80P5	12:34:01 Tue 07-Dec-10	Sample	G0K190601-3 5X
335251	MAA80Z	12:36:33 Tue 07-Dec-10	Sample	G0K190601-3 PS
335251	MAA81	12:39:06 Tue 07-Dec-10	Sample	G0K190601-4
335251	MAKDV	12:41:39 Tue 07-Dec-10	Sample	G0K240587-1
335251	MAKD2	12:44:12 Tue 07-Dec-10	Sample	G0K240587-2
	CCV 3	12:46:51 Tue 07-Dec-10	Sample	
	CCB 3	12:49:31 Tue 07-Dec-10	Sample	
	CCV 4	12:55:08 Tue 07-Dec-10	Sample	
	CCB 4	12:57:47 Tue 07-Dec-10	Sample	
336286	MARD8B	13:00:24 Tue 07-Dec-10	Sample	G0L020000-286 BLK
336286	MARD8C	13:02:59 Tue 07-Dec-10	Sample	G0L020000-286 LCS
336286	MARD8L	13:05:33 Tue 07-Dec-10	Sample	G0L020000-286 LCSD
340010	MAWLKB	13:08:09 Tue 07-Dec-10	Sample	G0L060000-10 BLK
340010	MAWLKC	13:10:44 Tue 07-Dec-10	Sample	G0L060000-10 LCS
340010	MAWLKL	13:13:20 Tue 07-Dec-10	Sample	G0L060000-10 LCSD
340010	MAML1	13:15:54 Tue 07-Dec-10	Sample	G0K300434-2
340010	MAML1P5	13:18:28 Tue 07-Dec-10	Sample	G0K300434-2 5X
340010	MAML1Z	13:21:03 Tue 07-Dec-10	Sample	G0K300434-2 PS
340010	MAML6	13:23:37 Tue 07-Dec-10	Sample	G0K300434-3
	CCV 5	13:26:17 Tue 07-Dec-10	Sample	
	CCB 5	13:28:56 Tue 07-Dec-10	Sample	

*don't use*

*report As*

*report As*

*report As, Mn*

341211	MA0J7B	13:39:35 Tue 07-Dec-10	Sample	G0L070000-211 BLK
341211	MA0J7C	13:42:11 Tue 07-Dec-10	Sample	G0L070000-211 LCS
341211	MA0J7L	13:44:47 Tue 07-Dec-10	Sample	G0L070000-211 LCSD
341211	MAQQ1	13:47:22 Tue 07-Dec-10	Sample	G0L020446-3
341211	MAQQ1P5	13:49:58 Tue 07-Dec-10	Sample	G0L020446-3 5X
341211	MAQQ1Z	13:52:33 Tue 07-Dec-10	Sample	G0L020446-3 PS
341211	MAQQ4	13:55:09 Tue 07-Dec-10	Sample	G0L020446-4
341211	MAQRA	13:57:44 Tue 07-Dec-10	Sample	G0L020446-7
341211	MAQRH	14:00:19 Tue 07-Dec-10	Sample	G0L020446-10
	CCV 6	14:02:57 Tue 07-Dec-10	Sample	
	CCB 6	14:05:37 Tue 07-Dec-10	Sample	

*report As, Mn*

Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/07/10 09:12	<input type="checkbox"/>
2	Blank				1.0	12/07/10 09:15	<input type="checkbox"/>
3	Standard1				1.0	12/07/10 09:18	<input type="checkbox"/>
4	ICV				1.0	12/07/10 09:20	<input type="checkbox"/>
5	ICV				1.0	12/07/10 09:25	<input type="checkbox"/>
6	ICB				1.0	12/07/10 10:24	<input type="checkbox"/>
7	LLSTD1				1.0	12/07/10 10:26	<input type="checkbox"/>
8	LLSTD2				1.0	12/07/10 10:29	<input type="checkbox"/>
9	ICSA				1.0	12/07/10 10:32	<input type="checkbox"/>
10	ICSAB				1.0	12/07/10 10:34	<input type="checkbox"/>
11	Rinse				1.0	12/07/10 11:11	<input type="checkbox"/>
12	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 11:17	<input type="checkbox"/>
13	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 11:20	<input type="checkbox"/>
14	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 11:22	<input type="checkbox"/>
15	CCV 1				1.0	12/07/10 11:25	<input type="checkbox"/>
16	CCB 1				1.0	12/07/10 11:50	<input type="checkbox"/>
19	CCV 2				1.0	12/07/10 12:03	<input type="checkbox"/>
20	CCB 2				1.0	12/07/10 12:06	<input type="checkbox"/>
21	LLSTD1				1.0	12/07/10 12:08	<input type="checkbox"/>
22	MAPEVB	G0L010000	0335251	2A	1.0	12/07/10 12:23	<input type="checkbox"/>
23	MAPEVC	G0L010000	0335251	2A	1.0	12/07/10 12:26	<input type="checkbox"/>
24	MAPE7L	G0L010000	0335253	2A	1.0	12/07/10 12:28	<input type="checkbox"/>
25	MAA80	G0K190601-3	0335251	2A	1.0	12/07/10 12:31	<input type="checkbox"/>
26	MAA80P5	G0K190601	0335251		5.0	12/07/10 12:34	<input type="checkbox"/>
27	MAA80Z	G0K190601-3	0335251		1.0	12/07/10 12:36	<input type="checkbox"/>
28	MAA81	G0K190601-4	0335251	2A	1.0	12/07/10 12:39	<input type="checkbox"/>
29	MAKDV	G0K240587-1	0335251	2A	1.0	12/07/10 12:41	<input type="checkbox"/>
30	MAKD2	G0K240587-2	0335251	2A	1.0	12/07/10 12:44	<input type="checkbox"/>
31	CCV 3				1.0	12/07/10 12:46	<input type="checkbox"/>
32	CCB 3				1.0	12/07/10 12:49	<input type="checkbox"/>
33	CCV 4				1.0	12/07/10 12:55	<input type="checkbox"/>
34	CCB 4				1.0	12/07/10 12:57	<input type="checkbox"/>
35	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 13:00	<input type="checkbox"/>
36	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 13:02	<input type="checkbox"/>
37	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 13:05	<input type="checkbox"/>
38	MAWLKB	G0L060000	0340010	2A	1.0	12/07/10 13:08	<input type="checkbox"/>
39	MAWLKC	G0L060000	0340010	2A	1.0	12/07/10 13:10	<input type="checkbox"/>
40	MAWLKL	G0L060000	0340010	2A	1.0	12/07/10 13:13	<input type="checkbox"/>
41	MAML1	G0K300434-2	0340010	2A	1.0	12/07/10 13:15	<input type="checkbox"/>
42	MAML1P5	G0K300434	0340010		5.0	12/07/10 13:18	<input type="checkbox"/>
43	MAML1Z	G0K300434-2	0340010		1.0	12/07/10 13:21	<input type="checkbox"/>
44	MAML6	G0K300434-3	0340010	2A	1.0	12/07/10 13:23	<input type="checkbox"/>
45	CCV 5				1.0	12/07/10 13:26	<input type="checkbox"/>
46	CCB 5				1.0	12/07/10 13:28	<input type="checkbox"/>
47	MA0J7B	G0L070000	0341211	2A	1.0	12/07/10 13:39	<input type="checkbox"/>
48	MA0J7C	G0L070000	0341211	2A	1.0	12/07/10 13:42	<input type="checkbox"/>



Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	MAQJ7L	G0L070000	0341211	2A	1.0	12/07/10 13:44	<input type="checkbox"/>
50	MAQQ1	G0L020446-3	0341211	2A	1.0	12/07/10 13:47	<input type="checkbox"/>
51	MAQQ1P5	G0L020446	0341211		5.0	12/07/10 13:49	<input type="checkbox"/>
52	MAQQ1Z	G0L020446-3	0341211		1.0	12/07/10 13:52	<input type="checkbox"/>
53	MAQQ4	G0L020446-4	0341211	2A	1.0	12/07/10 13:55	<input type="checkbox"/>
54	MAQRA	G0L020446-7	0341211	2A	1.0	12/07/10 13:57	<input type="checkbox"/>
55	MAQRH	G0L020446-10	0341211	2A	1.0	12/07/10 14:00	<input type="checkbox"/>
56	CCV 6				1.0	12/07/10 14:02	<input type="checkbox"/>
57	CCB 6				1.0	12/07/10 14:05	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

