

December 15, 2010

TestAmerica Project Number: G0K300434
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 30, 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,



DAVID R. ALLTUCKER
Project Manager

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Case Narrative

TestAmerica West Sacramento Project Number G0K300434

AIR, TO-13, Semivolatile Organics

Sample(s): 1, 4

The method blank associated with extraction batch 0334389 has d4-1,2-Dichlorobenzene pre-spike surrogate low outside stated control limits (58% vs. 60% lower limit). Re-injection confirms the low surrogate recovery. The field samples are in control for all surrogates. 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 G0K300434

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
MAMLW	1	UW-11242010B	11/24/2010 02:42 PM	11/30/2010 09:10 AM
MAML1	2	UW-11242010B	11/24/2010 02:48 PM	11/30/2010 09:10 AM
MAML6	3	DW-11242010B	11/24/2010 03:04 PM	11/30/2010 09:10 AM
MAML8	4	DW-11242010B	11/24/2010 03:02 PM	11/30/2010 09:10 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.

Lab Name: Test America Laboratories Inc Address: 880 Riverside Parkway West Sacramento, CA 95605 Lab PM: David Altucker Phone/Fax: (916) 373-5600 Lab PM Email: David.Altucker@tastamericainc.com Applicable Lab Code #:		Required Project Information: Site ID #: 102 Project #: 2027.07 Site Address: 560 W Lake Mead Pkwy Henderson, NV 89015 City: Henderson State: NV Zip: 89015 Site PM Name: Ted Spitzer Phone/Fax: (610) 438-4609 Site PM Email: Ted.Spitzer@ngem.com		Required Invoice Information: Send Invoice to: Susan Crowley Tronox LLC Address: PO Box 55 Henderson, NV 89009 City/State: Henderson, NV 89009 Phone #: (949) 260-9293 PO #:		CC #: 2027.07.0018 Total # of Samples: 4 Event Complete?													
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample ID. Volume (m ³)	Analysis	TO-8/AD/10/15, Fumes	TO-13/MB2/70C/HCB	TSR	6020/AS/MI/NC/PM5	Temp in OC	Samples on Ice?	Sample Receipt Conditions	Sample Intact?	Trip Blank?
	UW-11242010B		AA			11/24/2010	2:42 PM	1	474.16	X		X				Y/N	Y/N	Y/N	
	UW-11242010B		AA			11/24/2010	2:48 PM	1	698.9	X		X				Y/N	Y/N	Y/N	
	DW-11242010B		AA			11/24/2010	3:04 PM	1	667.57	X		X				Y/N	Y/N	Y/N	
	DW-11242010B		AA			11/24/2010	3:02 PM	1	450.17	X						Y/N	Y/N	Y/N	
Additional Comments/Special Instructions: 3-5 DAY TURN AROUND Ronda S. Bailey 11/24/10 09:20 1500 Clearing 2/10										SHIPPING INFO SENDER SIGNATURE: Ronda Bailey DATE SIGNED: 11/24/10 15:00 TIME									

CLIENT Northgate PM DA LOG # 68332

LOT# (QUANTIMS ID) GOK300434 QUOTE# 84087 LOCATION W14D AC
Checked (✓)

DATE RECEIVED 11/30/10 TIME RECEIVED 0910

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) NA

SHIPPING CONTAINER(S) TAL CLIENT N/A

COC #(S) 2027.07.0018

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)
 Observed: 4 Average 4 Corrected Average 4

LABORATORY THERMOMETER ID:
 IR UNIT: #4 #5 OTHER _____

Initials CV Date 11/30/10

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 N/A

APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

CLOUSEAU TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Initials CV Date 11/30/10

Notes _____

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

	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-11242010B

Trace Level Compounds

Lot - Sample #....:	G0K300434 - 001	Work Order #....:	MAMLW1AA	Matrix....:	AA
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/04/10	Volume....:	474.16
Prep Batch #:	0334389	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	0.021	0.0027	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		71		60 - 120
2-Fluorobiphenyl		85		58 - 105
2-Fluorophenol		73		41 - 105
Nitrobenzene-d5		81		46 - 118
Phenol-d5		85		43 - 122
Terphenyl-d14		92		69 - 110
2,4,6-Tribromophenol		106		61 - 118
<u>QUALIFIERS</u>				

Northgate Environmental Management, Inc.

Sample ID: DW-11242010B

Trace Level Compounds

Lot - Sample #....:	G0K300434 - 004	Work Order #....:	MAML81AA	Matrix....:	AA
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/04/10	Volume....:	450.17
Prep Batch #:	0334389	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	0.022	0.0029	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		68	60 - 120	
2-Fluorobiphenyl		78	58 - 105	
2-Fluorophenol		64	41 - 105	
Nitrobenzene-d5		73	46 - 118	
Phenol-d5		80	43 - 122	
Terphenyl-d14		93	69 - 110	
2,4,6-Tribromophenol		106	61 - 118	

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0K300434

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		0334389	
002	AA	SW846 6020		0340010	
003	AA	SW846 6020		0340010	
004	AA	EPA-2 TO-13		0334389	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0K300000 - 389B	Work Order #....:	MANG51AA	Matrix....:	AIR
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/04/10	Volume....:	0
Prep Batch #:	0334389	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	10.0	1.3	ug
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		58	*	60 - 120
2-Fluorobiphenyl		73		58 - 105
2-Fluorophenol		63		41 - 105
Nitrobenzene-d5		69		46 - 118
Phenol-d5		70		43 - 122
Terphenyl-d14		93		69 - 110
2,4,6-Tribromophenol		101		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0K300434	Work Order # ...: MANG51AC-LCS	Matrix : AIR
LCS Lot-Sample# : G0K300000 - 389	MANG51AD-LCSD	
Prep Date : 11/30/10	Analysis Date ..: 12/04/10	
Prep Batch # ...: 0334389		
Dilution Factor : 1		
Analyst ID.....: Mark Onishi	Instrument ID..: SMH	Method.....: EPA-2 TO-13
Initial Wgt/Vol: 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>
Hexachlorobenzene	100	97.9	ug	98	(70 - 110)		
	100	97.0	ug	97	(70 - 110)	0.86	(0 - 30)
<u>SURROGATE</u>			<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl			90		(58 - 105)		
			91		(58 - 105)		
2-Fluorophenol			77		(41 - 105)		
			74		(41 - 105)		
Nitrobenzene-d5			85		(46 - 118)		
			84		(46 - 118)		
Phenol-d5			86		(43 - 122)		
			79		(43 - 122)		
Terphenyl-d14			91		(69 - 110)		
			90		(69 - 110)		
2,4,6-Tribromophenol			109		(61 - 118)		
			112		(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-11242010B

Trace Level Compounds

Lot - Sample #....:	G0K300434 - 002	Work Order #....:	MAML11AC	Matrix....:	AA
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	12/06/10	Analysis Date....:	12/07/10	Volume....:	698.9
Prep Batch #:	0340010	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	0.0016	B J	0.0034	0.00070	ug/m3
Manganese	3.02	J	0.00172	0.000243	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-11242010B

Trace Level Compounds

Lot - Sample #....: G0K300434 - 003 Work Order #....: MAML61AC Matrix....: AA
Date Sampled....: 11/24/10 Date Received....: 11/30/10 Dilution Factor....: 1
Prep Date....: 12/06/10 Analysis Date....: 12/07/10 Volume....: 667.57
Prep Batch #: 0340010 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	0.0021	B J	0.0036	0.00073	ug/m3
Manganese	0.199	J	0.00180	0.000255	ug/m3

QUALIFIERS

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

QC DATA ASSOCIATION SUMMARY

G0K300434

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>
002	AA	SW846 6020		0340010	
003	AA	SW846 6020		0340010	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0L060000 - 010B Work Order #....: MAWLK1AA Matrix....: AIR
Date Sampled....: 11/24/10 Date Received....: 11/30/10 Dilution Factor....: 1
Prep Date....: 12/06/10 Analysis Date....: 12/07/10 Volume....: 0
Prep Batch #: 0340010 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	0.77	B	2.4	0.49	ug
Manganese	0.21	B	1.2	0.17	ug

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0K300434	Work Order # ...: MAWLK1AD-LCS	Matrix : AIR
LCS Lot-Sample# : G0L060000 - 010	MAWLK1AE-LCSD	
Prep Date : 12/06/10	Analysis Date ..: 12/07/10	
Prep Batch # ...: 0340010		
Dilution Factor : 1		
Analyst ID.....: Sabine Hargrave	Instrument ID..: M02	Method.....: SW846 6020
Initial Wgt/Vol: 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>
Arsenic	240	221	ug	92	(86 - 110)		
	240	224	ug	93	(86 - 110)	1.6	(0 - 15)
Manganese	240	223	ug	93	(88 - 110)		
	240	227	ug	95	(88 - 110)	1.9	(0 - 15)

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-11242010B

Trace Level Compounds

Lot - Sample #....:	G0K300434 - 002	Work Order #....:	MAML11AA	Matrix....:	AA
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/07/10	Volume....:	698.9
Prep Batch #:	0341292	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	0.0000306	0.000000715	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11242010B

Trace Level Compounds

Lot - Sample #....:	G0K300434 - 003	Work Order #....:	MAML61AA	Matrix....:	AA
Date Sampled....:	11/24/10	Date Received....:	11/30/10	Dilution Factor....:	1
Prep Date....:	11/30/10	Analysis Date....:	12/07/10	Volume....:	667.57
Prep Batch #:	0341292	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	0.000144	0.000000749	--	g/m3

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0K300434

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>
002	AA	CFR50B APDX B		0341292	
003	AA	CFR50B APDX B		0341292	

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 \leq 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 \leq 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.

V: DOD OSM 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 G0K290000-259B	|S120401.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	11:25	KT	|MALNT1AC G0K290000-259C	|S120402.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	11:49	KT	|MALNT1AD G0K290000-259L	|S120403.D	1000 Sa	1 mL	1	JZ	High % R
04-DEC-2010	12:14	KT	|L99F61DL G0K180595-1S	|S120404.D	30.06 g	1 mL	1	QL	
04-DEC-2010	12:38	KT	|L99F61DM G0K180595-1D	|S120405.D	29.95 g	1 mL	1	QL	
04-DEC-2010	13:03	KT	|MAK001AA G0K270427-1	|S120406.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	13:27	KT	|MAK011AA G0K270427-2	|S120407.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	13:52	KT	|MAK021AA G0K270427-3	|S120408.D	1000 Sa	1 mL	1	JZ	Low % R
04-DEC-2010	14:16	KT	|MAK031AA G0K270427-4	|S120409.D	1000 Sa	1 mL	1	JZ	Low % R
04-DEC-2010	14:41	KT	|MANG51AA G0K30000-389B	|S120410.D	1000 Sa	1 mL	1	JZ	Low % R
04-DEC-2010	15:05	KT	|MANG51AC G0K30000-389C	|S120411.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	15:30	KT	|MANG51AD G0K30000-389L	|S120412.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	15:54	KT	|MAMLW1AA G0K300434-1	|S120413.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	16:19	KT	|MAML81AA G0K300434-4	|S120414.D	1000 Sa	1 mL	1	JZ	
04-DEC-2010	16:43	KT	|L99G21AE G0K180595-8	|S120415.D	29.99 g	1 mL	1	QL	
04-DEC-2010	17:08	KT	|L99G31AE G0K180595-9	|S120416.D	30.07 g	1 mL	1	QL	
04-DEC-2010	17:32	KT	|L99G41AE G0K180595-10	|S120417.D	30.08 g	1 mL	1	QL	
04-DEC-2010	17:57	KT	|L99G51AE G0K180595-11	|S120418.D	30.05 g	1 mL	1	QL	
04-DEC-2010	18:21	KT	|L99G61AE G0K180595-12	|S120419.D	29.92 g	1 mL	1	QL	
04-DEC-2010	18:46	KT	|L99G91AE G0K180595-13	|S120420.D	30.07 g	1 mL	1	QL	
04-DEC-2010	19:10	KT	|L99HA1AE G0K180595-14	|S120421.D	30.03 g	1 mL	1	QL	
04-DEC-2010	19:35	KT	|L99HD1AE G0K180595-15	|S120422.D	29.97 g	1 mL	1	QL	
04-DEC-2010	19:59	KT	|L99HF1AE G0K180595-16	|S120423.D	30.01 g	1 mL	1	QL	
04-DEC-2010	20:24	KT	|L99HH1AE G0K180595-17	|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	7.28819	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:

$$\frac{252501}{584888} \times \frac{40}{50} = 0.34537 \quad \text{Ry 12/6/10}$$

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	RF50		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF %D / %DRIFT	%D / %DRIFT		
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	AMOUNTS				ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	
	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(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-Nitrosodipropylamine	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	
						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

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				ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	
	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(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-Nitrosodipropylamine	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						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	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

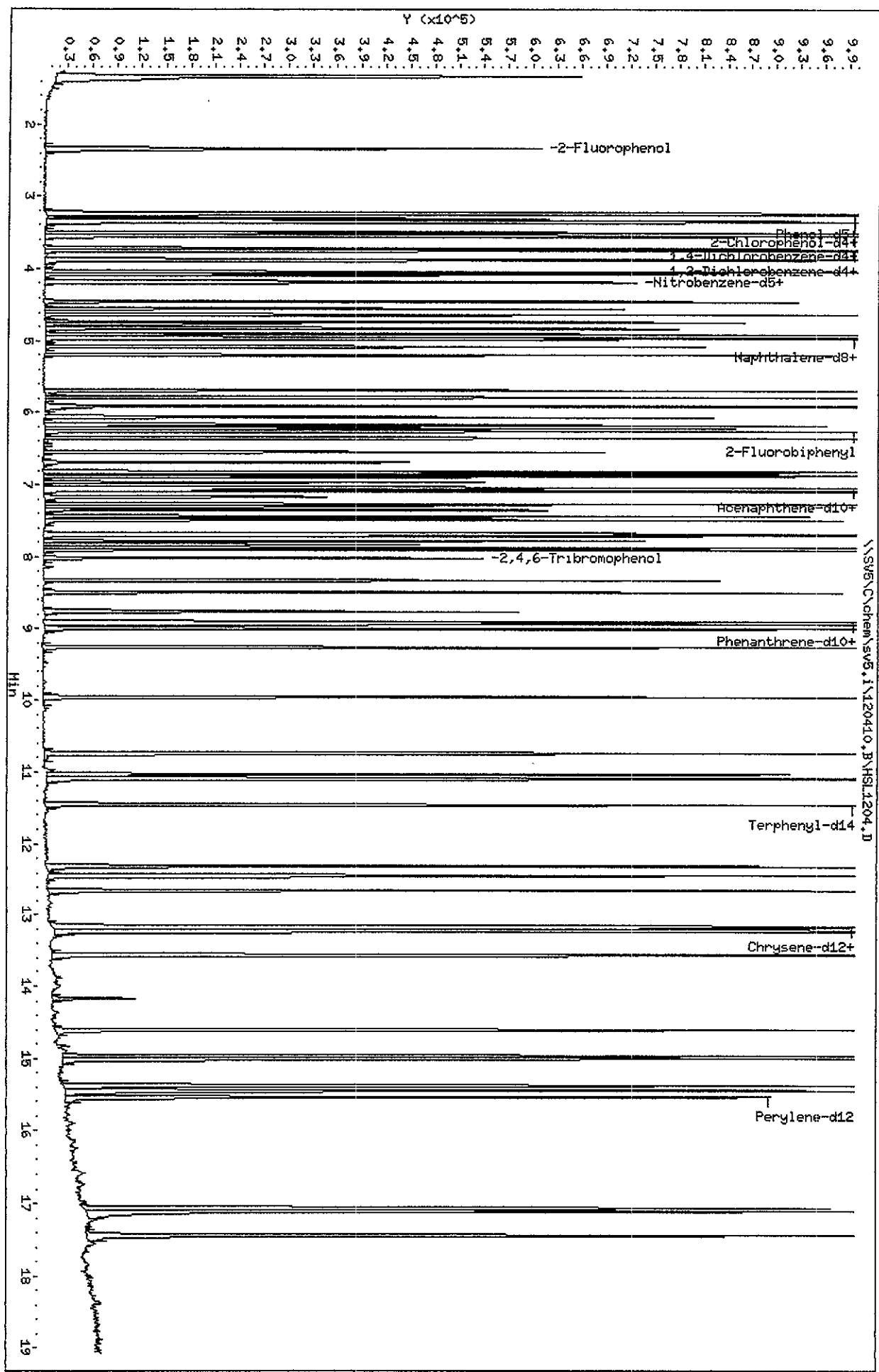
Instrument ID: sv5.i Calibration Date: 04-DEC-2010
 Lab File ID: HSL1204.D Calibration Time: 09:53
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: KT
 Method File: \\SV5\C\chem\sv5.i\120410.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	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.



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

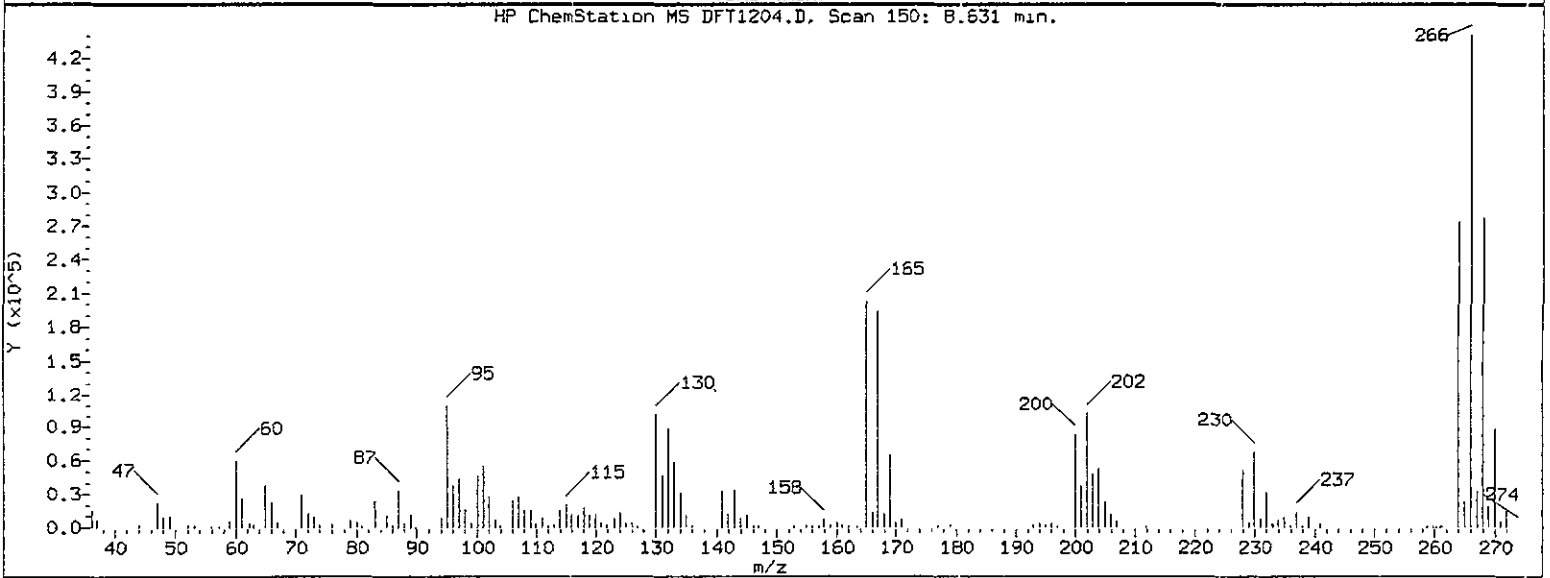
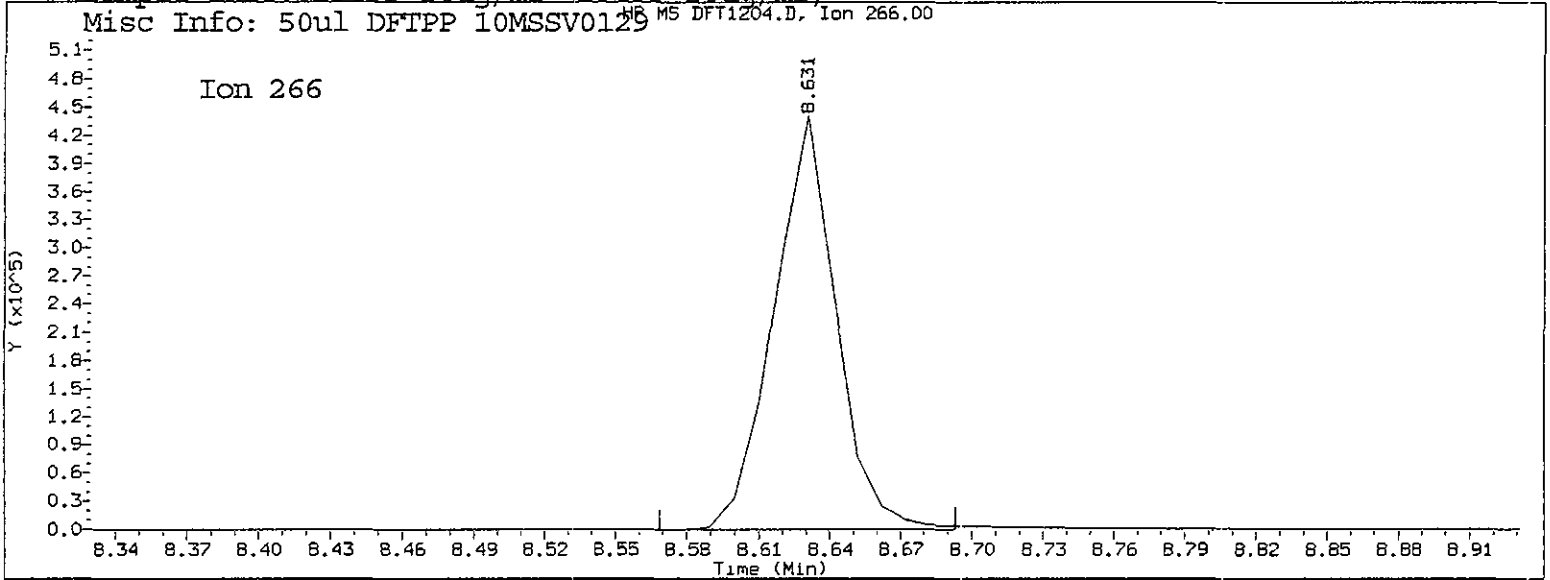
 *** PASSED ***

6
 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 10MSSV0125 MS DFT1204.D, Ion 266.00



Pentachlorophenol

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

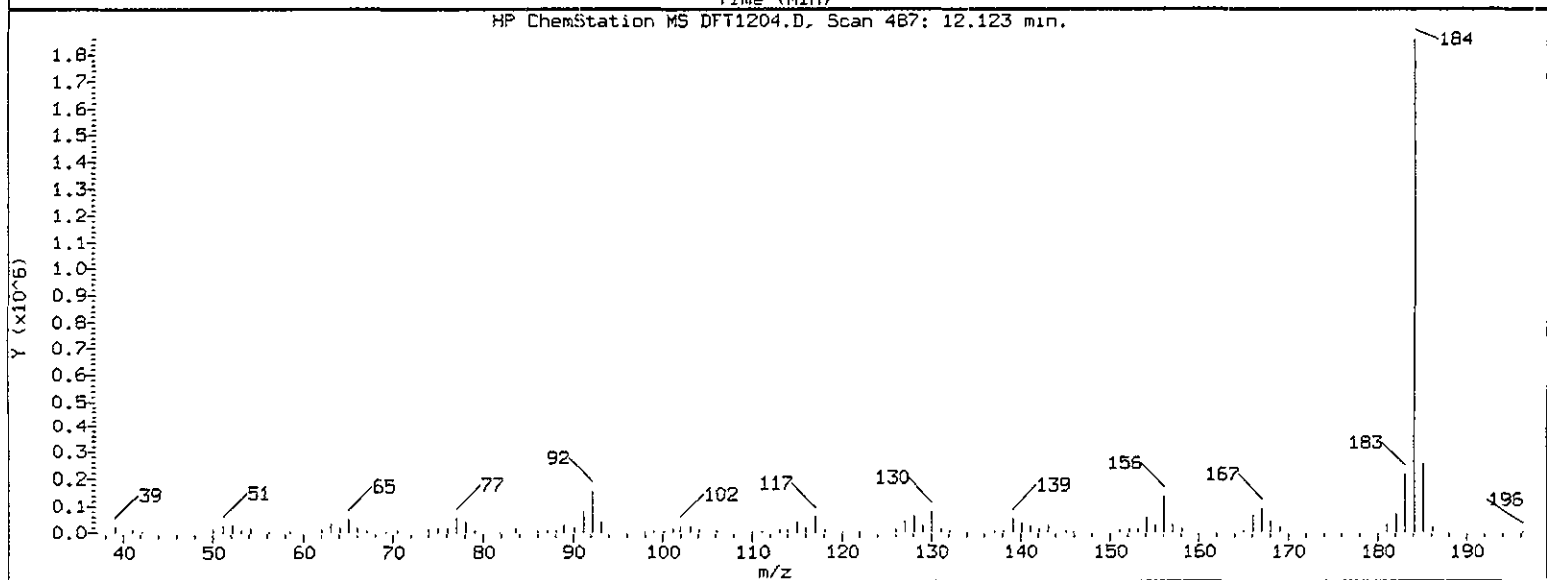
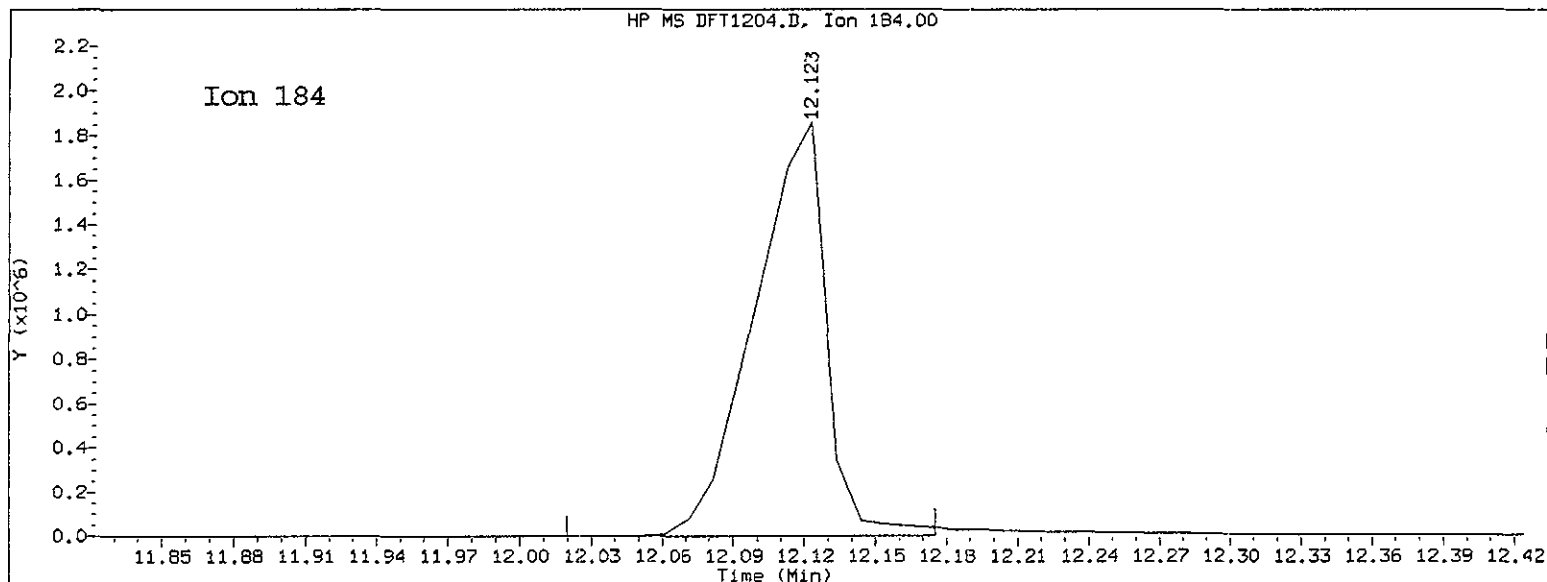
Time1 = 8.600923 Time2 = 8.630883 Time3 = 8.658121
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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

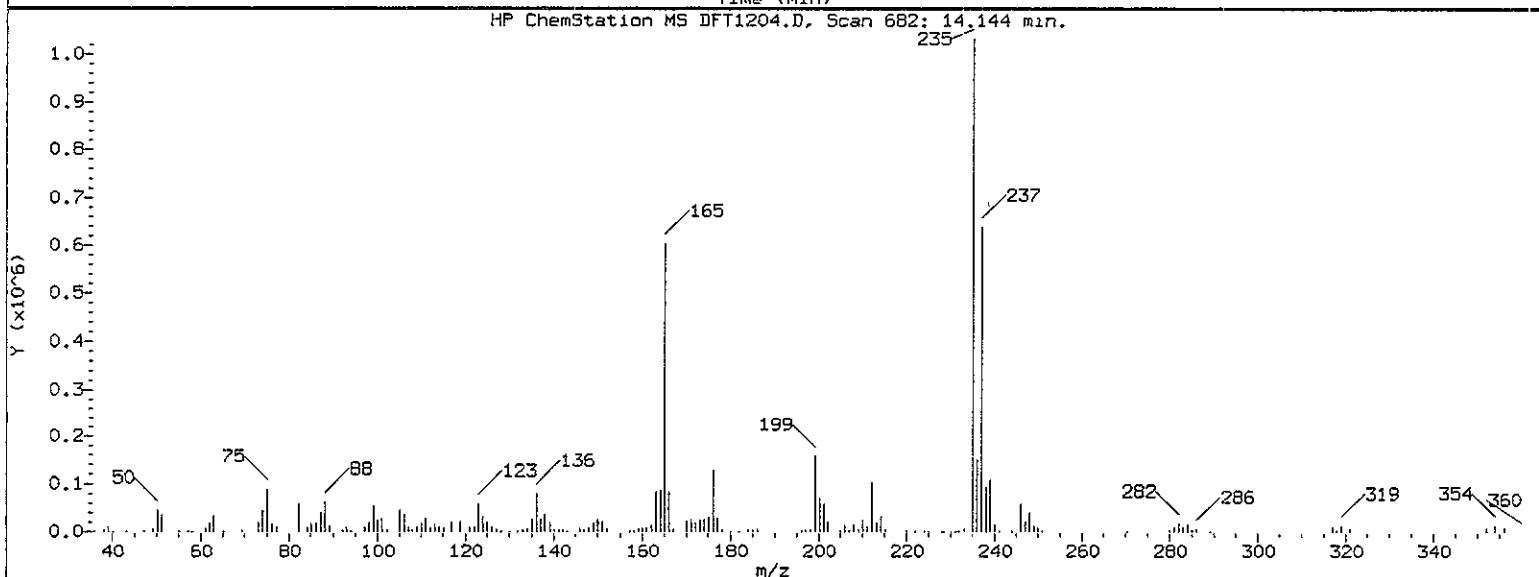
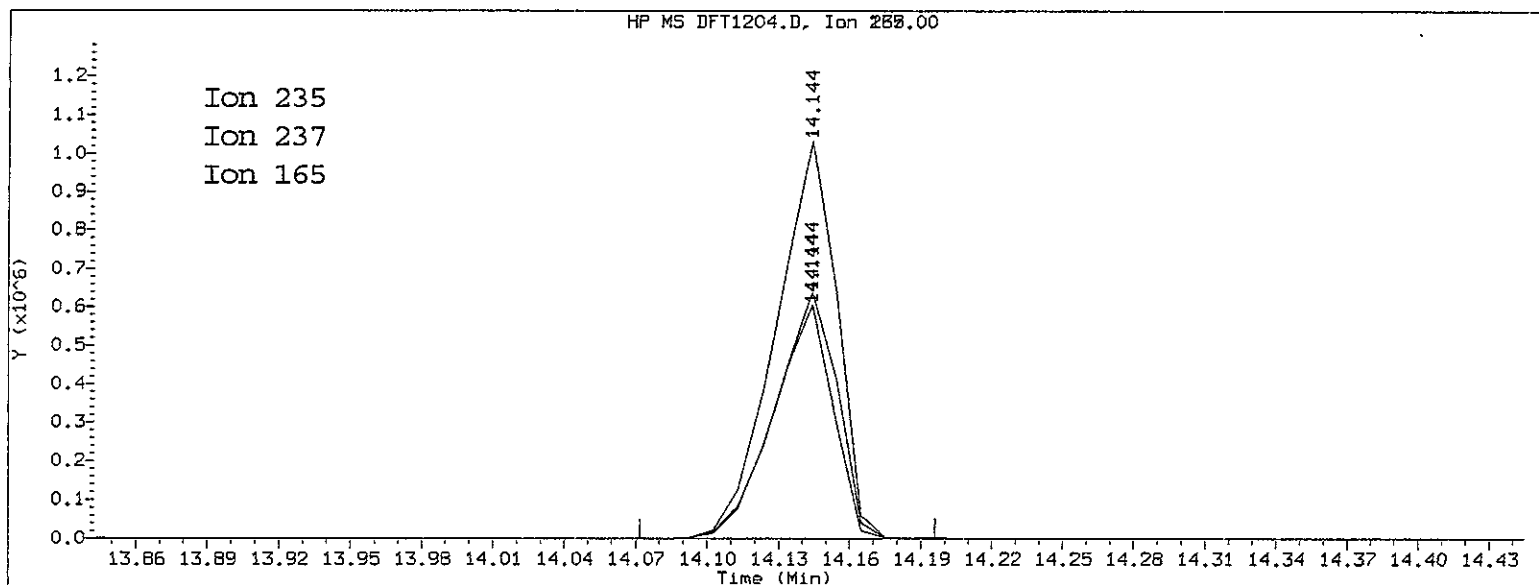
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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