Germanium

#	Sample ID	Analyzed Date		Q
1	Rinse 2X	12/07/10 09:12	95.6	<input type="checkbox"/>
2	Blank	12/07/10 09:15	100.0	<input checked="" type="checkbox"/>
3	Standard1	12/07/10 09:18	99.6	<input checked="" type="checkbox"/>
4	ICV	12/07/10 09:20	99.1	<input checked="" type="checkbox"/>
5	ICV	12/07/10 09:25	99.9	<input checked="" type="checkbox"/>
6	ICB	12/07/10 10:24	103.4	<input checked="" type="checkbox"/>
7	LLSTD1	12/07/10 10:26	105.9	<input checked="" type="checkbox"/>
8	LLSTD2	12/07/10 10:29	106.7	<input checked="" type="checkbox"/>
9	ICSA	12/07/10 10:32	91.2	<input checked="" type="checkbox"/>
10	ICSAB	12/07/10 10:34	97.1	<input checked="" type="checkbox"/>
11	Rinse	12/07/10 11:11	126.2	<input checked="" type="checkbox"/>
12	MARD8B	12/07/10 11:17	122.5	<input checked="" type="checkbox"/>
13	MARD8C	12/07/10 11:20	114.4	<input checked="" type="checkbox"/>
14	MARD8L	12/07/10 11:22	103.9	<input checked="" type="checkbox"/>
15	CCV 1	12/07/10 11:25	119.3	<input checked="" type="checkbox"/>
16	CCB 1	12/07/10 11:50	133.6	<input type="checkbox"/>
19	CCV 2	12/07/10 12:03	102.5	<input checked="" type="checkbox"/>
20	CCB 2	12/07/10 12:06	100.8	<input checked="" type="checkbox"/>
21	LLSTD1	12/07/10 12:08	103.8	<input checked="" type="checkbox"/>
22	MAPEVB	12/07/10 12:23	94.3	<input checked="" type="checkbox"/>
23	MAPEVC	12/07/10 12:26	87.2	<input checked="" type="checkbox"/>
24	MAPE7L	12/07/10 12:28	81.7	<input checked="" type="checkbox"/>
25	MAA80	12/07/10 12:31	79.5	<input checked="" type="checkbox"/>
26	MAA80P5	12/07/10 12:34	96.1	<input type="checkbox"/>
27	MAA80Z	12/07/10 12:36	82.6	<input checked="" type="checkbox"/>
28	MAA81	12/07/10 12:39	80.7	<input checked="" type="checkbox"/>
29	MAKDV	12/07/10 12:41	85.3	<input checked="" type="checkbox"/>
30	MAKD2	12/07/10 12:44	86.8	<input checked="" type="checkbox"/>
31	CCV 3	12/07/10 12:46	94.8	<input checked="" type="checkbox"/>
32	CCB 3	12/07/10 12:49	99.0	<input checked="" type="checkbox"/>
33	CCV 4	12/07/10 12:55	96.7	<input checked="" type="checkbox"/>
34	CCB 4	12/07/10 12:57	103.2	<input checked="" type="checkbox"/>
35	MARD8B	12/07/10 13:00	97.4	<input checked="" type="checkbox"/>
36	MARD8C	12/07/10 13:02	86.2	<input checked="" type="checkbox"/>
37	MARD8L	12/07/10 13:05	81.1	<input checked="" type="checkbox"/>
38	MAWLKB	12/07/10 13:08	79.0	<input checked="" type="checkbox"/>
39	MAWLKC	12/07/10 13:10	80.8	<input checked="" type="checkbox"/>
40	MAWLKL	12/07/10 13:13	79.6	<input checked="" type="checkbox"/>
41	MAML1	12/07/10 13:15	80.0	<input checked="" type="checkbox"/>
42	MAML1P5	12/07/10 13:18	90.0	<input type="checkbox"/>
43	MAML1Z	12/07/10 13:21	77.6	<input checked="" type="checkbox"/>
44	MAML6	12/07/10 13:23	78.6	<input checked="" type="checkbox"/>
45	CCV 5	12/07/10 13:26	91.9	<input checked="" type="checkbox"/>
46	CCB 5	12/07/10 13:28	95.0	<input checked="" type="checkbox"/>
47	MA0J7B	12/07/10 13:39	91.8	<input checked="" type="checkbox"/>
48	MA0J7C	12/07/10 13:42	82.1	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

Germanium

#	Sample ID	Analyzed Date		Q
49	MA0J7L	12/07/10 13:44	80.6	<input checked="" type="checkbox"/>
50	MAQQ1	12/07/10 13:47	79.0	<input checked="" type="checkbox"/>
51	MAQQ1P5	12/07/10 13:49	86.1	<input type="checkbox"/>
52	MAQQ1Z	12/07/10 13:52	79.3	<input checked="" type="checkbox"/>
53	MAQQ4	12/07/10 13:55	77.4	<input checked="" type="checkbox"/>
54	MAQRA	12/07/10 13:57	80.6	<input checked="" type="checkbox"/>
55	MAQRH	12/07/10 14:00	85.8	<input checked="" type="checkbox"/>
56	CCV 6	12/07/10 14:02	93.4	<input checked="" type="checkbox"/>
57	CCB 6	12/07/10 14:05	97.2	<input checked="" type="checkbox"/>

# TAL-W.Sacramento Elan 6000 ICPMS M02

## Quantitative Method Report

File Name: 0006020-SH.mth  
File Path: E:\elandata\Method\0006020-SH.mth

### Timing Parameters

Sweeps/Reading: 50  
Readings/Replicate: 1  
Number of Replicates: 3  
Tuning File: default.tun  
Optimization File: default.dac  
QC Enabled: Yes  
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms

### Signal Processing

Detector Mode: Dual  
Measurement Units: Counts  
AutoLens: On  
Spectral Peak Processing: Average  
Signal Profile Processing: Average  
Blank Subtraction: After Internal Standard  
Baseline Readings: 0  
Smoothing: Yes, Factor 5

### Equations

Analyte	Mass	Corrections
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

### Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				

**TAL-W. SACRAMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8**

**AIR TOX Standards - 4 % HNO<sub>3</sub>, 0.5 % HCl**

**Standards for run:**

Tuning standard: 4075-25B

Internal standard: 4075-22C

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-21E

ICV: 4075-20D

ICSA: 4075-27B

ICSAB: 4075-27C

File Number: 101207A2

### Instrument Tuning Report

File Name: default.tun

#### Sample Information

Sample Date/Time: Tuesday, December 07, 2010 06:49:13

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1580	0.738	2040	
Be	9.012	9.029	2080	0.700	2035	
Mg	23.985	23.979	5728	0.726	2003	
Co	58.933	58.878	14249	0.724	1958	
In	114.904	114.829	27899	0.733	1937	
Ce	139.905	139.929	33978	0.729	1985	
Tl	204.975	204.979	49692	0.727	2189	
Pb	207.977	207.979	50425	0.723	2210	
U	238.050	238.028	57638	0.740	2360	

## Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize

File Name e:\elandata\Optimize\default.dac

### Sample Information

Sample Date/Time: Tuesday, December 07, 2010 07:34:13

Sample ID: DAILY SHARGRAVE

### Parameter Settings

Nebulizer Gas Flow	0.92
Lens Voltage	9.00
ICP RF Power	1100.00
Analog Stage Voltage	-2000.00
Pulse Stage Voltage	1350.00
Discriminator Threshold	70.00
AC Rod Offset	-7.00
Service DAC 1	60.00
Quadrupole Rod Offset	0.00

### AutoLens Calibration

Date: 06:53:04 Tue 07-Dec-10  
Sample Filename: AUTOLENS SHARGRAVE.003  
Dataset Pathname: e:\elandata\Dataset\101207a2\  
  
Lens Voltage Start: 5.50  
Lens Voltage End: 10.00  
Lens Voltage Step: 0.25  
Slope: 0.02126968  
Intercept: 6.53696030

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.010	6.8	3281.1	19
Co	58.935	7.8	86613.6	19
In	114.903	9.0	328775.0	19