=====

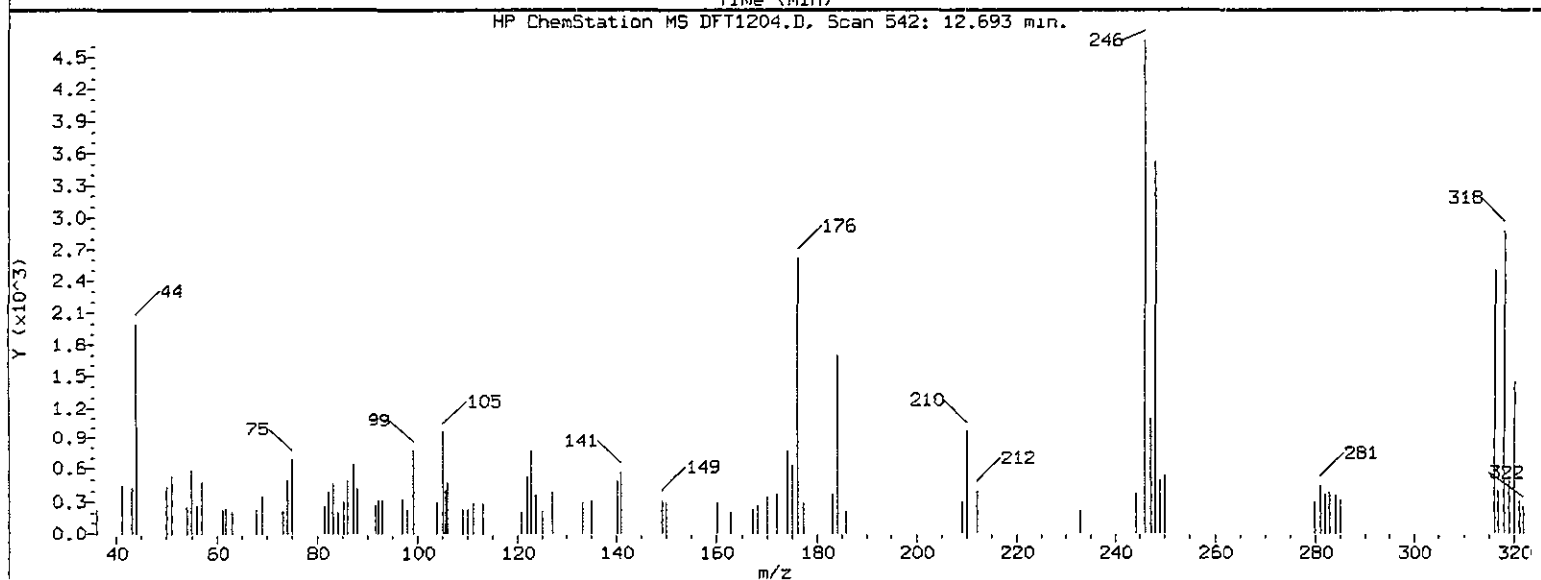
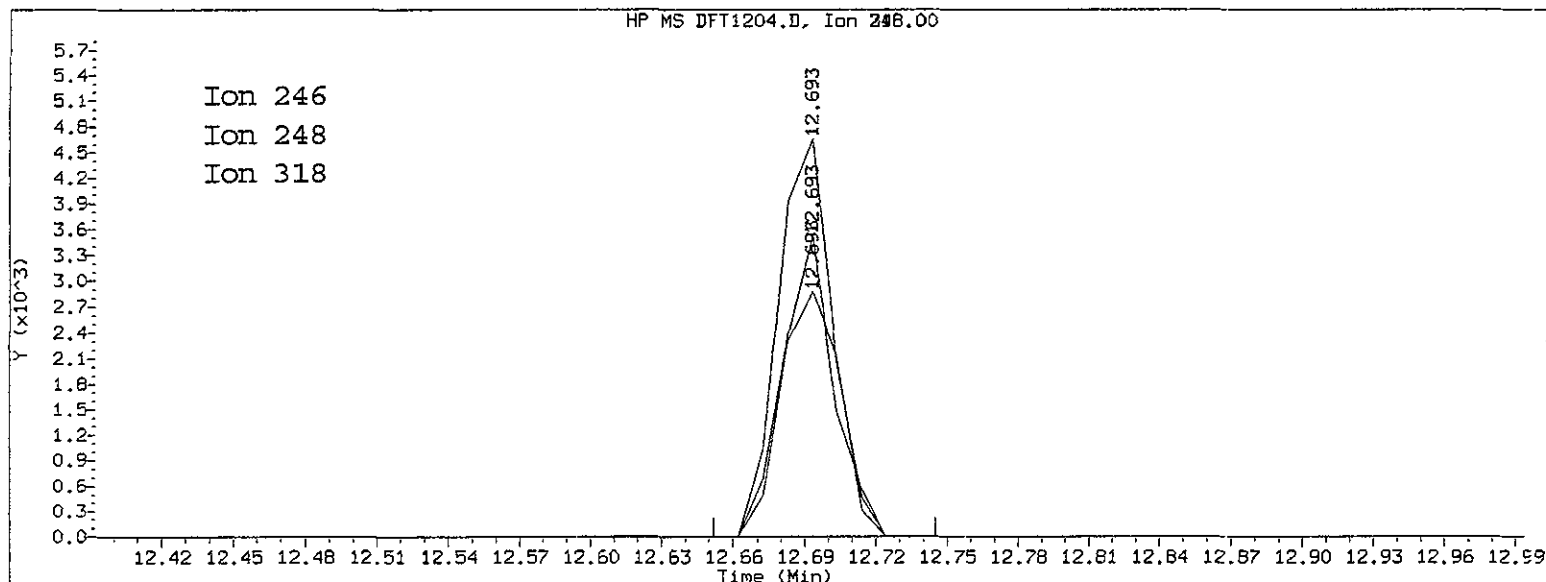
Exp. RT = 14.165

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

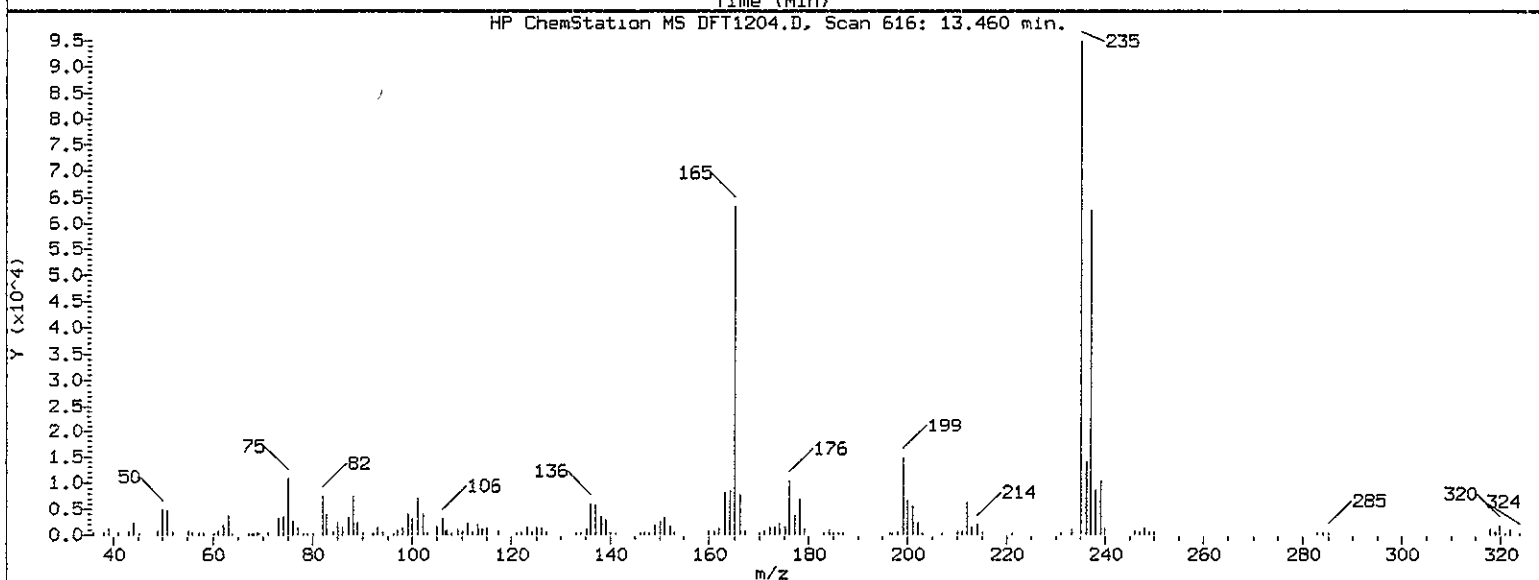
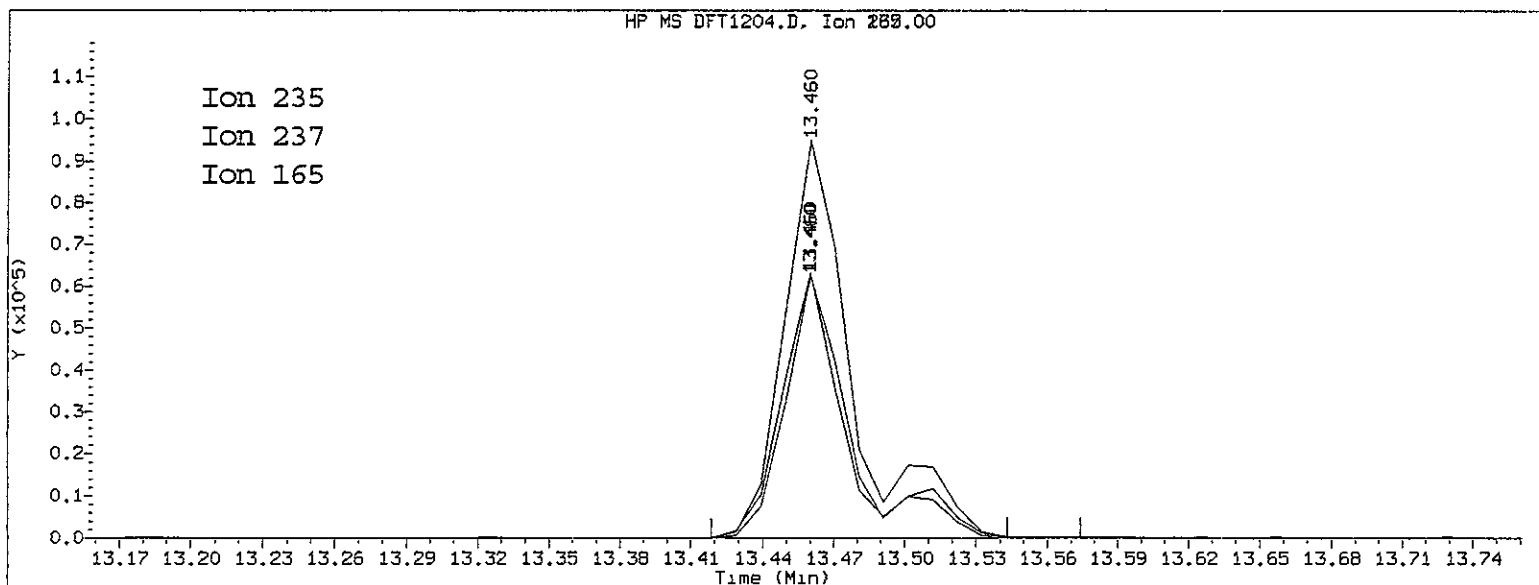


4,4'-DDE

=====
Exp. RT = 12.714
Found RT = 12.693

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

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

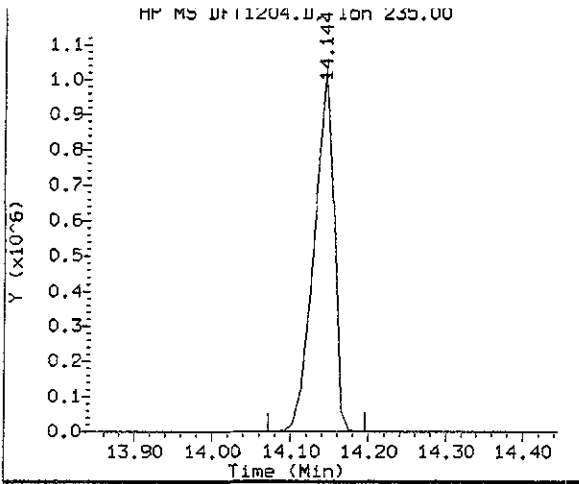


4,4'-DDD

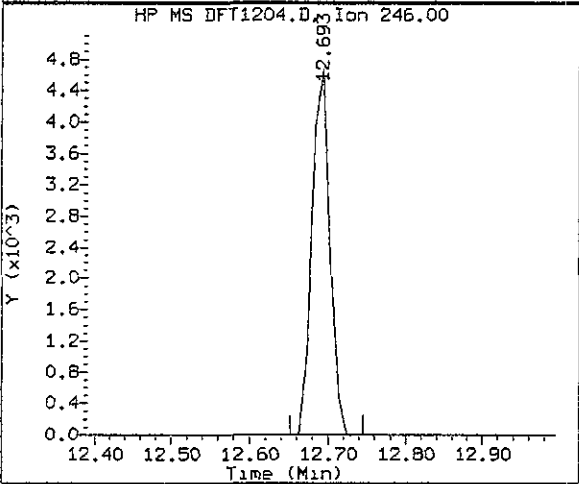
=====

Exp. RT = 13.491
Found RT = 13.460

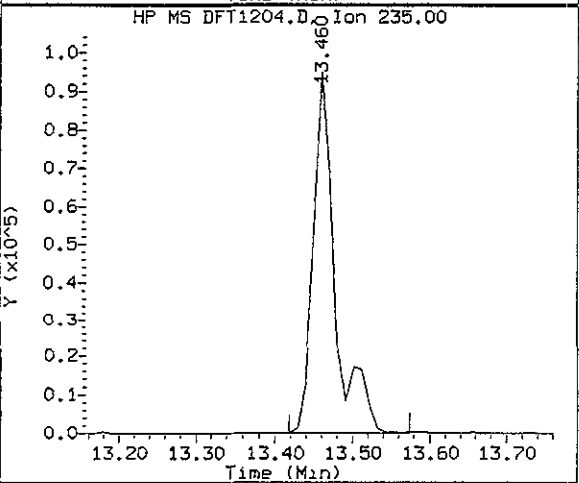
Mass	Area	Ratio
235	190198	100.00
237	120062	63.13
165	118067	62.08



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
 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
 Cal Date :
 Als bottle: 96
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: sv5.i
 Quant Type: ISTD
 Cal File:
 QC Sample: DFTPP
 Compound Sublist: all.sub
 Sample Matrix: None

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL		TARGET RANGE	RATIO	
					(ug/L)	FINAL (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	

CAS #: 5074-71-5

12/7/10

Date : 04-DEC-2010 10:15

Client ID:

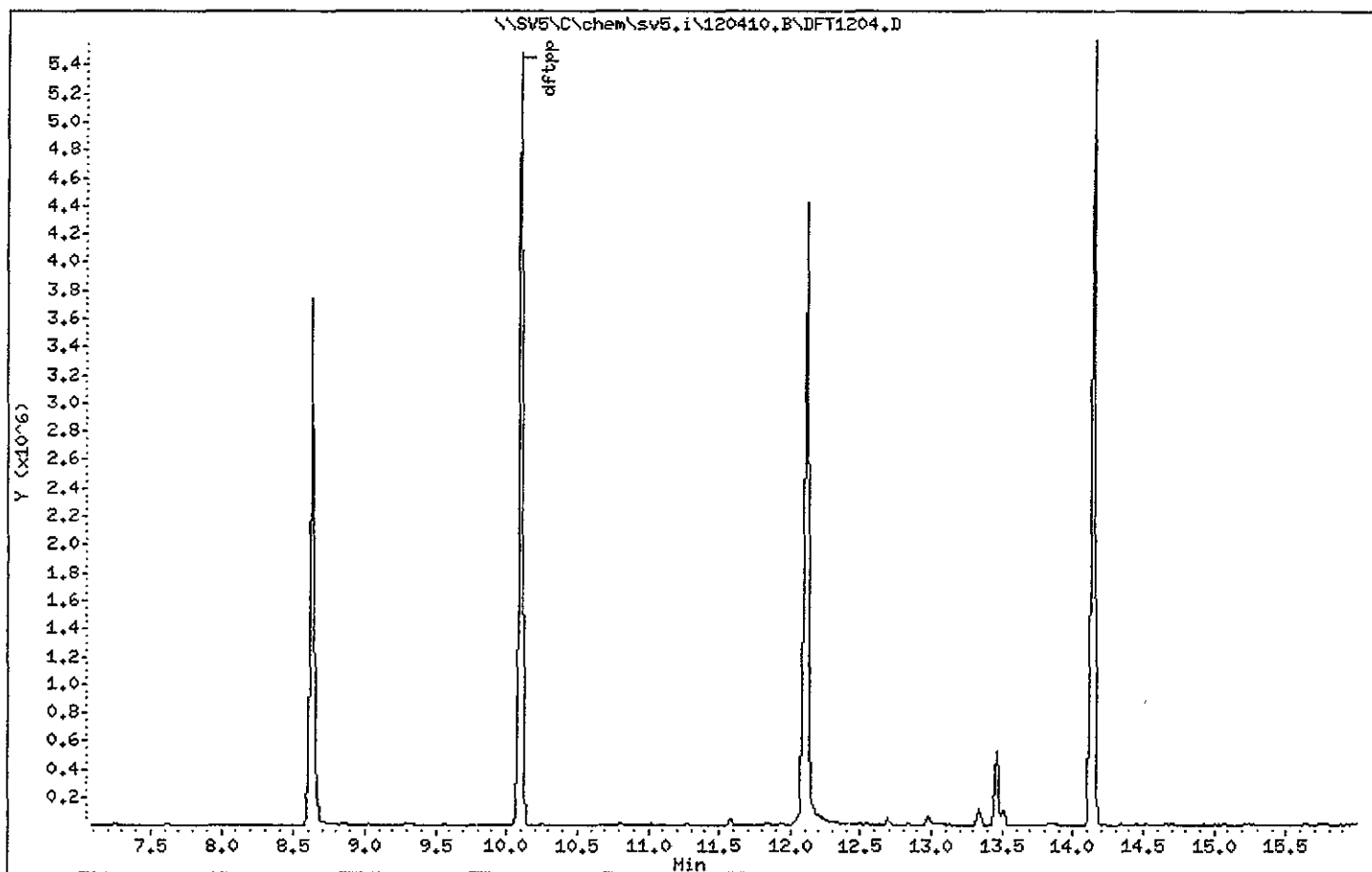
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Date : 04-DEC-2010 10:15

Client ID:

Instrument: sv5.i

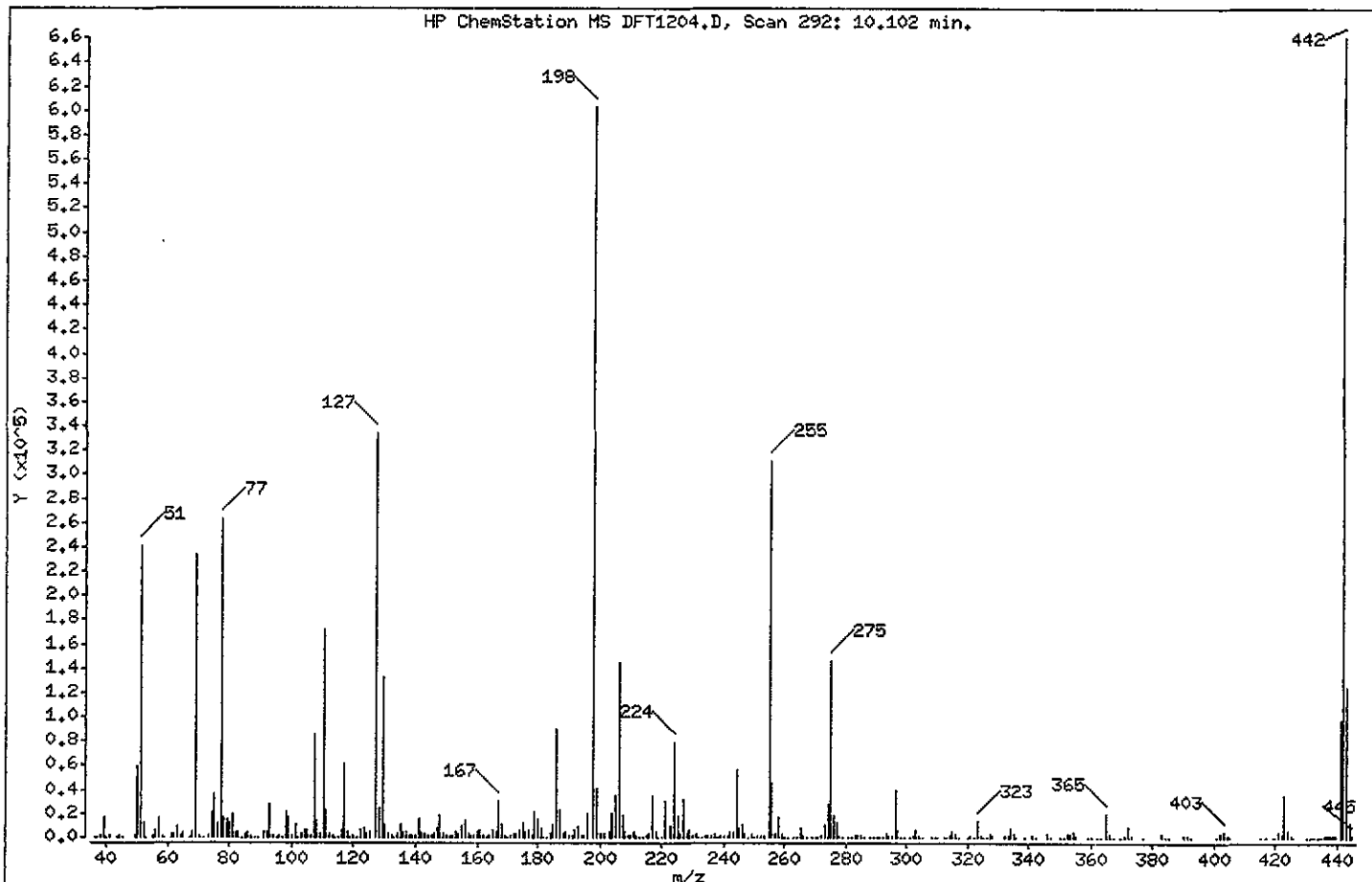
Sample Info: DFTPP 50ug/ml;

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 phases:

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\S120410.D
 Lab Smp Id: MANG51AA GOK30000-3 Client Smp ID: 0334389
 Inj Date : 04-DEC-2010 14:41
 Operator : KT Inst ID: sv5.i
 Smp Info : MANG51AA GOK30000-389B;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0334389;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: 8
 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)	111249	40.0000	(Q)
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	462027	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	251894	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	419551	40.0000	
* 5 Chrysene-d12	240		13.180	13.190	(1.000)	413584	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	426529	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	247104	63.0157	63.02
\$ 8 Phenol-d5	99		3.231	3.231	(0.912)	347094	70.3901	70.39
\$ 10 1,2-Dichlorobenzene-d4	152		3.739	3.739	(1.056)	79651	29.0712	29.07 (qR)
\$ 11 Nitrobenzene-d5	82		4.164	4.174	(0.841)	135320	34.5795	34.58
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	295662	36.4372	36.44
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	110415	100.875	100.9
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	376860	46.2603	46.26
108 Hexachlorobenzene	284		Compound Not Detected.					

12/6/10

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- 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: S120410.D
 Lab Smp Id: MANG51AA GOK30000-3
 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;0334389;8270F.M

Calibration Date: 04-DEC-2010
 Calibration Time: 10:36
 Client Smp ID: 0334389
 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	111249	-9.28
2 Naphthalene-d8	530514	265257	1061028	462027	-12.91
3 Acenaphthene-d10	282538	141269	565076	251894	-10.85
4 Phenanthrene-d10	462722	231361	925444	419551	-9.33
5 Chrysene-d12	435850	217925	871700	413584	-5.11
6 Perylene-d12	422284	211142	844568	426529	1.01

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: MANG51AA GOK30000-3 Client Smp ID: 0334389
 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;0334389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	63.02	63.02	41-105
\$ 8 Phenol-d5	100.0	70.39	70.39	43-122
\$ 10 1,2-Dichlorobenzen	50.00	29.07	58.14*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.58	69.16	46-118
\$ 12 2-Fluorobiphenyl	50.00	36.44	72.87	58-105
\$ 13 2,4,6-Tribromophen	100.0	100.9	100.87	61-118
\$ 14 Terphenyl-d14	50.00	46.26	92.52	69-110

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\120410.B\S120410.D
 Lab Smp Id: MANG51AA GOK30000-3 Client Smp ID: 0334389
 Inj Date : 04-DEC-2010 14:41
 Operator : KT Inst ID: sv5.i
 Smp Info : MANG51AA GOK30000-389B;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0334389;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: 8
 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	MASS	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)	111249	40.0000	(Q)
* 2 Naphthalene-d8		136	4.952	4.952	(1.000)	462027	40.0000	
* 3 Acenaphthene-d10		164	7.045	7.045	(1.000)	251894	40.0000	
* 4 Phenanthrene-d10		188	8.900	8.900	(1.000)	419551	40.0000	
* 5 Chrysene-d12		240	13.180	13.190	(1.000)	413584	40.0000	
* 6 Perylene-d12		264	15.543	15.543	(1.000)	426529	40.0000	
\$ 7 2-Fluorophenol		112	2.340	2.340	(0.661)	247104	63.0157	63.02
\$ 8 Phenol-d5		99	3.231	3.231	(0.912)	347094	70.3901	70.39
\$ 10 1,2-Dichlorobenzene-d4		152	3.739	3.739	(1.056)	79651	29.0712	29.07 (qR)
\$ 11 Nitrobenzene-d5		82	4.164	4.174	(0.841)	135320	34.5795	34.58
\$ 12 2-Fluorobiphenyl		172	6.257	6.257	(0.888)	295662	36.4372	36.44
\$ 13 2,4,6-Tribromophenol		330	8.019	8.019	(1.138)	110415	100.875	100.9
\$ 14 Terphenyl-d14		244	11.460	11.460	(0.869)	376860	46.2603	46.26
108 Hexachlorobenzene		284	Compound Not Detected.					

QC Flag Legend

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

Data File: \\SVS\chem\sv5.1\120410.B\SI20410.D
Date: 04-DEC-2010 14:41

Client ID: 0334389

Sample Info: HANGSI1AA GOK30000-389B;0;11000;11000;5

Volume Injected (uL): 1.0

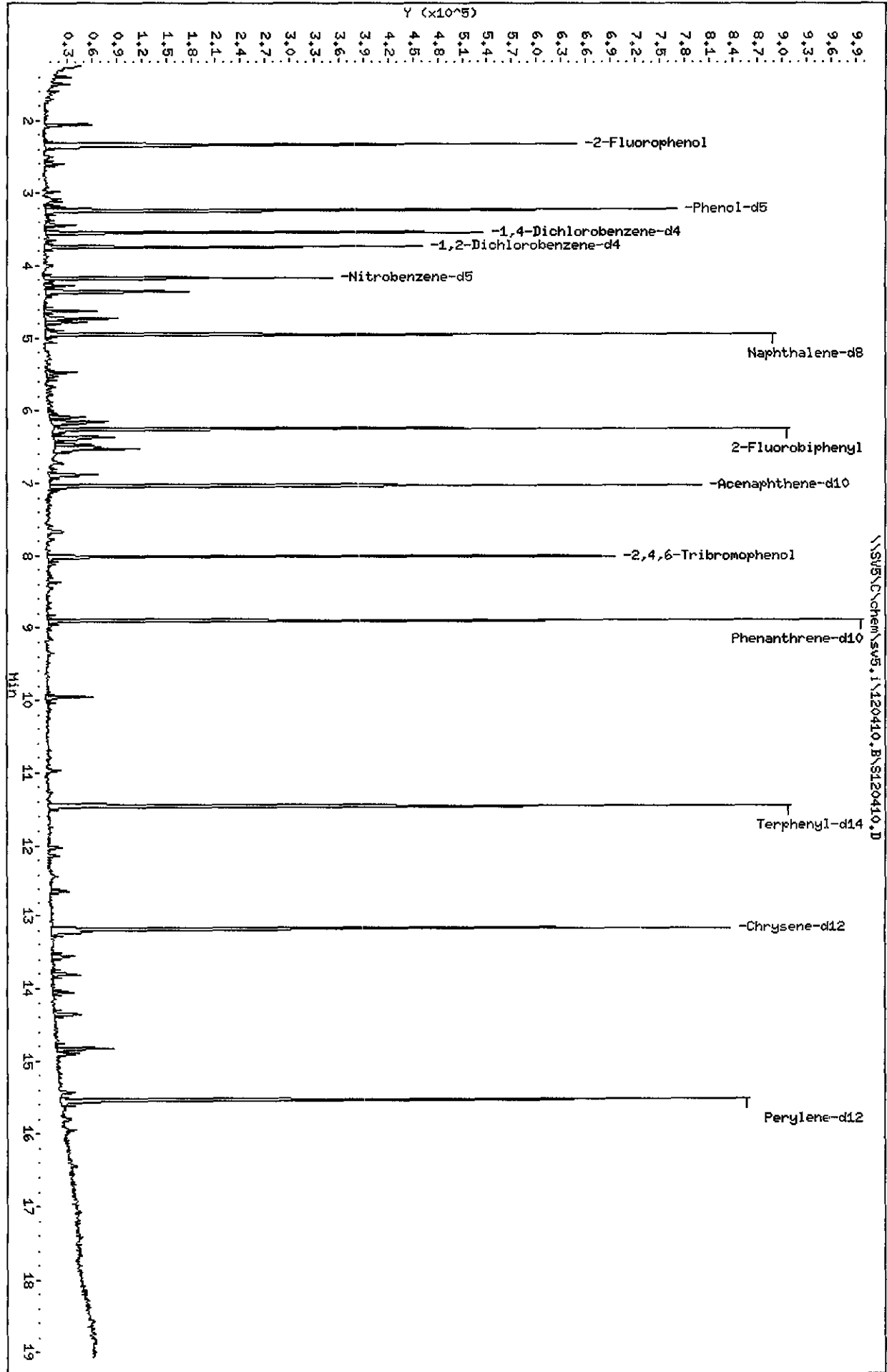
Column Phase:

Instrument: sv5.1

Operator: KT

Column diameter: 2.00

\\SVS\chem\sv5.1\120410.B\SI20410.D



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120411.D
 Lab Smp Id: MANG51AC GOK30000-3
 Inj Date : 04-DEC-2010 15:05
 Operator : KT Inst ID: sv5.i
 Smp Info : MANG51AC GOK30000-389C;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: 9 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	MASS	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)	138012	40.0000		
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	611787	40.0000		
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	327932	40.0000		
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	544079	40.0000		
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	533027	40.0000		
* 6 Perylene-d12	264		15.543	15.543	(1.000)	541754	40.0000		
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	374216	76.9256	76.92	
\$ 8 Phenol-d5	99		3.242	3.231	(0.915)	524160	85.6856	85.68	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82		4.174	4.174	(0.843)	221480	42.7423	42.74	
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	473122	44.7875	44.79	
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	155191	108.907	108.9	
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	476301	45.3654	45.36	
108 Hexachlorobenzene	284		8.496	8.496	(0.955)	290305	97.8735	97.87	

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TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S120411.D
 Lab Smp Id: MANG51AC G0K30000-3
 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	138012	12.55
2 Naphthalene-d8	530514	265257	1061028	611787	15.32
3 Acenaphthene-d10	282538	141269	565076	327932	16.07
4 Phenanthrene-d10	462722	231361	925444	544079	17.58
5 Chrysene-d12	435850	217925	871700	533027	22.30
6 Perylene-d12	422284	211142	844568	541754	28.29

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: MANG51AC G0K30000-3
 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	97.87	97.87	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	76.92	76.93	41-105
\$ 8 Phenol-d5	100.0	85.68	85.69	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.74	85.48	46-118
\$ 12 2-Fluorobiphenyl	50.00	44.79	89.58	58-105
\$ 13 2,4,6-Tribromophen	100.0	108.9	108.91	61-118
\$ 14 Terphenyl-d14	50.00	45.36	90.73	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\S120411.D
 Lab Smp Id: MANG51AC GOK30000-3
 Inj Date : 04-DEC-2010 15:05
 Operator : KT
 Smp Info : MANG51AC GOK30000-389C;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
 Cal Date : 17-AUG-2010 21:19
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.14
 Processing Host: SV5

Inst ID: sv5.i
 Quant Type: ISTD
 Cal File: AP90817D.D
 QC Sample: LCS
 Compound Sublist: S11JZHCB.SUB

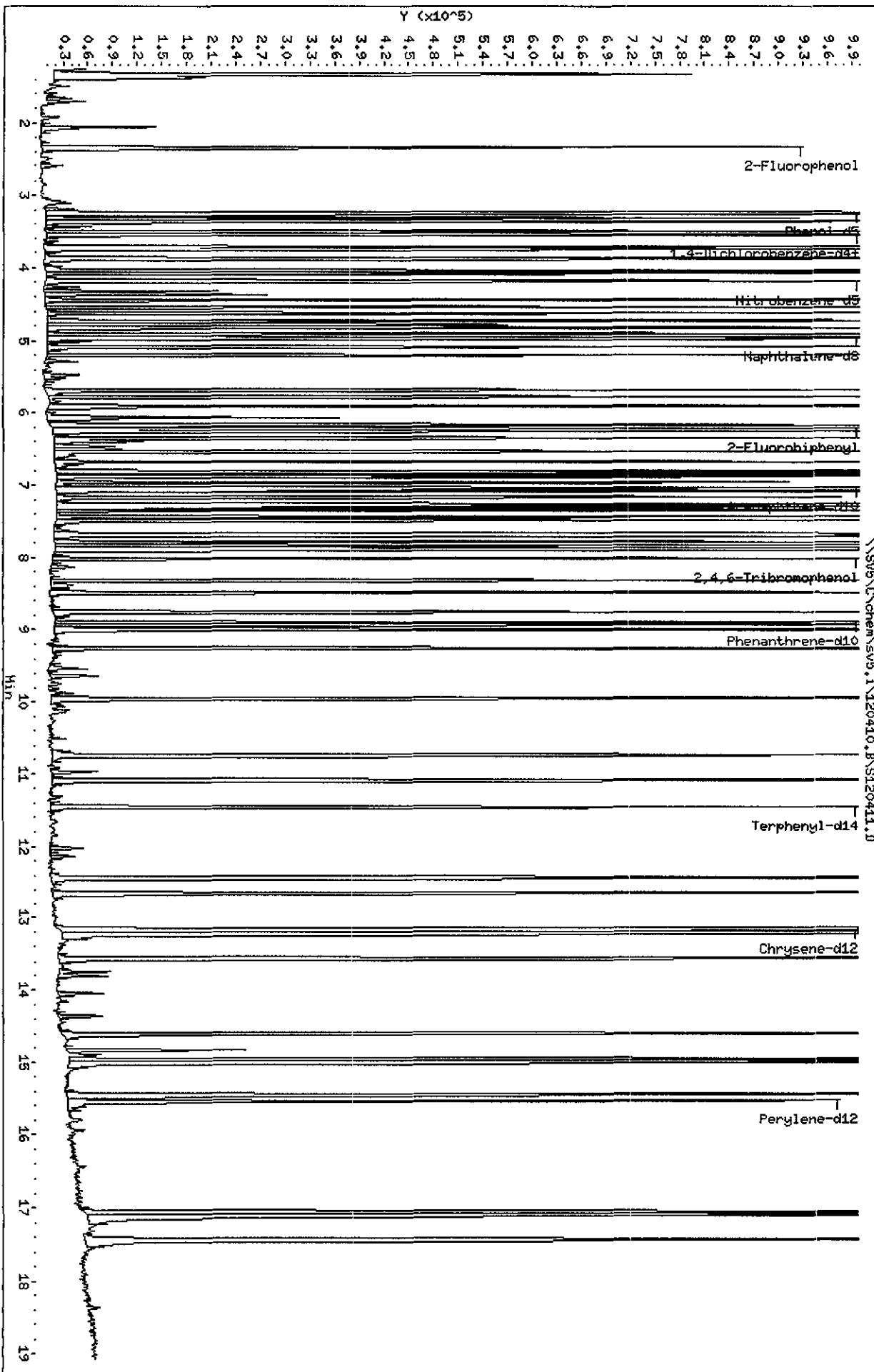
Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

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	REL RT		RESPONSE	(NG)	FINAL
	MASS		RT	EXP RT	REL RT	RESPONSE	(NG)	(ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.542	3.542	(1.000)	138012	40.0000	
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	611787	40.0000	
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	327932	40.0000	
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	544079	40.0000	
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	533027	40.0000	
* 6 Perylene-d12	264		15.543	15.543	(1.000)	541754	40.0000	
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	374216	76.9256	76.92
\$ 8 Phenol-d5	99		3.242	3.231	(0.915)	524160	85.6856	85.68
\$ 10 1,2-Dichlorobenzene-d4	152		3.542	3.739	(1.000)	138011	40.6036	40.60 (qR)
\$ 11 Nitrobenzene-d5	82		4.174	4.174	(0.843)	221480	42.7423	42.74
\$ 12 2-Fluorobiphenyl	172		6.257	6.257	(0.888)	473122	44.7875	44.79
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	155191	108.907	108.9
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	476301	45.3654	45.36
108 Hexachlorobenzene	284		8.496	8.496	(0.955)	290305	97.8735	97.87

QC Flag Legend

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



Date : 04-DEC-2010 15:05

Client ID:

Instrument: sv5.i

Sample Info: MANG51AC GOK30000-389C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

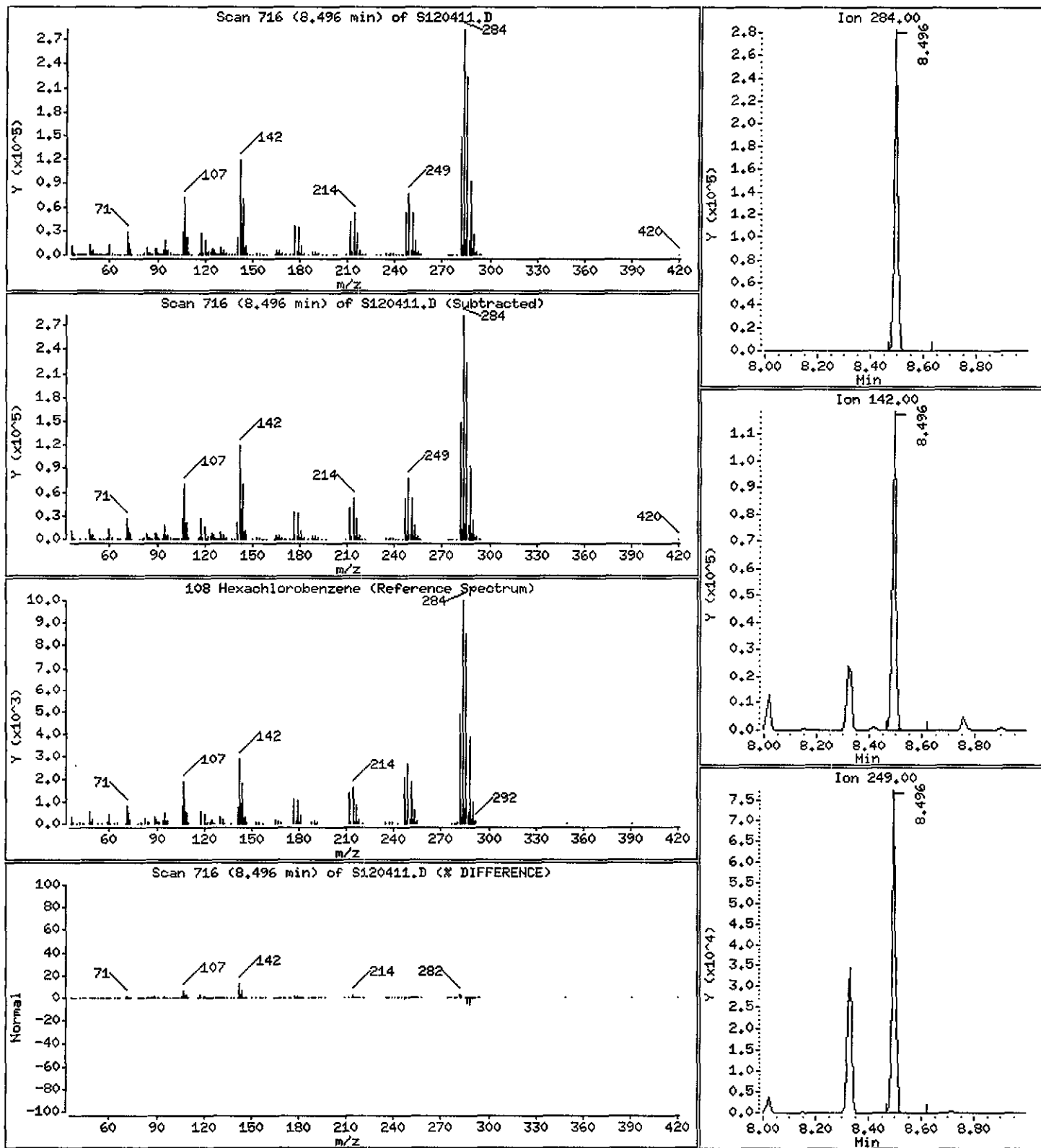
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 97.87 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120412.D
 Lab Smp Id: MANG51AD G0K30000-3
 Inj Date : 04-DEC-2010 15:30
 Operator : KT Inst ID: sv5.i
 Smp Info : MANG51AD G0K30000-389L;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: 10 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	MASS	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)	102167	40.0000		
* 2 Naphthalene-d8	136		4.952	4.952	(1.000)	426724	40.0000		
* 3 Acenaphthene-d10	164		7.045	7.045	(1.000)	224321	40.0000		
* 4 Phenanthrene-d10	188		8.900	8.900	(1.000)	371643	40.0000		
* 5 Chrysene-d12	240		13.190	13.190	(1.000)	361730	40.0000		
* 6 Perylene-d12	264		15.543	15.543	(1.000)	380694	40.0000		
\$ 7 2-Fluorophenol	112		2.340	2.340	(0.661)	265284	73.6658	73.66	
\$ 8 Phenol-d5	99		3.232	3.231	(0.912)	359457	79.3775	79.38	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82		4.175	4.174	(0.843)	151463	41.9067	41.91	
\$ 12 2-Fluorobiphenyl	172		6.258	6.257	(0.888)	329965	45.6631	45.66	
\$ 13 2,4,6-Tribromophenol	330		8.019	8.019	(1.138)	109539	112.376	112.4	
\$ 14 Terphenyl-d14	244		11.460	11.460	(0.869)	320482	44.9792	44.98	
108 Hexachlorobenzene	284		8.496	8.496	(0.955)	196593	97.0319	97.03	

Handwritten signature and date:
 12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S120412.D
 Lab Smp Id: MANG51AD GOK30000-3
 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	102167	-16.68
2 Naphthalene-d8	530514	265257	1061028	426724	-19.56
3 Acenaphthene-d10	282538	141269	565076	224321	-20.61
4 Phenanthrene-d10	462722	231361	925444	371643	-19.68
5 Chrysene-d12	435850	217925	871700	361730	-17.01
6 Perylene-d12	422284	211142	844568	380694	-9.85

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: MANG51AD G0K30000-3
 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	97.03	97.03	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	73.66	73.67	41-105
\$ 8 Phenol-d5	100.0	79.38	79.38	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	41.91	83.81	46-118
\$ 12 2-Fluorobiphenyl	50.00	45.66	91.33	58-105
\$ 13 2,4,6-Tribromophen	100.0	112.4	112.38	61-118
\$ 14 Terphenyl-d14	50.00	44.98	89.96	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120410.B\S120412.D
 Lab Smp Id: MANG51AD G0K30000-3
 Inj Date : 04-DEC-2010 15:30
 Operator : KT
 Smp Info : MANG51AD G0K30000-389L;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
 Cal Date : 17-AUG-2010 21:19
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.14
 Processing Host: SV5

Inst ID: sv5.i
 Quant Type: ISTD
 Cal File: AP90817D.D
 QC Sample: LCSD
 Compound Sublist: S11JZHCB.SUB

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

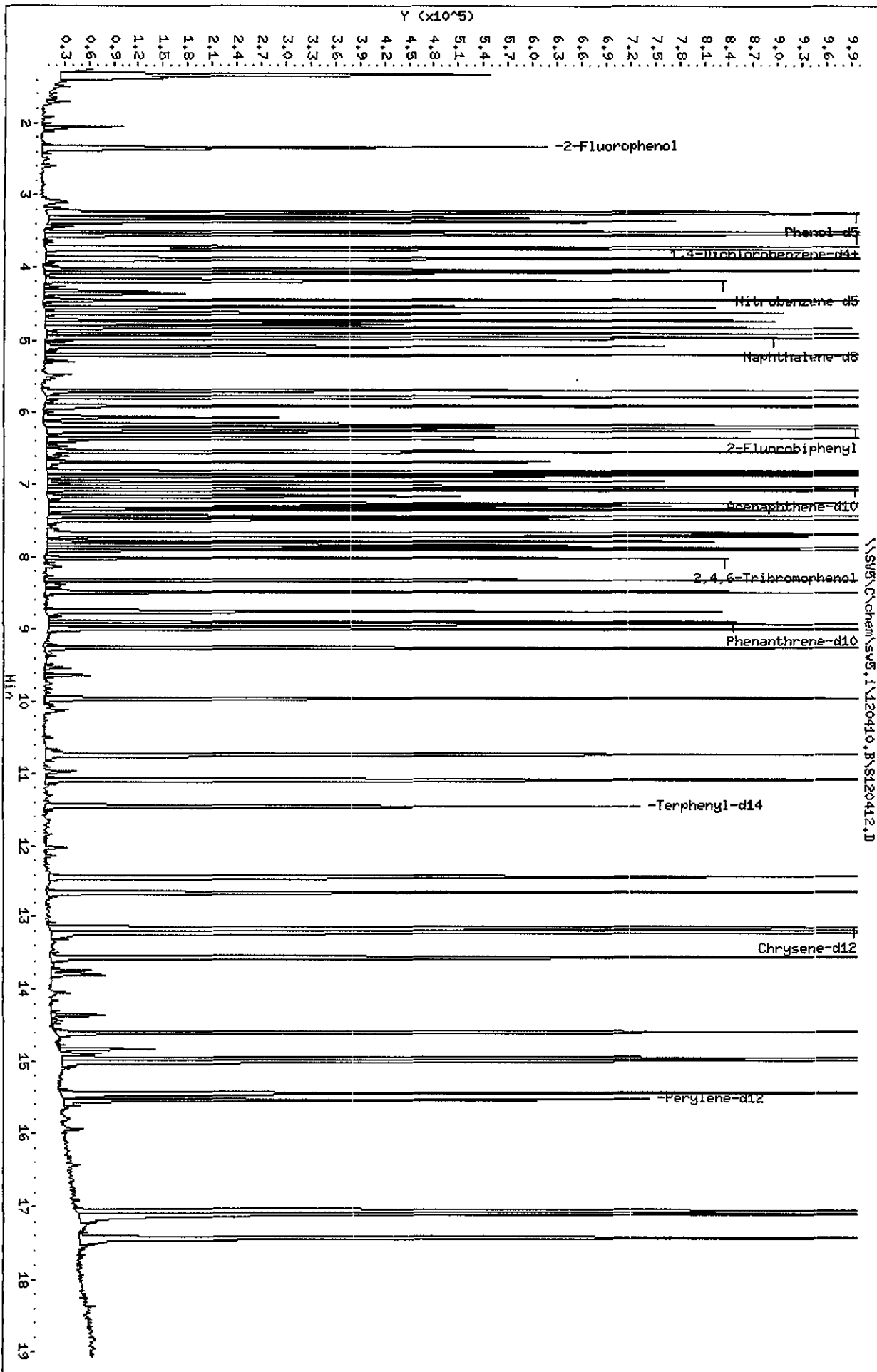
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	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)	102167	40.0000	
* 2 Naphthalene-d8		136	4.952	4.952	(1.000)	426724	40.0000	
* 3 Acenaphthene-d10		164	7.045	7.045	(1.000)	224321	40.0000	
* 4 Phenanthrene-d10		188	8.900	8.900	(1.000)	371643	40.0000	
* 5 Chrysene-d12		240	13.190	13.190	(1.000)	361730	40.0000	
* 6 Perylene-d12		264	15.543	15.543	(1.000)	380694	40.0000	
\$ 7 2-Fluorophenol		112	2.340	2.340	(0.661)	265284	73.6658	73.66
\$ 8 Phenol-d5		99	3.232	3.231	(0.912)	359457	79.3775	79.38
\$ 10 1,2-Dichlorobenzene-d4		152	3.542	3.739	(1.000)	102167	40.6039	40.60 (qR)
\$ 11 Nitrobenzene-d5		82	4.175	4.174	(0.843)	151463	41.9067	41.91
\$ 12 2-Fluorobiphenyl		172	6.258	6.257	(0.888)	329965	45.6631	45.66
\$ 13 2,4,6-Tribromophenol		330	8.019	8.019	(1.138)	109539	112.376	112.4
\$ 14 Terphenyl-d14		244	11.460	11.460	(0.869)	320482	44.9792	44.98
108 Hexachlorobenzene		284	8.496	8.496	(0.955)	196593	97.0319	97.03

QC Flag Legend

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

\\SV5\C\chem\sv5.1\120410.B\S120412.D



Date : 04-DEC-2010 15:30

Client ID:

Instrument: sv5.i

Sample Info: MANG51AD GOK30000-389L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

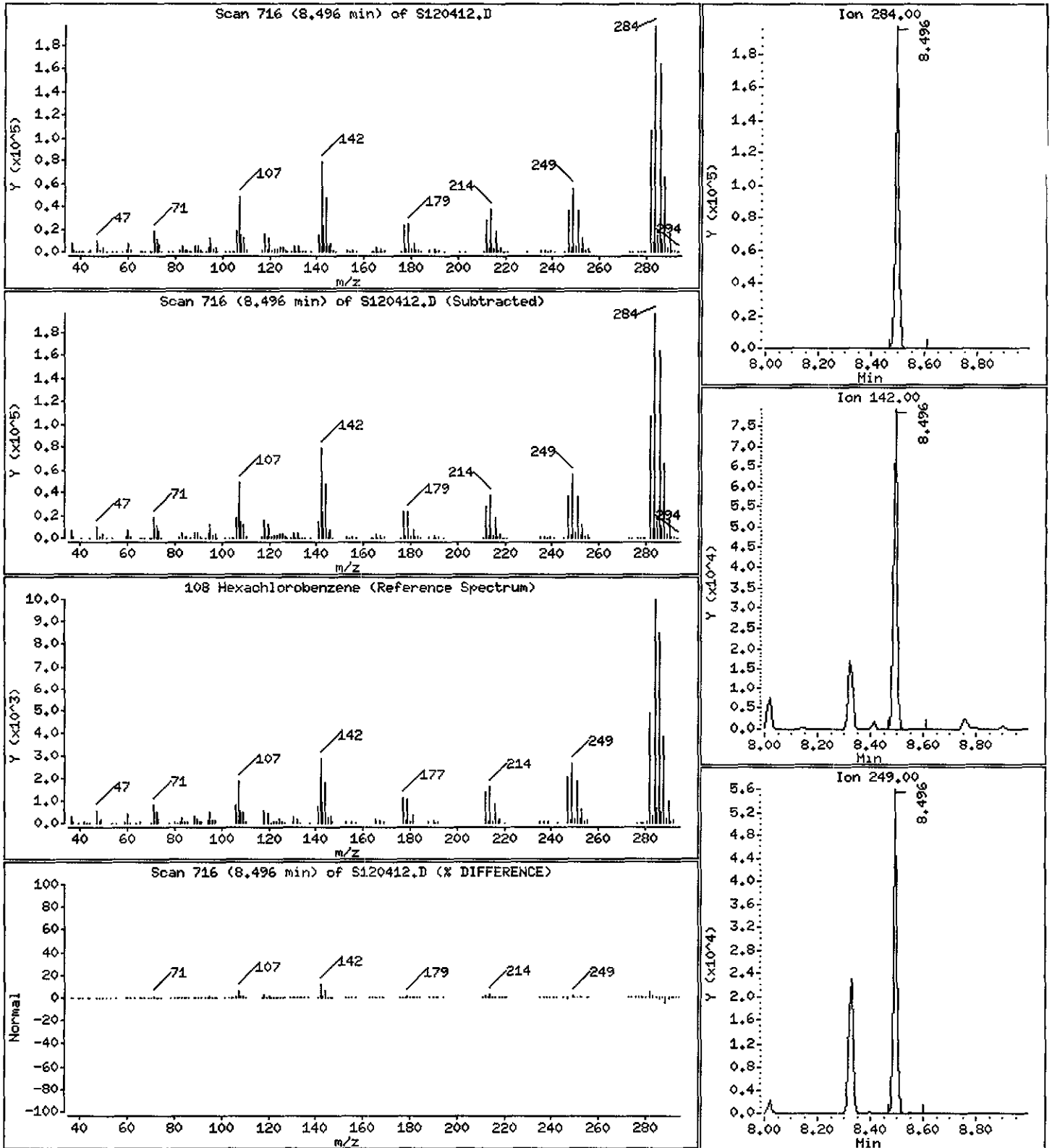
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 97.03 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120413.D
 Lab Smp Id: MAMLW1AA G0K300434- Client Smp ID: 0334389
 Inj Date : 04-DEC-2010 15:54
 Operator : KT Inst ID: sv5.i
 Smp Info : MAMLW1AA G0K300434-1;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0334389;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: 11
 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)		109565	40.0000	(Q)
* 2 Naphthalene-d8	136	4.952	4.952 (1.000)		493823	40.0000	
* 3 Acenaphthene-d10	164	7.035	7.045 (1.000)		272801	40.0000	
* 4 Phenanthrene-d10	188	8.900	8.900 (1.000)		465265	40.0000	
* 5 Chrysene-d12	240	13.180	13.190 (1.000)		455506	40.0000	
* 6 Perylene-d12	264	15.543	15.543 (1.000)		467119	40.0000	
\$ 7 2-Fluorophenol	112	2.340	2.340 (0.661)		282871	73.2457	73.24
\$ 8 Phenol-d5	99	3.231	3.231 (0.912)		412940	85.0307	85.03
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739 (1.056)		95342	35.3330	35.33 (q)
\$ 11 Nitrobenzene-d5	82	4.164	4.174 (0.841)		170096	40.6674	40.67
\$ 12 2-Fluorobiphenyl	172	6.257	6.257 (0.890)		375233	42.6995	42.70
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019 (1.140)		126090	106.367	106.4
\$ 14 Terphenyl-d14	244	11.460	11.460 (0.869)		412314	45.9543	45.95
108 Hexachlorobenzene	284		Compound Not Detected.				

QC Flag Legend

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

Handwritten: 12/6/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S120413.D
 Lab Smp Id: MAMLW1AA G0K300434-
 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;0334389;8270F.M

Calibration Date: 04-DEC-2010
 Calibration Time: 10:36
 Client Smp ID: 0334389
 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	109565	-10.65
2 Naphthalene-d8	530514	265257	1061028	493823	-6.92
3 Acenaphthene-d10	282538	141269	565076	272801	-3.45
4 Phenanthrene-d10	462722	231361	925444	465265	0.55
5 Chrysene-d12	435850	217925	871700	455506	4.51
6 Perylene-d12	422284	211142	844568	467119	10.62

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

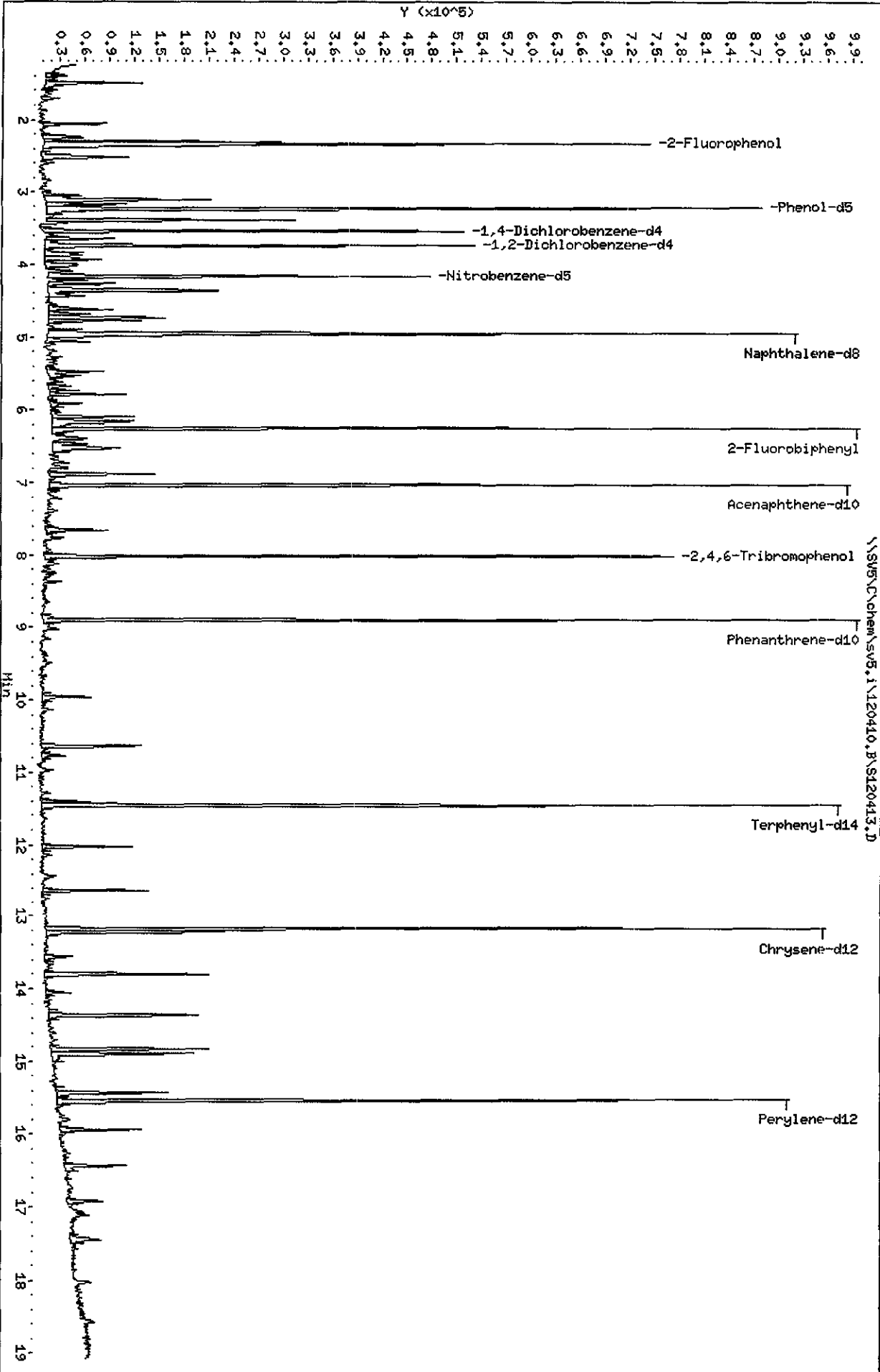
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MAMLW1AA GOK300434- Client Smp ID: 0334389
 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;0334389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	73.24	73.25	41-105
\$ 8 Phenol-d5	100.0	85.03	85.03	43-122
\$ 10 1,2-Dichlorobenzen	50.00	35.33	70.67	60-120
\$ 11 Nitrobenzene-d5	50.00	40.67	81.33	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.70	85.40	58-105
\$ 13 2,4,6-Tribromophen	100.0	106.4	106.37	61-118
\$ 14 Terphenyl-d14	50.00	45.95	91.91	69-110



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\120410.B\S120414.D
 Lab Smp Id: MAML81AA G0K300434- Client Smp ID: 0334389
 Inj Date : 04-DEC-2010 16:19
 Operator : KT Inst ID: sv5.i
 Smp Info : MAML81AA G0K300434-4;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0334389;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: 12
 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)	116477	40.0000	(Q)	
* 2 Naphthalene-d8	136	4.952	4.952	(1.000)	538761	40.0000		
* 3 Acenaphthene-d10	164	7.045	7.045	(1.000)	305666	40.0000		
* 4 Phenanthrene-d10	188	8.900	8.900	(1.000)	516409	40.0000		
* 5 Chrysene-d12	240	13.180	13.190	(1.000)	511761	40.0000		
* 6 Perylene-d12	264	15.543	15.543	(1.000)	540503	40.0000		
\$ 7 2-Fluorophenol	112	2.340	2.340	(0.661)	263497	64.1802	64.18	
\$ 8 Phenol-d5	99	3.231	3.231	(0.912)	413699	80.1319	80.13	
\$ 10 1,2-Dichlorobenzene-d4	152	3.739	3.739	(1.056)	97568	34.0122	34.01(q)	
\$ 11 Nitrobenzene-d5	82	4.164	4.174	(0.841)	167413	36.6874	36.69	
\$ 12 2-Fluorobiphenyl	172	6.257	6.257	(0.888)	383099	38.9073	38.91	
\$ 13 2,4,6-Tribromophenol	330	8.019	8.019	(1.138)	141369	106.434	106.4	
\$ 14 Terphenyl-d14	244	11.460	11.460	(0.869)	468250	46.4518	46.45	
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	Calibration Date: 04-DEC-2010
Lab File ID: S120414.D	Calibration Time: 10:36
Lab Smp Id: MAML81AA GOK300434-	Client Smp ID: 0334389
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: KT	
Method File: \\SV5\C\chem\sv5.i\120410.B\8270F.m	
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0334389;8270F.M	

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	116477	-5.01
2 Naphthalene-d8	530514	265257	1061028	538761	1.55
3 Acenaphthene-d10	282538	141269	565076	305666	8.19
4 Phenanthrene-d10	462722	231361	925444	516409	11.60
5 Chrysene-d12	435850	217925	871700	511761	17.42
6 Perylene-d12	422284	211142	844568	540503	28.00

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: MAML81AA GOK300434- Client Smp ID: 0334389
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;0334389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	64.18	64.18	41-105
\$ 8 Phenol-d5	100.0	80.13	80.13	43-122
\$ 10 1,2-Dichlorobenzen	50.00	34.01	68.02	60-120
\$ 11 Nitrobenzene-d5	50.00	36.69	73.37	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.91	77.81	58-105
\$ 13 2,4,6-Tribromophen	100.0	106.4	106.43	61-118
\$ 14 Terphenyl-d14	50.00	46.45	92.90	69-110

Data File: \\SV5\C\chem\sv5.1\120410.B\SI20414.D

Date : 04-DEC-2010 16:19

Client ID: 0334389

Sample Info: H4HL8194 GOK300434-4;0;11000;11000;5

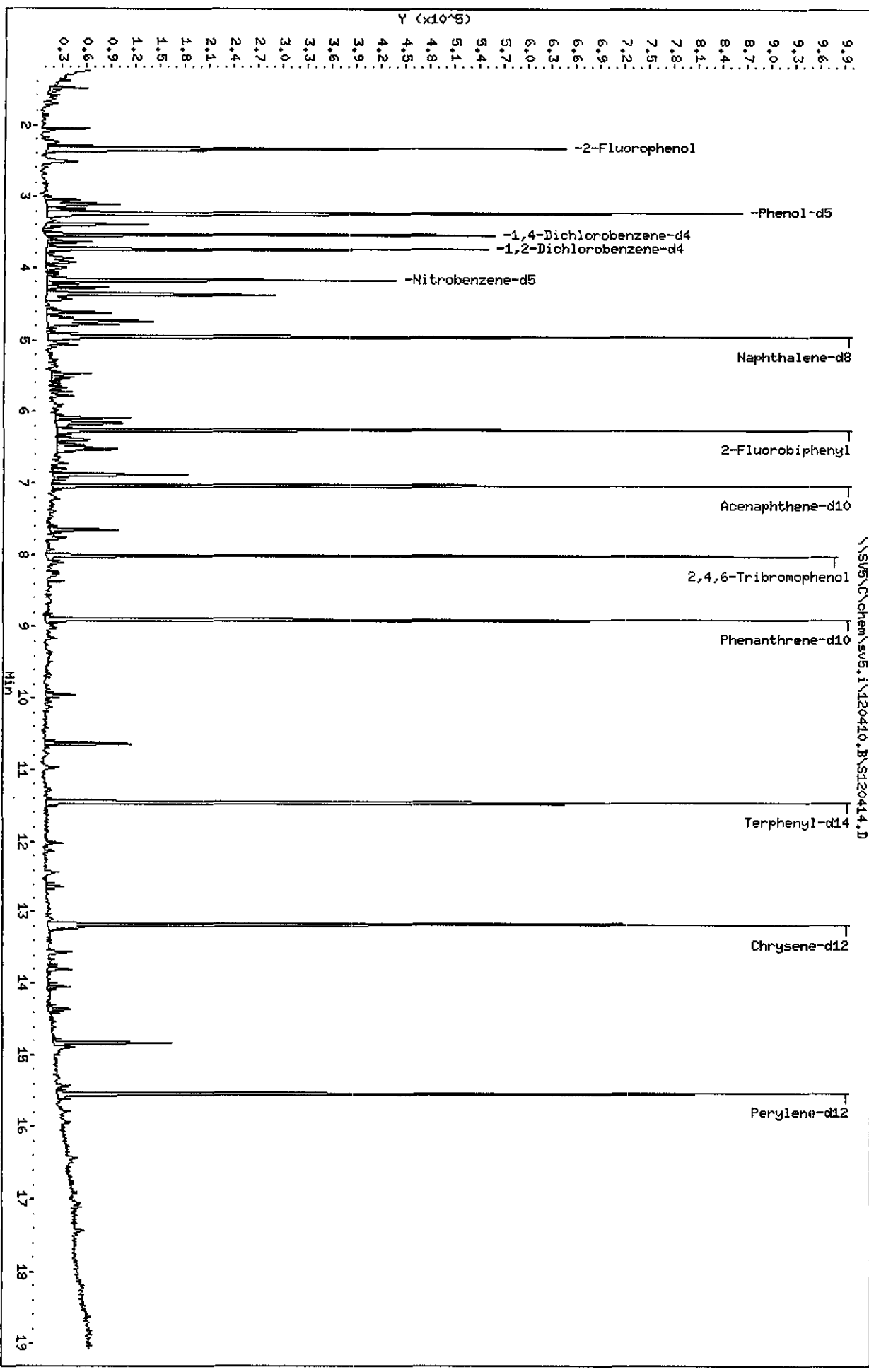
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.1

Operator: KT

Column diameter: 2.00



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

2nd Source Mix ID: 10MSSV0314, 342

Reviewer/Date: *D. J. Z. 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 < ± (1/2 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

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	Coefficients							Curve	h	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	ml			m2		
26 Bis(2-chloroethyl) ether	1.47335 Level 7	1.38282	1.39491	1.43824	1.42649	1.44300	AVRG			1.42859		2.17028
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074	AVRG			1.56381		1.32806
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299	AVRG			1.70337		1.29370
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288	AVRG			1.78118		1.35229
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952	AVRG			1.05101		3.69696
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415	AVRG			1.63746		1.45884
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45566	1.46154	AVRG			1.43012		2.50558

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	Level							Curve	Coefficient#		%RSD of 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	m2	
33 2,2'-oxybis(1-Chloropropane)	2.29502 2.28770	2.22080	2.28329	2.27528	2.27018	2.27830	AVRG	2.27365			1.08468
34 4-Methylphenol	1.48606 1.58763	1.48913	1.46270	1.52339	1.52653	1.55886	AVRG	1.51904			2.88378
36 Hexachloroethane	0.60928 0.60919	0.60036	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	1.03637	AVRG	1.01180			3.92615
42 Nitrobenzene	0.32855 0.33901	0.32602	0.32843	0.33083	0.33379	0.33450	AVRG	0.33116			1.48904
44 Isophorone	0.63431 0.65411	0.62291	0.61160	0.63344	0.63648	0.66468	AVRG	0.63679			2.81109
48 2-Nitrophenol	0.18608 0.20808	0.18833	0.18840	0.20021	0.20023	0.20702	AVRG	0.19648			6.42274

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : 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	Level							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	mZ		
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	0.38500	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			3.39345	
50 Benzoic Acid	0.16747 0.22180	0.16286	0.17423	0.19357	0.21024	0.22272	AVRG	0.19324			13.25202	
51 1,2,4-Trichlorobenzene	0.29430 0.29091	0.28827	0.28475	0.29747	0.29189	0.29959	AVRG	0.29246			1.75989	
52 Naphthalene	1.09939 1.10247	1.12452	1.07435	1.09325	1.09870	1.13821	AVRG	1.10443			1.89960	
54 4-Chloroaniline	0.40751 0.43867	0.42534	0.43264	0.43910	0.43781	0.44905	AVRG	0.43288			3.06843	

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.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onlshlm

Compound	5.0000							10.0000							20.0000							50.0000							90.0000							120.0000							Curve	b	Coefficients ml	R2	BRSD or R^2
	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												
57 Hexachlorobutadiene	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14313	1.58904										
60 4-Chloro-3-Methylphenol	0.29229	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.29229	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.29229	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.29229	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.29229	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.30164	3.64422										
63 2-Methylnaphthalene	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG	0.69378	1.79740																	
66 Hexachlorocyclopentadiene	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG	0.29846	7.64489																	
69 2,4,6-Trichlorophenol	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG	0.31913	5.15654																	
70 2,4,5-Trichlorophenol	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG	0.34380	5.80662																	
71 2-Chloronaphthalene	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG	1.12571	2.05054																	

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

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	RMSD or R^2
73 2-Nitroaniline	150.0000 Level 7	0.31576 0.31759	0.33397	0.35205	0.34821	0.35794	AVRG		0.34119		5.57334
76 Dimethylphthalate	1.23388 1.30237	1.25191	1.29803	1.34569	1.31165	1.32891	AVRG		1.29606		3.09317
77 Acenaphthylene	1.86531 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	0.29690	0.31220	0.31294	0.32140	AVRG		0.30197		5.78579
80 3-Nitroaniline	0.35362 0.39603	0.34622	0.35978	0.40036	0.38674	0.39559	AVRG		0.37691		6.06861
81 Acenaphthene	1.25874 1.25463	1.22468	1.26733	1.27046	1.21141	1.24781	AVRG		1.24787		1.76776
82 2,4-Dinitrophenol	4083 265658	7537	23799	58864	110384	199007	QUAD	0.10620	5.22413	-0.71963	0.99813