### Dual Detector Calibration

Date: 08:01:56 Tue 07-Dec-10  
Sample Filename: DAILY SHARGRAVE.1097  
Dataset Pathname: dual detector calibration\  
  
Points Acquired: 37  
Lens Vol Start: -3.00  
Lens Vol End: 15.00  
Lens Vol Step: 0.50

Analyte	Mass	Gain	N(max)
Li	6.015	10129.15	1235998078.193
Li	7.016	9449.89	1324842000.392
Be	9.012	8857.80	1413399228.860
B	11.009	9146.06	1368852249.810

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M02 - Methods 6020, 200.8

Na	22.990	9118.55	1372981536.992
Mg	23.985	8534.23	1466986957.713
Mg	24.986	8369.25	1495905758.665
Al	26.982	7911.93	1582369824.835
Si	27.977	8973.22	1395219571.285
P	30.994	7287.08	1718055165.115
K	38.964	7100.33	1763243847.627
Ca	42.959		
Ca	43.956	6971.61	1795798956.472
Sc	44.956	7080.85	1768093466.146
V	50.944	6876.33	1820682362.555
Cr	51.941	6628.40	1888781365.139
Fe	53.940	6525.67	1918515148.090
Mn	54.938	6554.76	1910002204.770
Fe	56.935	6424.60	1948697279.431
Co	58.933	6269.19	1997004380.979
Ni	59.933	6081.55	2058620450.330
Cu	62.930	5973.72	2095780633.374
Cu	64.928	5888.17	2126231105.985
Zn	67.925	5952.75	2103161748.568
Ge	71.922	6127.47	2043191900.987
As	74.922	6124.98	2044023708.276
Se	77.917	6122.66	2044797442.453
Br	78.918		
Se	81.917	6050.71	2069114669.712
Sr	87.906		
Mo	96.906	6128.33	2042906515.828
Ag	106.905	5534.60	2262061270.648
Ag	108.905	5536.88	2261130679.220
Cd	110.904	5626.11	2225268192.020
Cd	113.904	5627.50	2224719836.750
In	114.904	5658.70	2212451551.812
Sn	117.902	5649.45	2216076556.491
Sb	120.904	5651.19	2215394633.559
Ba	134.906	5526.61	2265330490.437
Ho	164.930		
Tm	168.934	5351.68	2339377359.067
Tl	204.975	5104.08	2452862601.143
Pb	207.977	5100.71	2454483234.194
U	238.050	5062.74	2472892833.787



## Daily Performance Report

Sample ID: DAILY SHARGRAVE  
 Sample Date/Time: Tuesday, December 07, 2010 07:34:13  
 Sample Description:  
 Sample File:  
 Method File: E:\elandata\Method\000daily.mth  
 Dataset File: e:\elandata\dataset\101207a2\DAILY SHARGRAVE.006  
 Tuning File: e:\elandata\Tuning\default.tun  
 Optimization File: e:\elandata\Optimize\default.dac  
 Number of Replicates: 5  
 Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. RSD
Mg	24	39582.557	0.225
Rh	103	227757.567	0.697
Pb	208	271660.442	0.525
[> Ba	138	316167.621	0.392
[ Ba++	69	0.014	2.345
[> Ce	140	407072.164	0.396
[ CeO	156	0.033	4.799
Bkgd	220	2.286	34.233
Li	7	13654.536	2.149
Be	9	3772.211	2.677
Co	59	98556.798	0.485
In	115	356144.422	0.429
Tl	205	411132.717	1.234

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Rinse 2X

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 09:12:39

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\Rinse 2X.007

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al			378104.740	ug/L	0.000
44 Ca			3039.059	ug/L	0.000
55 Mn			6805.315	ug/L	0.000
75 As			5300.785	ug/L	0.000
[> 72 Ge-1			755369.417	ug/L	0.000

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 09:15:34

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\Blank.008

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al			91619.527	ug/L	
44 Ca			3216.147	ug/L	
55 Mn			2860.643	ug/L	
75 As			5747.158	ug/L	
> 72 Ge-1			790209.635	ug/L	

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 09:18:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\Standard 1.009

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	5100.000000	1.545	14503124.094	ug/L	91619.527
44 Ca	5100.000000	1.114	655965.802	ug/L	3216.147
55 Mn	100.000000	0.927	704528.576	ug/L	2860.643
75 As	100.000000	0.939	96528.759	ug/L	5747.158
> 72 Ge-1			787378.408	ug/L	790209.635

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

**Sample ID: ICV**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 09:25:16

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\ICV .011

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	743.588271	0.760	2197458.404	ug/L	91619.527
44 Ca	761.281671	0.856	100857.325	ug/L	3216.147
55 Mn	77.635827	1.570	548743.825	ug/L	2860.643
75 As	81.596677	0.174	79997.895	ug/L	5747.158
> 72 Ge-1			789143.453	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	99.865

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 10:24:20

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\ICB.012

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	-4.317916	10.910	82056.718	ug/L	91619.527
44 Ca	9.068673	2.906	4530.947	ug/L	3216.147
[ 55 Mn	-0.011123	73.964	2876.317	ug/L	2860.643
75 As	0.410560	66.541	6334.551	ug/L	5747.158
[> 72 Ge-1			817166.369	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
[ Mn	55	
As	75	
[> Ge-1	72	103.411

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: LLSTD1

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 10:26:59

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\LLSTD1.013

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 71

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	17.091767	5.323	148354.452	ug/L	91619.527
44 Ca	52.030498	3.923	10481.959	ug/L	3216.147
55 Mn	0.715607	3.326	8365.495	ug/L	2860.643
75 As	1.106023	1.564	7155.287	ug/L	5747.158
[> 72 Ge-1			837042.468	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	105.927

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: LLSTD2

Sample Description: LLSTD@5X

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 10:29:38

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\LLSTD2.014

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 72

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	66.838139	0.888	300021.708	ug/L	91619.527
44 Ca	99.835983	2.159	17112.980	ug/L	3216.147
55 Mn	1.705385	2.700	15863.749	ug/L	2860.643
75 As	2.237674	8.661	8307.267	ug/L	5747.158
> 72 Ge-1			843216.075	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	106.708



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 10:32:16

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\ICSA .015

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	97070.591213	4.249	250931943.094	ug/L	91619.527
44 Ca	101021.709241	3.318	11829049.317	ug/L	3216.147
55 Mn	6.220860	3.749	42529.990	ug/L	2860.643
75 As	1.129956	58.484	6176.103	ug/L	5747.158
72 Ge-1			720572.478	ug/L	790209.635

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
Ge-1	72	91.188

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 10:34:53

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\ICSAB.016

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	27 Al	92107.819166	0.457	253685266.589	ug/L	91619.527
	44 Ca	98661.893241	0.553	12306507.364	ug/L	3216.147
	55 Mn	100.843584	1.172	692172.885	ug/L	2860.643
	75 As	105.260552	1.795	98693.864	ug/L	5747.158
72 Ge-1			767178.960	ug/L	790209.635	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Al	27	
	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	97.085	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 11:11:19

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\Rinse.017

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	71.514890	1.236	371606.938	ug/L	91619.527
44 Ca	7.342333	15.114	5250.167	ug/L	3216.147
55 Mn	0.454851	3.967	7653.936	ug/L	2860.643
75 As	0.511864	22.020	7842.901	ug/L	5747.158
72 Ge-1			997449.908	ug/L	790209.635

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
Ge-1	72	126.226

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8B

Sample Description: G0L020000-286 BLK

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 11:17:36

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8B.018

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 100

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	-24.567215	0.566	26882.704	ug/L	91619.527
44 Ca	190.055925	2.965	33829.384	ug/L	3216.147
55 Mn	-0.012615	67.446	3393.571	ug/L	2860.643
75 As	1.390648	5.953	8590.648	ug/L	5747.158
> 72 Ge-1			967882.665	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	122.484

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8C

Sample Description: GOL020000-286 LCS

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 11:20:11

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8C.019

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 86

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	803.970332	1.435	2711679.148	ug/L	91619.527
44 Ca	1005.777932	1.782	151384.609	ug/L	3216.147
55 Mn	178.656276	2.761	1441454.789	ug/L	2860.643
75 As	183.788282	1.809	198059.339	ug/L	5747.158
[> 72 Ge-1			903751.385	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	114.369

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8L

Sample Description: G0L020000-286 LCSD

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 11:22:45

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8L.020

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 87

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	27 Al	819.309454	2.328	2508958.618	ug/L	91619.527
	44 Ca	1005.629929	1.870	137539.916	ug/L	3216.147
	55 Mn	182.871238	1.956	1340841.602	ug/L	2860.643
	75 As	187.705790	1.723	183676.615	ug/L	5747.158
72 Ge-1			821051.065	ug/L	790209.635	

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Al	27	
	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	103.903	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

**Sample ID: CCV 1**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 11:25:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 1.021

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	4704.520412	0.952	16030226.356	ug/L	91619.527
44 Ca	4894.713792	1.889	754014.074	ug/L	3216.147
55 Mn	97.820745	1.895	825341.729	ug/L	2860.643
75 As	101.283227	2.860	116971.805	ug/L	5747.158
72 Ge-1			943099.344	ug/L	790209.635

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
Ge-1	72	119.348

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT  
SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 11:50:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 1.025

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	-29.747050	0.051	9698.052	ug/L	91619.527
44 Ca	-0.348102	144.847	4237.078	ug/L	3216.147
55 Mn	-0.278783	1.724	1199.113	ug/L	2860.643
75 As	0.713673	50.514	8548.720	ug/L	5747.158
> 72 Ge-1			1055614.610	ug/L	790209.635

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	133.587



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: BLK RECAL

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 11:50:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 1.025

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al			9698.052	ug/L	
44 Ca			4237.078	ug/L	
55 Mn			1199.113	ug/L	
75 As			8548.720	ug/L	
[> 72 Ge-1			1055614.610	ug/L	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 11:25:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 1.021

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	5100.000000	0.946	16030226.356	ug/L	9698.052
44 Ca	5100.000000	1.889	754014.074	ug/L	4237.078
55 Mn	100.000000	1.890	825341.729	ug/L	1199.113
75 As	100.000000	2.880	116971.805	ug/L	8548.720
[> 72 Ge-1			943099.344	ug/L	1055614.610

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:03:37

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 2.026

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27 Al	5073.274368	1.561	18282350.692	ug/L	9698.052
	44 Ca	5042.541562	2.834	854598.565	ug/L	4237.078
	55 Mn	97.044717	2.854	918128.007	ug/L	1199.113
	75 As	98.848480	2.433	132670.491	ug/L	8548.720
>	72 Ge-1			1081582.543	ug/L	1055614.610

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	102.460

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:06:16

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 2.027

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	4.491008	1.942	25689.767	ug/L	9698.052
44 Ca	3.731183	19.687	4891.549	ug/L	4237.078
55 Mn	0.048524	10.375	1660.550	ug/L	1199.113
75 As	-0.051471	507.244	8549.255	ug/L	8548.720
[> 72 Ge-1			1063915.140	ug/L	1055614.610

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	100.786

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**  
**SOP No. SAC-MT-0001**  
**Analyst: SHargrave**

**Sample ID: LLSTD1**

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:08:56

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\LLSTD1.028

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 71

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	50.195283	1.026	193274.699	ug/L	9698.052
44 Ca	52.996870	1.288	13456.548	ug/L	4237.078
55 Mn	1.054725	1.337	11346.776	ug/L	1199.113
75 As	0.488712	44.280	9493.869	ug/L	8548.720
> 72 Ge-1			1095550.560	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	103.783

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:46:51

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 3.038

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	4973.962003	0.360	16599974.270	ug/L	9698.052
44 Ca	5032.375064	0.442	790139.601	ug/L	4237.078
55 Mn	98.698521	0.025	865037.932	ug/L	1199.113
75 As	101.410857	0.718	125857.110	ug/L	8548.720
> 72 Ge-1			1001215.977	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	94.847

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT**  
**SOP No. SAC-MT-0001**  
**Analyst: SHargrave**

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:49:31

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 3.039

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	5.332247	1.164	28157.830	ug/L	9698.052
44 Ca	4.915177	17.786	4994.293	ug/L	4237.078
55 Mn	0.044176	6.731	1590.199	ug/L	1199.113
75 As	0.080988	605.092	8556.678	ug/L	8548.720
		1044768.752	ug/L	1055614.610	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
72	98.973	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:55:08

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 4.041

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	27 Al	5079.885051	0.820	17282350.653	ug/L	9698.052
	44 Ca	5068.248774	0.360	811193.077	ug/L	4237.078
	55 Mn	99.129489	0.557	885693.990	ug/L	1199.113
	75 As	101.122438	0.560	127965.915	ug/L	8548.720
72 Ge-1			1020660.828	ug/L	1055614.610	

**Internal Standard Recoveries**

	Analyte	Mass	Int Std % Recovery
[	Al	27	
	Ca	44	
	Mn	55	
	As	75	
Ge-1	72	96.689	



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 12:57:47

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 4.042

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	5.359257	4.783	29449.997	ug/L	9698.052
44 Ca	3.894593	15.595	5033.990	ug/L	4237.078
55 Mn	0.047765	24.296	1690.558	ug/L	1199.113
75 As	-0.296235	173.161	8439.853	ug/L	8548.720
[> 72 Ge-1			1089732.021	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	103.232

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8B

Sample Description: G0L020000-286 BLK

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 13:00:24

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8B.043

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 100

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
27 Al	6.084591	0.633	30294.942	ug/L	9698.052
44 Ca	200.627877	0.252	36320.697	ug/L	4237.078
55 Mn	0.258716	2.901	3493.959	ug/L	1199.113
75 As	0.788424	38.435	9266.748	ug/L	8548.720
> 72 Ge-1			1028457.639	ug/L	1055614.610

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	97.427

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8C

Sample Description: G0L020000-286 LCS

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 13:02:59

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8C.044

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 86

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	914.558575	1.946	2780001.261	ug/L	9698.052
44 Ca	1059.925365	2.296	154093.241	ug/L	4237.078
55 Mn	186.391969	1.362	1483390.280	ug/L	1199.113
75 As	186.207977	1.648	203827.094	ug/L	8548.720
		909761.498	ug/L	1055614.610	

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
} Mn	55	
As	75	
72	86.183	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: MARD8L

Sample Description: GOL020000-286 LCSD

Batch ID: 336286

Sample Date/Time: Tuesday, December 07, 2010 13:05:33

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MARD8L.045

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 87

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	27 Al	890.932033	0.758	2547660.746	ug/L	9698.052
	44 Ca	1018.515361	0.466	139420.253	ug/L	4237.078
	55 Mn	180.709414	1.393	1352740.918	ug/L	1199.113
	75 As	180.423950	2.109	185961.351	ug/L	8548.720
>	72 Ge-1			855767.754	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	81.068

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 13:26:17

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCV 5.053

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	5026.028379	0.533	16256534.086	ug/L	9698.052
44 Ca	5028.073322	0.481	765124.403	ug/L	4237.078
55 Mn	98.019486	0.224	832600.681	ug/L	1199.113
75 As	99.424763	1.224	119746.827	ug/L	8548.720
[> 72 Ge-1			970352.462	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	91.923

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT

SOP No. SAC-MT-0001

Analyst: SHargrave

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, December 07, 2010 13:28:56

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\CCB 5.054

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 27 Al	5.007182	3.738	25941.101	ug/L	9698.052
44 Ca	6.003347	9.073	4964.936	ug/L	4237.078
55 Mn	0.057063	11.714	1640.212	ug/L	1199.113
75 As	-0.270393	85.379	7805.398	ug/L	8548.720
[> 72 Ge-1			1003171.648	ug/L	1055614.610

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
[ Al	27	
Ca	44	
Mn	55	
As	75	
[> Ge-1	72	95.032

Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/07/10 09:12	<input type="checkbox"/>
2	Blank				1.0	12/07/10 09:15	<input type="checkbox"/>
3	Standard1				1.0	12/07/10 09:18	<input type="checkbox"/>
4	ICV				1.0	12/07/10 09:20	<input type="checkbox"/>
5	ICV				1.0	12/07/10 09:25	<input type="checkbox"/>
6	ICB				1.0	12/07/10 10:24	<input type="checkbox"/>
7	LLSTD1				1.0	12/07/10 10:26	<input type="checkbox"/>
8	LLSTD2				1.0	12/07/10 10:29	<input type="checkbox"/>
9	ICSA				1.0	12/07/10 10:32	<input type="checkbox"/>
10	ICSAB				1.0	12/07/10 10:34	<input type="checkbox"/>
11	Rinse				1.0	12/07/10 11:11	<input type="checkbox"/>
12	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 11:17	<input type="checkbox"/>
13	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 11:20	<input type="checkbox"/>
14	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 11:22	<input type="checkbox"/>
15	CCV 1				1.0	12/07/10 11:25	<input type="checkbox"/>
16	CCB 1				1.0	12/07/10 11:50	<input type="checkbox"/>
19	CCV 2				1.0	12/07/10 12:03	<input type="checkbox"/>
20	CCB 2				1.0	12/07/10 12:06	<input type="checkbox"/>
21	LLSTD1				1.0	12/07/10 12:08	<input type="checkbox"/>
22	MAPEVB	G0L010000	0335251	2A	1.0	12/07/10 12:23	<input type="checkbox"/>
23	MAPEVC	G0L010000	0335251	2A	1.0	12/07/10 12:26	<input type="checkbox"/>
24	MAPE7L	G0L010000	0335253	2A	1.0	12/07/10 12:28	<input type="checkbox"/>
25	MAA80	G0K190601-3	0335251	2A	1.0	12/07/10 12:31	<input type="checkbox"/>
26	MAA80P5	G0K190601	0335251		5.0	12/07/10 12:34	<input type="checkbox"/>
27	MAA80Z	G0K190601-3	0335251		1.0	12/07/10 12:36	<input type="checkbox"/>
28	MAA81	G0K190601-4	0335251	2A	1.0	12/07/10 12:39	<input type="checkbox"/>
29	MAKDV	G0K240587-1	0335251	2A	1.0	12/07/10 12:41	<input type="checkbox"/>
30	MAKD2	G0K240587-2	0335251	2A	1.0	12/07/10 12:44	<input type="checkbox"/>
31	CCV 3				1.0	12/07/10 12:46	<input type="checkbox"/>
32	CCB 3				1.0	12/07/10 12:49	<input type="checkbox"/>
33	CCV 4				1.0	12/07/10 12:55	<input type="checkbox"/>
34	CCB 4				1.0	12/07/10 12:57	<input type="checkbox"/>
35	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 13:00	<input type="checkbox"/>
36	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 13:02	<input type="checkbox"/>
37	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 13:05	<input type="checkbox"/>
38	MAWLKB	G0L060000	0340010	2A	1.0	12/07/10 13:08	<input type="checkbox"/>
39	MAWLKC	G0L060000	0340010	2A	1.0	12/07/10 13:10	<input type="checkbox"/>
40	MAWLKL	G0L060000	0340010	2A	1.0	12/07/10 13:13	<input type="checkbox"/>
41	MAML1	G0K300434-2	0340010	2A	1.0	12/07/10 13:15	<input type="checkbox"/>
42	MAML1P5	G0K300434	0340010		5.0	12/07/10 13:18	<input type="checkbox"/>
43	MAML1Z	G0K300434-2	0340010		1.0	12/07/10 13:21	<input type="checkbox"/>
44	MAML6	G0K300434-3	0340010	2A	1.0	12/07/10 13:23	<input type="checkbox"/>
45	CCV 5				1.0	12/07/10 13:26	<input type="checkbox"/>
46	CCB 5				1.0	12/07/10 13:28	<input type="checkbox"/>
47	MA0J7B	G0L070000	0341211	2A	1.0	12/07/10 13:39	<input type="checkbox"/>
48	MA0J7C	G0L070000	0341211	2A	1.0	12/07/10 13:42	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

Instrument: M02

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
49	MAQJ7L	G0L070000	0341211	2A	1.0	12/07/10 13:44	<input type="checkbox"/>
50	MAQQ1	G0L020446-3	0341211	2A	1.0	12/07/10 13:47	<input type="checkbox"/>
51	MAQQ1P5	G0L020446	0341211		5.0	12/07/10 13:49	<input type="checkbox"/>
52	MAQQ1Z	G0L020446-3	0341211		1.0	12/07/10 13:52	<input type="checkbox"/>
53	MAQQ4	G0L020446-4	0341211	2A	1.0	12/07/10 13:55	<input type="checkbox"/>
54	MAQRA	G0L020446-7	0341211	2A	1.0	12/07/10 13:57	<input type="checkbox"/>
55	MAQRH	G0L020446-10	0341211	2A	1.0	12/07/10 14:00	<input type="checkbox"/>
56	CCV 6				1.0	12/07/10 14:02	<input type="checkbox"/>
57	CCB 6				1.0	12/07/10 14:05	<input type="checkbox"/>



Method: 6020 (SOP: SAC-MT-001)	M02 (M02)	Reported: 12/07/10 14:26:16
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File ID: 101207A2

Analyst: hargraves

Germanium

#	Sample ID	Analyzed Date		Q
1	Rinse 2X	12/07/10 09:12	95.6	<input type="checkbox"/>
2	Blank	12/07/10 09:15	100.0	<input checked="" type="checkbox"/>
3	Standard1	12/07/10 09:18	99.6	<input checked="" type="checkbox"/>
4	ICV	12/07/10 09:20	99.1	<input checked="" type="checkbox"/>
5	ICV	12/07/10 09:25	99.9	<input checked="" type="checkbox"/>
6	ICB	12/07/10 10:24	103.4	<input checked="" type="checkbox"/>
7	LLSTD1	12/07/10 10:26	105.9	<input checked="" type="checkbox"/>
8	LLSTD2	12/07/10 10:29	106.7	<input checked="" type="checkbox"/>
9	ICSA	12/07/10 10:32	91.2	<input checked="" type="checkbox"/>
10	ICSAB	12/07/10 10:34	97.1	<input checked="" type="checkbox"/>
11	Rinse	12/07/10 11:11	126.2	<input checked="" type="checkbox"/>
12	MARD8B	12/07/10 11:17	122.5	<input checked="" type="checkbox"/>
13	MARD8C	12/07/10 11:20	114.4	<input checked="" type="checkbox"/>
14	MARD8L	12/07/10 11:22	103.9	<input checked="" type="checkbox"/>
15	CCV 1	12/07/10 11:25	119.3	<input checked="" type="checkbox"/>
16	CCB 1	12/07/10 11:50	133.6	<input type="checkbox"/>
19	CCV 2	12/07/10 12:03	102.5	<input checked="" type="checkbox"/>
20	CCB 2	12/07/10 12:06	100.8	<input checked="" type="checkbox"/>
21	LLSTD1	12/07/10 12:08	103.8	<input checked="" type="checkbox"/>
22	MAPEVB	12/07/10 12:23	94.3	<input checked="" type="checkbox"/>
23	MAPEVC	12/07/10 12:26	87.2	<input checked="" type="checkbox"/>
24	MAPE7L	12/07/10 12:28	81.7	<input checked="" type="checkbox"/>
25	MAA80	12/07/10 12:31	79.5	<input checked="" type="checkbox"/>
26	MAA80P5	12/07/10 12:34	96.1	<input type="checkbox"/>
27	MAA80Z	12/07/10 12:36	82.6	<input checked="" type="checkbox"/>
28	MAA81	12/07/10 12:39	80.7	<input checked="" type="checkbox"/>
29	MAKDV	12/07/10 12:41	85.3	<input checked="" type="checkbox"/>
30	MAKD2	12/07/10 12:44	86.8	<input checked="" type="checkbox"/>
31	CCV 3	12/07/10 12:46	94.8	<input checked="" type="checkbox"/>
32	CCB 3	12/07/10 12:49	99.0	<input checked="" type="checkbox"/>
33	CCV 4	12/07/10 12:55	96.7	<input checked="" type="checkbox"/>
34	CCB 4	12/07/10 12:57	103.2	<input checked="" type="checkbox"/>
35	MARD8B	12/07/10 13:00	97.4	<input checked="" type="checkbox"/>
36	MARD8C	12/07/10 13:02	86.2	<input checked="" type="checkbox"/>
37	MARD8L	12/07/10 13:05	81.1	<input checked="" type="checkbox"/>
38	MAWLKB	12/07/10 13:08	79.0	<input checked="" type="checkbox"/>
39	MAWLKC	12/07/10 13:10	80.8	<input checked="" type="checkbox"/>
40	MAWLKL	12/07/10 13:13	79.6	<input checked="" type="checkbox"/>
41	MAML1	12/07/10 13:15	80.0	<input checked="" type="checkbox"/>
42	MAML1P5	12/07/10 13:18	90.0	<input type="checkbox"/>
43	MAML12	12/07/10 13:21	77.6	<input checked="" type="checkbox"/>
44	MAML6	12/07/10 13:23	78.6	<input checked="" type="checkbox"/>
45	CCV 5	12/07/10 13:26	91.9	<input checked="" type="checkbox"/>
46	CCB 5	12/07/10 13:28	95.0	<input checked="" type="checkbox"/>
47	MA0J7B	12/07/10 13:39	91.8	<input checked="" type="checkbox"/>
48	MA0J7C	12/07/10 13:42	82.1	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 12/07/10 14:26:16