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISITD
 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		10.0000		20.0000		50.0000		90.0000		120.0000		Curve	b	Coefficients ml	m2	WRSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12					
83 Dibenzofuran	1.57786 1.71077	1.62124	1.65200	1.69530	1.65117	1.68460	AVRG								1.65612		2.77923
84 4-Nitrophenol	0.12712 0.17404	0.14148	0.15316	0.16076	0.17130	0.16653	AVRG								0.15634		10.90920
85 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42154	0.41035	0.42305	AVRG								0.39633		0.61592
91 Fluorene	1.34667 1.40640	1.33840	1.34292	1.33902	1.38859	1.37835	AVRG								1.37139		2.08597
92 Diethylphthalate	1.22240 1.38087	1.29889	1.31549	1.37912	1.31873	1.37345	AVRG								1.32699		4.31889
93 4-Chlorophenyl-phenyl ether	0.54964 0.57695	0.55917	0.56887	0.59265	0.56708	0.57698	AVRG								0.57019		2.42913
94 4-Nitroaniline	0.33346 0.40492	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
 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			%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		m1	m2		
97 4,6-Dinitro-2-methylphenol	5780 324244	11282	32982	76137	134784	236477	LINE	0.10840	0.15581		0.99840	
98 N-Nitrosodiphenylamine	0.87756 0.61968	0.59736	0.60533	0.60433	0.62172	0.61801	AVRG		0.60628		2.57715	
100 Anobenzene	0.77527 0.77331	0.76965	0.77321	0.79522	0.80064	0.81892	AVRG		0.78660		2.37146	
101 4-Bromophenyl-phenylether	0.18984 0.19815	0.18507	0.19281	0.19931	0.19607	0.20581	AVRG		0.19527		3.48752	
108 Hexachlorobenzene	0.22959 0.21854	0.22054	0.20740	0.21605	0.21731	0.21704	AVRG		0.21807		3.00928	
110 Pentachlorophenol	5849 293184	10551	30451	67882	126397	215360	LINE	0.09815	0.14123		0.99845	
114 Phenanthrene	1.30347 1.26611	1.26007	1.25408	1.24163	1.24375	1.25510	AVRG		1.24074		1.64308	

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	5.0000							10.0000							20.0000							50.0000							80.0000							120.0000							Coefficients ml	b	Curve	RSD of R ²																	
	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																												
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233	0.62653	0.64920	0.99731	1.03245	1.04489	1.06449	1.10931	1.10920	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241	1.12246	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	0.43415	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10931	1.10920	1.10169	0.99731	1.03245	1.04489	1.06449	1.10931	1.10920	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241	1.12246	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	0.43415	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241	1.12246	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241	1.12246	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	0.43415	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836							
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	0.43415	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	0.43415	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836														
141 bis(2-ethylhexyl) phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	0.89354	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836																					
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	1.34838	1.23185	1.35627	1.34433	1.39356	1.47516	1.50770	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836																												
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.81012	0.81077	0.82747	0.99930	0.95373	0.91137	1.02572	0.62653	1.06548	1.08994	0.40189	0.86316	1.37975	0.90549	3.95034	4.08847	2.59426	4.53885	4.34816	6.68055	10.05836																																			

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	Level							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		m1	m2		
145 Benzo (k) Fluoranthene	1.22939 1.10447	1.16528	1.20023	1.09895	1.14223	1.19597	AVRG	1.16236			4.27893	
147 Benzo (a) pyrene	0.90394 0.97185	0.92734	0.90757	0.95977	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	0.84698	0.84057	0.93730	AVRG	0.83029			12.15083	
152 Dibenzo (a,h) anthracene	0.88099 1.00392	0.84384	0.87256	0.92240	0.95990	1.00944	AVRG	0.92756			7.07091	
153 Benzo (g,h,i) perylene	0.96025 1.04026	0.98457	0.97380	0.99974	1.01731	1.05397	AVRG	1.00427			3.45188	
162 benzo b,k Fluoranthene Totals	2.03951 2.13019	1.97605	2.02770	2.09825	2.09596	2.10729	AVRG	2.06785			2.64859	

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	b	Coefficients		m2	RSD or R^2
	Level 1	Level 7	Level 2	Level 3	Level 4	Level 5	Level 6	Level 4	Level 5	Level 6	ml	ml						
7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43635	1.42292	AVRG	1.40992	3.61494									
8 Phenol-d5	1.72227	1.67338	1.74151	1.79006	1.80863	1.83864	AVRG	1.77396	3.52001									
9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967	AVRG	1.55698	2.52388									
10 1,2-Dichlorobenzene-d4	0.95776	0.95111	0.99827	0.98914	0.95513	0.96547	AVRG	0.98513	1.36559									
11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34108	0.33606	0.35127	AVRG	0.33879	2.16217									
12 3-Fluorobiphenyl	1.28459	1.26007	1.27668	1.34206	1.25854	1.29723	AVRG	1.28852	4.22624									
13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17826	0.18501	AVRG	0.17581	7.05187									

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 Method file : \\SV5\C\chem\sv5.i\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	\$RSD or R^2
160.0000 Level 7											
\$ 14 Terphenyl-d14	0.78508 0.80107	0.78516	0.73317	0.80441	0.78047	0.81889	AVRG		0.78789		3.21384

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INITIAL CALIBRATION DATA

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 Method file : \\SV5\C\chem\sv5.1\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 + ml*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	0.14484735612036
4	7.582	50.00000	58864	7.468	40.000	282538	0.16667209366528
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\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

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	56508	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	55069	7.495	40.000	283828	0.15521794889863
7	7.599	50.000	52896	7.496	40.000	256342	0.16507946415336
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	226613	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	67528	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	0.19220288474631
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	0.06320030080034
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	0.19219899201813
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	68725	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	55663	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_EZ70STD	\\sv5\c\chem\sv5.1\100210.B\BSL1002H

2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\QC001
4	1_8270STD	\\SV5\C\chem\sv5.i\100110.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\092810.B\QC001
9	1_8270STD	\\SV5\C\chem\sv5.i\092810a.B\HSL0928
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\HSL0925
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\HSL0922a
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\HSL0909a	|
| 36|1_8270STD	\\sv5\c\chem\sv5.i\090910.B\HSL0909	|
| 37|1_8270STD	\\sv5\c\chem\sv5.i\090910.B\QC001	|
| 38|1_8270STD	\\sv5\c\chem\sv5.i\090810.B\HSL0908	|
| 39|1_8270STD	\\sv5\c\chem\sv5.i\090810.B\Primer	|
| 40|1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907	|
| 41|1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907	|
| 42|1_8270STD	\\sv5\c\chem\sv5.i\090110.B\HSL0901	|
| 43|1_8270STD	\\sv5\c\chem\sv5.i\083110.B\HSL0831	|
| 44|1_8270STD	\\sv5\c\chem\sv5.i\083010.B\QC001	|
| 45|1_8270STD	\\sv5\c\chem\sv5.i\083010.B\HSL0830	|
| 46|1_8270STD	\\sv5\c\chem\sv5.i\082710.B\QC001	|
| 47|1_8270STD	\\sv5\c\chem\sv5.i\082710.B\HSL0827	|
| 48|1_8270STD	\\sv5\c\chem\sv5.i\082610.B\HSL0826	|
| 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\HSL0825	|
| 52|1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823	|
| 53|1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H	|
| 54|1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D	|
| 55|1_8270STD	\\sv5\c\chem\sv5.i\082310A.B\HSL0823A	|
| 56|1_8270STD	\\sv5\c\chem\sv5.i\082010.B\HSL0820	|
| 57|1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001	|
| 58|1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A	|
| 59|1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818	|
| 60|1_8270STD	\\sv5\c\chem\sv5.i\081710.B\HSL0817D	|
| 61|1_8270STD	\\sv5\c\chem\sv5.i\081710.B\HSL0817H	|

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	0.11736118014704
5	9.240	80.00000	126397	9.406	40.000	477777	0.13227614555562
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\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	9.240	50.000	62906	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	692643	0.12835256742218
4	9.257	50.000	88353	9.423	40.000	569627	0.12408541027725
5	9.267	50.000	65176	9.433	40.000	444572	0.11728313973889
6	9.268	50.000	60910	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	56153	9.444	40.000	367144	0.12235635064171
10	9.278	50.000	49979	9.444	40.000	316244	0.12643148960929
11	9.299	50.000	89278	9.465	40.000	533339	0.13391557714639
12	9.288	50.000	102299	9.454	40.000	604130	0.13546620760432
13	9.299	50.000	74887	9.464	40.000	434948	0.13773968382427
14	9.299	50.000	61171	9.455	40.000	350214	0.13973399121680
15	9.309	50.000	72541	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	0.05285552279428
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	0.14045959905009
24	9.335	50.000	72155	9.501	40.000	446339	0.12932770831140
25	9.355	50.000	91662	9.521	40.000	517550	0.14168602067433
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	0.14010853218506
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	75232	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	9.577	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	0.12781613929590
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	0.13968461632809
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
Avg	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.E\ESL1002E
2	1_8270STD	\\sv5\c\chem\sv5.i\100210.E\HSL1002D

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
33|1_8270STD	\\sv5\c\chem\sv5.i\091010.B\QC001
34 1_8270STD	\\sv5\c\chem\sv5.i\090910a.B\HSL0909a
35 1_8270STD	\\sv5\c\chem\sv5.i\090910.B\HSL0909

36 1_8270STD	\\sv5\C\chem\sv5.i\090910.B\QC001	
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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	|
| 46|1_8270STD	|\\sv5\C\chem\sv5.i\082710.B\HSL0827	|
| 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	|
| 51|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823	|
| 52|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823B	|
| 53|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823D	|
| 54|1_8270STD	|\\sv5\C\chem\sv5.i\082310A.B\HSL0823A	|
| 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

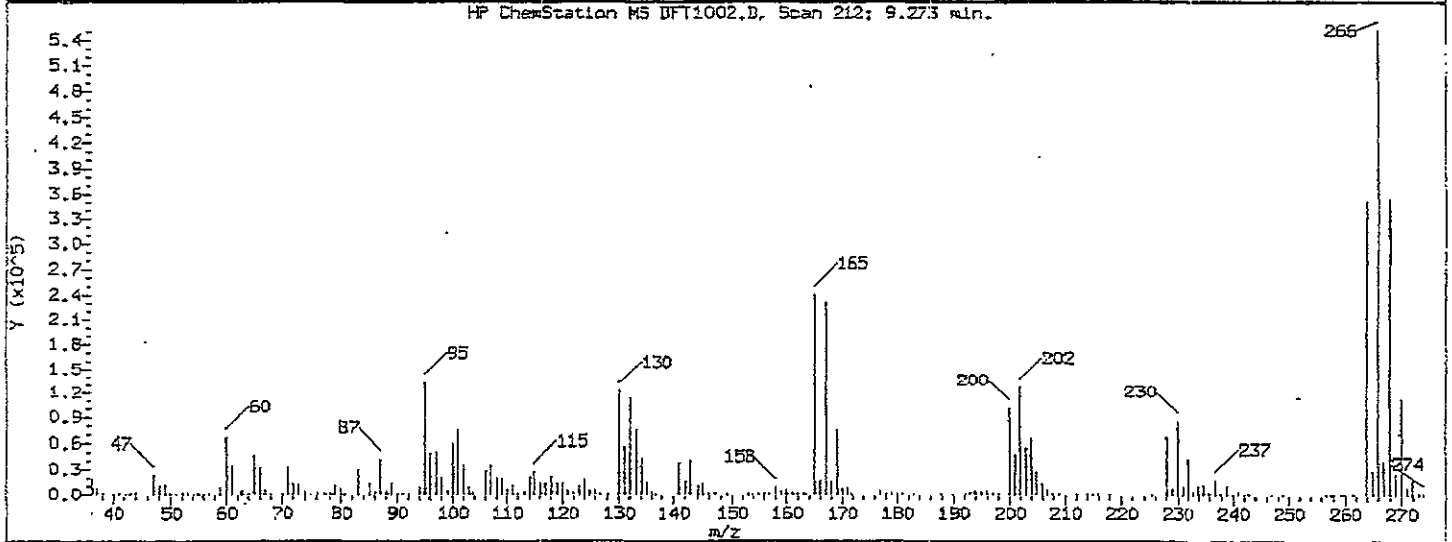
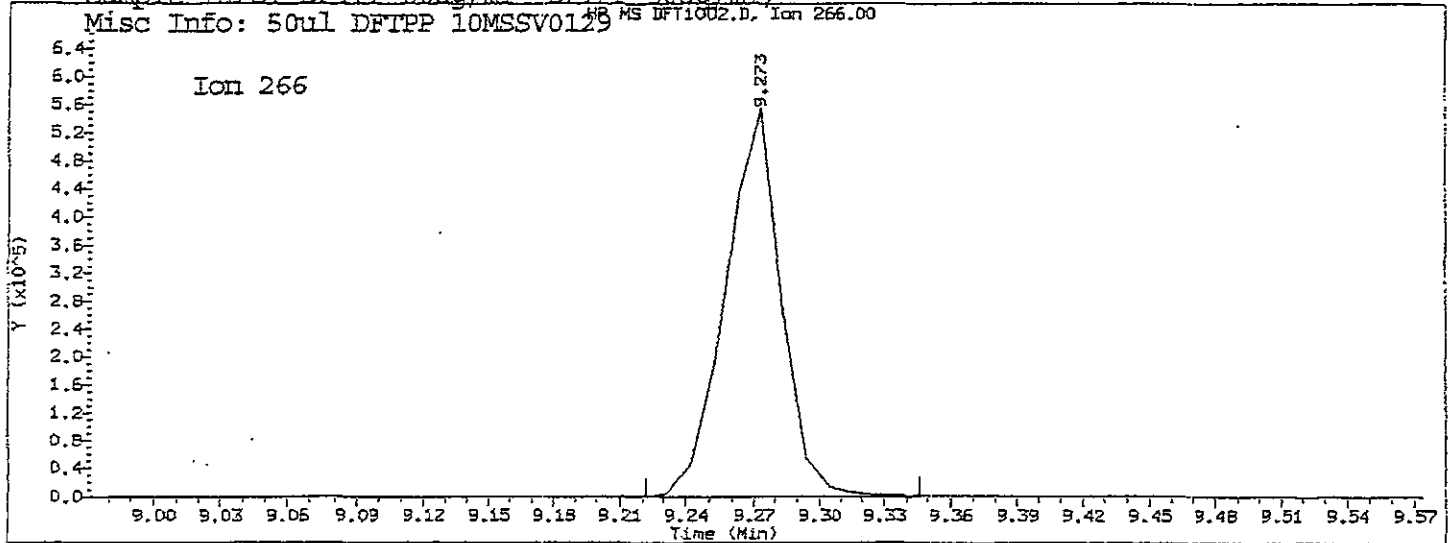
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

 *** 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\DFIIPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: RT
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;
Misc Info: 50ul DFIPP 10MSSV0129



Pentachlorophenol

Exp. RT = 9.387
Found RT = 9.273

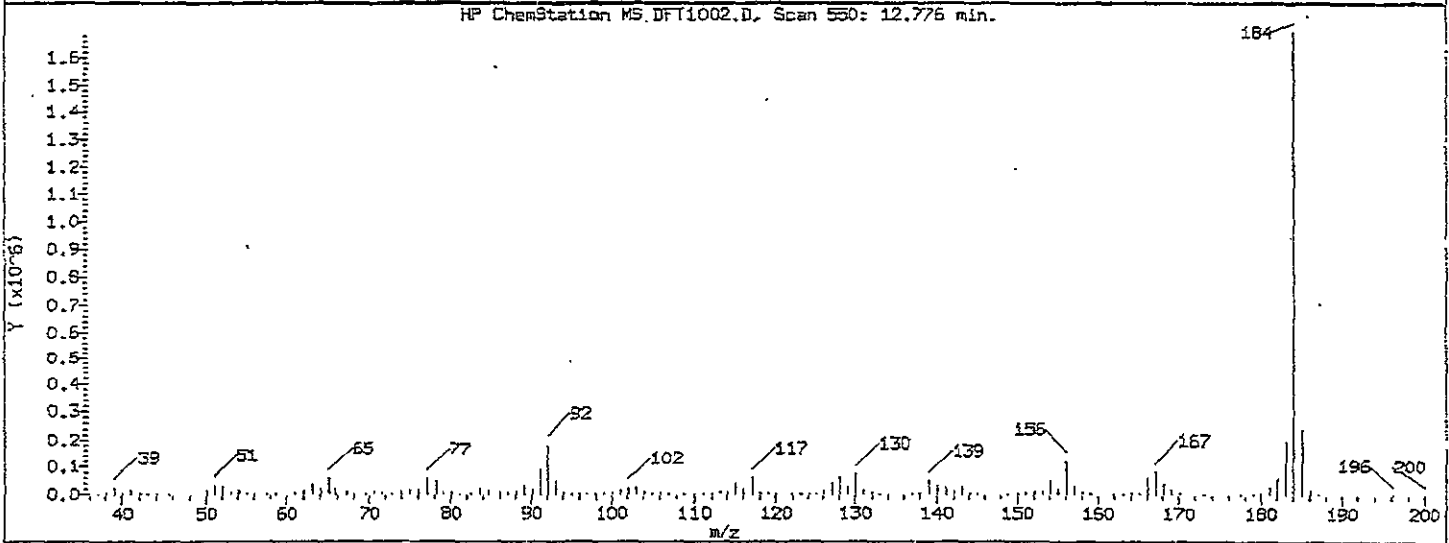
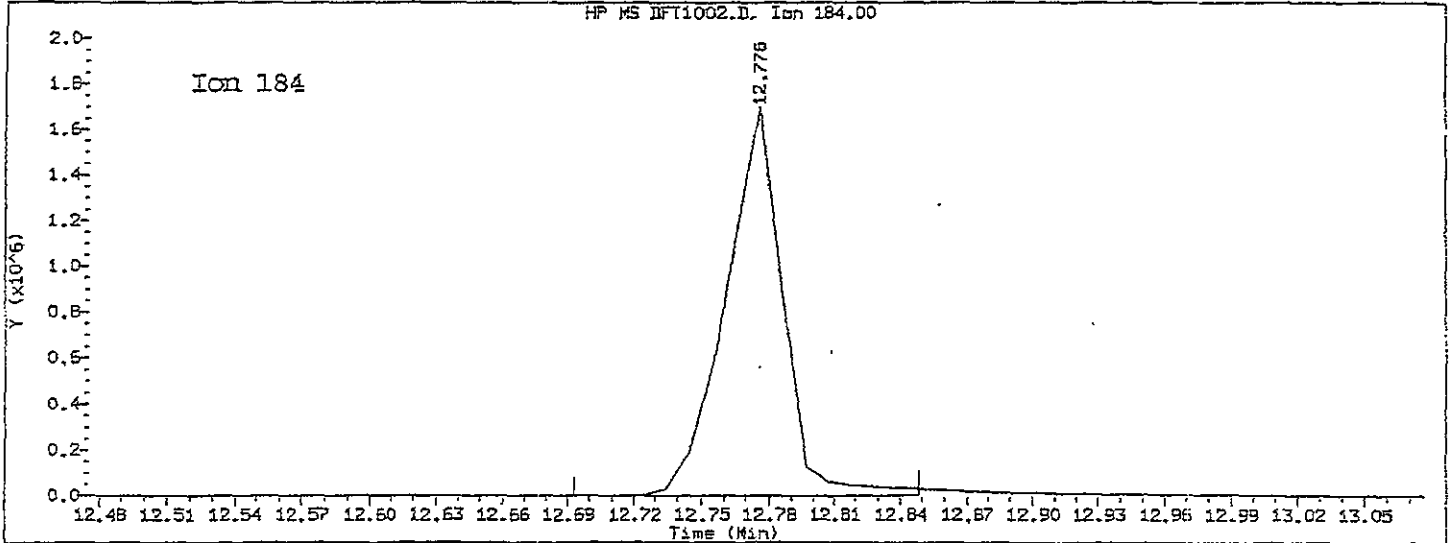
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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\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



Benzidine

=====
Exp. RT = 12.911
Found RT = 12.776

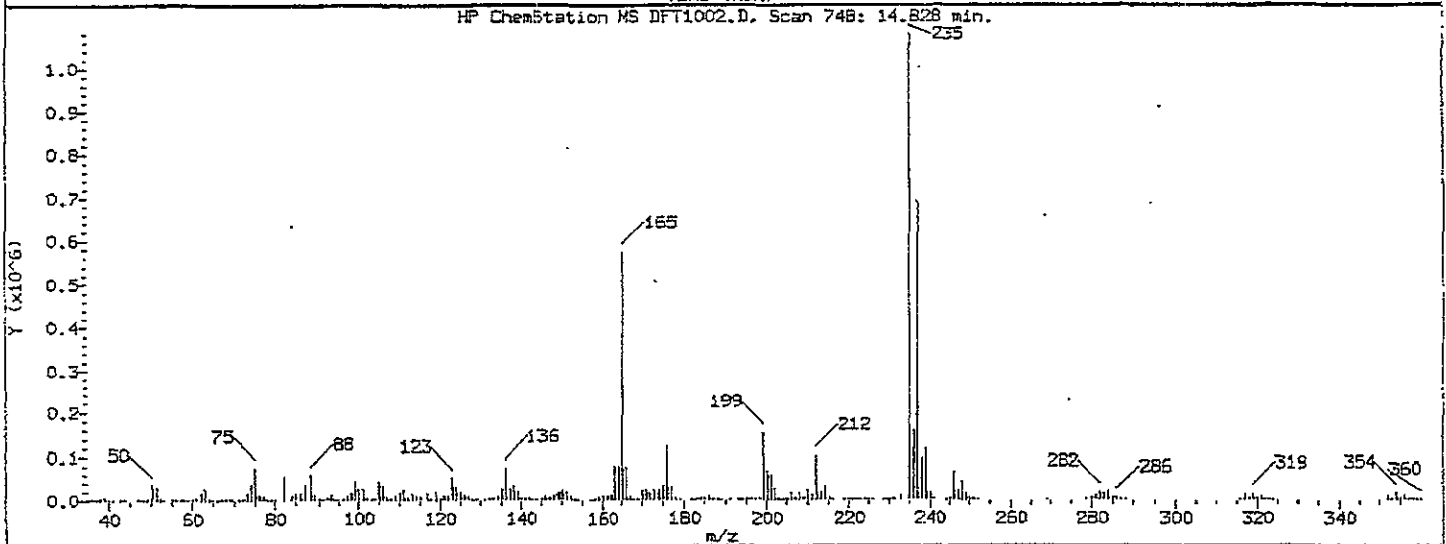
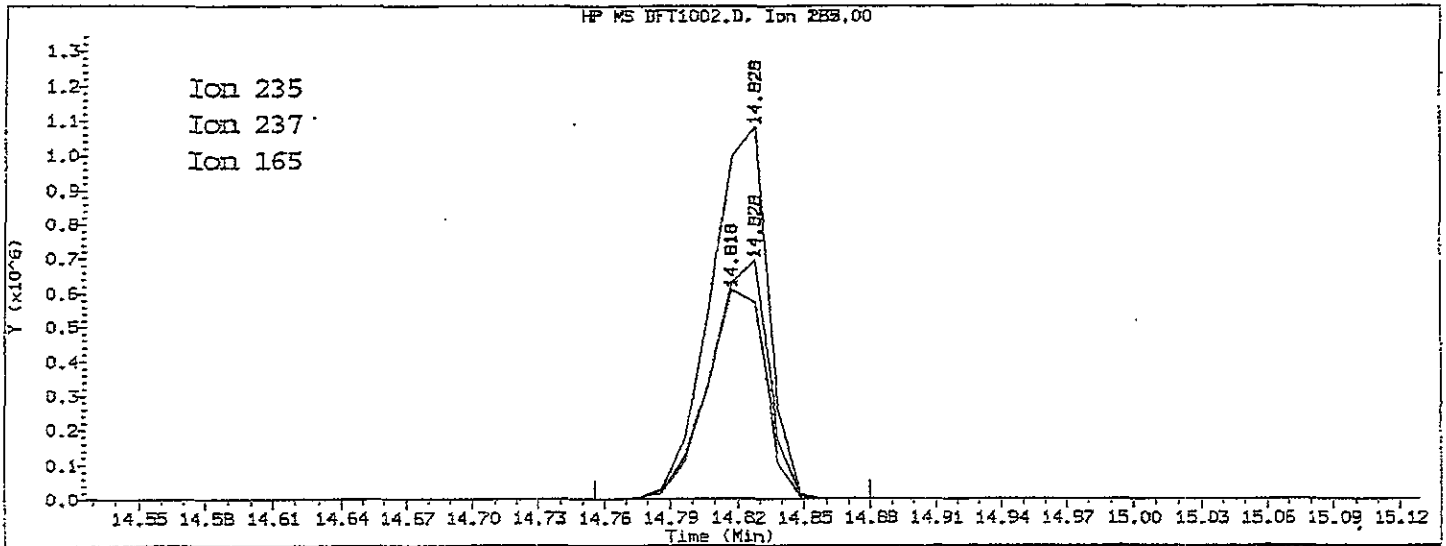
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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\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



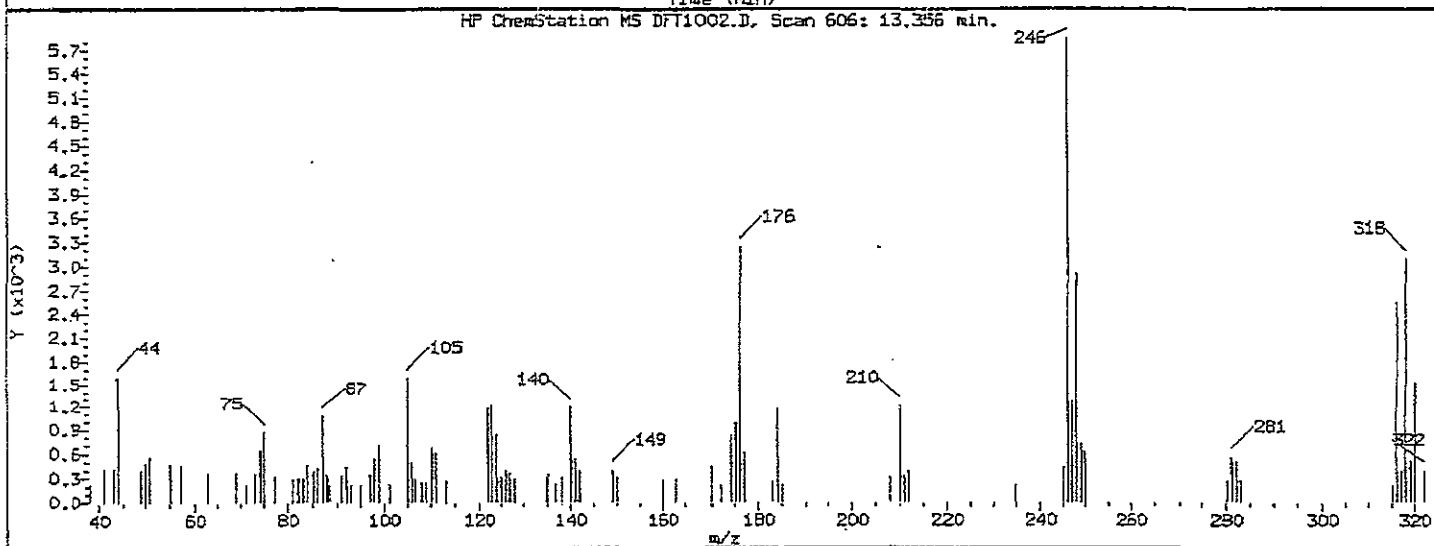
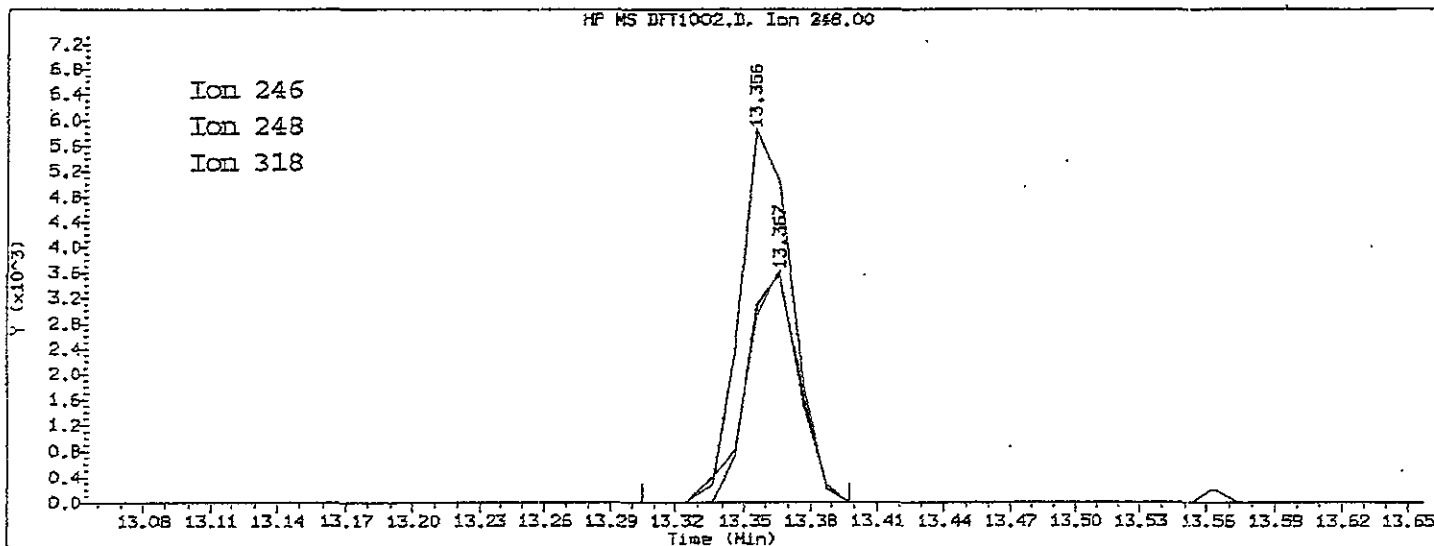
4,4'-DDT

=====
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: RJ
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;
Misc Info: 50ul DFIPP 10MSSV0129



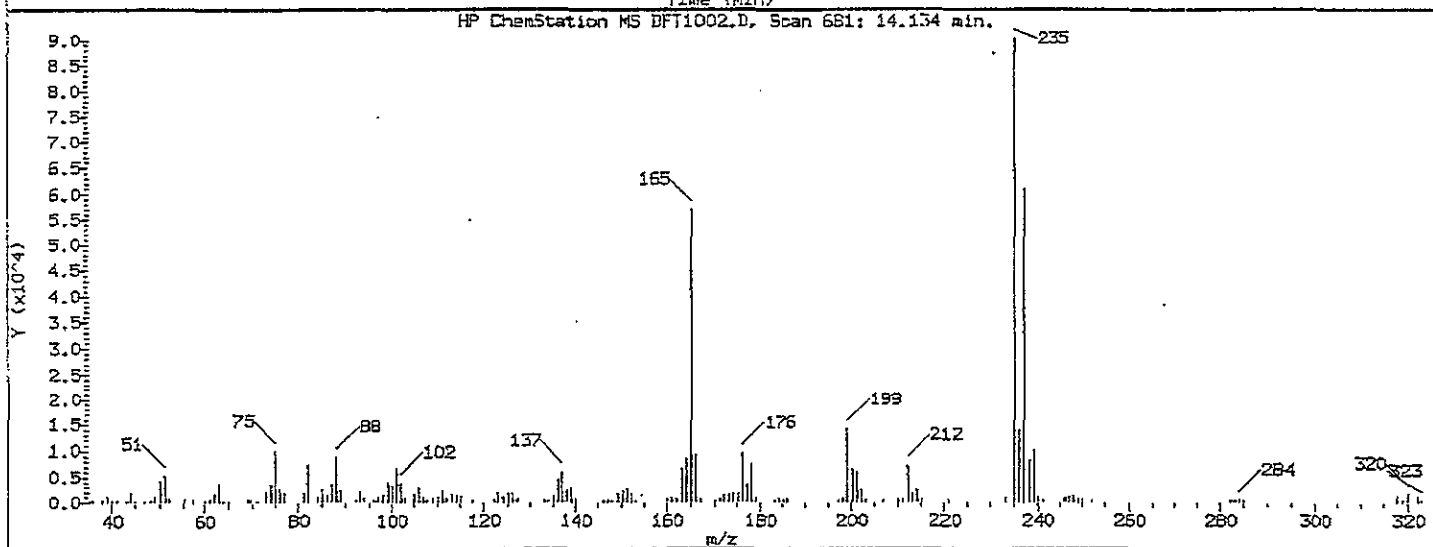
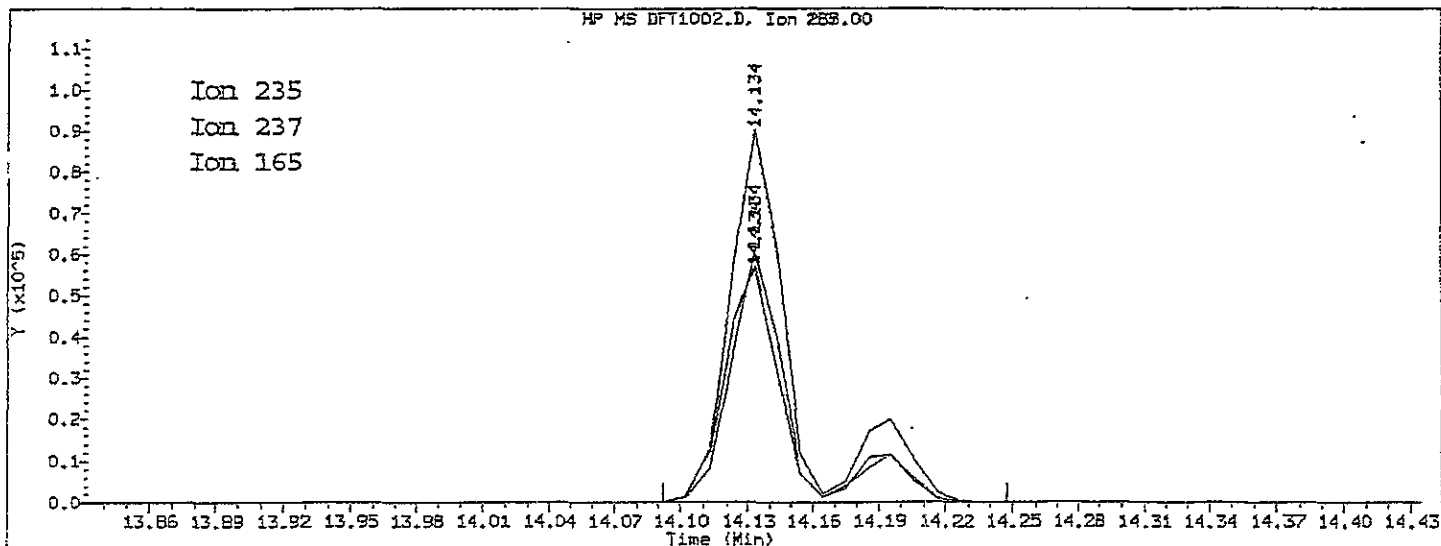
4, 4'-DDE

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

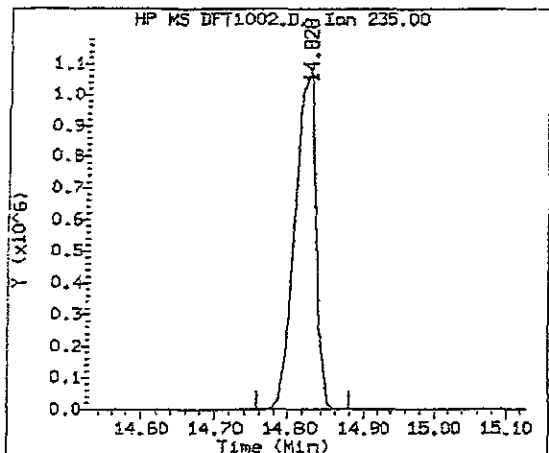
Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



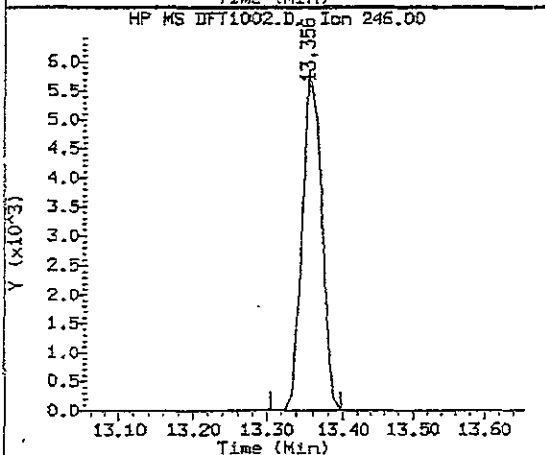
4, 4'-DDD

=====
Exp. RT = 14.248
Found RT = 14.134

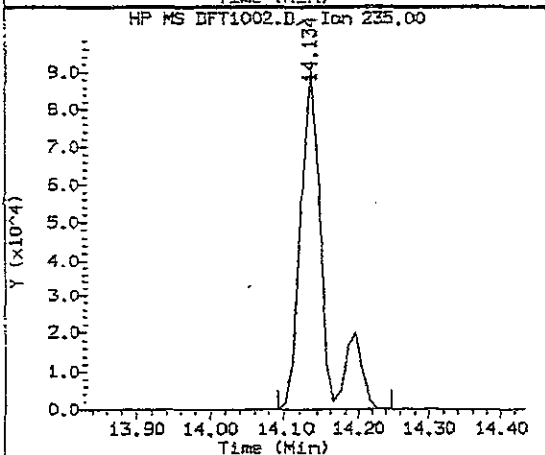
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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: DFTPP 50ug/ml
 Inj Date : 02-OCT-2010 12:06
 Operator : KT Inst ID: sv5.i
 Smp Info : DFTPP 50ug/ml;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\100210.B\DFTPP.m
 Meth Date : 17-Aug-2010 14:10 scotts 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
 Processing Host: SV5

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO	
1 dftpp					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	1913			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	94.09	
0.000	11.201	(0.000)	443	136064			15.00- 24.00	19.37	

Date : 02-OCT-2010 12:06

Client ID:

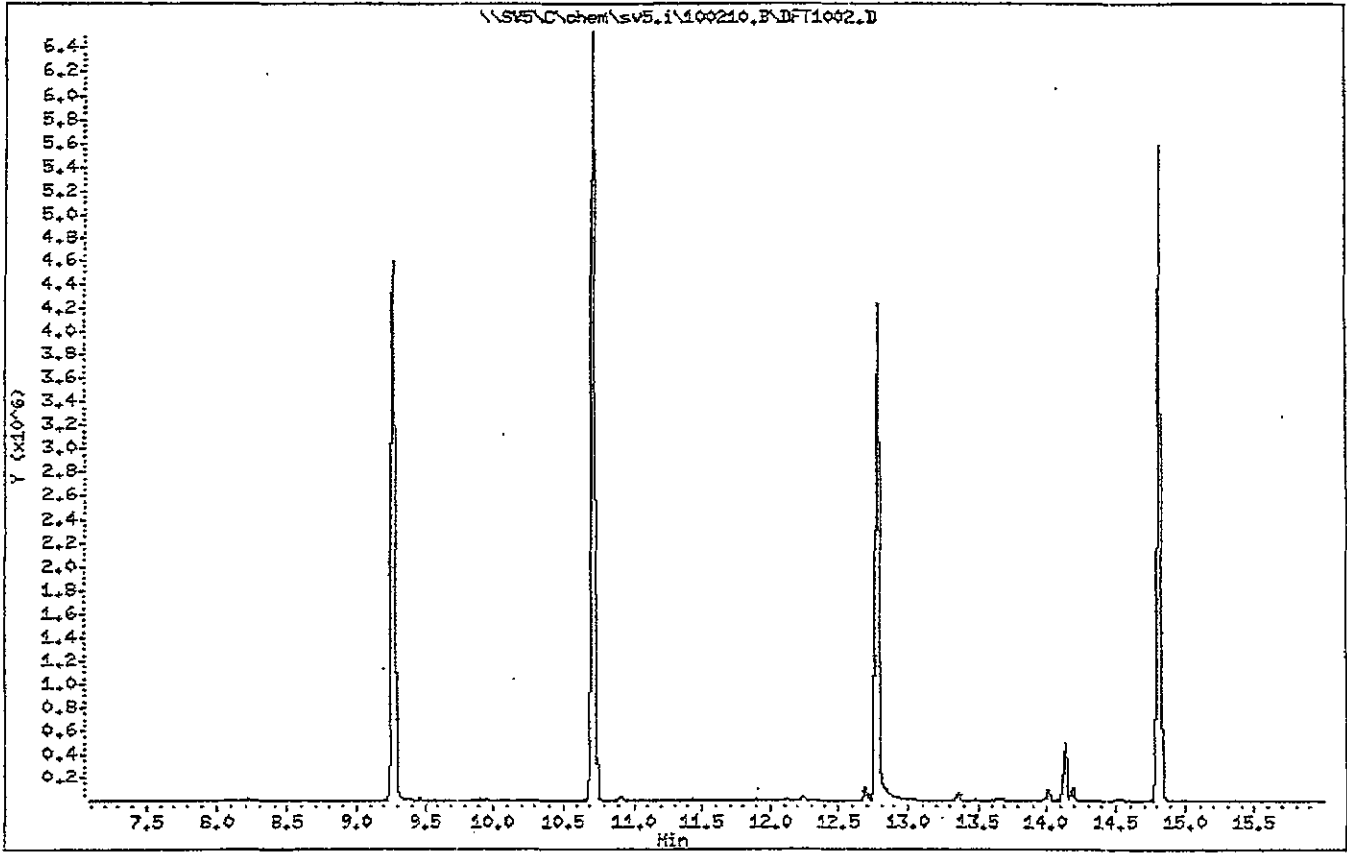
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KI

Column phase:

Column diameter: 2.00



Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

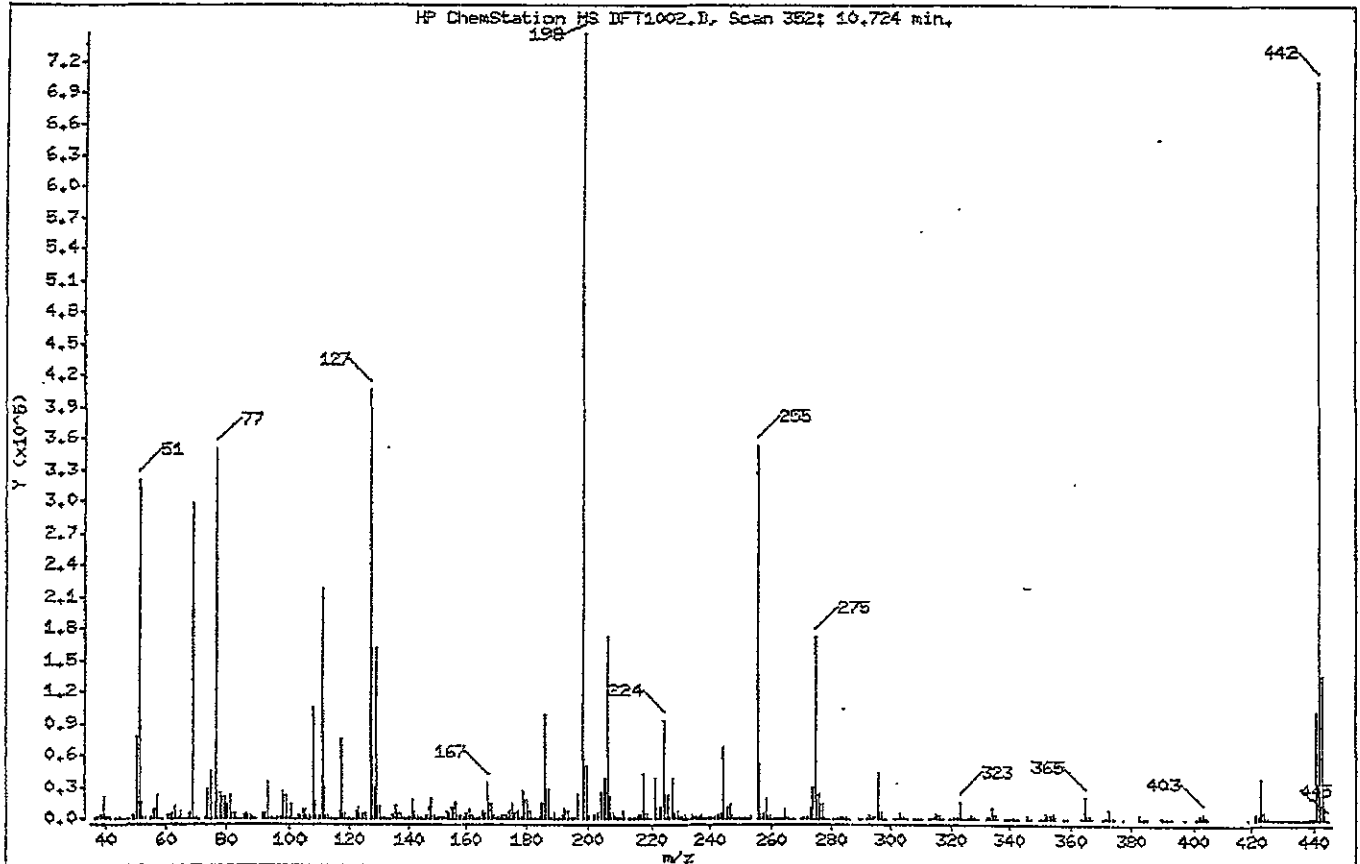
Sample Info: DFTPP 50ug/ml;

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 - 80.00% of mass 198	42.94
68	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
197	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	324.50	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	331.90	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	561	342.10	852
58.00	755	148.00	18744	239.00	1185	343.20	220
59.10	372	149.00	4031	240.00	1063	346.00	2819
61.00	3888	150.10	1094	241.00	1870	346.50	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	9865	353.10	3110
66.00	499	155.00	10151	246.00	14573	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	756	366.00	3166
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: sv5.1

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	373.80	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	269	385.00	289
84.00	614	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	1972	271.00	901	402.00	3464
92.00	5292	179.00	25912	272.10	1129	403.00	5568
93.00	34848	180.00	16984	273.00	10963	404.10	1777
94.00	2386	181.00	7182	274.00	30032	405.00	292
95.00	749	182.00	1363	275.00	170816	418.90	259
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	2251	423.00	37592
99.00	21688	186.00	97584	279.00	648	424.00	6802
100.00	1844	187.10	27792	281.10	266	425.00	930
101.00	13609	188.10	2556	282.00	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	8359	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 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
| 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	38298	| 303.10	5810	| 436.90	846
| 117.00	75520	| 206.10	172352	| 304.00	2035	| 437.50	628
| 118.00	5507	| 207.10	21328	| 305.10	290	| 438.20	1136
| 119.00	839	| 208.00	5487	| 308.00	764	| 439.30	1287
| 120.10	1180	| 209.00	2186	| 309.10	446	| 441.00	100994
| 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	363		
| 129.00	161024	| 218.00	5388	| 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;;;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	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)	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 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	4.325	
\$ 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	4.852 (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	(0.992)	29883	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	(1.076)	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-Nitrosodimethylamine	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	4.950	(0.923)	14088	5.00000	4.735	
46 2,4-Dimethylphenol	107		5.012	5.012	(0.933)	26089	5.00000	4.935	

10-7-10

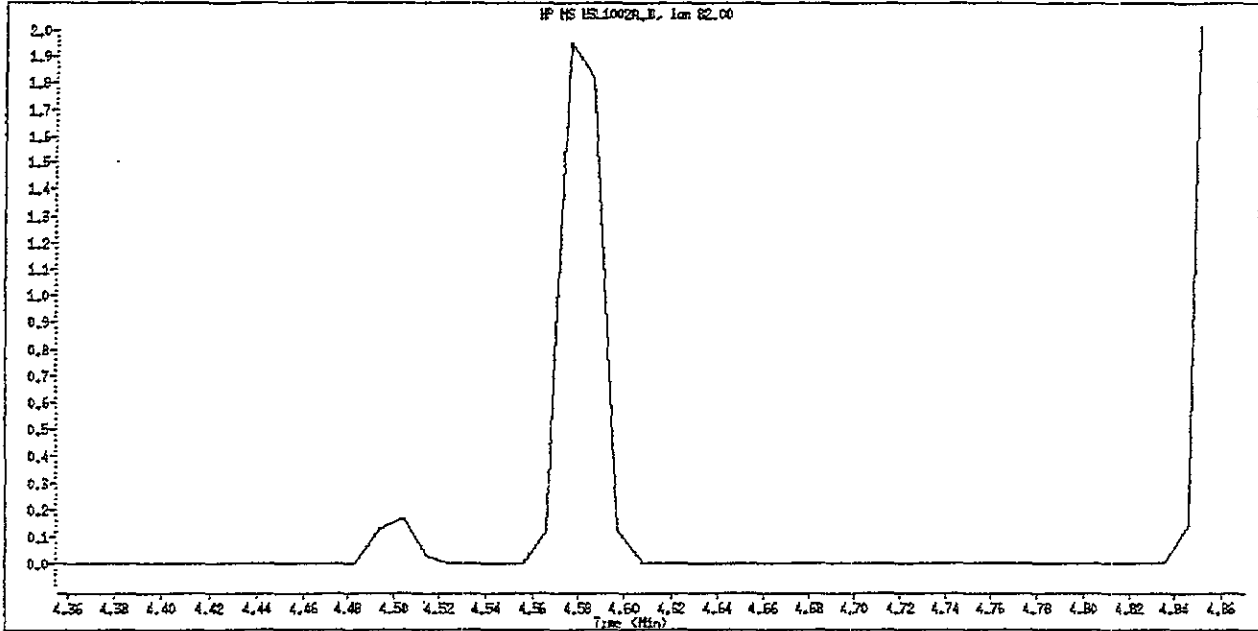
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy) methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50 Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51 1,2,4-Trichlorobenzene	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
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	10813	5.00000	4.503
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.861)	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 (QX)
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)	66403	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,b) 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	4.781

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				113478	5.00000	4.931 (A)

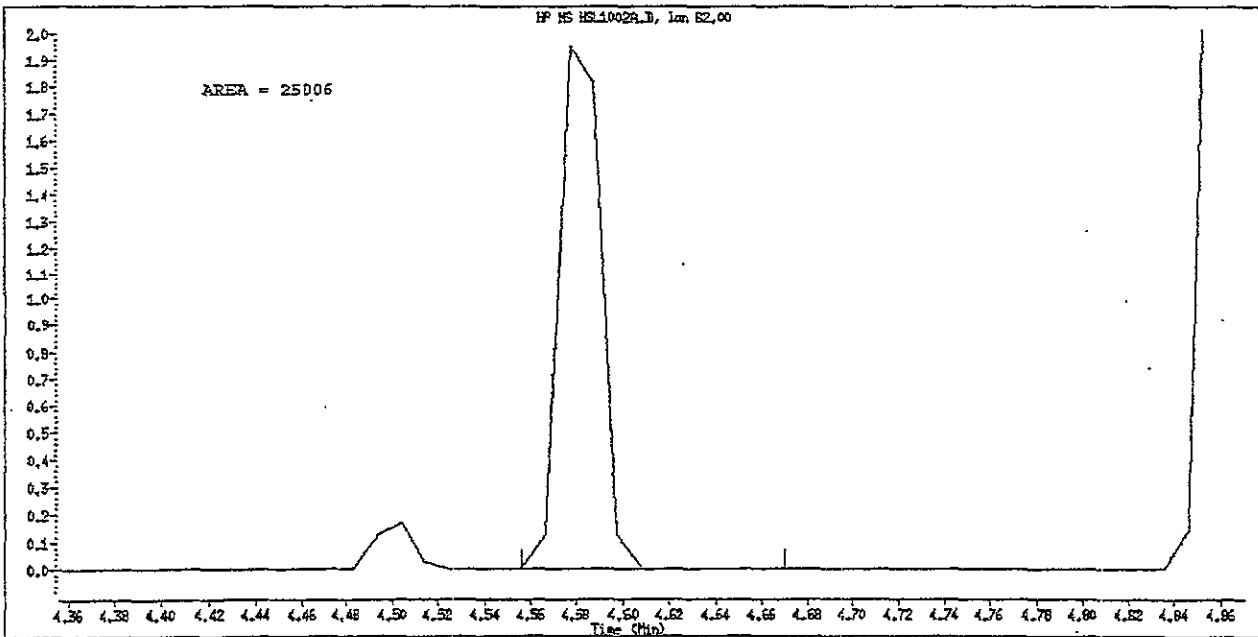
QC Flag Legend

- 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: sv5.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



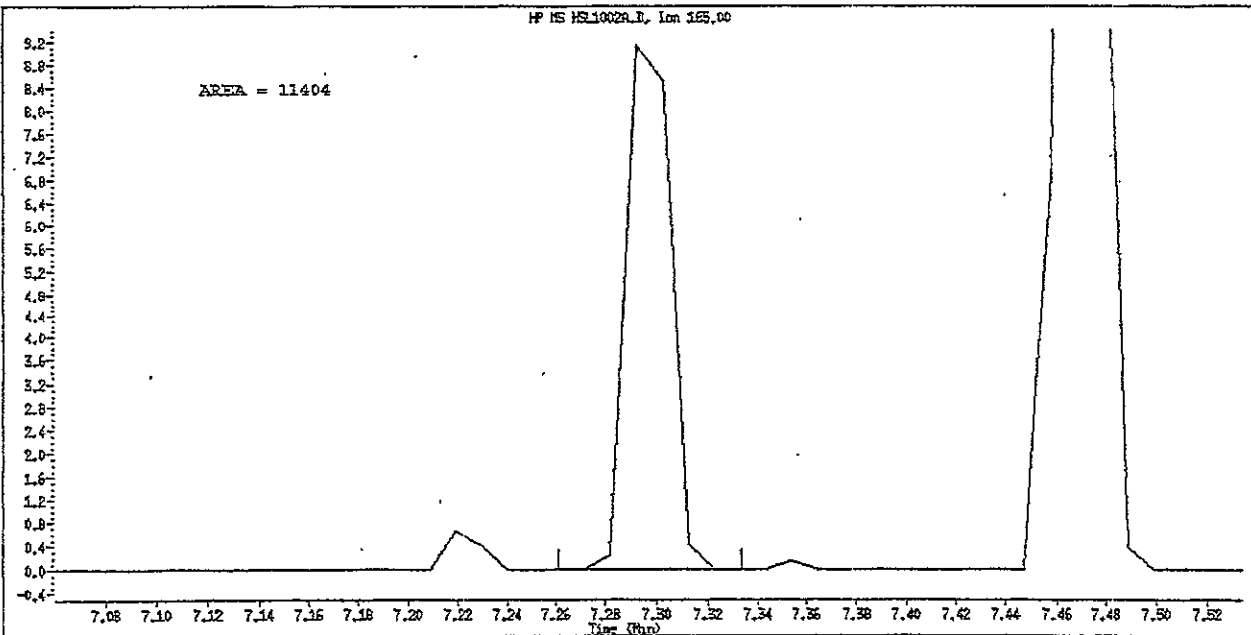
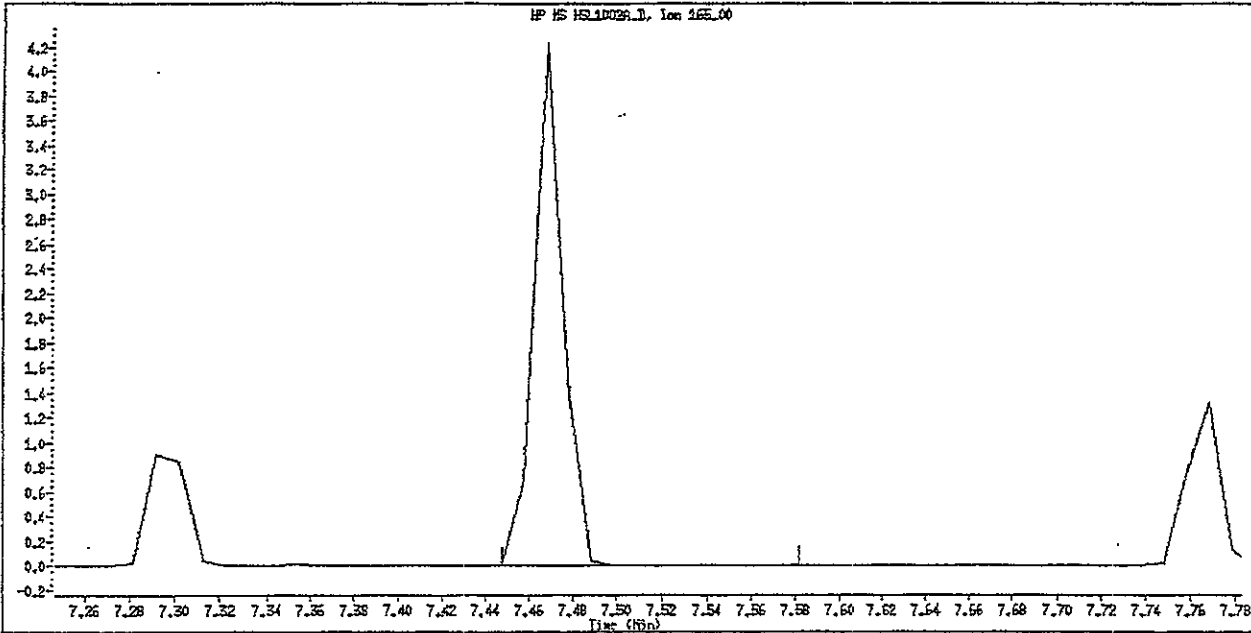
Original Integration



Manual Integration

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

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
Instrument ID: sv5.i
Client ID: 8270P.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



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;;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.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: 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)		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 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	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	4.616
\$ 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	5.015
\$ 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)		39064	5.00000	4.689 (Q)
24 Phenol	94	3.623	3.623 (0.916)		36112	5.00000	5.111 (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-Nitrosodipropylamine	70	4.442	4.442 (1.123)		16719	5.00000	4.290
42 Nitrobenzene	77	4.597	4.597 (0.855)		24875	5.00000	4.659
44 Isopharone	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-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126 (0.954)		31152	5.00000	5.169
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)		19256	5.00000	4.834
50 Benzoic Acid	122	5.084	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 (0.868)		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)		12400	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 (0.888)		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)		76353	5.00000	4.792
144 Benzo (b) fluoranthene	252	15.572	15.562 (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	15.007 (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)		41853	5.00000	4.839
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 (1.128)		53428	5.00000	4.784

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	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.

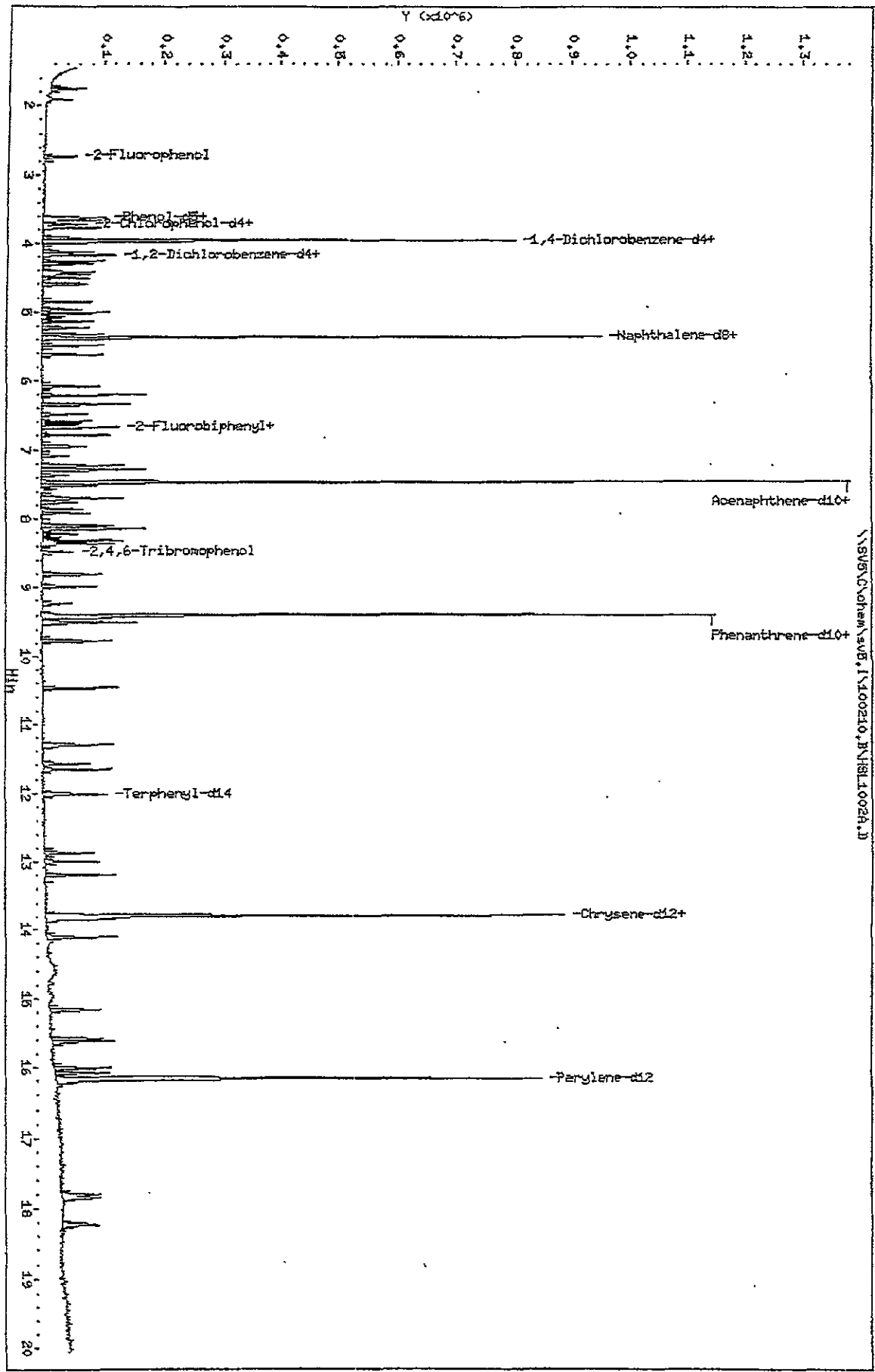
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141539	15.42
2 Naphthalene-d8	530514	265257	1061028	605687	14.17
3 Acenaphthene-d10	282538	141269	565076	321839	13.91
4 Phenanthrene-d10	462722	231361	925444	496356	7.27
5 Chrysene-d12	435850	217925	871700	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: \\SVB\C\chem\svb\1\100210_B\HSL10028.D
 Date: 02-07-2010 12:27
 Client ID: 8270F.H
 Sample Info: HSL_005 ug/ml CS-1111111111
 Column phase:

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		99	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	9.508
§ 14 Terphenyl-d14		244	12.017	12.017	(0.872)	81626	10.0000	9.978
15 N-Nitrosodimethylamine		74	1.706	1.706	(0.431)	25783	10.0000	9.578 (g)
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 (g)
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)	40363	10.0000	9.677
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)	28335	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

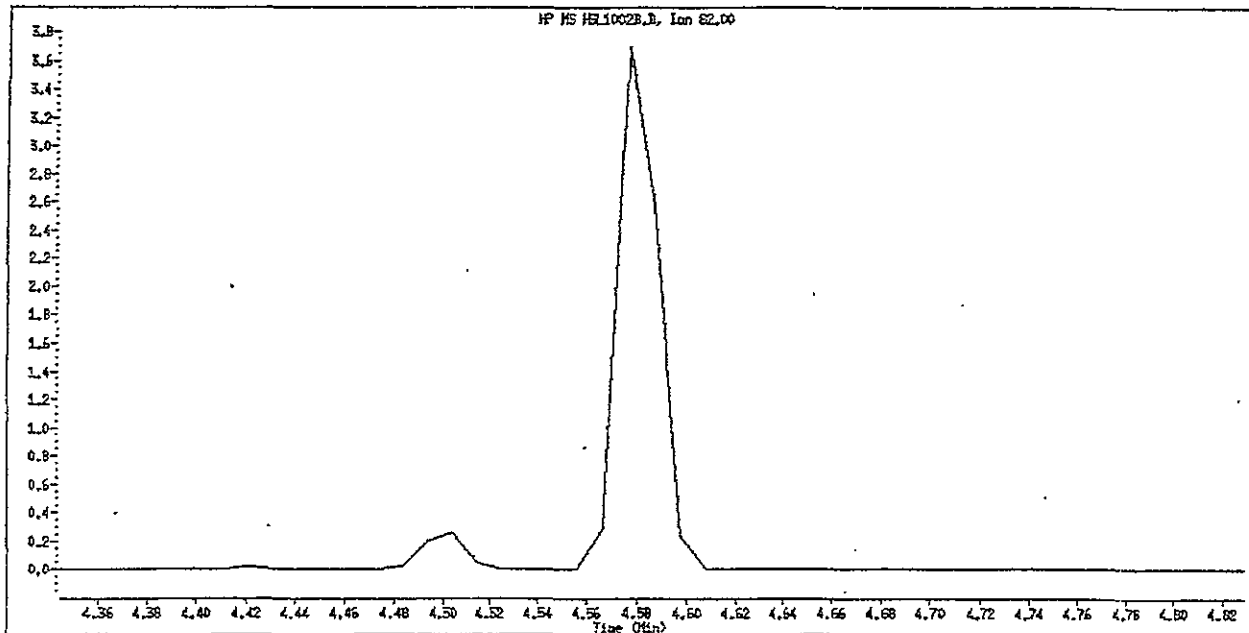
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	QIN-COL (NG)
47 Bis (2-chloroethoxy) methane		93	5.126	5.126 (0.956)		46230	10.0000	9.636
49 2,4-Dichlorophenol		162	5.229	5.229 (0.975)		32450	10.0000	9.744
50 Benzoic Acid		122	5.084	5.115 (0.948)		20056	10.0000	8.418
51 1,2,4-Trichlorobenzene		160	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 2,4,6-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)		130392	10.0000	9.758
79 2,6-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	9.814
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 (1.040)		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	8.349 (0.888)		82437	10.0000	9.784
101 4-Bromophenyl-phenylether		248	8.794	8.794 (0.935)		19823	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)		62032	10.0000	9.605
138 Benzo (a) Anthracene		228	13.748	13.758 (0.998)		102788	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	16.007 (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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.556 (A)

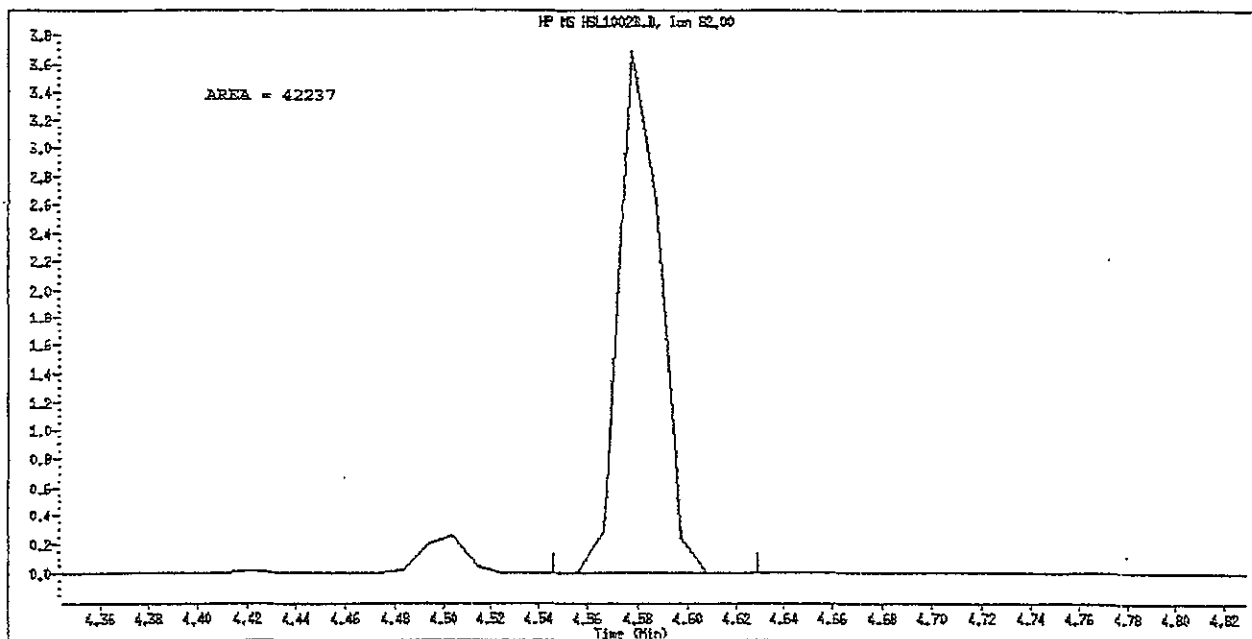
QC Flag Legend

- 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: HSL1002B.D
Inj. Date and Time: 02-OCT-2010 12:53
Instrument ID: sv5.1
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