File ID: 101207A2

Analyst: hargraves

Germanium

#	Sample ID	Analyzed Date		Q
49	MA0J7L	12/07/10 13:44	80.6	<input checked="" type="checkbox"/>
50	MAQQ1	12/07/10 13:47	79.0	<input checked="" type="checkbox"/>
51	MAQQ1P5	12/07/10 13:49	86.1	<input type="checkbox"/>
52	MAQQ1Z	12/07/10 13:52	79.3	<input checked="" type="checkbox"/>
53	MAQQ4	12/07/10 13:55	77.4	<input checked="" type="checkbox"/>
54	MAQRA	12/07/10 13:57	80.6	<input checked="" type="checkbox"/>
55	MAQRH	12/07/10 14:00	85.8	<input checked="" type="checkbox"/>
56	CCV 6	12/07/10 14:02	93.4	<input checked="" type="checkbox"/>
57	CCB 6	12/07/10 14:05	97.2	<input checked="" type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 14:26:55

Method: 6020

Instrument: M02

Batch: 101207A2

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101207A2, 4	12/07/2010 09:20:59	<input type="checkbox"/>
ICV	ICV	101207A2, 5	12/07/2010 09:25:16	<input type="checkbox"/>
ICB	ICB	101207A2, 6	12/07/2010 10:24:20	<input type="checkbox"/>
ICSA	ICSA	101207A2, 9	12/07/2010 10:32:16	<input type="checkbox"/>
ICSAB	ICSAB	101207A2, 10	12/07/2010 10:34:53	<input type="checkbox"/>
CCV 1	CCV	101207A2, 15	12/07/2010 11:25:24	<input type="checkbox"/>
CCB 1	CCB	101207A2, 16	12/07/2010 11:50:24	<input type="checkbox"/>
CCV 2	CCV	101207A2, 19	12/07/2010 12:03:37	<input type="checkbox"/>
CCB 2	CCB	101207A2, 20	12/07/2010 12:06:16	<input type="checkbox"/>
CCV 3	CCV	101207A2, 31	12/07/2010 12:46:51	<input type="checkbox"/>
CCB 3	CCB	101207A2, 32	12/07/2010 12:49:31	<input type="checkbox"/>
CCV 4	CCV	101207A2, 33	12/07/2010 12:55:08	<input type="checkbox"/>
CCB 4	CCB	101207A2, 34	12/07/2010 12:57:47	<input type="checkbox"/>
CCV 5	CCV	101207A2, 45	12/07/2010 13:26:17	<input type="checkbox"/>
CCB 5	CCB	101207A2, 46	12/07/2010 13:28:56	<input type="checkbox"/>
CCV 6	CCV	101207A2, 56	12/07/2010 14:02:57	<input type="checkbox"/>
CCB 6	CCB	101207A2, 57	12/07/2010 14:05:37	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: ICV (ICV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 4

Method 6020\_

Acquired: 12/07/2010 09:20:59

M02

Calibrated: 12/07/2010 09:15:34

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	2727202	938.26	800.00	117	
7439-96-5	Manganese	55	564887	80.568	80.000	101	
7440-38-2	Arsenic	75	79894	82.186	80.000	103	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	783241				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: ICV (ICV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 5

Method 6020\_

Acquired: 12/07/2010 09:25:16

M02

Calibrated: 12/07/2010 09:15:34

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	2197458	743.59	800.00	92.9	
7439-96-5	Manganese	55	548744	77.636	80.000	97.0	
7440-38-2	Arsenic	75	79998	81.597	80.000	102	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	789143				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: ICB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 6

Method 6020\_

Acquired: 12/07/2010 10:24:20

M02

Calibrated: 12/07/2010 09:15:34

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	82057	-4.3179	50.0	2.1	0.0	
7439-96-5	Manganese	55	2876	-0.01112	1.0	0.083	0.0	
7440-38-2	Arsenic	75	6335	0.41056	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	817166					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: ICSA

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 9

Method 6020\_

Acquired: 12/07/2010 10:32:16

M02

Calibrated: 12/07/2010 10:26:59

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	50931943	97071	100000	97.1	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	42530	6.2209		*	
7440-38-2	Arsenic	75	6176	1.1300		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	720572				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: ICSAB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 10	Method 6020_
Acquired: 12/07/2010 10:34:53	M02
Calibrated: 12/07/2010 10:26:59	Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	53685267	92108	100100	92.0	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	692173	100.84	100.00	101	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	98694	105.26	100.00	105	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	767179				<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001)

M02

Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 1 (CCV)

Mult: 1.00

Diff: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 15

Method 6020\_

Acquired: 12/07/2010 11:25:24

M02

Calibrated: 12/07/2010 10:26:59

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	16030226	4704.5	5100.0	92.2	
7439-96-5	Manganese	55	825342	97.821	100.00	97.8	
7440-38-2	Arsenic	75	116972	101.28	100.00	101	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	943099				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 1 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 16	Method 6020_
Acquired: 12/07/2010 11:50:24	M02
Calibrated: 12/07/2010 11:25:24	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	9698	-29.747	50.0	2.1	0.0	
7439-96-5	Manganese	55	1199	-0.27878	1.0	0.083	0.0	
7440-38-2	Arsenic	75	8549	0.71367	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1055615					<input type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 2 (CCV)

Mult: 1.00

Dif: 1.00

Divs: 1.000

Instrument: ICPMS M02  
 File: 101207A2 # 19  
 Acquired: 12/07/2010 12:03:37  
 Calibrated: 12/07/2010 11:50:24

Channel 262  
 Method 6020\_  
 M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	18282351	5073.3	5100.0	99.5	
7439-96-5	Manganese	55	918128	97.045	100.00	97.0	
7440-38-2	Arsenic	75	132670	98.848	100.00	98.8	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1081583				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 2

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02  
 File: 101207A2 # 20  
 Acquired: 12/07/2010 12:06:16  
 Calibrated: 12/07/2010 11:50:24

Channel 262  
 Method 6020\_  
 M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	25690	4.4910	50.0	2.1	0.0	
7439-96-5	Manganese	55	1661	0.04852	1.0	0.083	0.0	
7440-38-2	Arsenic	75	8549	-0.05147	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1063915					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: CCV 3 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 31	Method 6020_
Acquired: 12/07/2010 12:46:51	M02
Calibrated: 12/07/2010 11:50:24	Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	16599974	4974.0	5100.0	97.5	
7439-96-5	Manganese	55	865038	98.699	100.00	98.7	
7440-38-2	Arsenic	75	125857	101.41	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1001216		<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 3 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 32	Method 6020_
Acquired: 12/07/2010 12:49:31	M02
Calibrated: 12/07/2010 11:50:24	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	28158	5.3322	50.0	2.1	0.0	
7439-96-5	Manganese	55	1590	0.04418	1.0	0.083	0.0	
7440-38-2	Arsenic	75	8557	0.08099	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1044769					<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 4 (CCV)