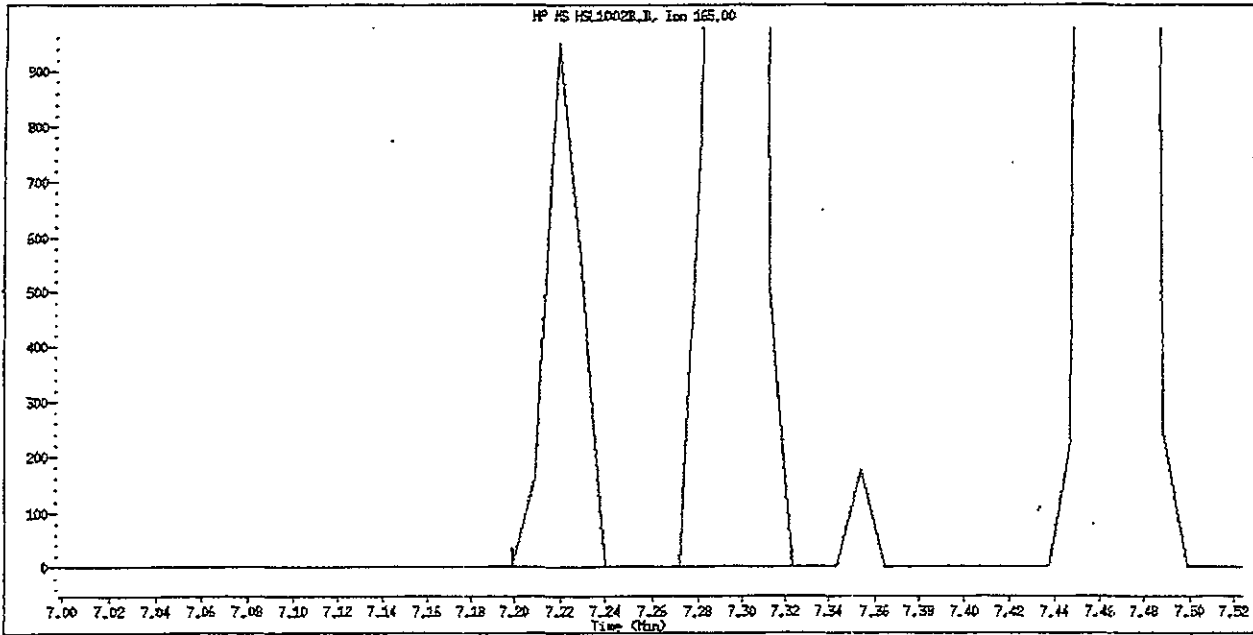
Original Integration



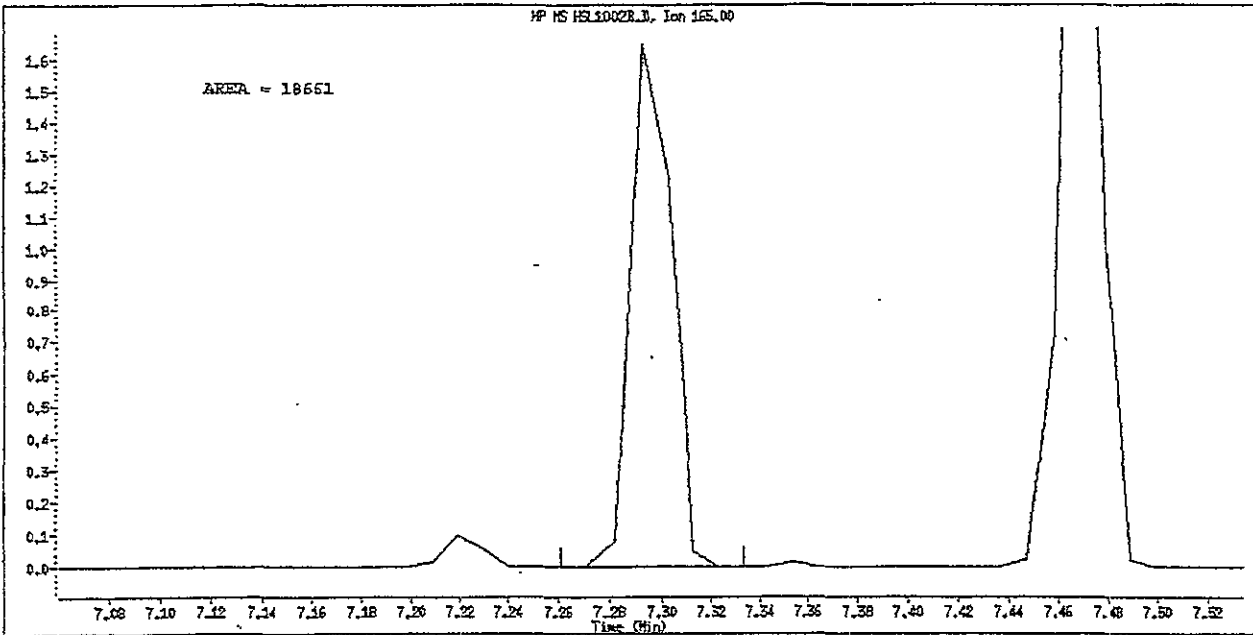
Manual Integration

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: sv5.1
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: trucegk
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	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)	36100	10.0000	8.835	
\$ 8 Phenol-d5		99	3.613	3.613 (0.914)	48878	10.0000	8.913	
\$ 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)	40383	10.0000	9.114	
27 2-Chlorophenol		128	3.768	3.768 (0.953)	45449	10.0000	9.848	
28 1,3-Dichlorobenzene		146	3.923	3.923 (0.990)	49415	10.0000	9.689	
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)	43497	10.0000	9.466	
36 Hexachloroethane		117	4.504	4.504 (1.139)	17770	10.0000	9.768	
37 N-Nitrosodipropylamine		70	4.442	4.442 (1.123)	28335	10.0000	8.809	
42 Nitrobenzene		77	4.597	4.597 (0.857)	40198	10.0000	9.246	
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	9.784	
46 2,4-Dimethylphenol		107	5.012	5.012 (0.934)	42128	10.0000	9.559	

10-3-10

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	CON-COL (DG)
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	8.164	
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		227	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 (0.880)	11282	10.0000	11.76	
98 N-Nitrosodiphenylamine		169	8.317	8.317 (0.884)	74860	11.7000	11.21	
100 Acobenzene		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 (0.982)	10551	10.0000	7.861	
114 Ebananthrene		178	9.437	9.437 (1.003)	134966	10.0000	10.10	
115 Anthracene		178	9.499	9.499 (1.010)	130415	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 Benzidine		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)	66361	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 (0.966)	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)	86393	10.0000	9.016	
153 Benzo(g,h,i)perylene		276	18.224	18.235 (1.128)	103135	10.0000	9.811	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-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
 Lab File ID: HSL1002B.D
 Lab Smp Id: HSL 010 ug/ml CS-2
 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;10MSSV0308;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.

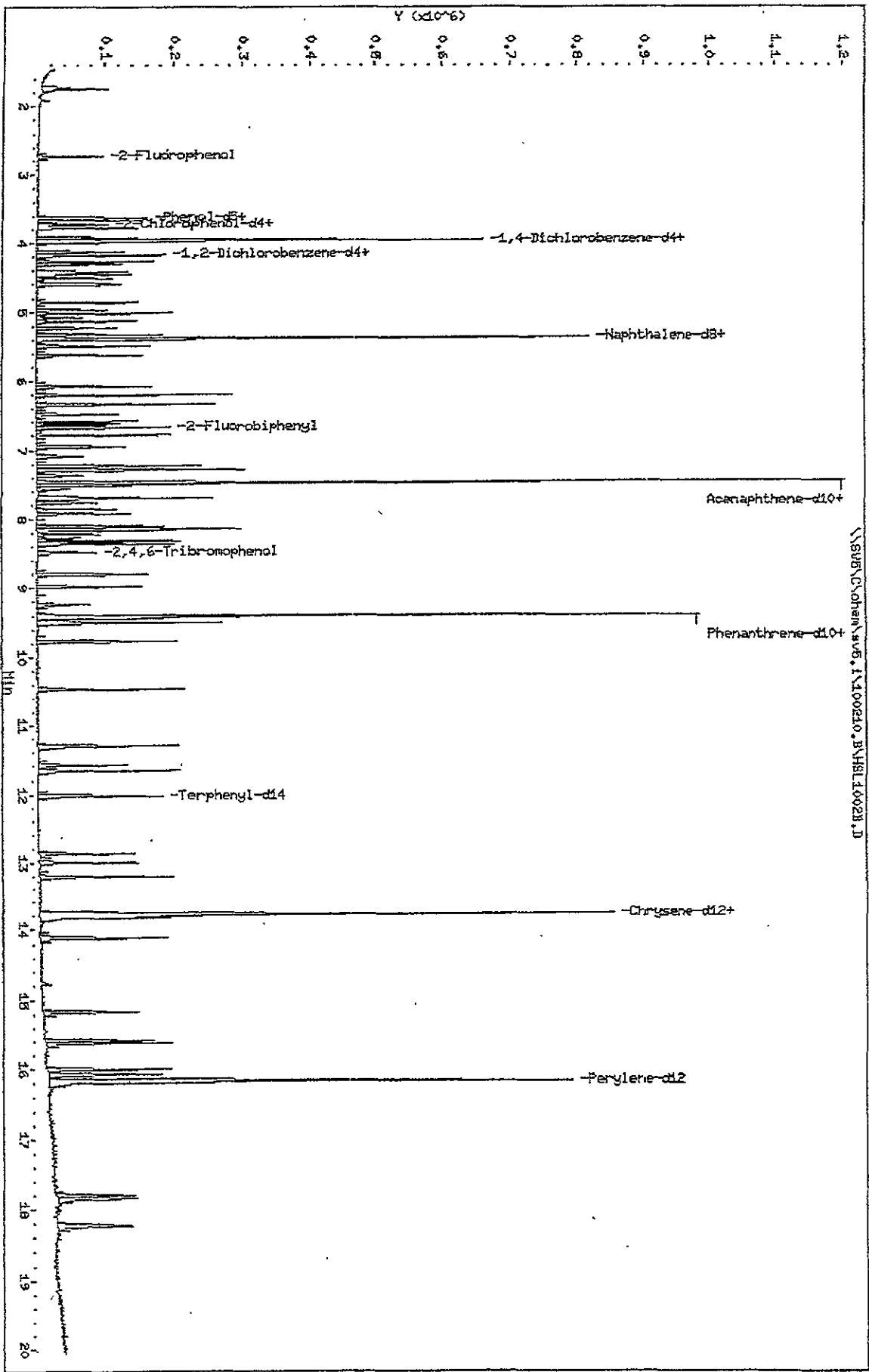
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	116839	-4.72
2 Naphthalene-d8	530514	265257	1061028	493196	-7.03
3 Acenaphthene-d10	282538	141269	565076	272639	-3.50
4 Phenanthrene-d10	462722	231361	925444	428440	-7.41
5 Chrysene-d12	435850	217925	871700	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: \\SVB5\chem\svb_11100210_BNHSL1002B.D
 Date: 02-OCT-2010 12:13
 Client ID: B220F.H
 Sample Info: HSL_010 ug/ml CS-211121114
 Column phase:

Instrument: svb_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	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-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)	100951	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	19.76	
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	20.59 (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	19.87	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	117073	20.0000	19.50	
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	(1.118)	106723	20.0000	19.26	
36 Hexachloroethane	117	4.504	4.504	(1.139)	44196	20.0000	19.98	
37 N-Nitrosodimethylamine	70	4.441	4.442	(1.123)	73913	20.0000	20.02	
42 Nitrobenzene	77	4.597	4.597	(0.857)	101809	20.0000	19.55	
44 Isophorone	82	4.856	4.856	(0.905)	191333	20.0000	19.21	
45 2-Nitrophenol	139	4.960	4.960	(0.925)	58938	20.0000	19.18	
46 2,4-Dimethylphenol	107	5.011	5.012	(0.934)	107325	20.0000	19.65	

64
10-3-10

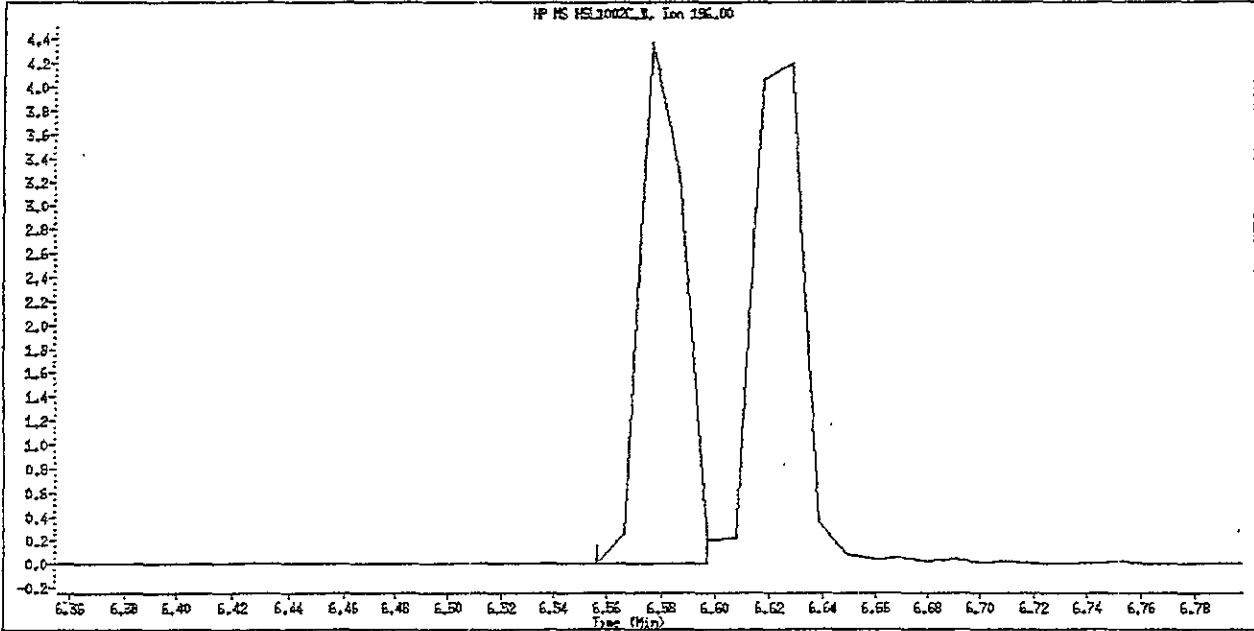
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	DN-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120645	20.0000	19.82
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.982)	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	20.26
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	(1.155)	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	18.96 (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	(1.005)	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	19.58
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)	93458	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	(1.035)	298921	20.0000	19.76
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.58
126 Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.75
127 Benzidine	194	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 (q)
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,h) anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.81
153 Benzo (g,h,i) perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	CON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	19.61 (A)

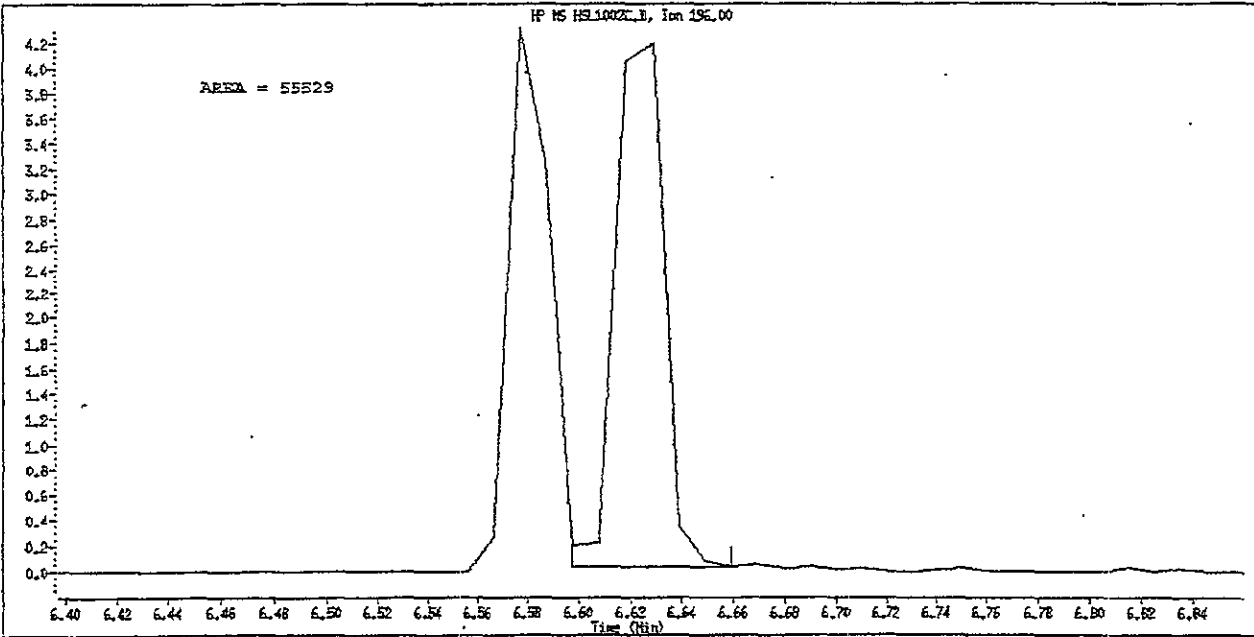
QC Flag Legend

- 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: sv5.1
Client ID: SZ70F.M
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 10/03/2010



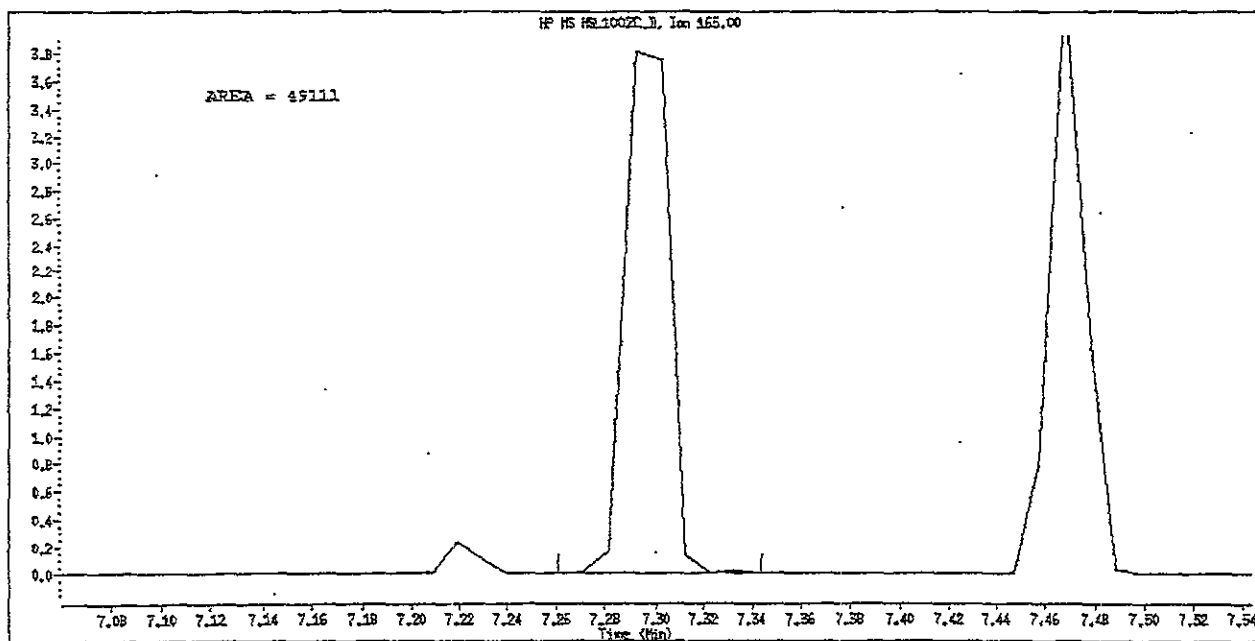
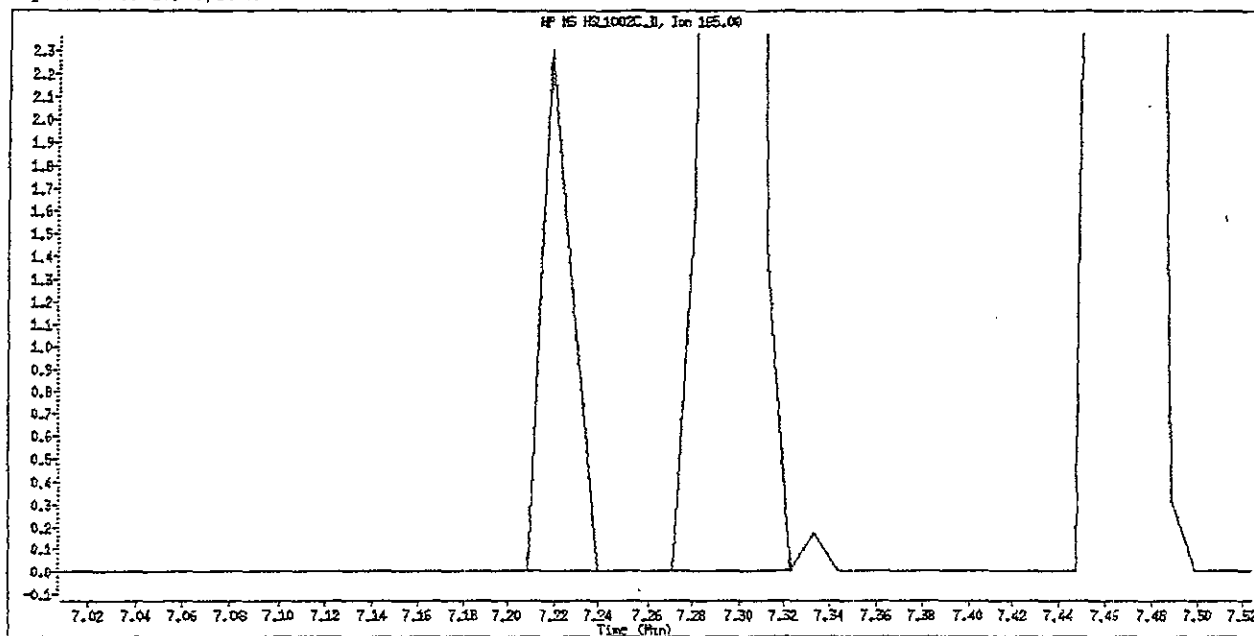
Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: ESL1002C.D
Inj. Date and Time: 02-OCT-2010 13:18
Instrument ID: SVS.i
Client ID: S270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
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	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)	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)	28698	20.0000		22.12
\$ 14 Terphenyl-d14		244	12.017	12.017 (0.872)	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)	147894	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	3.923	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)		45	4.296	4.297 (1.086)	166596	20.0000		16.22
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)	151333	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	
						CHI-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 (1.005)		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 (1.045)		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 (0.880)		32982	20.0000	20.90
98 N-Nitrosodiphenylamine	169	8.217	8.317 (0.884)		186205	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	284	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)		198950	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 (e) 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)		228110	20.0000	16.13
152 Dibenzo (a, b) 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)	CON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	13.72 (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
 Lab File ID: HSL1002C.D
 Lab Smp Id: HSL 020 ug/ml CS-3
 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;10MSSV0309;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.

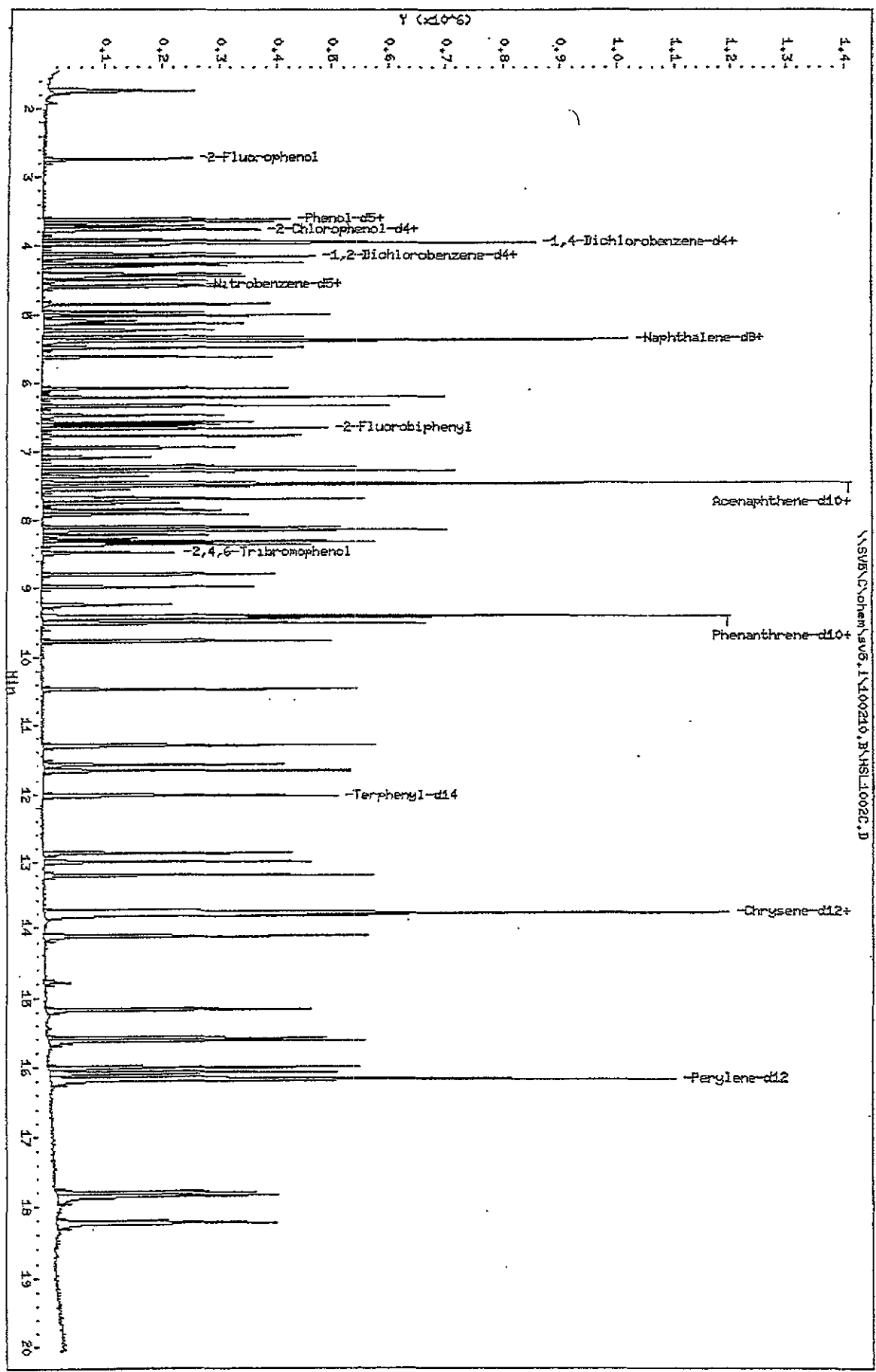
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	145926	19.00
2 Naphthalene-d8	530514	265257	1061028	625682	17.94
3 Acenaphthene-d10	282538	141269	565076	328608	16.31
4 Phenanthrene-d10	462722	231361	925444	525834	13.64
5 Chrysene-d12	435850	217925	871700	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: \\SVB\Chem\sw5.1\100210.B\HSL1002C.D
 Date: 02-01-2010 13:18
 Client: BZ70F.H
 Sample Info: HSL_020 ug/ml CS-3f113f1134
 Column phase:

Instrument: sw5.1
 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;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)	DN-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)	436253	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)	160914	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 (1.086)	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-Nitrosodimpropylamine	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	139	4.960	4.960 (0.923)	132771	50.0000	50.95	
46 2,4-Dimethylphenol	107	5.012	5.012 (0.933)	232517	50.0000	50.00	

10-3-10

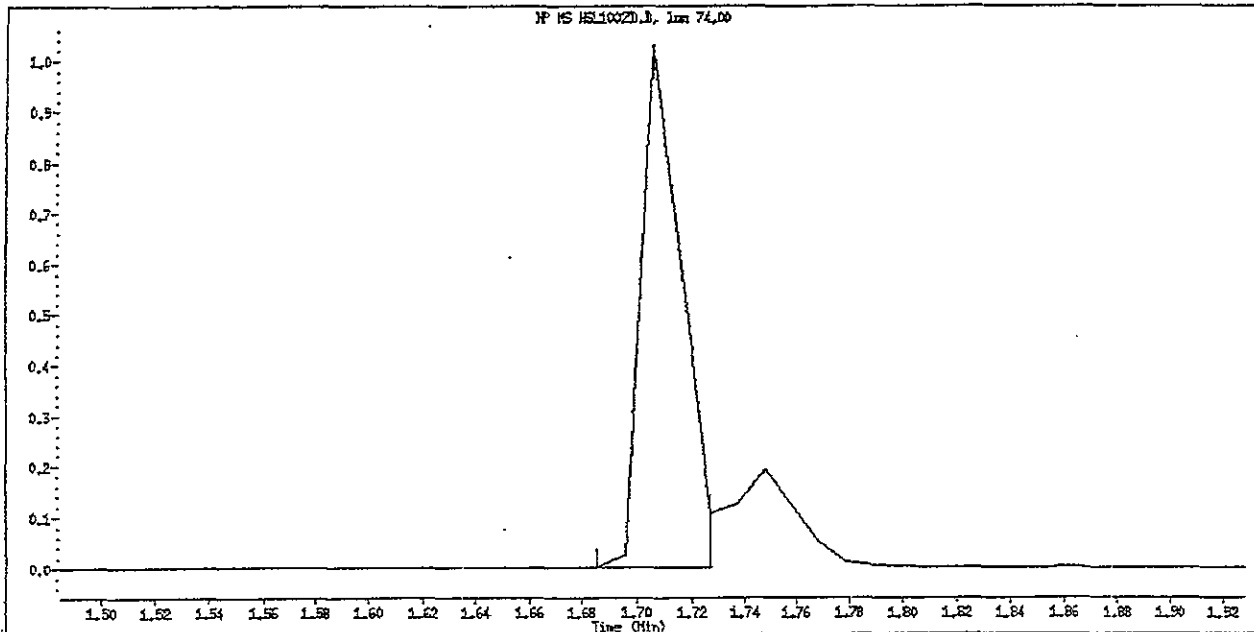
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	152	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	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
75 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)	448691	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)	459950	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	(1.112)	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)	285489	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)	664144	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 (e) pyrene	252	15.007	16.007	(0.990)	506622	50.0000	50.82
148 Benzo (a) pyrene	252	15.079	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	
	MASS					CAL-AMT (NG)	OW-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1107571	50.0000	50.74 (A)

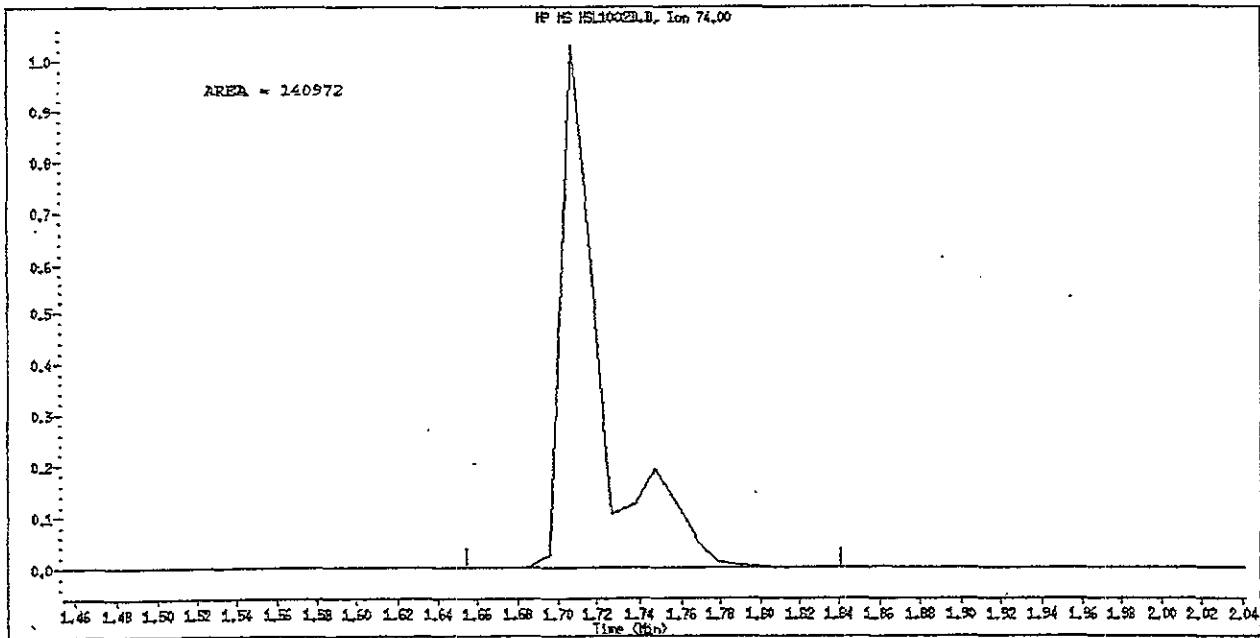
QC Flag Legend

- 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: 8270P.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 10/03/2010



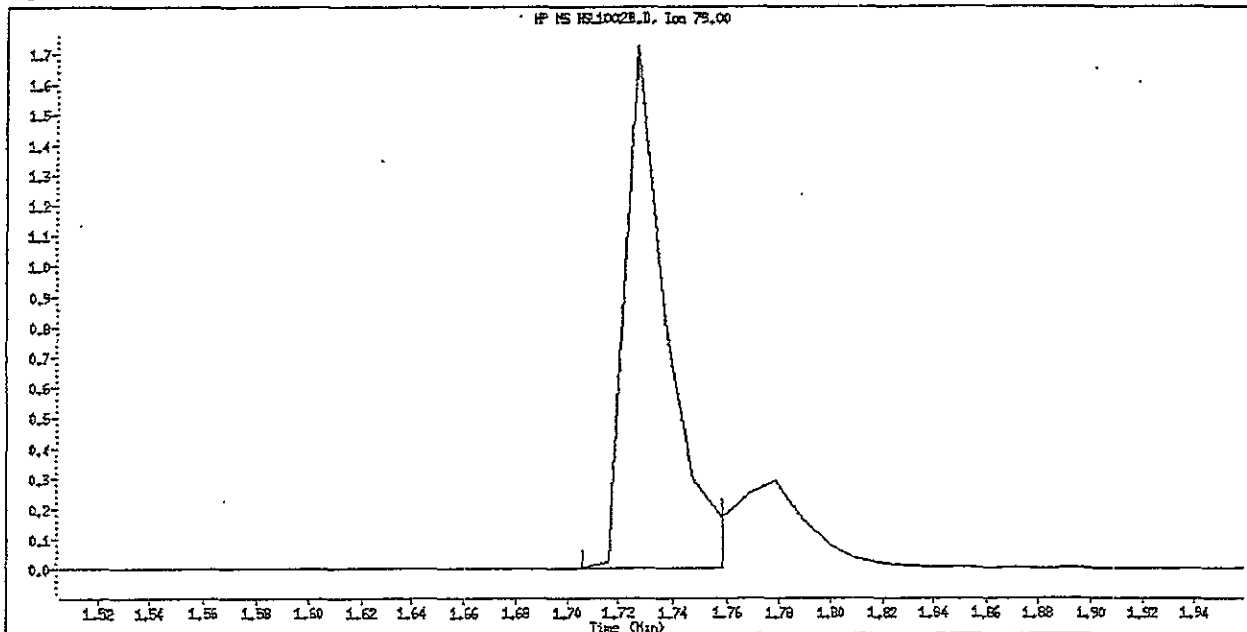
Original Integration



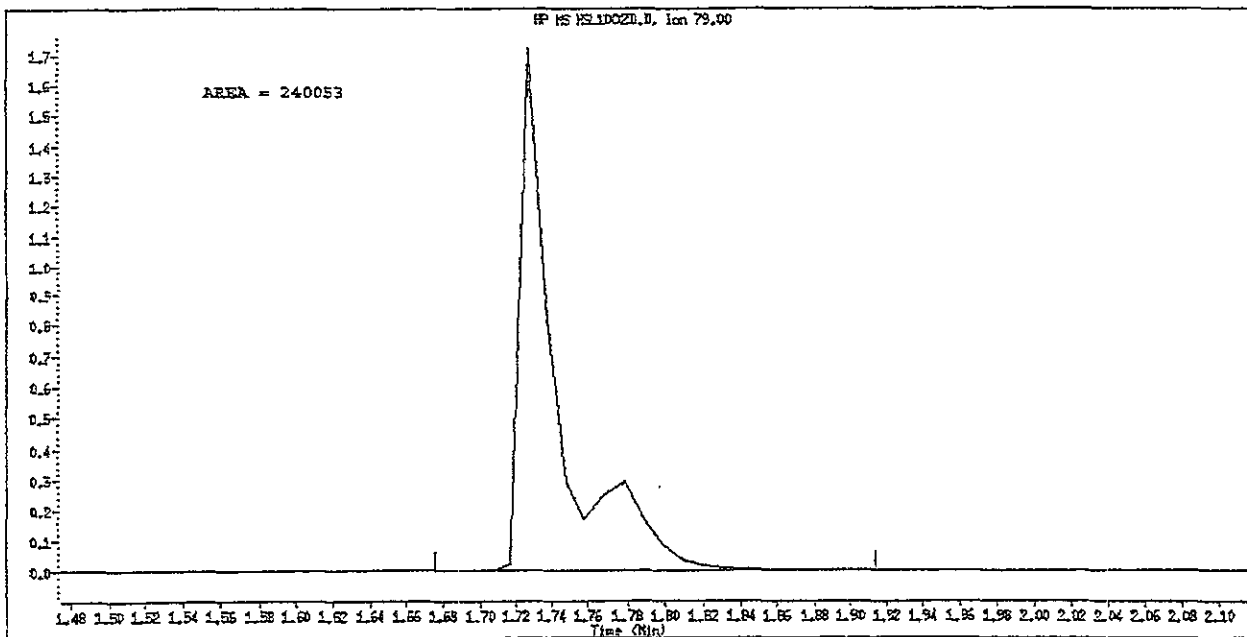
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CRS #: 110-86-1
Report Date: 10/03/2010



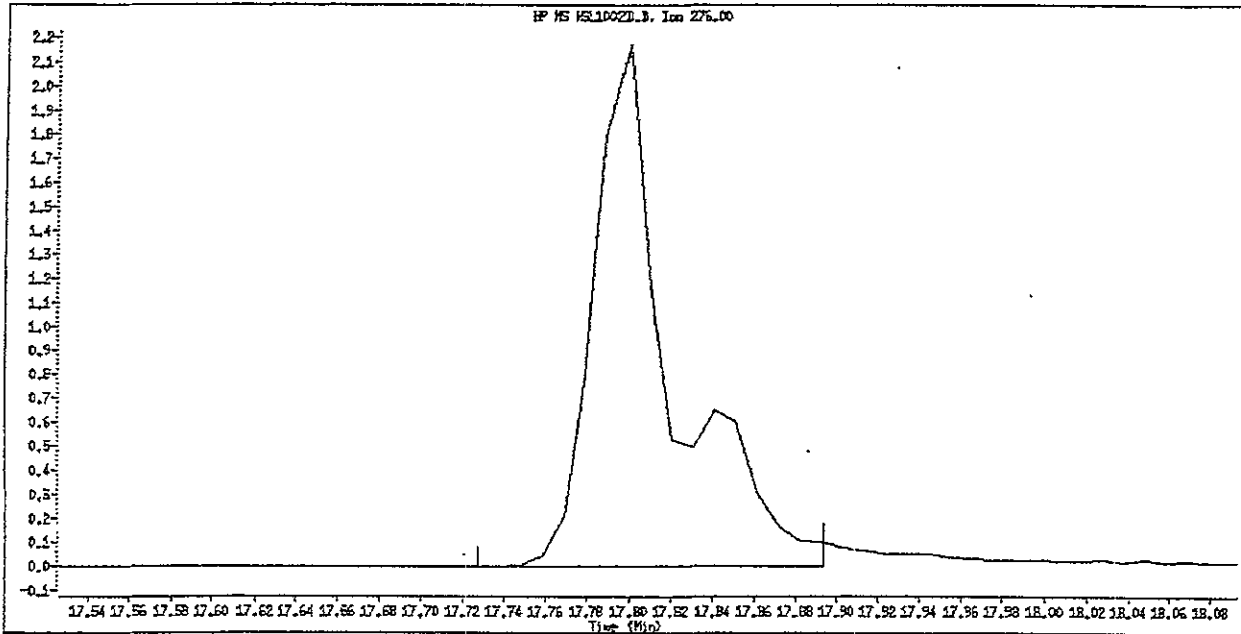
Original Integration



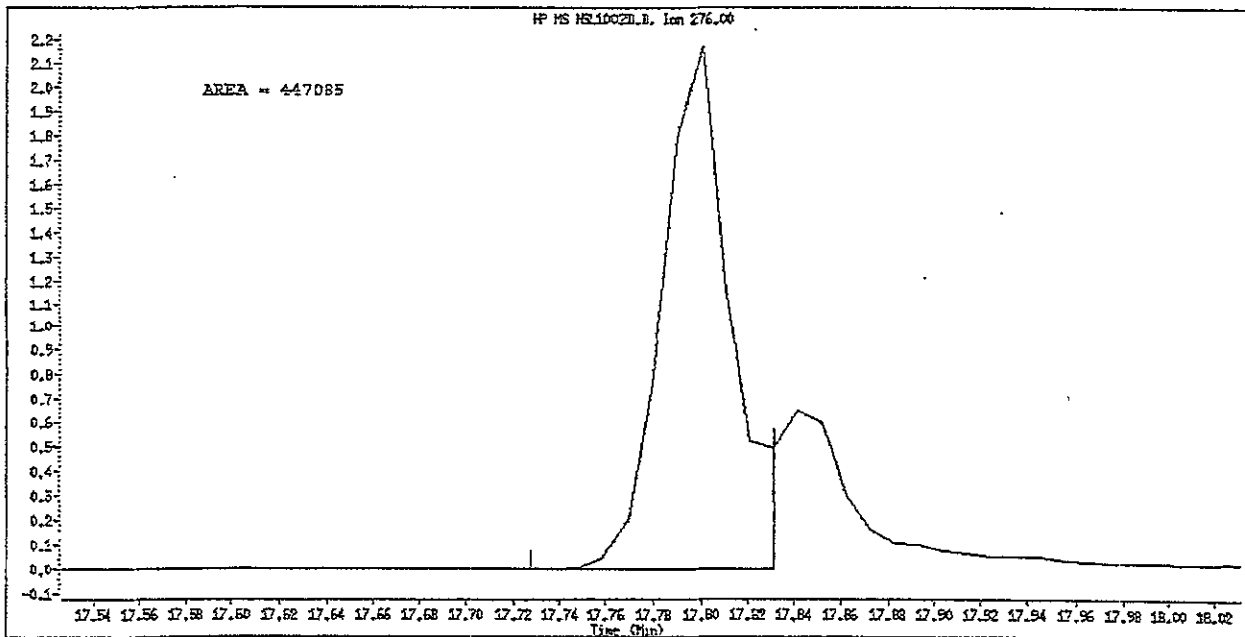
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: SV5.1
Client ID: E2707.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	AMOUNTS				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE	CEL-RMT ( 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	47.87
\$ 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)	473978	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	(0.924)	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	(0.982)	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)	160914	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)	349371	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)	420861	50.0000	47.38
45 2-Nitrophenol	139		4.960	4.960	(0.923)	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)	QIN-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	53.11
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
65 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	53.82
80 3-Nitroaniline	128	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	45.85
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)	660885	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	(0.943)	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	48.61
142 Di-n-octylphthalate	149	15.167	15.167	(1.101)	732406	50.0000	47.78
144 Benzo (b) 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	58.29
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	DN-CDL
	MASS					(NG)	(NG)
M 162 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

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	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)	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)	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	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	80.92	
\$ 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	79.35	
\$ 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 (1.086)	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 (1.139)	153472	80.0000	79.72	
37 N-Nitrosodimethylamine		70	4.442	4.442 (1.123)	265915	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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							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)	335335	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	81.65
76 Dimethylphthalate		163	7.229	7.229	(0.966)	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)
86 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	95.08
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
106 Hexachlorobenzene		284	8.961	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	81.39
120 Di-n-Butylphthalate		149	10.462	10.463	(1.112)	1351860	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	(0.846)	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	78.63
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)	920884	80.0000	84.26(Q)
145 Benzo(k)fluoranthene		252	15.623	15.623	(0.967)	1102899	80.0000	78.61(q)
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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	DN-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				2023793	80.0000	81.09 (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 SIG	M&S	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-RMT (NG)	DN-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)		300325	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)		486126	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)		755516	80.0000	78.58
§ 13 2,4,6-Tribromophenol	330		8.423	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)		583513	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)		362044	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	166		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	4.557 (0.855)		369479	80.0000	75.74
44 Isopharone	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 (0.933)		385073	80.0000	77.86

Compounds	QUANT. SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	DN-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.954)	426158	80.0000	77.39
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	301897	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)	494619	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)	335335	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)	181508	80.0000	79.29
69 2,4,6-Trichlorophenol	196	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	86.31
80 3-Nitroaniline	138	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	(1.085)	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)	695826	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	(1.039)	1118637	80.0000	80.19
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	1351860	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)	799205	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)	1034950	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 (D)
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	17.799	17.800	(1.101)	811625	80.0000	73.62
152 Dibenzo (a,b) anthracene	278	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	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	GW-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				2023783	80.0000	E1.52 (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.

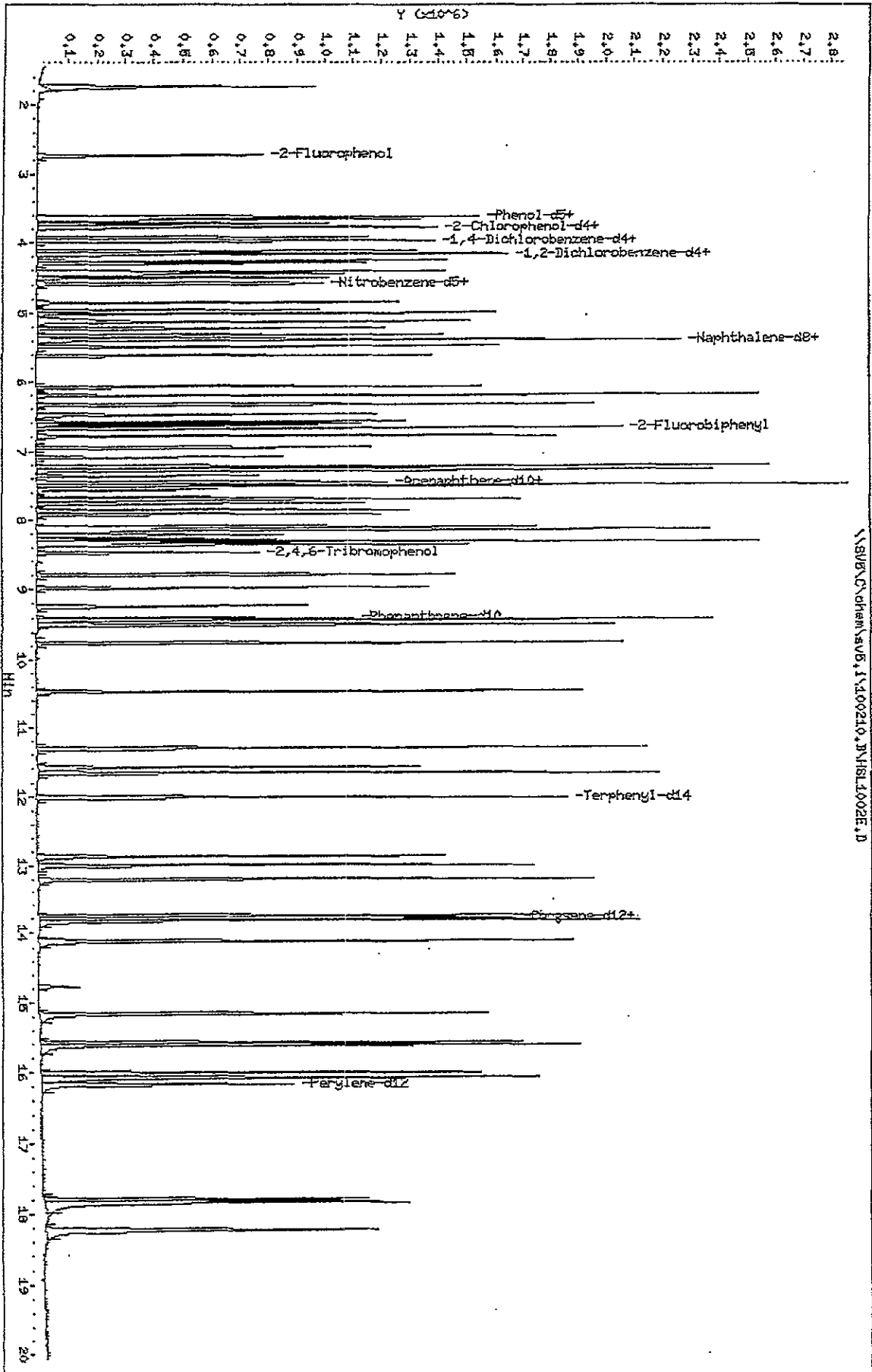
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	126989	3.56
2 Naphthalene-d8	530514	265257	1061028	553454	4.32
3 Acenaphthene-d10	282538	141269	565076	300315	6.29
4 Phenanthrene-d10	462722	231361	925444	477777	3.25
5 Chrysene-d12	435850	217925	871700	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: \\SBS\C\chem\sv8.1\1400210.D\HSL1002E.D
 Date: 02-08-2010 14:09
 Client ID: B270F.H
 Sample Info: HSL_080 ug/ml CS-B11151114
 Column phase:

Instrument: sv8.1
 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	AMOUNTS				CAL-AMT (NG)	ON-COL (NG)
			MASS	RT	EXP RT	REL RT			RESPONSE
* 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	(1.006)	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	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		6.689	6.680	(0.895)	1255441	120.000	120.8
\$ 13 2,4,6-Tribromophenol	330		8.483	8.473	(1.136)	179055	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)	852671	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		3.924	3.923	(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)	603987	120.000	122.6
33 2,2'-oxybis(1-Chloropropene)	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-Nitrosodimethylamine	70		4.452	4.442	(1.126)	428242	120.000	122.9
42 Nitrobenzene	77		4.607	4.597	(0.857)	593736	120.000	121.2
44 Isophorone	82		4.867	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	(0.923)	638328	120.000	123.6

10-3-10

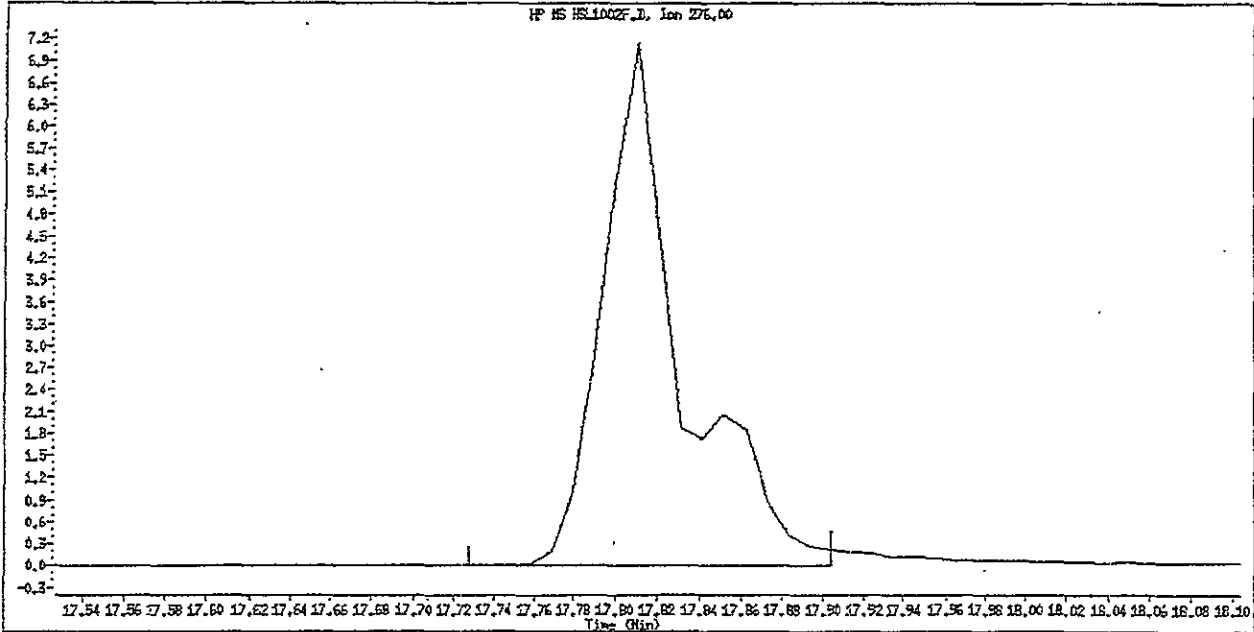
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126 (0.954)	707504	120.000	122.9	
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)	500185	120.000	125.2	
50 Benzoic Acid	122	5.146	5.115 (0.958)	395333	120.000	138.3	
51 1,2,4-Trichlorobenzene	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 (q)	
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)	2014183	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)	1368794	120.000	124.5	
142 Di-n-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 (0.965)	1935987	120.000	123.5 (q)	
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 (1.181)	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)

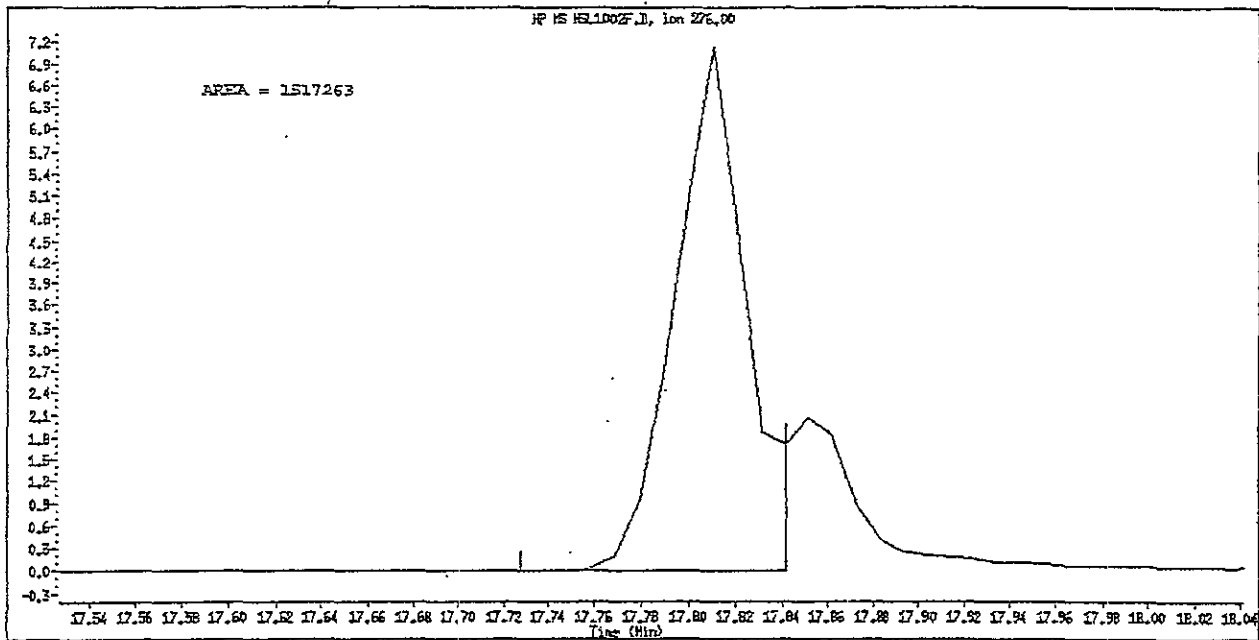
QC Flag Legend

- 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: HSL1002F.D
Inj. Date and Time: 02-OCT-2010 14:35
Instrument ID: sv5.i
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: truonk
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	REF 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-Nitrosodimethylamine	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)	1178801	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 (0.923)	638328	120.000	120.7	

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)	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	(0.956)	395333	120.000	134.1
51 1,2,4-Trichlorobenzene	180	5.323	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 Acetophenylene	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	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)	1333949	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	(0.881)	236477	120.000	120.3
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	1123239	141.000	139.8
100 Azobenzene	77	8.359	8.348	(0.889)	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)	215350	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	(1.039)	1822217	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	126.4
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	(0.994)	1214012	120.000	135.2
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	997218	120.000	122.5
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	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)	1935967	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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				3411204	120.000	122.9 (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.

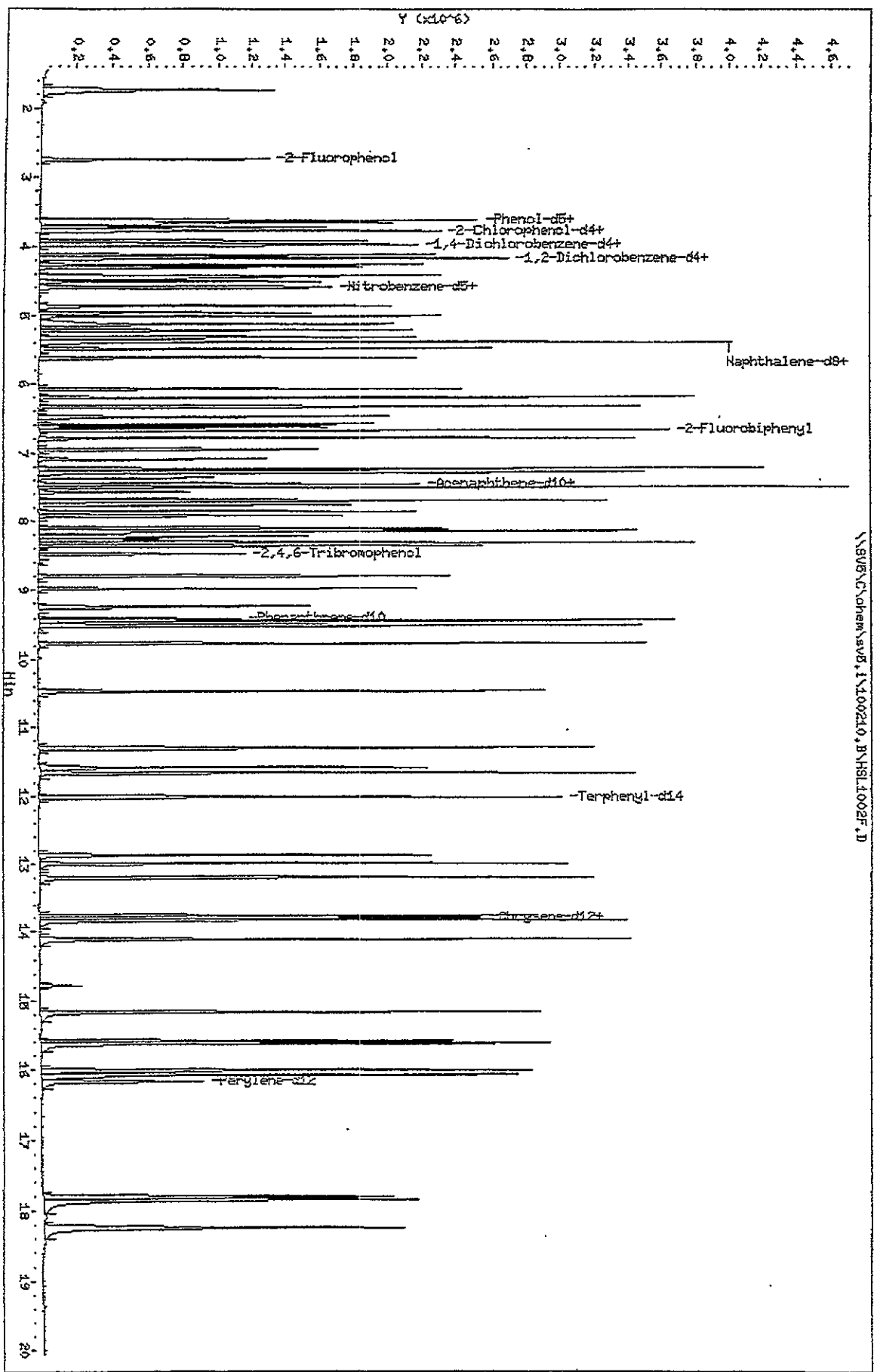
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	137751	12.34
2 Naphthalene-d8	530514	265257	1061028	591665	11.53
3 Acenaphthene-d10	282538	141269	565076	322596	14.18
4 Phenanthrene-d10	462722	231361	925444	515607	11.43
5 Chrysene-d12	435850	217925	871700	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: \\SVS\chem\svd,1\100210,BNHS11002F.D
 Date: 02-OCT-2010 14:35
 Client: INT 8270F.H
 Sample Info: HBL_120 ug/ml CB-611f51f114
 Column phase:

Instrument: sv5.i
 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 NRS	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	163.0 (A)
\$ 8 Phenol-d5	93	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	(0.919)	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-Chloropropene)	65	4.296	4.297	(1.086)	1290345	160.000	161.0 (A)
34 4-Methylphenol	108	4.421	4.421	(1.118)	895481	160.000	167.2 (A)
36 Hexachloroethane	117	4.504	4.504	(1.139)	343605	160.000	160.7 (A)
37 N-Nitrosodimethylamine	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	4.856	4.856	(0.906)	1628636	160.000	164.4 (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	(0.934)	890994	160.000	164.0 (A)

10-3-10

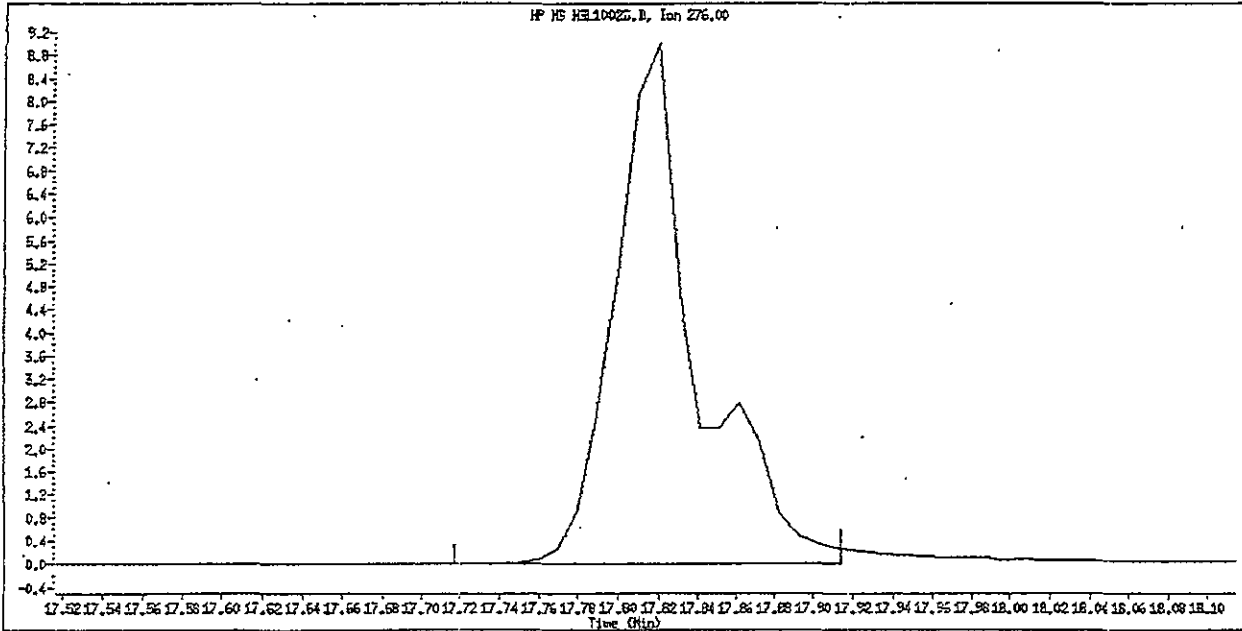
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	CON-COL (NG)
47 Bis(2-chloroethoxy)methane		93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol		162	5.229	5.229	(0.973)	692405	160.000	164.7 (A)
50 Benzoic Acid		122	5.167	5.115	(0.961)	552251	160.000	183.6 (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)	2744958	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	6.483	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	7.291	7.281	(0.975)	2665048	160.000	165.6 (A)
79 2,6-Dinitrotoluene		165	7.302	7.302	(0.976)	408436	160.000	164.8 (A)
80 3-Nitroaniline		138	7.457	7.447	(0.997)	520002	160.000	168.1 (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		168	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)
86 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)	1846653	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	8.286	8.276	(0.881)	324244	160.000	160.7 (A)
98 N-Nitrosodiphenylamine		169	8.328	8.317	(0.885)	1542041	187.900	191.1 (A)
100 Azobenzene		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	12.991	12.991	(0.942)	1402117	160.000	165.8 (A)
138 Benzo(a)Anthracene		228	13.768	13.758	(0.998)	2393908	160.000	166.6 (A)
139 Chrysene		228	13.841	13.831	(1.004)	2422526	160.000	164.6 (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	163.8 (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)	2387952	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 SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MGSS					CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				4775333	160.000	154.8 (A)

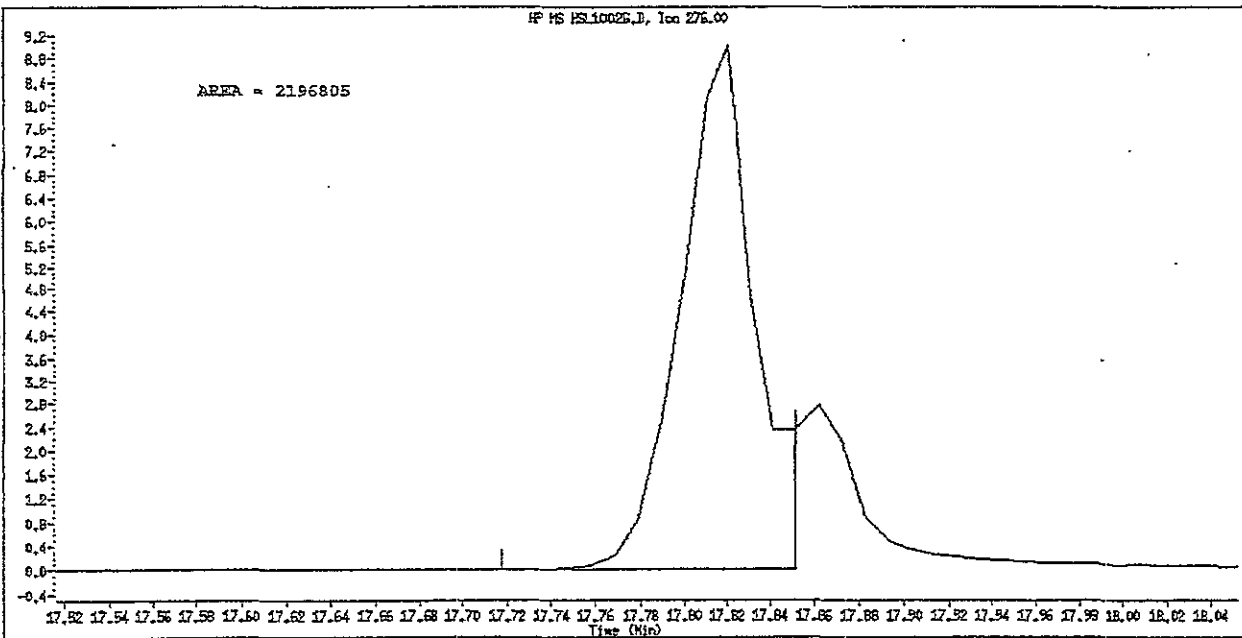
QC Flag Legend

- 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: ESL1002G.D
Inj. Date and Time: 02-OCT-2010 15:00
Instrument ID: svS.i
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\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)	241468	160.000	186.3 (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)	860850	160.000	150.4
23 Aniline	93			3.654	3.654	(0.924)	1318620	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)	834149	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)	895481	160.000	161.5 (A)
36 Hexachloroethane	117			4.504	4.504	(1.139)	343605	160.000	156.5
37 N-Nitrosodipropylamine	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			4.866	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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	OR-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	159.1 (A)
50 Benzoic Acid	122		5.167	5.115	(0.961)	552251	160.000	178.1 (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)	767831	160.000	163.0 (A)
63 2-Methylnaphthalene	142		6.203	6.203	(1.154)	1723402	160.000	163.0 (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		7.281	7.281	(0.975)	2665048	160.000	155.6 (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	(0.997)	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 (Ag)
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)	1846653	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)	2703105	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)
126 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	168.2 (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 (q)
147 Benzo (e) pyrene	252		16.017	16.007	(0.990)	2178528	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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	OF-COL (NG)
N 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.

TestAmerica West Sacramento

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.