Mult: 1.00

Diff: 1.00

Divs: 1.000

Instrument: ICPMS M02  
 File: 101207A2 # 33  
 Acquired: 12/07/2010 12:55:08  
 Calibrated: 12/07/2010 11:50:24

Channel 262  
 Method 6020\_  
 M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	17282351	5079.9	5100.0	99.6	
7439-96-5	Manganese	55	885694	99.129	100.00	99.1	
7440-38-2	Arsenic	75	127966	101.12	100.00	101	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1020661				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 4 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 34	Method 6020_
Acquired: 12/07/2010 12:57:47	M02
Calibrated: 12/07/2010 11:50:24	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	29450	5.3593	50.0	2.1	0.0	
7439-96-5	Manganese	55	1691	0.04777	1.0	0.083	0.0	
7440-38-2	Arsenic	75	8440	-0.29624	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1089732					<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 5 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101207A2 # 45 Method 6020\_  
 Acquired: 12/07/2010 13:26:17 M02  
 Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	16256534	5026.0	5100.0	98.5	
7439-96-5	Manganese	55	832601	98.019	100.00	98.0	
7440-38-2	Arsenic	75	119747	99.425	100.00	99.4	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	970352				<input checked="" type="checkbox"/>

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001)	M02	Reported: 12/07/10 14:26:55
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 5 Mult: 1.00 Dil: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 46	Method 6020_
Acquired: 12/07/2010 13:28:56	M02
Calibrated: 12/07/2010 11:50:24	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	25941	5.0072	50.0	2.1	0.0	
7439-96-5	Manganese	55	1640	0.05706	1.0	0.083	0.0	
7440-38-2	Arsenic	75	7805	-0.27039	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1003172					<input checked="" type="checkbox"/>

Reviewed by:	Date:
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## **Sample Preparation Log**

**TestAmerica - West Sacramento  
Metals - Air Toxics - Preparation Log**

Date: 3-Dec-10

Analyst: jz

Matrix: AIR

Fraction: Filter

SOP: WS-IP-0010

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G0L020000	286	MARD8B	2A	NA	NA	NA	100 mL	336286	1.2
G0L020000	286	MARD8C	2A	NA	NA	NA	100 mL	336286	1.2
G0L020000	286	MARD8L	2A	NA	NA	NA	100 mL	336286	1.2
G0K270427	5	MAK04	2A	9 inches	0.75 inches	0.75 inches	100 mL	336286	1.2
G0K270427	6	MAK07	2A	9 inches	0.75 inches	0.75 inches	100 mL	336286	1.2
G0K270427	7	MAK08	2A	9 inches	0.75 inches	0.75 inches	100 mL	336286	1.2
G0K270427	8	MAK09	2A	9 inches	0.75 inches	0.75 inches	100 mL	336286	1.2

*QCs shared with batch 0336282 (MG, LCS, LCSD)*

For the cassette filter digest the whole filter is used.

For 1" filter: factor = 9 (9/1).

For 0.75" filter factor = 12 (9/0.75).

## Metals Spiking Documentation Form

Lot #(s): 606020440 606010474 606270427

Batch Number: 0336282 <sup>0336286</sup> ~~0336282~~ <sub>12/2/10</sub> EPA Analytical Method ID: 6070 Spiked Date: 12/2/10

MS Sample(s): NA EPA Prep Method ID: WS-11-0010 Hot Plate Microwave ID: Met IV

Analyst Initial/Date: J2 12/2/10 Witness Initial/Date: 12/02/10 N14 Hot Plate Temp Initial: 93°C Final: 93°C

Correct Folder ID Digestion Cup Lot #: 1008257-0307 Thermometer ID: BT09

Witness: NA Filter Paper Lot #: 390427 Fin Vol Cup Lot: 100505

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/LCSD Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO <sub>3</sub>	Ca, Mg Al, As, Ba, Se, Sn, Ti Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn Cu Cr Be, Cd Ag	5,000 200 100 50 25 20 5 5.0				
	ICP Part 2 2% HNO <sub>3</sub>	K, Na P, S B, Li, Sr	5,000 1,000 100				
	Si H <sub>2</sub> O/Tri HF	Si	1,000				12/2/10
/	TACA-1 5% HNO <sub>3</sub>	Al, K, Mg, Ca, Na, Fe, P, B As, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, U, V, Zn, Ba, Li Sr Ag, Ti	500 100 25	3189-6-5	200 µl	NA	8/31/11
/	TACA-2 5% HNO <sub>3</sub>	Mo, Sb, Sn, Ti	100	3189-6-6	200 µl	NA	8/31/11
	Misc Elements						J2 12/2/10

### Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO <sub>3</sub>	Mallinckrodt			30% H <sub>2</sub> O <sub>2</sub>	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	
/	3M HNO <sub>3</sub>	In-House	4028-30-6		1:1 HCl	In-House	J2 12/2/10

ICP matrix spike and LCS: For final volumes of 100ml, add 1mL from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.  
 ICPMS matrix spike and LCS: For final volumes of 100ml, add 0.2 mL each of TACA-1 and TACA-2.  
 Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

## Preparation Data Review Checklist

Prep Batch(es) 0336282 0336286 Test: 6020  
 Prep Date: 12/2/10 Holding Times: <sup>5/23/11</sup>5/29/11 <sup>5/30/11</sup> NCM: Y

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
<b>B. Weights and Volumes</b>		
1. Recorded weights are in anticipated range	NA	NA
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	NA
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
<b>C. Standards and Reagents</b>		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	NA
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
<b>D. Documentation</b>		
1. Are all nonconformances documented appropriately?	NA	NA
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: WM

Date: 12/02/10

2<sup>nd</sup> Level Reviewer: SA

Date: 12/6/10

Comments:

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AIR, TSP-  
Total Suspended  
Particulates

# **Raw Data Package**



### PARTICULATE ANALYSIS

#### LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: GOK270427(5-8) Batch #: 0337343

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/3/10 ANALYST: J2

#### LEVEL 1 ANALYSIS REVIEW

	YES	NO	NA
1. Samples are in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Sample filter number matches the folder or petri ID number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Desiccator temperature and % humidity criteria in control.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Balance calibration criteria met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beginning and ending calibration sample bracket weights are in calibration.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Samples reached stable weight.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Samples exceeded 5 consecutive final weighings.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### LEVEL 1 DATA REVIEW

1. Benchsheet is complete.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. QAS or QAPP consulted and followed for client specifics.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Data entered in properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Copy of spreadsheet or logbook raw data entry attached to data package.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: J2 12/3/10

#### LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, Anomalies, Holding times checked and approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Reanalysis documented and chemist notified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Client specific criteria met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Data entry checked and released in Quantims.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed By & Date: [Signature] 12/7/10

Comments: Desiccator 2B

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RQC050

TestAmerica Laboratories, Inc.  
WET CHEM BATCHSHEET

Run Date: 12/03/10  
Time: 16:05:48

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

<u>TOTAL</u> <u>NUMBER</u>	<u>SAMPLE</u> <u>NUMBER</u>	<u>QC</u>	<u>RE-RUN</u> <u>MATRIX</u>	<u>RE-RUN</u> <u>OTHER</u>	<u>MISC</u> <u>NUMBER</u>	<u>TOTAL</u> <u>HOURS</u>	<u>EXPANDED</u> <u>DELIVERABLE</u>
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METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
 QC BATCH #: 0337343 INITIALS: DATA ENTRY:  
 PREP DATE: 11/30/10 12:35 PREP JZ INITIALS JZ  
 COMP DATE: 12/02/10 10:31 ANAL JZ DATE 12/3/10  
 USER: PHOMSOPT

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
MAK04-1-AA	G-0K270427-005	XX S 88 AO 3W	M	12/3/10	UW-11232010A
MAK07-1-AA	G-0K270427-006	XX S 88 AO 3W	M	12/3/10	DW-11232010A
MAK08-1-AA	G-0K270427-007	XX S 88 AO 3W	M	12/3/10	UW-11232010B
MAK09-1-AA	G-0K270427-008	XX S 88 AO 3W	M	12/3/10	DW-11232010B

Control Limits

PDE115 TestAmerica Laboratories, Inc. Date 12/07/2010  
 Inorganics Batch Review QC Batch 0337343 Time 12:55:12