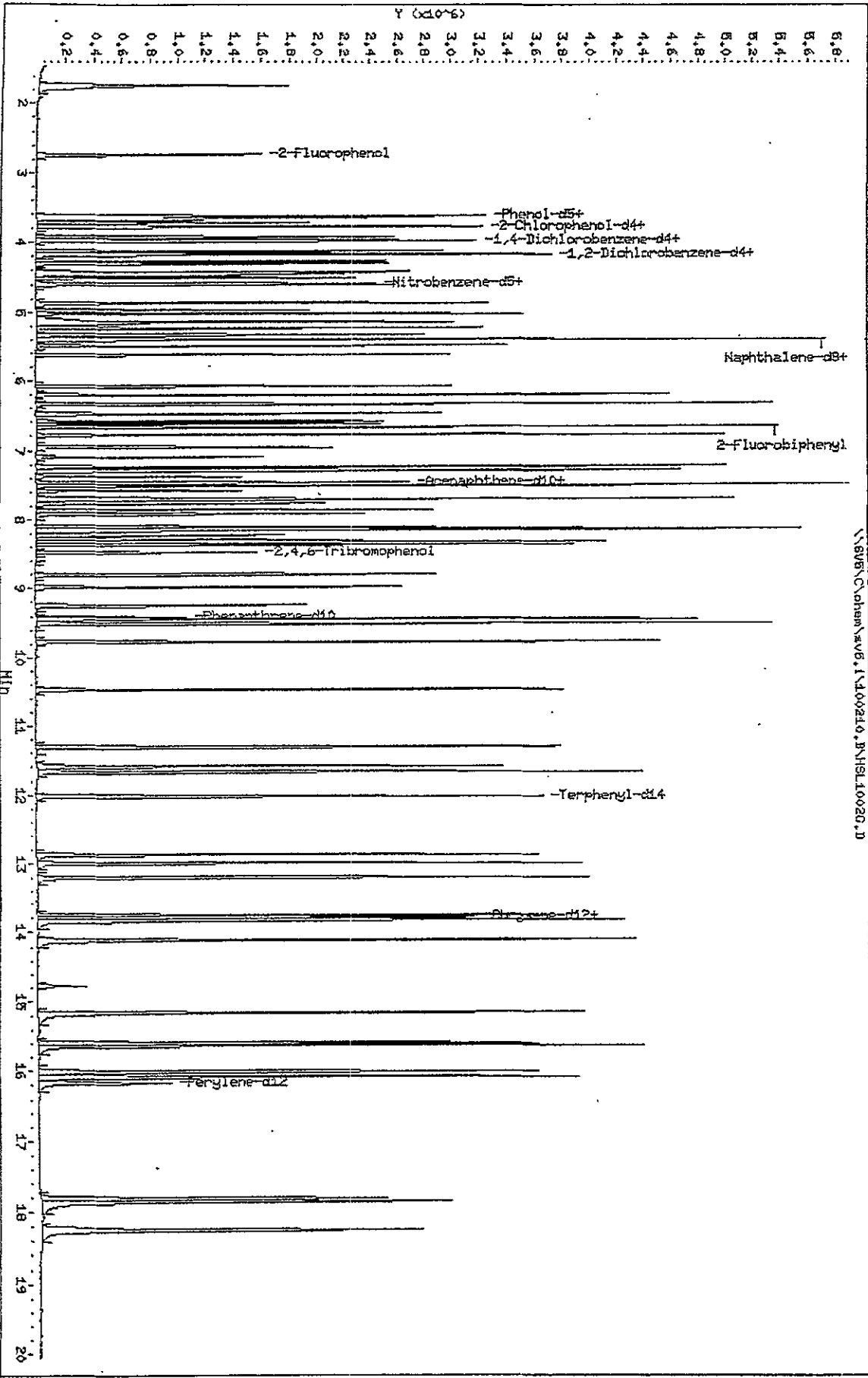
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141009	14.99
2 Naphthalene-d8	530514	265257	1061028	622461	17.33
3 Acenaphthene-d10	282538	141269	565076	328259	16.18
4 Phenanthrene-d10	462722	231361	925444	532284	15.03
5 Chrysene-d12	435850	217925	871700	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: \\8166\chem\sv6.1\100210.JN\SL100205.D
 Date: 02-01-2010 13:10
 Client ID: 8270F.H
 Sample Info: HSL_160 ug/ml CB-711171114
 Column phase:

Instrument: 20B.1
 Operator: KT
 Column diameter: 2.00



TestAmerica West Sacramento

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	RFS0	CCAL RRP50	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	2.27365	2.14153	2.14153	0.010	-5.61096	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-Nitrosodipropylamine	1.01180	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-chloroethoxy)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	0.19324	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	-3.81217	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	7.98139	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	-2.48963	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	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.90194	1.90194	0.010	-2.98044	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.30334	0.30334	0.010	0.45457	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.37836	0.37836	0.010	0.38563	50.00000	Averaged
81 Acenaphthene	1.24787	1.19989	1.19989	0.010	-3.84461	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	48.07731	0.16950	0.050	-3.84537	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.64309	1.64309	0.010	-0.78683	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.16205	0.16205	0.050	3.65012	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39533	0.40639	0.40639	0.010	2.53663	50.00000	Averaged
91 Fluorene	1.37139	1.36209	1.36209	0.010	-0.67828	50.00000	Averaged
92 Diethylphthalate	1.32699	1.28445	1.28445	0.010	-3.20581	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.56986	0.56986	0.010	-0.05862	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.40608	0.40608	0.010	8.68956	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	48.62001	0.13800	0.010	-2.75999	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.49086	0.49086	0.010	-19.03836	20.00000	Averaged
100 Azobenzene	0.78560	0.77322	0.77322	0.010	-1.70096	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.19536	0.19536	0.010	0.04546	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22026	0.22026	0.010	1.00466	50.00000	Averaged
110 Pentachlorophenol	50.00000	50.72441	0.13218	0.010	1.44881	0.000e+000	Linear
114 Phenanthrene	1.26074	1.20864	1.20864	0.010	-4.13307	50.00000	Averaged
115 Anthracene	1.25955	1.22825	1.22825	0.010	-2.48429	50.00000	Averaged
118 Carbazole	1.15061	1.15083	1.15083	0.010	0.01942	50.00000	Averaged
120 Di-n-Butylphthalate	1.18442	1.39149	1.39149	0.010	0.51078	50.00000	Averaged
126 Fluoranthene	1.12969	1.19382	1.19302	0.010	5.60642	20.00000	Averaged
127 Benzidine	0.81067	0.30175	0.30175	0.010	-62.77740	50.00000	Averaged
128 Pyrene	1.25025	1.13023	1.13023	0.010	-9.59978	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.26880	0.26880	0.010	-62.43954	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.58836	0.58836	0.010	-6.10747	50.00000	Averaged
138 Benzo (a) Anthracene	1.06548	0.99285	0.99285	0.010	-6.81596	50.00000	Averaged
139 Chrysene	1.08994	1.04703	1.04703	0.010	-3.93621	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.37691	0.37691	0.010	-6.21534	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316	0.80149	0.80149	0.010	-7.14468	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.27404	1.27404	0.010	-7.66156	20.00000	Averaged
144 Benzo (b) fluoranthene	0.90549	0.90498	0.90498	0.010	-0.05563	50.00000	Averaged
145 Benzo (k) fluoranthene	1.16236	1.22175	1.22175	0.010	5.10982	50.00000	Averaged
147 Benzo (e) pyrene	0.94425	0.98421	0.98421	0.010	4.23177	50.00000	Averaged
148 Benzo (a) pyrene	1.02655	0.95393	0.95393	0.010	-7.07365	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.83029	0.81846	0.81846	0.010	-1.42489	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.92758	0.99090	0.99090	0.010	6.82730	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00427	1.08674	1.08674	0.010	8.21177	50.00000	Averaged
M 152 benzo b,k Fluoranthene Tota	2.06785	2.12673	2.12673	0.010	2.84748	50.00000	Averaged

See RT
 See AD
 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: SACP307DM

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT (NG)	ON-COL (NG)
			MASS	RT	EXP RT	REL RT			RESPONSE
* 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		3.613	3.613	(0.914)	215057	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	(0.431)	112682	50.0000	49.72 (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	53		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)	175092	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)	DN-COL (NG)
47 Bis (2-chloroethoxy)methane	93		5.126	5.126	(0.954)	201982	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)	273788	50.0000	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		12.877	12.877	(0.934)	141696	50.0000	18.78
136 Butylbenzylphthalate	149		12.991	12.991	(0.962)	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	46.43
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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CEL-AMT (NG)	CH-CDL (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.

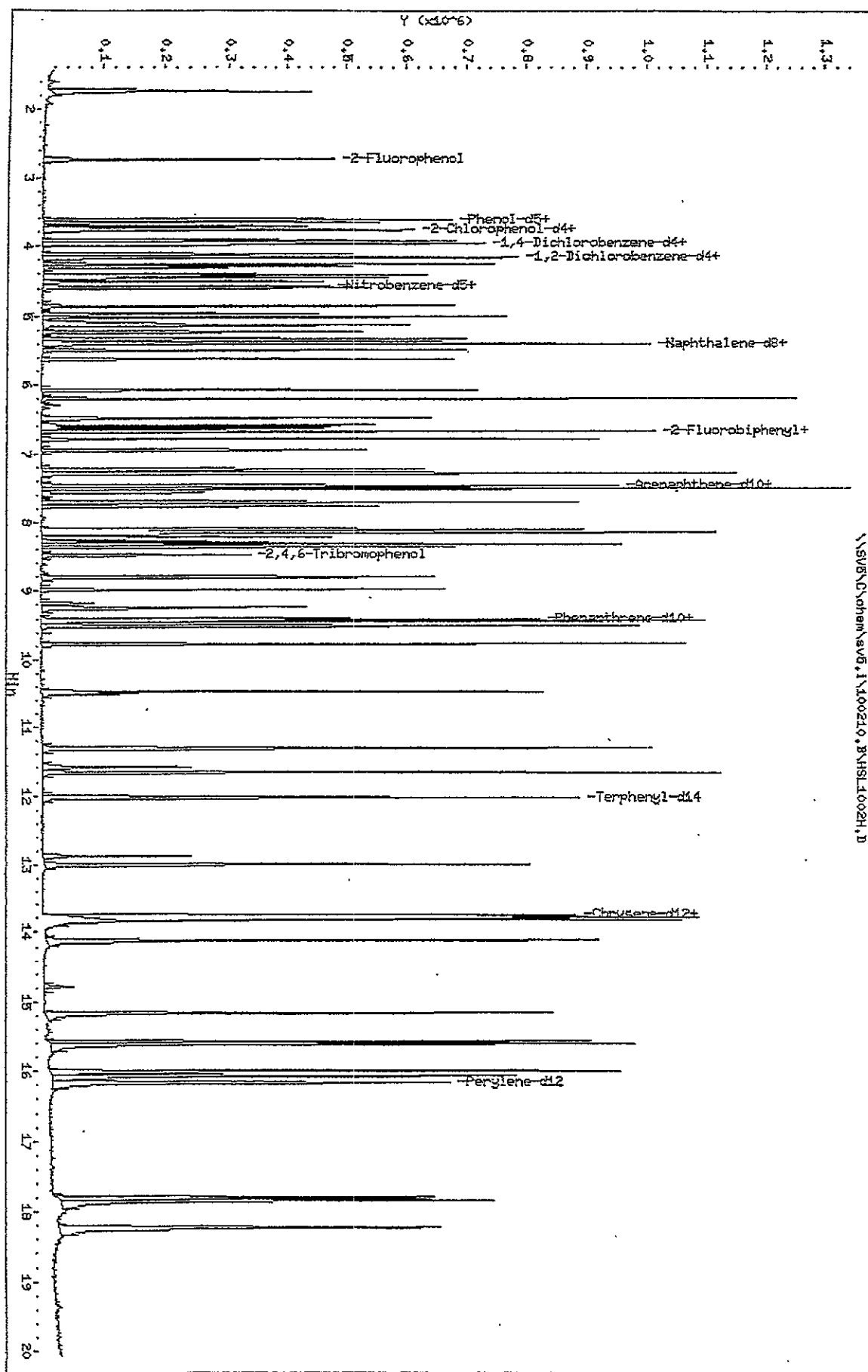
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	98364	-19.78
2 Naphthalene-d8	530514	265257	1061028	431655	-18.63
3 Acenaphthene-d10	282538	141269	565076	236662	-16.24
4 Phenanthrene-d10	462722	231361	925444	380734	-17.72
5 Chrysene-d12	435850	217925	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: \\SVB\CV\chem\avg.11100210.B\HSL1002H.D
 Date: 02-DEC-2010 16:11
 Client: INT 8270F.H
 Sample Info: HSL_080 ug/ml ICVJ211411114
 Column phase: 1

Instrument: avg.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	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	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: 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	3.954	(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

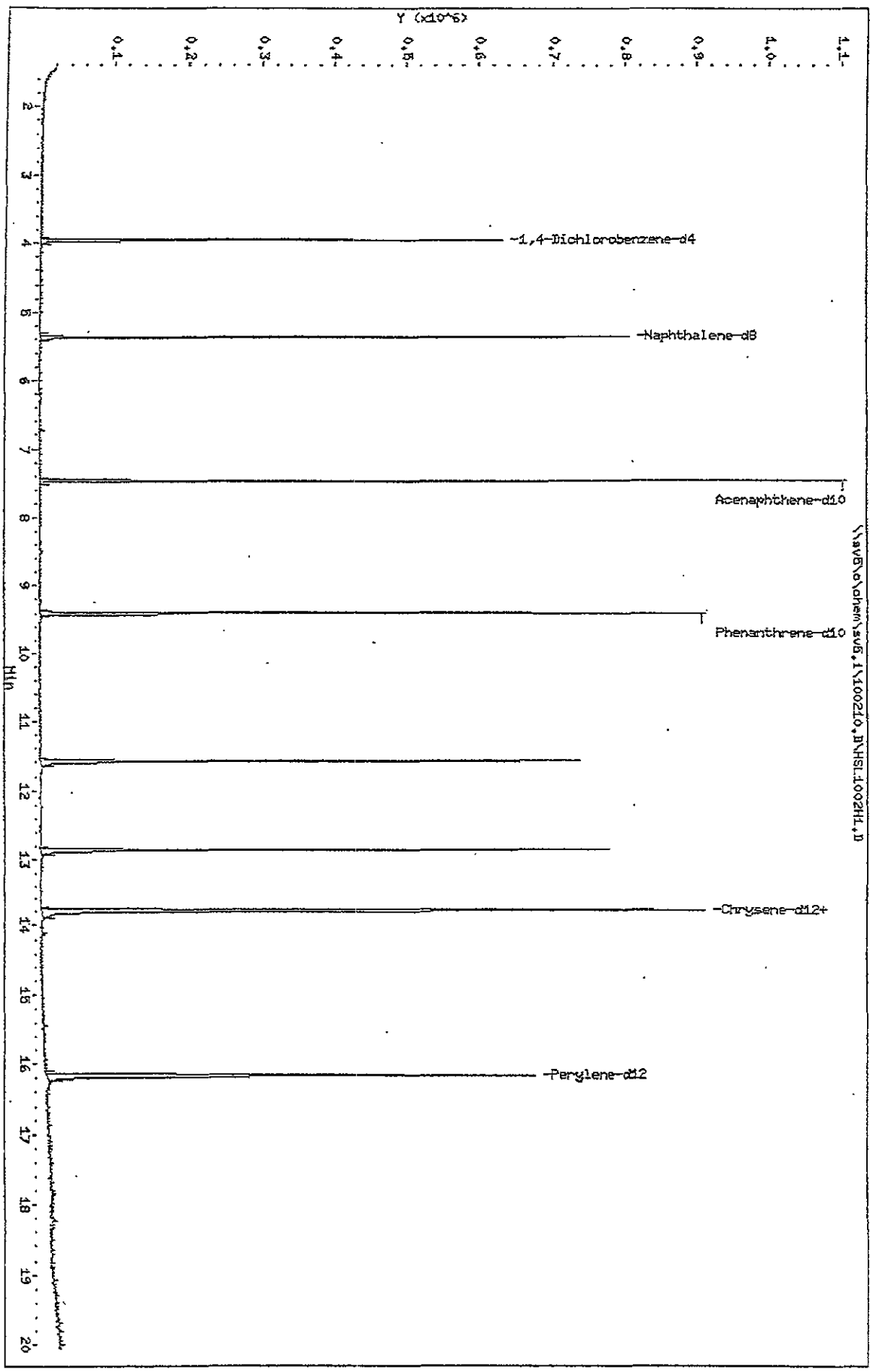
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.36	4.86	5.86	5.36	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	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\chem\svb\1100210.D\HSL1002H1.D
Date: 02-OCT-2010 16:36
Client ID: 8270F.H
Sample Info: Benzidines ICV 80ug/mlj2f1411114

Column phase:

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



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

original RRF
10/3/10

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							
15 N-Nitrosodimethylamine	0.92899 0.93833	0.88268	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	1.69173	1.67754	1.73135	1.68641	1.72299	1.70337	1.294
29 1,4-Dichlorobenzene	1.77122 1.81444	1.79861	1.74013	1.76898	1.78200	1.79288	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	10.000	20.000	50.000	80.000	120.000	KRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
30 Benzyl Alcohol	1.01643 1.09506	1.03654	0.99182	1.04980	1.07792	1.08952	1.05101	3.697
31 1,2-Dichlorobenzene	1.62008 1.64691	1.63185	1.60455	1.68051	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	2.22080	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
35 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	0.61160	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	0.34459 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	REF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
47 Bis(2-chloroethoxy)methane	0.42146 0.38545	0.37494	0.38565	0.38249	0.38500	0.39259	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	0.16266	0.17423	0.19357	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	0.43286	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	0.31756	0.30166	3.644
63 2-Methylnaphthalene	0.68483 0.69217	0.68064	0.68080	0.70067	0.70560	0.71172	0.69378	1.797
66 Hexachlorocyclopentadiene	0.26878 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 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							
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	1.25191	1.29803	1.34568	1.31165	1.32892	1.29606	3.093
77 Acenaphthylene	1.86531 2.02968	1.91304	1.91818	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 0.39603	0.34622	0.35978	0.40036	0.38674	0.39559	0.37691	6.069
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

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							
86 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42154	0.41035	0.42305	0.39623	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	0.33346 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	0.12883	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	0.19281	0.19931	0.19607	0.20581	0.19527	3.468
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	0.13923	0.11931	15.221

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		
	150.000							
	Level 7							
114 Phenanthrene	1.30347 1.26621	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	2.329
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	1.25386	1.26463	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	1.10169 1.10920	0.99731	1.03245	1.04459	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

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							
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	1.34838 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	0.91332	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	0.96997	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	0.73763 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	0.87256	0.92240	0.95990	1.00944	0.92758	7.071
153 Benzo (g, h, i) perylene	0.96025 1.04026	0.98457	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

INITIAL CALIBRATION DATA

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 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	REF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	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	1.67335	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	0.33606	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 ^{ECF 12/1/10}
 Shared QC Batch: N/A
 Shares QC With: N/A

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
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>J34800</u>
Na2SO4	Baker	<u>3640-54B</u>

Batch: 0334389
 MS Run #:
 Prep Date: 11/30/2010
 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: 16:45 (11/30/10) Soxhlet time off: 8:50 (12/1/10)

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G0K300000 - 389	B	MANG51AA	12/1/2010	1.0	✓		1/3/2011
G0K300000 - 389	C	MANG51AC	12/1/2010	1.0	✓		1/3/2011
G0K300000 - 389	L	MANG51AD	12/1/2010	1.0	✓		1/3/2011
G0K300434 - 1		MAMLW1AA	12/1/2010	1.0	✓		1/3/2011
G0K300434 - 4		MAML81AA	12/1/2010	1.0	✓		1/3/2011

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

Comments/NCMs: QC Media: sup 2sv19056/ ECF 11/30/10
P101910

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500mL/10ATRO125/ABU Surr</u>	<u>4/4/11</u>	<u>ECF</u>	<u>[Signature]</u>	<u>11/30/10</u> ✓
Spike Mix LCS/LCSDAMS/MS	<u>1.0mL/10ATRO126/8270 LCS Mix</u>	<u>4/9/11</u>	<u>ECF</u>	<u>[Signature]</u>	<u>11/30/10</u> ✓
Pre-Spike Standard All Samples	<u>250mL/10ASTRO128/1,2-DCB-H</u>	<u>4/19/11</u>	<u>ECF</u>	<u>[Signature]</u>	<u>11/30/10</u> ✓
Internal Standard All Samples	<u>20mL 10VSSV0438</u>	<u>11-19-11</u>	<u>[Signature]</u>	<u>VMP</u>	<u>12/3/10</u>
Soxhlet Extraction Analyst/Date	<u>ECF 11/30/10</u>	Concentration Analyst/Date	<u>ECF 12/1/10</u>	KD Analyst/Date	<u>ECF 12/1/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>85°C</u>	Review Analyst/Date	

Preparation Data Review Checklist

Prep Batch(es) 0334399

Test: T0-13

Prep Date: 11/30/10

Holding Times: 0/1/10 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. Weights and Volumes		
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	
C. Standards and Reagents		
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	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: 
 2nd Level Reviewer: _____

Date: 11/30/10
 Date: _____

Comments:

TestAmerica West Sacramento
GC/MS Data Review Checklist

Batch: 0334389

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. C. Quinn

Date: 12/6/10 12/2/10

2nd Level Reviewer: D. J. [Signature]

Date: 12/7/10 me 12/7/10

Comments: _____

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

Instrument ID (Circle one): M01 M02		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>GOK190601, GOK240587, GOK270427, GOK300434, G0L020446</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 SHARGR	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 A1
	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	GOL020000-286 BLK
336286	MARD8C	11:20:11 Tue 07-Dec-10	Sample	GOL020000-286 LCS
336286	MARD8L	11:22:45 Tue 07-Dec-10	Sample	GOL020000-286 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	GOL010000-251 BLK
335251/53	MAPEVC	12:26:21 Tue 07-Dec-10	Sample	GOL010000-251 LCS
335253/51	MAPE7L	12:28:56 Tue 07-Dec-10	Sample	GOL010000-251 LCSD
335251	MAA80	12:31:29 Tue 07-Dec-10	Sample	GOK190601-3
335251	MAA80P5	12:34:01 Tue 07-Dec-10	Sample	GOK190601-3 5X
335251	MAA80Z	12:36:33 Tue 07-Dec-10	Sample	GOK190601-3 PS
335251	MAA81	12:39:06 Tue 07-Dec-10	Sample	GOK190601-4
335251	MAKDV	12:41:39 Tue 07-Dec-10	Sample	GOK240587-1
335251	MAKD2	12:44:12 Tue 07-Dec-10	Sample	GOK240587-2
	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	GOL020000-286 BLK
336286	MARD8C	13:02:59 Tue 07-Dec-10	Sample	GOL020000-286 LCS
336286	MARD8L	13:05:33 Tue 07-Dec-10	Sample	GOL020000-286 LCSD
340010	MAWLKB	13:08:09 Tue 07-Dec-10	Sample	GOL060000-10 BLK
340010	MAWLKC	13:10:44 Tue 07-Dec-10	Sample	GOL060000-10 LCS
340010	MAWLKL	13:13:20 Tue 07-Dec-10	Sample	GOL060000-10 LCSD
340010	MAML1	13:15:54 Tue 07-Dec-10	Sample	GOK300434-2
340010	MAML1P5	13:18:28 Tue 07-Dec-10	Sample	GOK300434-2 5X
340010	MAML1Z	13:21:03 Tue 07-Dec-10	Sample	GOK300434-2 PS
340010	MAML6	13:23:37 Tue 07-Dec-10	Sample	GOK300434-3
	CCV 5	13:26:17 Tue 07-Dec-10	Sample	
	CCB 5	13:28:56 Tue 07-Dec-10	Sample	

} don't use

} report A1

} report A1

} report A1, M1

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"/>

TAL West Sac

RUN SUMMARY

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	DF	Analyzed Date	Comment	Q
49	MA0J7L	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 % HNO₃, 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 Optimization 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

Report Date/Time: Tuesday, December 07, 2010 08:08:10

Page 1

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	MassNet	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
		755369.417	ug/L	0.000	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
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
		789143.453	ug/L	790209.635	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
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
		817166.369	ug/L	790209.635	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
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
		837042.468	ug/L	790209.635	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
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: G0L020000-286 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
		943099.344	ug/L	790209.635	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
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: MAWLKB

Sample Description: G0L060000-10 BLK
 Batch ID: 340010
 Sample Date/Time: Tuesday, December 07, 2010 13:08:09
 Method File: E:\elandata\Method\0006020-SH.mth
 Dataset File: e:\elandata\dataset\101207a2\MAWLKB.046
 Tuning File: e:\elandata\Tuning\default.tun
 Optimization File: E:\elandata\Optimize\default.dac
 Autosampler Position: 98
 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	-1.323528	1.145	3982.913	ug/L	9698.052
| 44 Ca	0.447555	237.884	3403.577	ug/L	4237.078
| 55 Mn	0.171180	3.759	2194.378	ug/L	1199.113
| 75 As	0.644452	49.988	7372.905	ug/L	8548.720
		833619.116	ug/L	1055614.610	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
72	78.970	

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: MAWLKC

Sample Description: G0L060000-10 LCS

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:10:44

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAWLKC.047

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
[	27 Al	922.205124	2.577	2626029.260	ug/L	9698.052
|	44 Ca	952.917880	3.121	130110.345	ug/L	4237.078
|	55 Mn	185.878671	2.578	1385795.968	ug/L	1199.113
|	75 As	183.882272	2.676	188642.139	ug/L	8548.720
72 Ge-1			852580.884	ug/L	1055614.610	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
72	80.766	

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: MAWLKL

Sample Description: GOL060000-10 LCSD

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:13:20

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAWLKL.048

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
[	27 Al	934.519374	2.122	2624092.505	ug/L	9698.052
|	44 Ca	960.814623	1.430	129361.670	ug/L	4237.078
|	55 Mn	189.382739	1.620	1392379.725	ug/L	1199.113
|	75 As	186.888334	1.930	188972.657	ug/L	8548.720
72 Ge-1			840551.699	ug/L	1055614.610	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
} Mn	55	
| As	75	
72	79.627	

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: MAML1

Sample Description: G0K300434-2

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:15:54

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAML1.049

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

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

Autosampler Position: 17

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	192.398018	2.536	548701.223	ug/L	9698.052
44 Ca	1221.869828	2.625	164265.456	ug/L	4237.078
55 Mn	1758.087168	3.248	12969815.258	ug/L	1199.113
75 As	0.923495	18.738	7739.073	ug/L	8548.720
72 Ge-1			844307.470	ug/L	1055614.610

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
Ge-1	72	79.983

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: MAML1P5

Sample Description: G0K300434-2 5X

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:18:28

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAML1P5.050

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

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

Autosampler Position: 18

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	40.216849	4.654	135804.504	ug/L	9698.052
|	44 Ca	265.720078	4.630	43134.703	ug/L	4237.078
|	55 Mn	355.924240	4.336	2952609.736	ug/L	1199.113
|	75 As	-0.250521	102.000	7408.875	ug/L	8548.720
72 Ge-1			949687.208	ug/L	1055614.610	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[Al	27	
| Ca	44	
| Mn	55	
| As	75	
72	89.965	

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: MAML1Z

Sample Description: G0K300434-2 PS

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:21:03

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAML1Z.051

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

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

Autosampler Position: 19

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	1092.818373	2.266	2988507.331	ug/L	9698.052
44 Ca	2138.790498	2.823	276499.150	ug/L	4237.078
55 Mn	1914.447317	2.500	13704051.939	ug/L	1199.113
75 As	184.843338	3.210	182125.196	ug/L	8548.720
> 72 Ge-1			819207.720	ug/L	1055614.610

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Al	27	
Ca	44	
Mn	55	
As	75	
> Ge-1	72	77.605

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: MAML6

Sample Description: G0K300434-3

Batch ID: 340010

Sample Date/Time: Tuesday, December 07, 2010 13:23:37

Method File: E:\elandata\Method\0006020-SH.mth

Dataset File: e:\elandata\dataset\101207a2\MAML6.052

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

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

Autosampler Position: 20

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	1151.092504	2.408	3188899.635	ug/L	9698.052
|	44 Ca	5394.609379	2.815	701496.151	ug/L	4237.078
|	55 Mn	110.964845	2.477	805683.507	ug/L	1199.113
|	75 As	1.173209	24.843	7846.206	ug/L	8548.720
72 Ge-1			830012.056	ug/L	1055614.610	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
Ge-1	72	78.628	

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	MA0J7L	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"/>

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

Diff: 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
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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:
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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: 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: _____
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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

Department: 120 (Metals)

Source: MetEdit

Sample: ICSAB

Mult: 1.00

Diff: 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: _____

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

Department: 120 (Metals) Source: MetEdit

Sample: CCB 1 Mult: 1.00 Dif: 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: _____

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 Diif: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101207A2 # 19 Method 6020_
 Acquired: 12/07/2010 12:03:37 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	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
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Department: 120 (Metals) Source: MetEdit

Sample: CCB 2 Mult: 1.00 Diff: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 20	Method 6020_
Acquired: 12/07/2010 12:06:16	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	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:
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Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: CCB 3 Mult: 1.00 Dif: 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:

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 4 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02	Channel 262
File: 101207A2 # 33	Method 6020_
Acquired: 12/07/2010 12:55:08	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	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:
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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 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 Diff: 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

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 5

Mult: 1.00

Dilf: 1.00

1.00

Divs: 1.000

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:

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:27:37

Department: 120 (Metals)

Source: MetEdit

Sample: MAML1P5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: ICPMS M02 Channel 262
 File: 101207A2 # 42 Method 6020_
 Acquired: 12/07/2010 13:18:28 M02 Matrix: AIR
 Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7429-90-5	Aluminum	27	135805	201.08	192.40	4.51		*	
7439-96-5	Manganese	55	2952610	1779.6	1758.1	1.22	0.14	1.2	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	7409	-1.2526	0.92349	236	0.41	NC	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
7440-56-4	Germanium	72	949687						<input 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 14:27:46

Department: 120 (Metals)

Source: MetEdit

Sample: MAML1Z

Spike Dilution: 1.00

Sample Dilution: 1.00

Instrument: ICPMS M02

Channel 262

File: 101207A2 # 43

Method 6020_

Acquired: 12/07/2010 13:21:03

M02

Matrix: AIR

Calibrated: 12/07/2010 11:50:24

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7429-90-5	Aluminum	27	2988507	1092.8	192.40	90.0	1000		<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	13704052	1914.4	1758.1	78.2	200	*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	182125	184.84	0.92349	92.0	200		<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
7440-56-4	Germanium	72	819208						<input checked="" type="checkbox"/>

Reviewed by:

Date:

Sample Preparation Log

**TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log**

Date: 6-Dec-10

Analyst: FF

Matrix: AIR

Fraction: Filter

SOP: WS-IP-0001

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G0L060000	10	MAWLKB	2A	NA	NA	NA	100 mL	340010	1.2
G0L060000	10	MAWLKC	2A	NA	NA	NA	100 mL	340010	1.2
G0L060000	10	MAWLKL	2A	NA	NA	NA	100 mL	340010	1.2
G0K300434	2	MAML1	2A	9 inches	0.75 inches	0.75 inches	100 mL	340010	1.2
G0K300434	3	MAML6	2A	9 inches	0.75 inches	0.75 inches	100 mL	340010	1.2

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).

Page 1 of 1
QA-372B Rev. TP 11/17/2008

Metals Spiking Documentation Form

Lot #(s): GOK300434

Batch Number: 0340010

MS Sample(s): N/A

Analyst Initial/Date: PK 12/6/10

Correct Folder ID Witness: N/A

EPA Analytical Method ID: 6020

EPA Prep Method ID: I.O.3.1

Witness Initial/Date: 12/06/10 NM

Digestion Cup Lot #: 101029

Filter Paper Lot #: 390428

Spiked Date: 12/06/10

Hot Plate Microwave ID: ME T II

Hot Plate Temp Initial: _____ Final: _____

Thermometer ID: B709

Fin Vol Cup Lot: 100811

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 ₃	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 ₃	K, Na P, S B, Li, Sr	5,000 1,000 100				
	Si H2O/Tr HF	Si	1,000				<u>12/05/10</u>
✓	TACA-1 5% HNO ₃	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	<u>3189-65</u>	<u>200 uL</u>	<u>N/A</u>	<u>8/31/11</u>
✓	TACA-2 5% HNO ₃	Mo, Sb, Sn, Ti	100	<u>3189-6-6</u>	<u>200 uL</u>	<u>N/A</u>	<u>8/31/11</u>
	Misc. Elements						<u>12/05/10</u>

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	<u>70% HNO₃</u>	<u>Mallinckrodt</u>			<u>30% H₂O₂</u>	<u>Mallinckrodt</u>	
	<u>37% HCl</u>	<u>Mallinckrodt</u>			<u>49% HF</u>	<u>Fisher</u>	
✓	<u>3M HNO₃</u>	<u>In-House</u>	<u>4028-32-1</u>		<u>1:1 HCl</u>	<u>In-House</u>	<u>12/05/10</u>

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.

Prep Batch(es) 0340010

Test: 6020

Prep Date: 12/06/10

Holding Times: 5/24/11 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. Weights and Volumes		
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	✓
C. Standards and Reagents		
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	✓
D. Documentation		
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: NM

Date: 12/06/10

2nd Level Reviewer: SH

Date: 12/6/10

Comments:

AIR, TSP- Total Suspended Particulates

Raw Data Package

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: GOK300434 (2-3) Batch #: 0341292

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/07/10 ANALYST: JZ

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: JZ 12/07/10

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 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: SV 12/7/10

Comments: Desiccator 3A

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 12/07/10
Time: 14:18:35

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
 QC BATCH #: 0341292 INITIALS: DATA ENTRY:
 PREP DATE: 11/30/10 12:30 PREP JZ INITIALS JZ
 COMP DATE: 12/02/10 17:35 ANAL JZ DATE 12/07/10
 USER: PHOMSOPT

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
MAML1-1-AA	G-0K300434-002	XX S 88 AO 3W	M	12/07/10	UW-11242010B
MAML6-1-AA	G-0K300434-003	XX S 88 AO 3W	M	12/07/10	DW-11242010B

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch 0341292

Date 12/07/2010
Time 13:19:45

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (App B)
Analyst:Thep Phomsopha

Work Order	Result	Units	IDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output IDL	Dil.
MAML1-1-AA	0.0214	g	0.0005	11/30-12/07/10	.00	N		0.0214	0.0005	1.00
MAML6-1-AA	0.0959	g	0.0005	11/30-12/07/10	.00	N		0.0959	0.0005	1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION QC #	TOTALS MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

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		
10/26/10	ECF	70	33	-	71	28	-	72	35	-	71	37	-	71	35	-	73	35	-	72	31	-	73	45
11/24/10	SV	70	33	-	71	28	-	72	36	-	72	41	①	71	42	①	73	35	-	72	32	-	73	56
11/23/10	SV	69	33	-	69	28	-	70	34	-	69	28	-	70	28	-	72	35	-	72	31	-	72	43
10/26/10	ECF	68	33	-	68	28	-	70	36	-	68	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	-	67	34	-	66	31	-	68	48
10/30/10	ECF	65	34	-	65	30	-	66	40	-	65	29	-	66	29	-	68	35	-	66	32	-	68	49
11/1/10	ECF	65	34	-	65	30	-	66	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	35	-	68	55

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

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		
11/20/09	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
12-3-10	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
12/7/10	ECF	66	34	-	67	36	-	68	30	-	67	36	-	67	34	-	70	34	-	68	32	-	70	38

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

RDR150

Analytical Results Batch Review/Release

12/07/10

16:11:10

Requested By: VALMORES

<u>Batch</u>	<u>Lot/Sample ID</u>	<u>Analysis Code</u>	<u>W/O#</u>	<u>Group</u>	<u>Message</u>
0341292					Release Requested
0341292					Successfully Released