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
 Analyst:Therp Phomsopna

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
MAK04-1-AA	0.0122	g	0.0005	11/30-12/03/10	.00	N		0.0122	0.0005	1.00
MAK07-1-AA	0.0139	g	0.0005	11/30-12/03/10	.00	N		0.0139	0.0005	1.00
MAK08-1-AA	0.0620	g	0.0005	11/30-12/03/10	.00	N		0.0620	0.0005	1.00
MAK09-1-AA	0.0650	g	0.0005	11/30-12/03/10	.00	N		0.0650	0.0005	1.00

Notes:

TEST TOTAL # SAMPLE # PRODUCTION TOTALS MATRIX # OTHER # MISC # HOURS  
 0 0 0 0 0 0 0





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica West Sacramento Balance Calibration Check Log

Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits <sup>2</sup>		Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits <sup>2</sup>		DATE	INIT.	WEIGHT ID	P/F
		Lower (g)	Upper (g)			Lower (g)	Upper (g)				
0.2000	0.1996	0.1995	0.2005	10.000	10.0002	9.9999	10.100	10/21/10	SCF	QA-011	P
0.2000	0.2003	0.1995	0.2005	10.000	10.0001	9.9999	10.100	10/21/10	SCF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0005	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.2002	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0000	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0000	9.9999	10.0100	10/21/10	SCF	QA-011	P
0.2000	0.1996	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	11/1/10	SCF	QA-011	P
0.2000	0.1996	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	11/2/10	SCF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	11/3/10	SCF	QA-011	P
0.2000	0.2000	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	11/4/10	SCF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0004	9.9999	10.0100	11/5/10	SCF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0000	9.9999	10.0100	11/8/10	SCF	QA-011	P

1. P= Pass, F= Fail. The observed weight must be within the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.

- a) Do not move or use the balance
- b) Attach a sign instructing others not to use the balance (see front of logbook)
- c) Notify the QA department.

2. Balance Tolerances (grams)

Denomination	Range	Denomination	Range
0.2000	0.1995 - 0.2005	10	9.9000 - 10.100
0.5000	0.4995 - 0.5005	20	19.8000 - 20.200
1	0.9900 - 1.0100	50	49.5000 - 50.500
2	1.9800 - 2.0200	100	99.0000 - 101.000
5	4.9500 - 5.0500		

3. When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 - 0.0022
1	0.9950 - 1.0050

Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

TestAmerica West Sacramento  
Balance Calibration Check Log

Working WT Denomination (g)	WEIGHT #1				Working WT Denomination (g)	WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F
	OBSERVED WEIGHT (g)	Acceptance limits <sup>2</sup>		OBSERVED WEIGHT (g)		Acceptance limits <sup>2</sup>							
		Lower (g)	Upper (g)			Lower (g)	Upper (g)						
0.2000	0.2001	0.1995	0.2005	10.0000	9.9994	9.9999	10.0002	11/30/10	12	QA 011	P		
0.2000	0.2002	0.1995	0.2005	10.0000	9.9995	9.9999	10.0000	12/1/10	12	QA 011	P		
0.2000	0.2000	0.1995	0.2005	10.0000	9.9999	9.9999	10.0000	12/2/10	SN	QA-11	P		
0.2000	0.2000	0.1995	0.2005	10.0000	9.9997	9.9999	10.0000	12/3/10	SN	QA-11	P		
0.2000	0.2002	0.1995	0.2005	10.0000	9.9993	9.9999	10.0000	12/4/10	12	QA 011	P		

1 P= Pass, F= Fail. The observed weight must be within the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.

- a) Do not move or use the balance
- b) Attach a sign instructing others not to use the balance (see front of logbook).
- c) Notify the QA department.

<sup>2</sup> Balance Tolerances (grams):

Denomination	Range	Denomination	Range
0.2000	0.1985 - 0.2005	10	9.9000 - 10.1000
0.5000	0.4995 - 0.5005	20	19.8000 - 20.2000
1	0.9900 - 1.0100	50	49.5000 - 50.5000
2	1.9800 - 2.0200	100	99.0000 - 101.0000
5	4.9500 - 5.0500		

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

<sup>3</sup> When performing Method 1684A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 - 0.0022
1	0.9950 - 1.0050

Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica West Sacramento Air Toxics

Desiccator Humidity/Temperature Logbook

Desiccator #	1			2			3			4			5			6			7			Amb		
	Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH		
10/27/10	ECF	70	33	-	71	28	-	72	35	-	71	37	-	71	35	-	73	35	-	72	31	-	73	45
10/21/10	SV	70	33	-	71	28	-	72	36	-	72	41	①	71	42	①	73	35	-	72	32	-	73	56
11/25/10	SV	69	33	-	69	28	-	70	37	-	69	28	-	70	28	-	72	35	-	72	31	-	72	43
10/26/10	ECF	68	33	-	68	28	-	70	36	-	69	28	-	69	28	-	70	35	-	70	32	-	70	34
10/27/10	ECF	67	33	-	68	28	-	69	35	-	68	28	-	68	28	-	70	34	-	70	31	-	70	30
10/28/10	ECF	65	34	-	66	29	-	66	36	-	65	29	-	66	29	-	68	34	-	66	31	-	68	40
10/29/10	ECF	65	33	-	66	29	-	67	37	-	65	29	-	66	29	-	69	34	-	66	31	-	68	48
10/30/10	ECF	65	34	-	66	30	-	66	40	-	65	29	-	66	29	-	68	35	-	66	32	-	68	49
11/1/10	ECF	65	34	-	66	32	-	67	41	-	65	30	-	66	29	-	68	35	-	68	32	-	68	50
11/2/10	ECF	65	34	-	66	32	-	67	41	-	65	30	-	66	29	-	68	35	-	68	32	-	68	50
11/3/10	ECF	65	34	-	66	34	-	66	42	-	65	29	-	66	29	-	68	36	-	66	33	-	68	51
11/4/10	ECF	68	33	-	69	36	①	70	42	①	68	29	-	69	29	-	70	37	-	70	32	-	72	49
11/5/10	ECF	69	33	-	69	28	-	70	43	①	69	30	-	70	32	-	70	37	-	70	32	-	72	49
11/5/10	ECF	72	33	-	72	27	②	74	28	-	72	29	-	73	33	-	73	37	-	73	32	-	75	43
11/7/10	SV	69	33	-	70	28	-	71	29	②	70	31	-	70	36	-	72	37	-	72	32	-	72	54
11/8/10	ECF	66	34	-	66	29	-	67	28	-	66	32	-	67	35	-	68	36	-	68	33	-	68	35

Abbreviations: T = Temperature (°F)  
Limits: RH 33± 5%  
Foot Notes: 1 = Desiccant Changed

RH = Relative Humidity (%)  
Temperature 22± 5 °C or 71.6± 9°F  
2 = Desiccator < 28% Humidity

FN = Foot Note

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204 11/10



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica West Sacramento Air Toxics

Desiccator Humidity/Temperature Logbook

Desiccator #	1			2			3			4			5			6			7			Amb		
	Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH		
11/30/10	ECF	65	30	-	65	33	-	67	28	-	66	33	-	66	29	-	68	33	-	68	32	-	68	29
12/1/10	ECF	64	31	-	65	33	-	66	29	-	65	33	-	66	31	-	68	33	-	68	32	-	68	30
12/2/10	ECF	64	31	-	65	33	-	66	28	-	65	33	-	65	32	-	68	33	-	68	32	-	68	32
12/3-12/8/10	ECF	67	31	-	68	33	-	69	27	2	67	34	-	68	32	-	70	33	-	70	32	-	70	36
12/6/10	ECF	67	32	-	68	37	-	69	30	-	68	36	-	68	35	-	70	34	-	70	32	-	70	47

Abbreviations: T = Temperature (°F)      RH = Relative Humidity (%)      FN = Foot Note  
 Limits: RH 33± 5%      Temperature 22± 5 °C or 71.6± 9°F  
 Foot Notes: 1 = Desiccant Changed      2 = Desiccator < 28% Humidity

RDR150

Analytical Results Batch Review/Release

12/07/00

14:04:36

Requested By: VALMORES

Batch	Lot/Sample ID	Analysis Code	W/O#	Group	Message
0337343					Release Requested
0337343					Successfully Released